

RECEIVED

JUL 14 2006

BUREAU OF AIR REGULATION

Mr. Jeff Koerner FDEP North Permitting Section Division of Air Resource Management 2600 Blair Stone Road MS 5500 Tallahassee, Florida 32399-2400

Re:

Crystal River Facility - Title V Permit 0170004-011-AV - Coal Yard Modification

Air Construction Permit Application

Dear Mr. Koerner:

July 12, 2006

Attached is an air construction permit application to modify the coal yard at Crystal River. The coal yard modification consists of replacing the existing barge unloading system, consisting of a clamshell on traveling gantry, with a modern hydraulic crane with a clamshell bucket on a traveling gantry. Additionally, we plan to increase the coal capacity of the coal crushers and conveyors conveying coal to units 1 and 2 from 600 TPH to 900 TPH. This will decrease the time required to bunker coal to units 1 and 2 allowing more time for maintenance to this critical conveying system.

Thank you for your help in this matter. Please contact me at (727) 820-5295 if you have any questions.

Sincerely,

Dave Meyer

Senior Environmental Specialist

xc: Mr. Bob Soich (cover letter)

Gibson, Victoria

From:

Koerner, Jeff

Sent:

Friday, July 14, 2006 3:32 PM

To:

Gibson, Victoria, Adams, Patty, Arif, Syed

Cc:

Holtom, Jonathan

Subject:

Crystal River - AC/AV Application to Increase Coal Unloading/Crushing Capacity

Vickie, Patty, Syed,

We received an application from PEF on July 14th. I assigned this to Jonathan for processing.

Thanks!

Jeff Koerner, BAR - Air Permitting North Florida Department of Environmental Protection 850/921-9536

Jeff probably sessed on the one copy Jeff gave him to Jonathan. 1/1chi

AIR CONSTRUCTION PERMIT APPLICATION COAL YARD MODIFICATION PROJECT CRYSTAL RIVER ENERGY COMPLEX CRYSTAL RIVER, CITRUS COUNTY, FLORIDA

Submitted to:

Progress Energy Florida 100 Central Avenue St. Petersburg, Florida 33701

Submitted by:

Golder Associates Inc. 5100 West Lemon Street Suite 114 Tampa, Florida 33609

Distribution:

4 Copies Department of Environmental Protection

2 Copies Progress Energy Florida2 Copies Golder Associates Inc.

July 2006 . 053-9556

THE TEST IN LEGIT OF THE STATE	PART I –	FDEP	APPLICA	ATION FOR	LAIR PERMIT
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P	'AR	ΓII –	PSD	APPI	LICA	TION
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1.0	EXISTING FACILITY DESCRIPTION	1
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Table 2	Coal Yard Emissions
Table 3	Unpaved Road Emissions
Table 4	Typical Fuel Analysis Coal

LIST OF FIGURES

Figure 1 Coal Yard Layout Figure 2 Crane Drawing

PART I

FDEP APPLICATION FOR AIR PERMIT



Department of Environmental Protection Consider the second of the secon

Air Construction Permit - Use this form to apply for an air construction permit at a facility operating unc federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial/revised/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) - Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

10	entification of racinty					
1.	Facility Owner/Company Name: PROGRESS ENERGY FLORIDA, INC.					
2.	Site Name: CRYSTAL RIVER POWER PLANT					
3.	Facility Identification Number: 0170004					
4.	Facility Location: Street Address or Other Locator: NORTH OF CRYSTAL RIVER, WEST OF U.S. 19					
	City: CRYSTAL RIVER County: C	·	Zip Code: 34428			
5.	Relocatable Facility? ☐ Yes ⊠ No	6. Existing Title ⊠ Yes	V Permitted Facility? ☐ No			
Ar	oplication Contact		·			
1.	Application Contact Name: DAVE MEYER, S	SENIOR ENVIRONM	IENTAL SPECIALIST			
2.	. Application Contact Mailing Address Organization/Firm: PROGRESS ENERGY FLORIDA					
	Street Address: 100 CENTRAL AVE CX1B					
	City: ST. PETERSBURG Sta	ate: FL	Zip Code: 33701			
3.	Application Contact Telephone Numbers					
	Telephone: (727) 820-5295 ext.	Fax: (727) 820	-5229			
4.	Application Contact Email Address: DAVE.I	MEYER@PGNMAIL	.COM			

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 1-14-06	3. PSD Number (if applicable):
2. Project Number(s): 017004-014-AC	4. Siting Number (if applicable):

0170004-015 - AV

Purpose of Application

This application for air permit is submitted to obtain: (Check one)
Air Construction Permit Air construction permit. ☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL). ☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.
Air Operation Permit ☐ Initial Title V air operation permit. ☐ Title V air operation permit revision. ☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required. ☐ Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.
Air Construction Permit and Revised/Renewal Title V Air Operation Permit
 (Concurrent Processing) X Air construction permit and Title V permit revision, incorporating the proposed project. □ Air construction permit and Title V permit renewal, incorporating the proposed project.
Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:
X I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.
Application Comment
Application Comment Progress Energy is proposing to replace the barge unloading system, consisting of a clamshell on traveling gantry, with a modern hydraulic crane with a clamshell bucket on a traveling gantry, increasing the barge unloading rate from 1,500 to 2,500 tons per hour (TPH). In addition, Progress Energy proposes to increase the coal capacity of the coal crushers and conveyors C9, C4, C5, C6, C7, and C8 from 600 TPH to 900 TPH. See Part II.

DEP Form No. 62-210.900(1) – Form 053-9556 Effective: 2/2/06 2 7/11/2006

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee			
016	Material-Handling Activities for Coal Fired Steam Units		NA			
		,				
Application Processing Fee						
Check one: ☐ Attached - Amount: \$			plicable			

DEP Form No. 62-210.900(1) – Form Effective: 2/2/06

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name:

BERNIE M. CUMBIE, MANAGER, CRYSTAL RIVER FOSSIL PLANT & FUEL OPERATIONS

2. Owner/Authorized Representative Mailing Address...

Organization/Firm: PROGRESS ENERGY

Street Address: 100 CENTRAL AVE CN77

City: ST PETERSBURG State: FL

Zip Code: 33701

3. Owner/Authorized Representative Telephone Numbers...

Telephone: (352) 563-4484

ext. Fax:

(352) 563-4496

4. Owner/Authorized Representative Email Address: BERNIE.CUMBIE@PGNMAIL.COM

5. Owner/Authorized Representative Statement:

I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.

Signature

Date

DEP Form No. 62-210.900(1) – Form Effective: 2/2/06

Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1.	Application Responsible Official Name:				
2.	Application Responsible Official Qualification (Check one or more of the following options, as applicable):				
	For a corporation, the president, secretary, treasurer, or vice-president of the corporation in				
	charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such				
	person if the representative is responsible for the overall operation of one or more				
	manufacturing, production, or operating facilities applying for or subject to a permit under				
	Chapter 62-213, F.A.C.				
	 □ For a partnership or sole proprietorship, a general partner or the proprietor, respectively. □ For a municipality, county, state, federal, or other public agency, either a principal executive 				
	officer or ranking elected official.				
ļ	☐ The designated representative at an Acid Rain source.				
3.	Application Responsible Official Mailing Address				
	Organization/Firm: Street Address:				
	City: State: Zip Code:				
1					
4.	Application Responsible Official Telephone Numbers Telephone: () - ext. Fax: () -				
5.	Application Responsible Official Email Address:				
6.	Application Responsible Official Certification:				
	I, the undersigned, am a responsible official of the Title V source addressed in this air				
	permit application. I hereby certify, based on information and belief formed after				
	reasonable inquiry, that the statements made in this application are true, accurate and				
	complete and that, to the best of my knowledge, any estimates of emissions reported in this				
	application are based upon reasonable techniques for calculating emissions. The air				
	pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control				
	of air pollutant emissions found in the statutes of the State of Florida and rules of the				
	Department of Environmental Protection and revisions thereof and all other applicable				
	requirements identified in this application to which the Title V source is subject. I				
	understand that a permit, if granted by the department, cannot be transferred without				
	authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the				
	facility and each emissions unit are in compliance with all applicable requirements to				
	which they are subject, except as identified in compliance plan(s) submitted with this				
	application.				
[Signature Date				

<u>Pr</u>	ofessional Engineer Certification			
l.	Professional Engineer Name: SCOTT OSBOURN			
	Registration Number: 57557			
2.	Professional Engineer Mailing Address			
	Organization/Firm: Golder Associates Inc.**			
	Street Address: 5100 West Lemon St., Suite 114			
	City: Tampa State: FL Zip Code: 33609			
3.	Professional Engineer Telephone Numbers			
4	Telephone: (813) 287-1717 ext.211 Fax: (813) 287-1716 Professional Engineer Email Address: SOSBOURN@GOLDER.COM			
	Professional Engineer Statement:			
٠.	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.			
	(3) If the purpose of this application is to obtain a Title V 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 plan and schedule is submitted with this application.			
	(4) If the purpose of this application is to obtain an air construction permit (check here \boxtimes , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here \square , 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.			
	(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. Signature Date Date			
	(seal) #0. 67687			
	* Attach any exception to certification statement.			

** Board of Professional Engineers Certificate of Authorization #00001670

DEP Form No. 62-210.900(1) - Form Effective: 2/2/06



II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

F	acility	Location	and Type

1.	. Facility UTM Coordinates Zone 17 East (km) 334.3 North (km) 3204.5		2. Facility Latitude/Longitude Latitude (DD/MM/SS) 28/57/34 Longitude (DD/MM/SS) 82/42/01				
3.	Governmental Facility Code: 0	4. Facility Status Code:	5.	Facility Major Group SIC Code: 49	6. Facility SIC(s):		
7.	Facility Comment:						
Fo	Facility Contact						

Facility Contact

1.	Facility Contact Name: DAVE MEYER, SENIOR ENVIRONMENTAL SPECIALIST
2.	Facility Contact Mailing Address Organization/Firm: PROGRESS ENERGY Street Address: 100 CENTRAL AVE CX1B
	City: ST PETERSBURG State: FL Zip Code: 33701
3.	Facility Contact Telephone Numbers: Telephone: (727) 820-5295 ext. Fax: (727) 820-5229
4.	Facility Contact Email Address: DAVE.MEYER@PGNMAIL.COM

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1.	Facility Primary Responsible O	fficial Name:			•		
2.	Facility Primary Responsible O Organization/Firm:	fficial Mailing A	ddress				
	Street Address:						!
	City:	State:			Zip	Code:	
3.	Facility Primary Responsible O	fficial Telephone	Numbers	S			
	Telephone: () -	ext.	Fax:	()	-	
4.	Facility Primary Responsible O	fficial Email Ad	dress:				

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Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1.	Small Business Stationary Source	Unknown
2. 🗆	Synthetic Non-Title V Source	
3. 🛛	Title V Source	
4. 🛛	Major Source of Air Pollutants, Other than Hazardous Ai	r Pollutants (HAPs)
5. 🗆	Synthetic Minor Source of Air Pollutants, Other than HA	Ps
6. 🛛	Major Source of Hazardous Air Pollutants (HAPs)	
7. 🗆	Synthetic Minor Source of HAPs	
8. 🛛	One or More Emissions Units Subject to NSPS (40 CFR	Part 60)
9. 🗆	One or More Emissions Units Subject to Emission Guide	lines (40 CFR Part 60)
10.	One or More Emissions Units Subject to NESHAP (40 C	FR Part 61 or Part 63)
11. 🗆	Title V Source Solely by EPA Designation (40 CFR 70.3	(a)(5))
12. Fa	cility Regulatory Classifications Comment:	

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List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
со	A	N
NOx	A	N
PB	A	N
PM	A	N
PM10	A	N
SO2	A	N
VOC	A	N

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
					-
					-
		·	<u></u> -		
				<u> </u>	
			· <u>-</u>		
7. Facility	y- write of within-	Unit Emissions Ca	p Comment.		

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C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation
	permit revision applications if this information was submitted to the department within the
	previous five years and would not be altered as a result of the revision being sought)
	☐ Attached, Document ID: ☐ Previously Submitted, Date:
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air
	operation permit revision applications if this information was submitted to the department
	within the previous five years and would not be altered as a result of the revision being
	sought) Attached, Document ID: Previously Submitted, Date:
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all
	permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not
	be altered as a result of the revision being sought)
	☐ Attached, Document ID: ☐ ☐ Previously Submitted, Date: ☐
L	
_	ditional Requirements for Air Construction Permit Applications
1.	Area Map Showing Facility Location:
	☐ Attached, Document ID: ☐ Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit
	(PAL):
	Attached, Document ID: PART II
3.	Rule Applicability Analysis:
	Attached, Document ID: PART II
4.	List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.):
	☐ Attached, Document ID: ☐ ☐ Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification:
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.):
	☐ Attached, Document ID: ☐ ☐ Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.):
	☐ Attached, Document ID: ⊠ Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):
	☐ Attached, Document ID: ☐ Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):
	☐ Attached, Document ID: ☐ ☐ Not Applicable
10	Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):
1	☐ Attached, Document ID: ☐ Not Applicable

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Additional Requirements for FESOP Applications 1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): Not Applicable (no exempt units at facility) ☐ Attached, Document ID: Additional Requirements for Title V Air Operation Permit Applications 1. List of Insignificant Activities (Required for initial/renewal applications only): Attached, Document ID: ☐ Not Applicable (revision application) 2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought): Attached, Document ID: Not Applicable (revision application with no change in applicable requirements) 3. Compliance Report and Plan (Required for all initial/revision/renewal applications): Attached, Document ID: Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing. 4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only): Attached, Document ID: Equipment/Activities On site but Not Required to be Individually Listed ☐ Not Applicable 5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only): Attached, Document ID: ☐ Not Applicable 6. Requested Changes to Current Title V Air Operation Permit: Attached, Document ID: ☐ Not Applicable Additional Requirements Comment

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III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application — Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

DEP Form No. 62-210.900(1) – Form Effective: 02/02/06

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)							
	 ☑ 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. 							
<u>En</u>	nissions Unit	Des	cription and Sta	itus				
1.	Type of Emis	ssio	ns Unit Addresse	d in this Section	on: ((Check one)		
	process o	r pr		activity, which	n pro	ses, as a single emoduces one or more stack or vent).		
	process o	r pr		d activities wh	ich !	has at least one de		ons unit, a group of ble emission point
						ses, as a single em which produce fug		
	Description of steam units.		nissions Unit Ad	ldressed in this	s Sec	tion: Material-han	dling	g activities for coal-
3.	Emissions U	nit I	dentification Nur	nber: EU016				
4.	Emissions Unit Status Code:	5.	Commence Construction Date: 8/15/06	6. Initial Startup Date:	7.	Emissions Unit Major Group SIC Code: 49	8.	Acid Rain Unit? ☐ Yes ☑ No
9.	Package Unit				N / -	d-1 Noh		
10	Manufacturer: Model Number: 10. Generator Nameplate Rating: MW							
11.	10. Generator Nameplate Rating: MW 11. Emissions Unit Comment: This emission unit consists of transport and storage of coal, flyash, and bottom ash for FFSG Units 1, 2, 4, and 5.							

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Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:	
Dust suppression by water sprays	
Miscellaneous control devices - enclosures	
Dust suppression - traffic control	
(Refer to Condition H.3 of the current TV Permit No. 0170004-009-AV, which references	
Progress Energy's Best Management Plan (BMP) for particulate emissions)	
2. Control Davis on Mathed Code(s) 200	
2. Control Device or Method Code(s): 061	

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughp	out Rate: 3,118,925 TPY coal	for Units 1 and 2.
2.	Maximum Production Rate:		
3.	Maximum Heat Input Rate:	million Btu/hr	
4.	Maximum Incineration Rate:	pounds/hr	
		tons/day	
5.	Requested Maximum Operating	g Schedule:	
		24hours/day	7days/week
		52weeks/year	8760hours/year
pre	5,076,991 TPY coal for Units 4 a ocess throughput rate is based o ating value.		
pre	5,076,991 TPY coal for Units 4 a ocess throughput rate is based o	nd 5. 8,195,916 TPY for all u	

C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Flow Diagram: Various - 0		2. Emission Point 7	Гуре Code:				
3.								
4.	ID Numbers or Description	ns of Emission Ui	nits with this Emission	n Point in Common:				
5.	Discharge Type Code: F	6. Stack Height feet	:	7. Exit Diameter: feet				
8.	Exit Temperature: 77°F	9. Actual Volumer acfm	metric Flow Rate: 10. Water Vapor: %					
11.	Maximum Dry Standard F dscfm	low Rate:	12. Nonstack Emissi Various feet	on Point Height:				
13.	Emission Point UTM Coo Zone: East (km): North (km)		14. Emission Point I Latitude (DD/M Longitude (DD/I	,				
15.	Emission Point Comment Fugitive emissions at amb							
l								

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1.	1. Segment Description (Process/Fuel Type): Coal Transport for Units 1 and 2.								
2.	Source Classification Cod	e (SCC):	3. SCC Units Tons Trans						
4.	Maximum Hourly Rate: 900	5. Maximum . 3.118,925	Annual Rate:	6. Estimated Annual Activity Factor:					
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:					
C6	, C7, and C8) from 600 TPH	to 900 TPH. The	se conveyors tra	veyors (conveyors C9, C4, C5, nsport coal from the reclaim ed on maximum firing rate of					
Se	gment Description and Ra	ıte: Segment 2 c	of <u>2</u>						
1.	Segment Description (Process/Fuel Type): Coal Transport for Units 4 and 5								
2.	Source Classification Cod	e (SCC):	3. SCC Units Tons Trans						
4.	Maximum Hourly Rate: 2,500	5. Maximum . 5,076,991	Annual Rate:	6. Estimated Annual Activity Factor:					
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:					
to the	10. Segment Comment: Propose to increase barge unloading from 1,500 TPH to 2,500 TPH. Conveyors from barge to Boilers Units 4 and 5 are already rated for a capacity of 2,500 TPH, therefore no changes to these conveyors are needed. Maximum annual rate based on maximum firing rate of Units 4 and 5.								

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

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

POLLUTANT DETAIL INFORMATION Page[1] of [1]

PM

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM	2. Total Perce	ent Efficie	ency of Control:	
3. Potential Emissions:		-	netically Limited?	
14.7lb/hour 4	3tons/year	☐ Y€	es 🛭 No	
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: See Part II			7. Emissions Method Code:	
Reference:			3	
8.a. Baseline Actual Emissions (if required): 26.6 tons/year 8.b. Baseline 24-month From: From: To:			Period:	
9.a. Projected Actual Emissions (if required): tons/year): 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years			
10. Calculation of Emissions: See Tables 1 through 3 of Part II. Hourly rate is based on the daily rate and 24 hr/day assumed operation.				
11. Potential Fugitive and Actual Emissions Comment: PSD applicability is based on past actual vs. future potential.				

POLLUTANT DETAIL INFORMATION Page [1] of [1] PM10

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

. Pollutant Emitted: 2. Total Percent Effic			ency of Control:	
3. Potential Emissions:		4. Synth	netically Limited?	
5.81 lb/hour 15 .	3tons/year	□Y€	=	
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: See Part II			7. Emissions Method Code:	
Reference:			3	
8.a. Baseline Actual Emissions (if required): 9.64 tons/year 8.b. Baseline 24-month From: To:			Period:	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years			
10. Calculation of Emissions: See Tables 1 through 3 of Part II. Hourly rate is based on daily rate and 24 hr/day assumed operation.				
11. Potential Fugitive and Actual Emissions Comment: PSD applicabitlity is based on past actual vs. future potential.				

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:		
	VE20	⊠ Rule	☐ Other	
3.	Allowable Opacity:			
	· ·	cceptional Conditions:	%	
	Maximum Period of Excess Opacity Allowe	ed:	min/hour	
4.	Method of Compliance: EPA Method 9			
	-			
5.	Visible Emissions Comment:			
Vis	sible Emissions Limitation: Visible Emissi	ons Limitation of _		
1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:	
		☐ Rule	☐ Other	
3.	Allowable Opacity:			
	Normal Conditions: % Ex	cceptional Conditions:	%	
	Maximum Period of Excess Opacity Allowe	∍d:	min/hour	
4.	Method of Compliance:			
			:	
_	Tr. 11 T			
٥.	Visible Emissions Comment:			

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Drawing 11127 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
3.	Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
4.	Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date Not Applicable (construction application)
5.	Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	Not Applicable
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute Attached, Document ID: Not Applicable

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Additional Requirements for Air Construction Permit Applications

1.	1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),				
	F.A.C.; 40 CFR 63.43(d) and (e))				
	☐ Attached, Document ID: ☐ ☐ Not Applicable				
2.	Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and				
	Rule 62-212.500(4)(f), F.A.C.)				
	☐ Attached, Document ID: ⊠ Not Applicable				
3.	Description of Stack Sampling Facilities (Required for proposed new stack sampling				
	facilities only)				
	☐ Attached, Document ID: ⊠ Not Applicable				
<u>A</u> (ditional Requirements for Title V Air Operation Permit Applications				
1.	Identification of Applicable Requirements				
	☐ Attached, Document ID: ☐ Not Applicable				
2.	Compliance Assurance Monitoring				
	☐ Attached, Document ID: ☐ Not Applicable				
3.	Alternative Methods of Operation				
	☐ Attached, Document ID: ☐ Not Applicable				
4.	Alternative Modes of Operation (Emissions Trading)				
	☐ Attached, Document ID: ☐ Not Applicable				
5.	Acid Rain Part Application				
	☐ Certificate of Representation (EPA Form No. 7610-1)				
	☐ Copy Attached, Document ID:				
	☐ Acid Rain Part (Form No. 62-210.900(1)(a))				
	☐ Attached, Document ID:				
	☐ Previously Submitted, Date:				
	☐ Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)				
	Attached, Document ID:				
	☐ Previously Submitted, Date:				
	☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)				
	Attached, Document ID:				
	Previously Submitted, Date:				
	☐ Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)				
	Attached, Document ID:				
	Previously Submitted, Date:				
	☐ Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)				
	☐ Attached, Document ID:				
	☐ Previously Submitted, Date:				
	Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)				
	Attached, Document ID:				
	Previously Submitted, Date:				
	☐ Not Applicable				

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EMISSIONS UNIT INFORMATION Section [1] MATERIAL-HANDLING ACTIVITIES Additional Requirements Comment

PART II

PSD APPLICATION FOR THE PROPOSED COAL YARD MODIFICATIONS PROGRESS ENERGY'S CRYSTAL RIVER ENERGY COMPLEX.

1.0 EXISTING FACILITY DESCRIPTION

Crystal River Energy Complex consists of four coal-fired fossil fuel steam generating (FFSG) units with electrostatic precipitators; two natural draft cooling towers for FFSG Units 4 and 5; helper mechanical cooling towers for FFSG Units 1, 2 and Nuclear Unit 3; coal, fly ash, and bottom ash handling facilities, and relocatable diesel fired generator(s).

The facility also includes miscellaneous unregulated/insignificant emissions units and/or activities. A summary of the emission units is as follows:

E.U. ID				
No.	Brief Description			
001	Fossil Fuel Steam Generator (FFSG), Unit 1			
002	FFSG, Unit 2			
004	FFSG, Unit 4			
003	FFSG, Unit 5			
006	Fly ash transfer (Source 1) from FFSG Unit 1			
008	Fly ash storage silo (Source 3) for FFSG Units 1 and 2			
009	Fly ash transfer (Source 4) from FFSG Unit 2			
010	Fly ash transfer (Source 5) from FFSG Unit 2			
014	Bottom ash storage silo for FFSG Units 1 and 2, with associated vacuum blower			
	exhausts and bin vent filter (total of three emission points)			
7775047,	Relocatable diesel generator(s) will have a maximum (combined) heat input of 25.74			
001	MMBtu/hour while being fueled by 186.3 gallons of new No. 2 fuel oil per hour with			
	a maximum (combined) rating of 2460 kilowatts.			
013	Cooling towers for FFSG Units 1, 2, and 3, used to reduce plant discharge water			
	temperature			
015	Cooling towers for FFSG Units 4 and 5 used to reduce plant discharge water			
	temperature			
016	Material handling activities for coal-fired steam units			

Unregulated Emissions Units and/or Activities			
017	Fuel and lube oil tanks and vents		
018	Sewage treatment, water treatment, lime storage		
019	Three 3500 kW diesel generators associated with Unit 3		

Insignificant Emission Units

- 1. Vehicle diesel and gasoline tanks.
- 2. Diesel fire pump and tank at Unit 1.
- 3. Diesel fire pump and tank at Unit 3 (FWP-7)
- 4. Diesel pump driver for emergency feedwater (1,670 BHP)
- 5. Diesel generator for security bldg and system (backup)
- 6. 260 kW emergency diesel generator at Unit 3 technical support center.
- 7. Unit 3 diesel generator air compressor.
- 8. Unit 3 halon fire protection system.
- 9. Fire pump house emergency diesel generator units and electric generator units.
- 10. Laboratory facilities
- 11. CEM equipment and calibration gas storage and venting.
- 12. Surface coating of less than 6.0 gallons per day.
- 13. Brazing, soldering and welding.
- 14. Grounds maintenance.
- 15. Miscellaneous gas and diesel engines.
- 16. Miscellaneous material handling facilities.
- 17. Parts washers.
- 18. Miscellaneous material cleaning equipment (e.g., self contained and sand blasting).

2.0 PROPOSED PROJECT

Progress Energy proposes to make modifications to Emission Unit (EU) 016. This emission unit designation represents material handling activities for the coal-fired steam units, including the storage and transport of coal, fly ash and bottom ash handling for fossil fuel steam generator (FFSG) Units 1, 2, 4 and 5, not addressed by other emissions units. This proposed project only affects the coal handling and storage activities associated with EU 016. A description of the existing activities and the proposed modifications follows.

Coal is brought into the facility by barge and rail car. Coal is conveyed from both barge and rail to storage and to the boilers via various conveyors and crusher stations. Once received at the boilers, coal is stored in silos. The current coal conveyor system is shown in Drawing No. 11127-2-009.

The proposed modifications include the following:

- Replace the barge unloading system, consisting of a clamshell on traveling gantry, with a modern hydraulic crane with a clamshell bucket on a traveling gantry (see Drawing No. 11127-2-009). This modification will increase the speed of unloading coal barges. The current system is rated at approximately 1,500 TPH and 16,000 TPD. The modification will increase this rate to a nominal 2,500 TPH and 32,000 TPD. The annual coal usage and plant bunkering is based on the capacity of the boilers and these proposed changes will not change the operation of the boilers and as such will not increase the average annual coal unloading. There may be some variation in coal shipments (up or down) due to on site inventory adjustments.
- Increase the coal capacity of the coal crushers and conveyors C9, C4, C5, C6, C7, and C8 from 600 TPH to 900 TPH. This will decrease the time required to fill the existing Unit Nos. 1 and 2 coal silos but will not affect the existing boiler operating parameters.

The potential to emit is based on the maximum potential coal utilization for the coal-fired units (Units 1, 2, 4 and 5) and the lower range of the coal heating value. As a comparison, the PM emissions are based on 8.2 million tons of coal per year (i.e., 3.1 million tons for Units 1 and 2 and 5.1 million tons for Units 4 and 5), while the maximum potential capability at 1,500 TPH is 13.14 million TPY and at 2,500 TPH is 21.9 million TPY. Indeed, the conveyor system rate change will primarily allow the transfer of coal from the barge to the storage area at a faster rate and will not significantly increase the annual rate, as this is limited by the utilization of the coal-fired units (the boiler heat input and the heating value of the coal).

3.0 EMISSIONS

Emissions from the proposed modifications are particulate matter (PM) and PM₁₀. All conveyors are enclosed and are assumed to result in negligible fugitive emissions. Fugitive PM/PM₁₀ emissions occur during drop operations from conveyor to conveyor and from conveyor to pile. A summary of the drop operations associated with the coal handling system is provided in Table 1. A summary of the past actual and future potential emissions is provided in Table 2. Table 3 presents a summary of coal yard vehicle traffic emissions. The net PM/PM₁₀ emission changes associated with the proposed modifications are as follows:

	Past Actual Coal Yard Drop Operations (TPY)	Past Actual Traffic (TPY)	Future Potential Coal Yard Operations (TPY)	Future Traffic (TPY)	Net Change (TPY)	PSD Threshold (TPY)
PM	12.38	14.2	16.9	26.2	16.5	25
PM ₁₀	5.94	3.7	8.1	7.2	5.7	15

4.0 RULE APPLICABILITY

The facility is currently permitted under Title V Permit No. 0170004-009-AV. The facility is a major source of hazardous air pollutants (HAPs).

Emission Unit 016 is regulated partially under Power Plant Siting Certification PA 77-09; NSPS 40 CFR 60 Subpart Y (Units 4 and 5 only); and PSD permit AC 09-162037, PSD-FL-139.

5.0 PSD REVIEW

Under Federal and State of Florida PSD review requirements, all major new or modified sources of air pollutants regulated under the Clean Air Act (CAA) must be reviewed and a pre-construction permit issued. EPA has approved Florida's State Implementation Plan (SIP), which contains PSD regulations; therefore, PSD approval authority has been granted to the FDEP.

A "major facility" is defined as any one of 28 named source categories that have the potential to emit 100 TPY or more, or any other stationary facility that has the potential to emit 250 TPY or more of any pollutant regulated under the CAA. "Potential to emit" means the capability, at maximum design capacity, to emit a pollutant after the application of control equipment. Once a new source is determined to be a "major facility" for a particular pollutant, any pollutant emitted in amounts greater than the PSD significant emission rates is subject to PSD review. For an existing source for which a modification is proposed, the modification is subject to PSD review if the net increase in emissions due to the modification is greater than the PSD significant emission rates.

As demonstrated in the above table, the maximum annual emissions increase due to the proposed modifications will not exceed the respective PSD significant emission rate for PM/PM₁₀. Therefore, PSD review is not applicable to the project.

TABLES

Table 1. Coal Yard Drop Operations

Segment	ID	Description	Drop	
A				
Barge to Uni	its 1 & 2		_	
	D 4	Claraball to have a	Drops	****
	B-1 B-2	Clamshell to hopper Hopper to beit	1 2	open
	B-3	Belt to C1	3	
	TP1-1	C1 to C2	4	
	TP3	C2 to C4A/B	5	
	C building	C4A/B to surge bin	6	
	C building	Surge bin to feeder		
	C building	Feeder to crusher		
	C building	Crusher to C5 A/B	7	crusher
	Plant	C5 to surge hopper	8	
	Plant	Surge hopper to C7	9	
	Plant	C7 to C8	10	
.	Plant	C8 to Silo	11	
B Baraa ta ara	und (SR) to Units 1	§ 2		
Daige to gio	unu (SIX) to Onits T	a 2		
	B-1	Clamshell to hopper	1	open
	B-2	Hopper to belt	2	•
	B-3	Belt to C1	3	
	TP1-1	C1 to C2	4	
	TP3	C2 to C3	5	
	SR	C3 to SR1	6	
	SR	SR1 to SR2	7	
	SR SR	SR2 to coal pile Bucket wheel to SR2	8 9	open
	SR	Belt to belt	10	open
	SR	Belt to C3	11	
	TP3	C3 to C4A/B	12	
	C building	C4A/B to surge bin	13	
	C building	Surge bin to feeder		
	C building	Feeder to crusher		
	C building	Crusher to C5 A/B	14	crusher
	Plant	C5 to surge hopper	15	
	Plant	Surge hopper to C7	16	
	Plant	C7 to C8	17	
•	Plant	C8 to Silo	18	
Barge to Uni	its 4 & 5			
3	New			
	Source	Description		
	B-1	Clamshell to hopper	1	open
	B-2	Hopper to belt	2	opo
	B-3	Belt to C1	3	
	TP1-1	C1 to C2	4	
	TP3	C2 to C29A	5	
	TP 24-1	C29A TO C30A	6	
	TP25-1	C30A TO C31B	7	
	TP26-1	C31B TO C33A	8	
	TP27-1	C33A TO C35A/B	9	
	C building	C35A/B to surge bin	10	
	C building C building	Surge bin to c feeder Feeder to crusher		
	O building	1 SOUDI TO GLUSTICI		

Table 1. Coal Yard Drop Operations

Segment	ID	Description	Drop	
	C building	Crusher to C36A/B	11	crusher
	Plant	C36A/B to C502	12	
	Plant	C502 to C504	13	
_	Plant	C504 to silo	14	
D				
Barge to gr	ound (SR) to Units 4	l & 5		
	B-1	Clamshell to hopper	1	open
	B-2	Hopper to belt	2	
	B-3	Belt to C1	3	
	TP1-1	C1 to C2	4	
	TP3	C2 to C29A	5	
	TP 24-1	C29A TO C30A	6	
	TP25-1	C30A TO C31B	7	
	TP26-1	C31B TO C33A	8	
	TP27-1	C33A TO C34	9	
	SR	C34 TO Hopper	10	
	SR	Hopper to belt	11	
	SR	Belt to belt	12	
	SR	Belt to coal pile	13	open
	SR	Bucket wheel to belt	14	open
	SR	Belt to belt	15	
	SR	Belt to C34	16	
	TP27-1	C34 TO C35A/B	17	
	C building	C35A/B to surge bin	18	
	C building	Surge bin to c feeder		
	C building	Feeder to crusher		
	C building	Crusher to C36A/B	19	crusher
	Plant	C36A/B to C502	20	
	Plant	C502 to C504	21	
E	Plant	C504 to silo	22	
Rail to Units	s 1 & 2			
	R unloader	Dail our to happer	Drops	onon
	R unloader	Rail car to hopper V feeder to C10	1 2	open
	R unloader	C10 to C11	3	
	TP23	C11 to C13	4	
	TP24	C13 to C29B	5	
	TP3	C29B to C4A/B	6	
	C building	C4A/B to surge bin	7	
	C building	Surge bin to feeder	•	
	C building	Feeder to crusher		
	C building	Crusher to C5 A/B	8	crusher
	Plant	C5 to surge hopper	9	3.33
	Plant	Surge hopper to C7	10	
	Plant	C7 to C8	11	
	Plant	C8 to Silo	12	
F	, , , , , , , , , , , , , , , , , , , ,		·-	
-	nd (SR) to Units 1 8	. 2		
	R unloader	Rail car to hopper	1	open
	R unloader	V feeder to C10	2	- F - · ·
	R unloader	C10 to C11	3	
	TP23	C11 to C13	4	
	TP24	C13 to C29B	5	

Table 1. Coal Yard Drop Operations

SR	Segment	ID	Description	Drop	
SR SR SR2 to SR2 to coal pile 9 open		TP3	C29B to C3	6	
SR			C3 to SR1		
SR Belt to belt 11 SR Belt to belt 11 SR Belt to C3 12 TP3 C3 to C4A/B 13 C building C4 A/B to surge bin 14 C building Surge bin to feeder C building Feeder to crusher C building Crusher to C5 A/B 15 C building C7 building Crusher to C5 A/B 15 C building Crusher to C5 A/B 18 Plant C5A/B to surge hopper 16 Plant Surge hopper to C7 17 Plant C7 to C8 18 Plant C8 to Silo 19 G Rail to Units 4 & 5 R unloader Rail car to hopper 1 open R unloader V feeder to C10 2 R unloader C10 to C11 3 TP24 C13 to C30A 5 TP25-1 C30A TO C31B 6 TP26-1 C31B TO C33A 7 TP27-1 C33A TO C35A/B 8 C building C35A/B to surge bin 9 C building Surge bin to feeder C building Surge bin to c feeder C building Feeder to crusher C building Feeder to crusher C building Crusher to C36A/B 10 C building Feeder to C502 11 Plant C502 to C504 12 Plant C504 to silo 13 H Rail to ground (SR) to Units 4 & 5 R unloader Rail car to hopper 1 open R unloader V feeder to C10 2 R unloader C10 to C11 3 TP23 C11 to C13 4 Plant C502 to C504 12 Plant C504 to silo 13 H Rail to ground (SR) to Units 4 & 5		SR	SR1 to SR2	8	
SR Belt to belt 11 SR Belt to C3 12 TP3 C3 to C4A/B 13 C building C4 A/B to surge bin 14 C building Surge bin to feeder C building Feeder to C10 17 Plant C5A/B to surge hopper 16 Plant Surge hopper to C7 17 Plant C7 to C8 18 Plant C7 to C8 18 Plant C8 to Silo 19 G Rail to Units 4 & 5 R unloader Rail car to hopper 1 1 open R unloader V feeder to C10 2 R unloader C10 to C11 3 4 TP24 C13 to C30A 5 TP25-1 C30A TO C31B 6 C building C35A/B to surge bin 9 C building C35A/B to surge bin 9 C building C35A/B to surge bin 9 C building Feeder to C36A/B 10 C building Feeder to C36A/B 10 Plant C36A/B to C502 11 Plant C502 to C504 12 Plant C504 to silo 13 H Rail to ground (SR) to Units 4 & 5 R unloader Rail car to hopper 1 0 R unloader 10 R unlo		SR	SR2 to coal pile	9	open
SR Belt to C3 12 TP3 C3 to CAA/B 13 C building C4 A/B to surge bin 14 C building Surge bin to feeder C building Feeder to crusher C building C7 casher to C5 A/B 15 C7 building C7 casher to C5 A/B 15 C7 building C7 casher to C5 A/B 15 C7 building C7 building below to C7 C8 18 C9 Plant C8 to Silo 19 C9 Rail to Units 4 & 5 R unloader Rail car to hopper 1 R unloader V feeder to C10 2 R unloader V feeder to C10 2 R unloader C10 to C11 3 TP23 C11 to C13 4 TP24 C13 to C30A 5 TP25-1 C30A TO C31B 6 TP26-1 C31B TO C33A 7 TP27-1 C33A TO C35A/B 8 C building C35A/B to surge bin cofeeder C building Surge bin to cfeeder C building Feeder to crusher C building Feeder to crusher C building C7 casher to C36A/B 10 C7 casher to C36A/B 10 C7 building C7 casher to		SR	Bucket wheel to SR2	10	open
TP3		SR	Belt to belt	11	
C building		SR	Belt to C3	12	
C building		TP3	C3 to C4A/B		
C building Feeder to crusher C building Feeder to crusher C building Crusher to C5 A/B 15 crusher Plant C5A/B to surge hopper 16 Plant Surge hopper to C7 17 Plant C7 to C8 18 Plant C8 to Silo 19 G Rail to Units 4 & 5 R unloader Rail car to hopper 1 open R unloader V feeder to C10 2 R unloader C10 to C11 3 TP23 C11 to C13 4 TP25-1 C30A TO C31B 6 C building Crusher to C36A/B 19 C building Surge bin to c feeder C building Feeder to C10 crusher C building Crusher to C36A/B 10 crusher C building Crusher to C36A/B 10 crusher C building Crusher to C36A/B 10 crusher R unloader Rail car to hopper 1 crusher C building Crusher to C36A/B 10 crusher R unloader Rail car to hopper 1 crusher C building Crusher to C36A/B 10 crusher C building Crusher to C36A/B 10 crusher R unloader Rail car to hopper 1 crusher R unloader C504 to Silo 13 H Rail to ground (SR) to Units 4 & 5 R unloader Rail car to hopper 1 crusher R unloader V feeder to C10 2 R unloader C10 to C11 3 TP23 C11 to C13 4 TP24 C13 to C30A 5 TP25-1 C30A TO C31B 6 TP26-1 C31B TO C33A 7 TP27-1 C30A TO C31B 6 TP26-1 C31B TO C33A 7 TP27-1 C30A TO C31B 6 TP26-1 C31B TO C33A 7 TP27-1 C30A TO C31B 6 TP26-1 C31B TO C33A 7 TP27-1 C33A TO C34 8 SR C34 TO Hopper 9 SR Hopper to belt 10		C building		14	
C building				• • •	
C building					
Plant				15	crusher
Plant					Glasilei
Plant					
Plant C8 to Silo 19 G Rail to Units 4 & 5					
Rail to Units 4 & 5					
Rail to Units 4 & 5	•	Plant	C8 t0 5110	19	
R unloader Rail car to hopper 1 open R unloader V feeder to C10 2 R unloader C10 to C11 3 TP23 C11 to C13 4 TP24 C13 to C30A 5 TP25-1 C30A TO C35A/B 8 C building C35A/B to surge bin c feeder C building Feeder to crusher C building C36A/B to C502 11 Plant C504 to silo 13 Plant C504 to silo 13 Plant C504 to S10 TP28 C11 to C11 3 TP29 C11 to C11 3 TP29 C11 to C11 3 TP29 C11 to C11 TP29 C11 to C30A TO C31B TP26-1 C30A TO C31B TP26-1 C31B TO C33A TO C34 SR C34 TO Hopper SR Hopper to belt 10 SR Belt to belt 11	_				
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SR Belt to coal pile 12 open			•		-
SR Bucket wheel to belt 13 open					open
SR Belt to belt 14					
SR Belt to C34 15					
TP27-1 C34 TO C35A/B 16		TP27-1	C34 TO C35A/B		
C building C35A/B to surge bin 17		C building	C35A/B to surge bin	17	
C building Surge bin to c feeder			Surge bin to c feeder		
C building Feeder to crusher		C building	Feeder to crusher		

Table 1. Coal Yard Drop Operations

Segment	ID	Description	Drop
	C building	Crusher to C36A/B	18 crusher
	Plant	C36A/B to C502	19
	Plant	C502 to C504	20
	Plant	C504 to silo	21

Table 2. Coal Yard Emissions - Past Actual and Future Potential

				 .	Past Actual						New Configuration - plant at full load all year								
Segment		Annual	Daily*	Annual Coal Throughput (TPY)	Daily Coal Throughput (TPD)	Annual Emissions TSP (TPY)	Annual Emissions PM10 (TPY)	Daily Emissions TSP (LB/Day)	Daily Emissions PM10 (LB/Day)	Annual Coal Throughput (TPY)	Daily Coal Throughput (TPD)	Annual Emissions TSP (TPY)	Annual Emissions PM10 (TPY)	Daily Emissions TSP (LB/Day)	Daily Emissions PM10 (LB/Day)	AP-42 Equations			
Α	Barge to Units 1 & 2					•				• • • • • • • • • • • • • • • • • • • •	`	,		,,,	(//				
	Drops inclosed	9	9	43,389	0	0.017	800.0	0.000	0.000	7,797	0	0.003	0.001	0.000	0.000	13.2.4 1/95			
	Drops open Crusher	1	1	43,389 43,389	0 0	0.019 0.022	0.009 0.011	0.000 0.000	0.000 0.000	7,797 7,797	0	0.003 0.004	0.002 0.002	0.000 0.000	0.000 0.000	13.2.4 1/95			
В	Barge to ground to Un	its 18 2																	
_	Drops inclosed	14	6	824.391	0	0.493	0.233	0.000	0.000	148,149	0	0.089	0.042	0.000	0.000	13,2,4 1/95			
	Drops open	3	2	824,391	ō	1.057	0.500	0.000	0.000	148,149	ŏ	0.190	0.090	0.000	0.000	13.2.4 1/95			
	Crusher			824,391	0	0.412	0.206	0.000	0.000	148,149	0	0.074	0.037	0.000	0.000				
С	Barge to Units 4 & 5																		
	Drops inclosed	12	12	1,093,338	13,000	0.561	0.265	19.957	9.439	2,193,260	13,000	1,125	0.532	19.957	9.439	13.2.4 1/95			
	Drops open	1	1	1,093,338	13,000	0.467	0.221	16.630	7.866	2,193,260	13,000	0.937	0.443	16.630	7.866	13.2.4 1/95			
	Crusher			1,093,338	13,000	0.547	0.273	13.000	6.500	2,193,260	13,000	1.097	0.548	13.000	6.500				
D	Barge to ground to Un																		
	Drops inclosed	18	11	538,510	3,000	0.414	0.196	4.222	1.997	1,462,173	19,000	1.125	0.532	26.737	12.646	13.2.4 1/95			
	Drops open Crusher	3	2	538,510 538,510	3,000 0	0.690 0.269	0.327 0.135	7,676 0.000	3.630 0.000	1,462,173 1,462,173	19,000 0	1.875 0.731	0.887 0.366	48.612 0.000	22.992 0.000	13.2.4 1/95			
E	Rail to Units 1 & 2																		
	Drops inclosed	10	10	65,084	8,400	0.028	0.013	10.746	5.082	148,149	8,400	0.063	0.030	10.746	5.082	13.2.4 1/95			
	Drops open	1	1	65,084	8,400	0.028	0.013	10.746	5.082	148,149	8,400	0.063	0.030	10.746	5.082	13.2.4 1/95			
	Crusher			65,084	8,400	0.033	0.016	8.400	4.200	148,149	8,400	0.074	0.037	8.400	4.200				
F	Rail to ground to Units	18.2																	
	Drops inclosed	15	7	1,236,587	15,850	0.793	0.375	14.193	6.713	2,814,830	15,850	1.805	0.853	14.193	6.713	13.2.4 1/95			
	Drops open	3	2	1,236,587	15,850	1.586	0.750	40.553	19.180	2,814,830	15,850	3.609	1.707	40.553	19.180	13.2.4 1/95			
	Crusher			1,236,587	15,850	0.618	0.309	15.850	7.925	2,814,830	0	1.407	0.704	0.000	0.000				
G	Rail to Units 4 & 5																		
	Drops inclosed	11	11	1,640,007	0	0.771	0.365	0.000	0.000	852,934	0	0.401	0.190	0.000	0.000	13.2.4 1/95			
	Drops open	1	1	1,640,007	O	0.701	0.332	0.000	0.000	852,934	0	0.365	0.172	0.000	0.000	13 2.4 1/95			
	Crusher			1,640,007	0	0.820	0.410	0.000	0.000	852,934	0	0.426	0.213	0.000	0.000				
н	Rail to ground to Units																		
	Drops inclosed	17	10	807,765	0	0.587	0.278	0.000	0.000	568,623	0	0.413	0.195	0.000	0.000	13.2.4 1/95			
	Drops open Crusher	3	2	807,765 807,765	0 0	1.03 6 0.404	0.490 0.202	0.000 0.000	0.000 0.000	568,623 568,623	0 0	0.729 0.284	0.345 0.142	0.000 0.000	0.000 0.000	13.2.4 1/95			
ı	Pyrites																		
	Drops inclosed	10	10	2,600	65	0.001	0.001	0.083	0.039	2,600	120	0.001	0.001	0.154	0.073	13,2,4 1/95			
	Drops open	1	1	2,600	65	0.001	0.001	0.083	0.039	2,600	120	0.001	0.001	0.154	0.073	13.2.4 1/95			
	Crusher			2,600	65	0.001	0.001	0.065	0.033	2,600	120	0.001	0.001	0.120	0.060	=			
	Total					12.375	5.937	162.203	77. 72 6			16.896	8.102	210.001	99.906				

Note: AP-42 13.2.4: lb/ton = k(0.0035) x {[(U/5)^1.3] / [(M/2)^1.4]} where: k = 0.35 for PM10 and 0.74 for TSP, M = 7% Moisture, U = 8.8 MPH for Annual Average and 12 MPH for Daily Average * The daily value is less because the coal is conveyed to ground.

Table 3. Unpaved Road Emissions

		Past Actual Emissions							Future Potential Emissions								_	
Original	Original	Vehicle Miles Traveled	Vehicle Miles Traveled	Hours Per Year	Hours Per Day	Anr		Da	ilv	Vehicle Miles Traveled	Vehicle Miles Traveled	Hours Per Year	Hours Per Day	Ann	aral	Da	ilv	_
Source	Description	Annual	Daily	Annual	Daily	TSP	PM10	TSP	PM10	Annual	Daily	Annual	Daily	TSP	PM10	TSP	PM10	AP-42
		VMT/YR	VMT/DAY	HR/YR	HR/DAY	TPY	TPY	LB/D	LB/D	VMT/YR	VMT/DAY	HR/YR	HR/DAY	TPY	TPY	LB/D	LB/D	
MR-4	FEL Traffic	5,475	15			2.762	0.710	15.132	3.888	21,900	60			11.047	2.838	60.529	15.553	13.2.2 12/03
		5,475	15			1.684	0.433	9.230	2.372	21,900	60			6.738	1.731	36.920	9.487	13.2.2 12/03
CP-3	Front end loader	5,475	15			2.762	0.710	15.132	3.888					0.000	0.000	0.000	0.000	13.2.2 12/03
		5,475	15			1.684	0.433	9.230	2.372					0.000	0.000	0.000	0.000	13.2.2 12/03
CP-4	Scraper	4,200	200			0.515	0.232	49.053	22.064	7,300	20			0.897	0.753	4.914	4.125	
CP-5	Bulldozer			724	2	3.120	0.741	17.239	4.092			730	2	3.146	0.747	17.239	4.092	11.9 10/98
	Water Truck	2,738	8			1.648	0.424	9.030	2.320	7,300	20			4.395	1.129	24.080	6.187	13.2.2 12/03
	Total					14.176	3.681	124.046	40.997					26.222	7.199	143.683	39.444	

Table 4

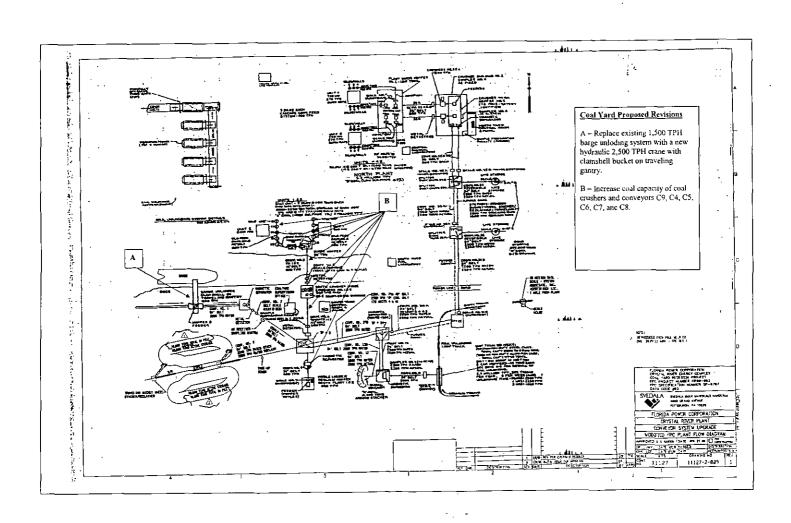
Typical Bituminous Coal Fuel Analysis

<u>Parameter</u>	<u>Value</u> <u>1&2</u>	<u>Value</u> <u>4&5</u>
Moisture content (%)	7.5	7.1
Ash Content (%)	8.9	8.3
Sulfur content (%)	1.2	0.7 (maximum)
Heat content (Btu/lb)	11,300 to 13,200	11,300 to 13,200

Note: The values listed are general or typical values based on information obtained from the fuel suppliers.

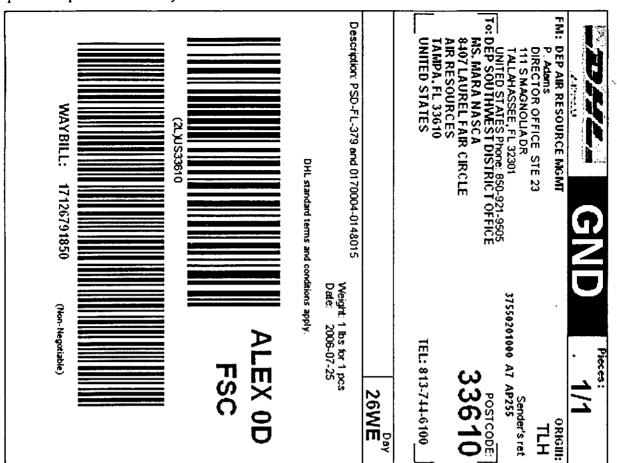
FIGURES

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