BEST AVAILABLE COPY



LETTER OF TRANSMITTAL

To: Russell Wider, PE Division of Air Resource Manager		e: 4/23/08			
Florida Department of Environmental Protection	* · · · · · · · · · · · · · · · · · · ·				
2600 Blair Stone Road MS 5500 Tallahassee, Florida 32399-2400	RE	RECLAD			
Deborah Getzoff		APR 24 2008			
Southwest District 13051 N. Telecom Parkway Temple Terrace, Fl. 33637	CUREAL	JOF AIR RECUILATION			
Dear Sir, the following are: X atta	sched sent separately				
3 Copies	Reproducibles				
Drawings	Specifications				
Documents	Permit Application				
Status	Se	ent for Your			
Final	Approved	Use			
Preliminary	Not Approved	Files			
	Approved as Noted [
Attached are the following:					
Document No.	<u>Title</u>	<u>Issue</u>			
DEP Form	Title V Operation Permit	Polk Power Station			

Revision Application

If you have any questions contact me at 813.228.4433.

Sincerely,

Joshua D Ellwein, P.E.

Principal Engineer, Air Programs

No. 62-210.900(1)

Cc: Byron Burrows Julie Ward A.P. 6.16 1050233-022-AU

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FORM 7.

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Units 4 and 5

POLK POWER STATION UNITS 4 AND 5

TITLE V OPERATION PERMIT REVISION APPLICATION

RECEIVED

APR 24 2008

BUREAU OF AIR REGULATION

Prepared for:



Tampa, Florida

Prepared by:



Environmental Consulting & Technology, Inc. 3701 Northwest 98th Street Gainesville, Florida 32606

ECT No. 080378-0100

April 2008

INTRODUCTION

The Tampa Electric Company (TEC) Polk Power Station is an existing electric generation facility located near Mulberry, Polk County Florida. The Polk Power Station coal gasification facility consists of solid fuel handling facilities, a solid fuel gasification system; one nominal 260-megawatt (MW), combined-cycle combustion turbine (designated as Unit 1) fired with syngas or distillate fuel oil; an auxiliary boiler; a sulfuric acid plant; slag handling systems; two nominal 165-MW, simple-cycle combustion turbines (designated as Units 2 and 3); and ancillary equipment. Operation of the existing Polk Power Station coal gasification facility emission sources is currently authorized by Title V Final Permit Renewal No. 1050233-016-AV was issued with an effective date of January 1, 2005, and expires on December 31, 2009.

TEC recently constructed and placed in operation two General Electric Model PG7241 FA dual-fuel, simple-cycle combustion turbine generators (CTGs) at the Polk Power Station. The simple-cycle CTGs are designated as Units 4 and 5. The simple-cycle CTGs each have a nominal power output of 165 MW and are fired exclusively with pipeline-quality natural gas. Each simple-cycle CTG operates for no more than 4,380 hours per year.

An air construction permit was required prior to the commencement of construction of Units 4 and 5, per Rule 62-212.300(1)(a), Florida Administrative Code (F.A.C.). TEC submitted an air construction permit application to the Florida Department of Environmental Protection (FDEP) in October 2005. In response, FDEP issued Final Permit No. PSD-FL-363 on April 28, 2006, authorizing construction and initial operation of the two simple-cycle CTGs. Final Permit No. PSD-FL-363 expires on October 1, 2008.

Units 4 and 5 commenced operation on February 23 and March 31, 2007, respectively. Initial compliance testing, as required by Final Permit No. PSD-FL-363, Section III, Specific Condition No. 13 (testing for nitrogen oxides [NO_x], carbon monoxide [CO], and visible emissions [VE]), was conducted on March 5 (for Unit 4) and April 17, 2007 (for Unit 5). The initial emissions performance testing demonstrated that Units 4 and 5 were

operating in compliance with all applicable permit emission limits. Reports of the initial performance testing was submitted to the FDEP's Southwest District Office on April 19 (for Unit 4) and June 1, 2007 (for Unit 5).

Final Permit No. PSD-FL-363, Section II, Condition No. 10 requires the submittal of a Title V operating permit to FDEP's Bureau of Air Regulation, with a copy to the FDEP's Southwest District, in accordance with Chapter 62-213, F.A.C. This permit application, using FDEP Form No. 62-210.900(1) effective March 16, 2008, Application for Air Permit – Long Form, constitutes TEC's application to revise Title V Final Permit Renewal No. 1050233-016-AV to include the two simple-cycle CTGs pursuant to the requirements of Final Permit No. PSD-FL-363 and Chapter 62-213, F.A.C.

Following this introduction, FDEP's Application for Air Permit – Long Form is provided in Appendix A. Appendix B contains the current FDEP air construction permit for Units 4 and 5.

APPENDIX A APPLICATION FOR AIR PERMIT LONG FORM





Department of Environmental Protect APR 24 2008

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORMAU OF AIR REGULATION

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- 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, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1.00	entification of facility			
1.	Facility Owner/Company Name: Tampa Electric Company			
2.	Site Name: Polk Power Station	·		
3.	Facility Identification Number: 1050233			
4.	Facility Location			
	Street Address or Other Locator: 9995 St	tate Road 37 South		
	City: Mulberry County	y: Polk	Zip Code: 33860-0775	
5.	Relocatable Facility?	6. Existing Titl	le V Permitted Facility?	
	Yes No	⊠ Yes	☐ No	
Ap	oplication Contact			
1.	Application Contact Name: Joshua D. I	Ellwein, P.E., Princi	pal Engineer, Air Programs	
2	Application Contact Mailing Address			

2. Application Contact Mailing Address...

Organization/Firm: Tampa Electric Company

Street Address: P.O. Box 111

City: Tampa

State: Florida

Zip Code: 33601-0111

3. Application Contact Telephone Numbers...

Telephone:

(813) 228 - 4433

ext.

Fax: (813) 228 - 1308

Application Contact Email Address: jdellwein@tecoenergy.com

Application Processing Information (DEP Use)

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

Purpose of Application

This application for air permit is being 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.			
Title V air operation permit renewal.			
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)			
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:			
☐ 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

Tampa Electric Company (TEC) recently constructed and placed in operation two simple-cycle combustion turbine generators (CTGs) at its Polk Power Station (PPS). The PPS simple-cycle CTGs consist of two, nominal 165-megawatt (MW) units designated as Units 4 and 5. The CTGs are fired exclusively with pipeline quality natural gas and operate up to 4,380 hours per year.

Construction and initial operation of Units 4 and 5 was authorized by Department Permit No. PSD-FL-363 issued on April 28, 2006 and expiring on October 1, 2008.

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
011	Nominal 165 MW simple cycle gas turbine Unit 4	N/A	N/A
012	Nominal 165 MW simple cycle gas turbine Unit 5	N/A	N/A
			_
	Form of the		
-			

Application Processing Fee	
Check one: Attached - Amount: \$	Not Applicable

Note: Polk Power Station has been issued FINAL Title V Permit 1050233-016-AV. An application processing fee is not required pursuant to Rule 62-213.205(4), F.A.C.

Owner/Authorized Representative Statement

NOT APPLICABLE

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

1.	Owner/Authorized Representative Name:				
2.	Owner/Authorized Representative Mailing Address Organization/Firm:				
	Street Address:			•	
	City:		State:	Zip Code:	
3.	Owner/Authorized Rep	resentative To	elephone Number	s	
	Telephone:	ext.	Fax:		
4.	Owner/Authorized Rep	resentative E	mail Address:		
5.	Owner/Authorized Representative Statement:				
	I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.				
	Signature			Date	

Application Responsible Official Certification

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

1.	Application Responsible Official Name: Byron T. Burrows, Manager, Air Programs				
2.	Application Responsible Official Qualification (Check one or more of the following				
	options, as applicable):				
	x 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.				
	The designated representative at an Acid Rain source, CAIR source, or Hg Budget source.				
3.	Application Responsible Official Mailing Address				
	Organization/Firm: Tampa Electric Company				
	Street Address: P.O. Box 111				
	City: Tampa State: FL Zip Code: 33601-0111				
4.	Application Responsible Official Telephone Numbers				
	Telephone: (813) 228-1282 ext. Fax: (813) 228-1308				
5.	Application Responsible Official E-mail Address: btburrows@tecoenergy.com				
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.				
`	The The				
I	4/25/00				

DEP Form No. 62-210.900(1) – Form

Effective: 3/16/08 5

Professional Engineer Certification

1.	Professional Engineer Name: Thomas W. Davis		
	Registration Number: 36777		
2.	Professional Engineer Mailing Address		
	Organization/Firm: Environmental Consulting & Technology, Inc.		
	Street Address: 3701 Northwest 98th Street		
	City: Gainesville State: Florida Zip Code: 32606-5004		
3.	Professional Engineer Telephone Numbers		
	Telephone: (352) 332 – 0444 ext. Fax: (352) 332 - 6722		
	Professional Engineer Email Address: tdavis@ectinc.com		
5.	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.			
	(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, 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, 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.		
100	(5) If the purpose of this application is to obtain an initial air operation permit or operation perm revision or renewal for one or more newly constructed or modified emissions units (check here if so). If further certify that, with the exception of any changes detailed as part of this application, can be a part of this application, if 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.		
NO MINO	Signature Date		
3000 30. 47.0	(seal) (seal) (sex ention to certification statement.		
0000	strach any exception to certification statement.		
	~00000000.		
DE	EP Form No. 62-210.900(1) — Form y:\gdp-08\tec\pps\titlv-rev-appa,doc_		
	fective: 3/16/08 6		

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates		2. Facility Latitude/Longitude			
	Zone 17 East	(km) 402.45		Latitude (DD/MM/	SS) 27/43/43
	Nort	th (km) 3,067.35		Longitude (DD/MN	M/SS) 81/59/23
3.	Governmental Facility Code:	4. Facility Status Code:	5.	Facility Major Group SIC Code:	6. Facility SIC(s):
	0	A		49	4911
7.	Facility Comment:		•		

Facility Contact

1. Facility Contact Name:

Mike Perkins, Environmental Coordinator

2. Facility Contact Mailing Address...

Organization/Firm: Tampa Electric Company

Street Address: P.O. Box 111

City: **Tampa** S

State: **FL** Zip Code: **33601-0111**

3. Facility Contact Telephone Numbers:

Telephone: (813) 228-1111

ext. 39109 Fax: (863) 428-5927

4. Facility Contact E-mail Address: mrperkins@tecoenergy.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 Official Name:

Mark J. Hornick

2. Facility Primary Responsible Official Mailing Address...

Organization/Firm: Tampa Electric Company

Street Address: P.O. Box 111

City: Tampa State: FL Zip Code: 33601-0111

3. Facility Primary Responsible Official Telephone Numbers...

Telephone: (813) 228-1111 ext.39988 Fax: (863) 428-5927

4. Facility Primary Responsible Official E-mail Address: mjhornick@tecoenergy.com

7

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

Effective: 3/16/08

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. X Title V Source			
4. Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)			
5. Synthetic Minor Source of Air Pollutants, Other than HAPs			
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 60)			
9. One or More Emissions Units Subject to Emission Guidelines (40 CFR 60)			
10. One or More Emissions Units Subject to NESHAP (40 CFR 61 or Part 63)			
11. Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))			
12. Facility Regulatory Classifications Comment:			
NSPS for Stationary Gas Turbines, 40 CFR Part 60 Subpart GG, applies to all of the PPS Combustion Turbines (EUs 001, 009, 010, 011, and 012). NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60 Subpart Db, applies to the Auxiliary Boiler (EU 003).			
NSPS for Coal Preparation Plants, 40 CFR Part 60 Subpart Y, applies to the Solid Fuel Handling System (EU 005).			

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NO _x	A	· N
SO ₂	A	N
PM	A	N
PM ₁₀	A	· N
СО	A	N
voc	A	N
SAM	A	N
PB	В	N
Arsenic Compounds (H015)	В	N
Beryllium Compounds (H021)	В	N
Mercury Compounds (H114)	В	N
	-	

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

	or much Cine Er	mosions emps			
1. Pollutant Subject to Emissions Cap	2. Facility- Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
CO	N	011 and 012	N/A	99.0	ESCPSD
					·
				-	
					· .

7	Facility	v-Wide	or Mi	ulti-Unit	Emissions	Can	Comment
/ .	1 acmit	y - ** 1UC	OT TAT	นเน-บนเ	THISSICHS	Cap	Committee

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: October 2005				
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: October 2005				
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: October 2005				
Attached, Document ID.				
Additional Requirements for Air Construction Permit Applications NOT APPLICABLE				
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:				
3. Rule Applicability Analysis:				
Attached, Document ID:				
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.):				
Attached, Document ID: Not Applicable				
5. Fugitive Emissions Identification:				
Attached, Document ID: Not Applicable				
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.):				
Attached, Document ID: Not Applicable				

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications NOT APPLICABLE 1. List of Exempt Emissions Units: Attached, Document ID: Not Applicable (no exempt units at facility) Additional Requirements for Title V Air Operation Permit Applications 1. List of Insignificant Activities: (Required for initial/renewal applications only) Not Applicable (revision application) Attached, Document ID: 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: Not Applicable 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 Onsite 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: Not Applicable Attached, Document ID:

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1 Apid Dain Dayman Famor
1. Acid Rain Program Forms:
Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):
Attached, Document ID: Previously Submitted, Date: 10/17/05
☐ Not Applicable (not an Acid Rain source)
Phase II NO _X Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):
Attached, Document ID: Previously Submitted, Date:
Not Applicable ■ Not Applicable Not Applicable
New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):
Attached, Document ID: Previously Submitted, Date:
Not Applicable
2. CAIR Part (DEP Form No. 62-210.900(1)(b)):
Attached, Document ID: Attachment A Previously Submitted, Date:
☐ Not Applicable (not a CAIR source)
3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)):
Attached, Document ID: Previously Submitted, Date:
Not Applicable (not a Hg Budget unit) Units 4 and 5
Additional Requirements Comment
CAIR Part provided for Units 4 and 5.
·

Section [1] of

[2]

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.					
	missions unit. ☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.					
Er	nissions Unit Descr	iption and Status				
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)			
	process or prod	S Unit Information Section Unit Information Section unit, or activity, ast one definable emissi	which produces one or i	-		
	of process or pr	s Unit Information Section roduction units and active vent) but may also prod	vities which has at least	e emissions unit, a group one definable emission		
		S Unit Information Sections or production units and a		e emissions unit, one or fugitive emissions only.		
2.	2. Description of Emissions Unit Addressed in this Section: Emission unit consists of one General Electric (GE) 7241 FA simple-cycle combustion turbine generator (CTG) having a nominal rating of 165 megawatts (MW). The CTG is fired exclusively with pipeline quality natural gas.					
	combustion turbi	ne generator (CTG) h	aving a nominal rating	g of 165 megawatts		
3.	combustion turbit (MW). The CTG	ne generator (CTG) h	aving a nominal rating h pipeline quality natu	g of 165 megawatts		
3. 4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit	ne generator (CTG) h is fired exclusively wit entification Number: 01 5. Commence	aving a nominal rating h pipeline quality natulated (Unit 4) 6. Initial Startup	g of 165 megawatts ural gas. 7. Emissions Unit		
	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code:	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction	aving a nominal rating the pipeline quality natural (Unit 4) 6. Initial Startup Date:	7. Emissions Unit Major Group		
	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit	ne generator (CTG) h is fired exclusively wit entification Number: 01 5. Commence	aving a nominal rating h pipeline quality natulated (Unit 4) 6. Initial Startup	g of 165 megawatts ural gas. 7. Emissions Unit		
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction	aving a nominal rating the pipeline quality natural (Unit 4) 6. Initial Startup Date: 02/23/07	7. Emissions Unit Major Group		
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06	aving a nominal rating the pipeline quality natural (Unit 4) 6. Initial Startup Date: 02/23/07	7. Emissions Unit Major Group		
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A Federal Program A	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06	aving a nominal rating the pipeline quality natural (Unit 4) 6. Initial Startup Date: 02/23/07	7. Emissions Unit Major Group		
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A Federal Program A Acid Rain Unit	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all	aving a nominal rating the pipeline quality natural (Unit 4) 6. Initial Startup Date: 02/23/07	7. Emissions Unit Major Group		
8.	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit:	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all	aving a nominal rating the pipeline quality natural (Unit 4) 6. Initial Startup Date: 02/23/07 that apply)	7. Emissions Unit Major Group SIC Code: 49		
4.8.9.	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit: Manufacturer: Ger	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all it	aving a nominal rating the pipeline quality nature 1 (Unit 4) 6. Initial Startup Date: 02/23/07 that apply) Model Number:	7. Emissions Unit Major Group SIC Code: 49		
4.8.9.10	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit: Manufacturer: Gen Generator Namep	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all it neral Electric late Rating: 175.8 MV	aving a nominal rating the pipeline quality nature 1 (Unit 4) 6. Initial Startup Date: 02/23/07 that apply) Model Number:	7. Emissions Unit Major Group SIC Code: 49		
4.8.9.10	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit: Manufacturer: Ger	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all it neral Electric late Rating: 175.8 MV	aving a nominal rating the pipeline quality nature 1 (Unit 4) 6. Initial Startup Date: 02/23/07 that apply) Model Number:	7. Emissions Unit Major Group SIC Code: 49		

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Emissions Unit Control Equipment/Method: Control 1 of 1				
1. Control Equipment/Method Description:				
Dry low-NOx (DLN) Combustors – NOx Pollution Prevention				
2. Control Device or Method Code: 025				
Emissions Unit Control Equipment/Method: Control of				
1. Control Equipment/Method Description:				
2. Control Device or Method Code:				
Emissions Unit Control Equipment/Method: Control of				
1. Control Equipment/Method Description:				
2. Control Device or Method Code:				
Emissions Unit Control Equipment/Method: Control of				
1. Control Equipment/Method Description:				
2 Control Device or Method Code:				

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of

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

[2]

1. Maximum Process or Throughput Rate: N/A					
2. Maximum Production Rate: N/A					
3. Maximum Heat Input Rate: 1,834 (HHV) million Btu/hr	3. Maximum Heat Input Rate: 1,834 (HHV) million Btu/hr				
Maximum Incineration Rate: pounds/hr N/A					
tons/day					
5. Requested Maximum Operating Schedule:					
hours/day	days/week				
weeks/year	4,380 hours/year				
6 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					

6. Operating Capacity/Schedule Comment:

higher

Maximum heat rate is lower heating value (HHV) at 100 percent load and 59 °F compressor inlet temperature. Heat input will vary with load and compressor inlet temperature.

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 $Y: \label{thm:condition} Y: \label{thm:condition} Y: \label{thm:condition} \mbox{GDP-}08 \mbox{\ensuremath{\mathsf{TEC\mbox{\sc int}}}} PS\mbox{\ensuremath{\mathsf{TITLV-REV-APPA.DOC--041608}} \\ \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{EC\mbox{\sc int}}}} \mbox{\ensuremath{\mathsf{$ 16

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

Emission Point Description and Type

1.	Identification of Point on Plot Plan or		2. Emission Point Type Code:		
	Flow Diagram: CT04			1	
3.	Descriptions of Emission	Points Comprising	this Emissions Unit	for VE Tracking:	
	N/A				
	•				
4.	ID Numbers or Descriptio	ns of Emission Ur	nits with this Emission	Point in Common:	
	N 7/4				
	N/A				
5.	Discharge Type Code:	6. Stack Height		7. Exit Diameter:	
	V	_	4 feet	18 feet	
8.	Exit Temperature:	9. Actual Volur	netric Flow Rate:	10. Water Vapor:	
	1,117 °F	2,393,	,587 acfm	N/A %	
11.	Maximum Dry Standard F	low Rate:	12. Nonstack Emissi	on Point Height:	
	N/A dscfm		N	/A feet	
13.	Emission Point UTM Coo	rdinates		Latitude/Longitude	
	Zone: East (km):		Latitude (DD/M)	· ·	
	North (km)		Longitude (DD/I	MM/SS):	
15.	Emission Point Comment:				
	Stack temperature and f	low roto oro at 16	M noreant load and b	50°E compressor inlet	
	temperature. Stack temp		_	_	
	inlet temperature.	crature and nov	race will vary with	oad and compressor	

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

Pipeline quality natural gas burned in Unit 4.

1. Segment Description (Process/Fuel Type):

2. Source Classification Coc 2-01-002-02	le (SCC):	3. SCC Units Mill	: ion cubic feet burned		
4. Maximum Hourly Rate: 1.913	5. Maximum 8,3	Annual Rate: 78.9	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit: 923 (LHV)		
10. Segment Comment: Fuel heat content (field 9)	9) represents lov	ver heating valu	ie (LHV).		
Segment Description and R					
1. Segment Description (Process/Fuel Type):					
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:					

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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	4. Pollutant Regulatory Code
NOx	025		EL
СО			EL
PM/PM ₁₀			NS
SO ₂			NS
VOC	·		NS
	-	·	_
	_		
-			

POLLUTANT DETAIL INFORMATION
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOx	2. Total Percent Efficiency of Control: 94			
		4. Synth	netically Limited? Yes No	
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N	I/ A		
6. Emission Factor: N/A Reference:			7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year N/A	8.b. Baseline From:		Period: N/A	
9.a. Projected Actual Emissions (if required): tons/year N/A	9.b. Projected 5 years		ng Period: ears N/A	
10. Calculation of Emissions: Potential hourly emission rate is the allowable emission rate specified in Specific Condition 9. of Final Air Permit PSD-FL-363. Potential annual emission rate based on 4,380 hr/yr.				
11. Potential, Fugitive, and Actual Emissions Comment:				

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A		
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		Emissions:
	9.0 ppmvd @ 15% O ₂		60.9 lb/hour	133.4 tons/year
5.	Method of Compliance:			
	CEMS per Part 75			
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	Rule 62-212.400(10)(b), F.A.C. (BACT).			
	Also subject to less stringent emission standards of NSPS Subpart GG.			

Allowable Emissions 2 of 2

111	Allowable Lillissions 2	OI		
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions: N/A	f Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable E	Emissions:
	N/A		60.9 lb/hour	133.4 tons/year
5.	Method of Compliance:			
	EPA Reference Methods 7E/20 (initial only	y)		
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	Rule 62-212.400(10)(b), F.A.C. (BACT).			
	Also subject to less stringent emission stan	dar	ds of NSPS Subpart GO	G.

POLLUTANT DETAIL INFORMATION
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:	2. Total Perc	ent Efficie	ency of Control:
CO		N/	A
3. Potential Emissions:		4. Synth	netically Limited?
36.0 lb/hour 99.0	tons/year	⊠ Y	es No
5. Range of Estimated Fugitive Emissions (as	s applicable): N	N/A	
To tons/year			
6. Emission Factor: N/A			7. Emissions
Reference:			Method Code:
			0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period: N/A
Tons/year N/A	From:	7	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
Tons/year N/A	5 years	☐ 10 ye	ears N/A
10. Calculation of Emissions:			
Potential hourly emission rate is the allow Condition 9. of Final Air Permit PSD-FL. Potential annual emission rate is the annu Specific Condition 9. of Final Air Permit	-363. nal cap for <u>bot</u> PSD-FL-363.		•
11. Potential, Fugitive, and Actual Emissions C	omment:		

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date Emissions: N/A	of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable	Emissions:
	9.0 ppmvd @ 15% O ₂		36.0 lb/hour	N/A tons/year
5.	Method of Compliance:			
	EPA Reference Method 10 (initial only)			
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	•			

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date Emissions: N/A	of Allowable
3.	Allowable Emissions and Units: N/A	4.	Equivalent Allowable N/A lb/hour	Emissions: 99.0 tons/year
5.	Method of Compliance: CEMS (12-month rolling average)			
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	Equivalent allowable limit is annual cap for	or <u>b</u>	oth Units 4 and 5.	

POLLUTANT DETAIL INFORMATION
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM ₁₀	2. Total Perc	ent Efficie N/A	ency of Control:
3. Potential Emissions:	tons/year		netically Limited? Yes No
5. Range of Estimated Fugitive Emissions (as To tons/year	applicable): N	V/A	ı
6. Emission Factor: 18.0 lb/hr Reference: GE Data			7. Emissions Method Code: 5
8.a. Baseline Actual Emissions (if required):	8.b. Baseline		
Tons/year N/A	From:		o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
Tons/year N/A	5 years	☐ 10 ye	ears N/A
10. Calculation of Emissions:			
Potential annual emission rate based on 4 11. Potential, Fugitive, and Actual Emissions Co			
11. Potential, Fugitive, and Actual Emissions Co	omment:		

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

<u>Al</u>	lowable Emissions Allowable Emissions	of NOT APPLICABLE
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	on of Operating Method):
	Fuel specification of 2.0 gr S / 100 scf for combustion design and operation representation 9. of Final Air Permit PSD-F	sents BACT for PM/PM ₁₀ per Specific
	lowable Emissions Allowable Emissions	of
	Iowable Emissions Allowable Emissions Basis for Allowable Emissions Code:	of 2. Future Effective Date of Allowable Emissions:
1.		2. Future Effective Date of Allowable
3.	Basis for Allowable Emissions Code:	Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:	2. Total Perc	ent Efficie	ency of Control:
SO_2		N /2	A
3. Potential Emissions:			netically Limited?
10.2 lb/hour 22.3	tons/year	Y	es No
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N	I/A	
6. Emission Factor: 2.0 gr S / 100 scf natural Reference:	gas		7. Emissions Method Code: 2
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period: N/A
Tons/year N/A	From:	7	Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
Tons/year N/A	5 years	☐ 10 ye	ears N/A
10. Calculation of Emissions:			
Potential annual emission rate based on 4	,380 hr/yr.		
11 Potential Engitive and Actual Emissions C			
11. Potential, Fugitive, and Actual Emissions Co	omment;		

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Al	iowable Emissions Allowable Emissions	of NOT APPLICABLE
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	n of Operating Method):
	Fuel specification of 2.0 gr S / 100 scf for a Specific Condition 9. of Final Air Permit	
_	lowable Emissions Allowable Emissions	of .
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	n of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: VOC	2. Total Percent Effic	ciency of Control:
3. Potential Emissions:	4. <u>Sy</u> n	thetically Limited? Yes \(\sum \) No
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N/A	
6. Emission Factor: 3.1 lb/hr Reference: GE Data		7. Emissions Method Code: 5
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline 24-mont From:	h Period: N/A To:
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected Monito 5 years 10	ring Period: . years N/A
10. Calculation of Emissions:		
Potential annual emission rate based on 4	,380 hr/yr.	
many constitution is		
	^,	
11. Potential, Fugitive, and Actual Emissions C	omment:	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions	of NOT APPLICABLE
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	of Operating Method):
	•
Allowable Emissions Allowable Emissions	of
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance:	
	<u> </u>
6. Allowable Emissions Comment (Description	of Operating Method):

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions	of NOT APPLICABLE
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	of Operating Method):

Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descripti	ion of Operating Method):
6. Allowable Emissions Comment (Descripti Equivalent allowable limit is annual cap	,
•	,
•	,
•	,

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

[2]

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE 10	Rule ☐ Other
3. Allowable Opacity:	
, · · · · · · · · · · · · · · · · · · ·	Exceptional Conditions: N/A %
Maximum Period of Excess Opacity Allo	wed: N/A min/hour
4. Method of Compliance:	-
EPA Reference Method 9	
5. Visible Emissions Comment:	
Rule 62-212.400(10)(b), F.A.C. (BACT)).
	·
Visible Emissions Limitation: Visible Emi	ssions Limitation of
Visible Emissions Limitation: Visible Emi 1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
1. Visible Emissions Subtype:	
Visible Emissions Subtype: Allowable Opacity:	2. Basis for Allowable Opacity: Rule
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: %	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: %	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo Method of Compliance:	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo Method of Compliance:	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo Method of Compliance:	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo Method of Compliance:	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %
Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allo Method of Compliance:	2. Basis for Allowable Opacity: Rule Other Exceptional Conditions: %

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1. Parameter Code: **EM**

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H. CONTINUOUS MONITOR INFORMATION

2. Pollutant(s): NO_x

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 3

3. CMS Requirement:	Rule Other
4. Monitor Information Manufacturer: Thermo Fisher Scientif	ic (TECO)
Model Number: 42I	Serial Number: 620517429
5. Installation Date: 03/05/07	6. Performance Specification Test Date: 03/05/07
7. Continuous Monitor Comment:	:
Required by 40 CFR Part 75 (Acid Rain	Program).
Continuous Monitoring System: Continuous 1. Parameter Code: CO ₂	Monitor 2 of 3 2. Pollutant(s): N/A
3. CMS Requirement:	⊠ Rule □ Other
4. Monitor Information Manufacturer: Seimens	
Model Number: Ultramat 6E	Serial Number: N1-U6-0317
5. Installation Date: 03/05/07	6. Performance Specification Test Date: 03/05/07
7. Continuous Monitor Comment:	
Required by 40 CFR Part 75 (Acid Rain	Program).

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H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 3 of 3

1.	Parameter Code: EM	2. Pollutant(s): CO		
3.	CMS Requirement:	⊠ Rule ☐ Other		
4.	Monitor Information Manufacturer: Thermo Fisher Scientification	c (TECO)		
	Model Number: 48I-AZPCB	Serial Number: 0606615560		
5.	Installation Date: 03/05/07	 Performance Specification Test Date: 03/05//07 		
7.	Continuous Monitor Comment:			
	Required by Permit No. PSD-FL-363, Spo	ecific Condition No. 22.		
	ntinuous Monitoring System: Continuous Parameter Code:	Monitor of 2. Pollutant(s):		
3.	CMS Requirement:	Rule Other		
4.	Manufacturer:			
	Model Number:	Serial Number:		
5.	Installation Date:	6. Performance Specification Test Date:		
7.	Continuous Monitor Comment:			

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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: Previously Submitted, Date: October 2005
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: October 2005
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: October 2005
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
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: 04/19/07 Test Date(s)/Pollutant(s) Tested: CO, NO _x , and Visible Emissions —03/05/07
	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

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications NOT APPLICABLE

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 Ana	lysis (Rules 62-212.400(4)(d) and 62-		
	212.500(4)(f), F.A.C.):			
	Attached, Document ID:	Not Applicable		
3.	Description of Stack Sampling Facilities: (Re	equired for proposed new stack sampling facilities		
	only)			
	Attached, Document ID:	Not Applicable		
Ad	dditional Requirements for Title V Air Oper	ation Permit Applications		
		•		
1.	Identification of Applicable Requirements:			
	Attached, Document ID: Previous	ly Submitted, Date: October 2005		
2.	Compliance Assurance Monitoring:			
	Attached, Document ID:	Not Applicable		
3.	Alternative Methods of Operation:			
	Attached, Document ID:			
4.	Alternative Modes of Operation (Emissions T			
	Attached, Document ID:	Not Applicable		
Ad	dditional Requirements Comment			

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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 unregulated em	unit addressed in this Entissions unit.	nissions Unit Informatio	on Section is an	
Er	nissions Unit Descr	iption and Status			
1.	Type of Emissions	Unit Addressed in this	Section: (Check one)		
	process or prod	Unit Information Section luction unit, or activity, ast one definable emission	which produces one or r	•	
	of process or pr	S Unit Information Section roduction units and active vent) but may also produced	vities which has at least	emissions unit, a group one definable emission	
	_	S Unit Information Sections of the Unit Information Units and a	•	emissions unit, one or fugitive emissions only.	
2.	2. Description of Emissions Unit Addressed in this Section: Emission unit consists of one General Electric (GE) 7241 FA simple-cycle combustion turbine generator (CTG) having a nominal rating of 165 megawatts (MW). The CTG is fired exclusively with pipeline quality natural gas.				
	combustion turbing	ne generator (CTG) h	aving a nominal rating	g of 165 megawatts	
3.	combustion turbit (MW). The CTG	ne generator (CTG) h	aving a nominal rating h pipeline quality natu	g of 165 megawatts	
3. 4.	combustion turbit (MW). The CTG Emissions Unit Ide Emissions Unit	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup	y of 165 megawatts aral gas. 7. Emissions Unit	
	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code:	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date:	7. Emissions Unit Major Group	
	combustion turbit (MW). The CTG Emissions Unit Ide Emissions Unit	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup	y of 165 megawatts aral gas. 7. Emissions Unit	
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07	7. Emissions Unit Major Group	
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07	7. Emissions Unit Major Group	
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A Federal Program A	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07	7. Emissions Unit Major Group	
4.	combustion turbing (MW). The CTG Emissions Unit Idea Emissions Unit Status Code: A Federal Program A Acid Rain Unit	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07	7. Emissions Unit Major Group	
8.	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit:	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07 that apply)	7. Emissions Unit Major Group SIC Code: 49	
8.	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit: Manufacturer: Gen	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all it	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07 that apply) Model Number:	7. Emissions Unit Major Group SIC Code: 49	
4.8.9.10	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit: Manufacturer: Gen Generator Namep	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all it eral Electric late Rating: 175.8 MV	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07 that apply) Model Number:	7. Emissions Unit Major Group SIC Code: 49	
4.8.9.10	combustion turbin (MW). The CTG Emissions Unit Ide Emissions Unit Status Code: A Federal Program A Acid Rain Unit CAIR Unit Hg Budget Unit Package Unit: Manufacturer: Gen	ne generator (CTG) h is fired exclusively wite entification Number: 01 5. Commence Construction Date: 05/18/06 applicability: (Check all it eral Electric late Rating: 175.8 MV	aving a nominal rating h pipeline quality natu 2 (Unit 5) 6. Initial Startup Date: 03/31/07 that apply) Model Number:	7. Emissions Unit Major Group SIC Code: 49	

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Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:
Dry low-NOx (DLN) Combustors – NOx Pollution Prevention
2. Control Device or Method Code: 025
Emissions Unit Control Equipment/Method: Control of
1. Control Equipment/Method Description:
2. Control Device or Method Code:
Emissions Unit Control Equipment/Method: Control of
1. Control Equipment/Method Description:
2. Control Device or Method Code:
Emissions Unit Control Equipment/Method: Control of
1. Control Equipment/Method Description:
2. Control Device or Method Code:

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: N/A	
2.	Maximum Production Rate: N/A	
3.	Maximum Heat Input Rate: 1,834 (HHV) million Btu/hr	
4.	Maximum Incineration Rate: pounds/hr N/A	
	tons/day	
5.	Requested Maximum Operating Schedule:	
	hours/day	days/week
	weeks/year	4,380 hours/year

6. Operating Capacity/Schedule Comment:

Maximum heat rate is lower heating value (HHV) at 100 percent load and 59°F compressor inlet temperature. Heat input will vary with load and compressor inlet temperature.

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	 Identification of Point on Plot Plan or Flow Diagram: CT05 		2. Emission Point	Гуре Code: 1	
3.	. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
	N/A				
4.	ID Numbers or Descriptio	ns of Emission Ui	nits with this Emission	n Point in Common:	
	N/A				
5.	Discharge Type Code: V	6. Stack Height	: 4 feet	7. Exit Diameter: 18 feet	
8.	Exit Temperature: 1,117°F		metric Flow Rate: ,587 acfm	10. Water Vapor: N/A %	
11.	Maximum Dry Standard F N/A dscfm	low Rate:	12. Nonstack Emissi	ion Point Height: I/A feet	
13.	Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M	Latitude/Longitude M/SS):	
	North (km)	:	Longitude (DD/I	MM/SS):	
15.	Emission Point Comment:				
	Stack temperature and flow rate are at 100 percent load and 59°F compressor inlet temperature. Stack temperature and flow rate will vary with load and compressor inlet temperature.				
		·			

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):

Pipeline quality natural	gas burned in U	J nit 5.			
2. Source Classification Coc 2-01-002-02		3. SCC Units	s: lion cubic feet burned		
4. Maximum Hourly Rate: 1.913	5. Maximum 8,3	Annual Rate: 678.9	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit: 923 (LHV)		
10. Segment Comment:					
Fuel heat content (field	9) represents lov	wer heating val	ue (LHV).		
Segment Description and R	ate: Segment_	of			
1. Segment Description (Pro	ocess/Fuel Type):	:			
2. Source Classification Cod	de (SCC):	3. SCC Units	3:		
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:	-1		1		

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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	4. Pollutant Regulatory Code
NOx	025		EL
СО			EL
PM/PM ₁₀			NS
SO ₂			NS
VOC			NS
		_	

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOx	2. Total Percent Efficiency of Control: 94		
3. Potential Emissions: 60.9 lb/hour 133.4	<u> </u>		netically Limited?
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N	N/A	•
6. Emission Factor: N/A Reference:			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year N/A	8.b. Baseline From:		Period: N/A To:
9.a. Projected Actual Emissions (if required): tons/year N/A	9.b. Projected 5 years		ng Period: ears N/A
10. Calculation of Emissions: Potential hourly emission rate is the allow Condition 9. of Final Air Permit PSD-FL. Potential annual emission rate based on 4	-363. -,380 hr/yr.	rate spec	ified in Specific
11. Potential, Fugitive, and Actual Emissions Co	omment:		

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1	asis for Allowable Emissions Code: ULE	2.	Future Effective Date of Al Emissions: N/A	lowable
	llowable Emissions and Units: 0 ppmvd @ 15% O ₂	4.	Equivalent Allowable Emis 60.9 lb/hour 133	
1	5. Method of Compliance: CEMS per Part 75			
6. Al	llowable Emissions Comment (Description	of (Operating Method):	
R	Rule 62-212.400(10)(b), F.A.C. (BACT).			

Also subject to less stringent emission standards of NSPS Subpart GG.

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions: N/A	e of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowabl	e Emissions:
	N/A		60.9 lb/hour	
5.	Method of Compliance:			
	EPA Reference Methods 7E/20 (initial only	y)		
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	Rule 62-212.400(10)(b), F.A.C. (BACT).			

Also subject to less stringent emission standards of NSPS Subpart GG.

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: CO	2. Total Perc	ent Efficie	ency of Control:
3. Potential Emissions: 36.0 lb/hour 99.0	tons/year		netically Limited? Yes No
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N	N/A	
6. Emission Factor: N/A Reference:			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline From:		Period: N/A Γο:
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected 5 years		ng Period: ears N/A
10. Calculation of Emissions: Potential hourly emission rate is the allow Condition 9. of Final Air Permit PSD-FL-Potential annual emission rate is the annu Specific Condition 9. of Final Air Permit	-363. nal cap for <u>bot</u> PSD-FL-363.		
11. Potential, Fugitive, and Actual Emissions C	omment:		

POLLUTANT DETAIL INFORMATION
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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date Emissions: N/A	of Allowable
3.	Allowable Emissions and Units: 9.0 ppmvd @ 15% O ₂	4.	Equivalent Allowable 36.0 lb/hour	Emissions: N/A tons/year
5.	Method of Compliance: EPA Reference Method 10 (initial only)			
6.	Allowable Emissions Comment (Description	of (Operating Method):	

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date Emissions: N/A	of Allowable
3.	Allowable Emissions and Units: N/A	4.	Equivalent Allowable N/A lb/hour	Emissions: 99.0 tons/year
5.	Method of Compliance:			
	CEMS (12-month rolling average)			
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	Equivalent allowable limit is annual cap fo	or <u>b</u>	oth Units 4 and 5.	

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM ₁₀	2. Total Perc	ent Efficie N/A	ency of Control:
3. Potential Emissions: 18.0 lb/hour 39.4	tons/year	4. Synth	netically Limited? Yes
5. Range of Estimated Fugitive Emissions (as To tons/year	applicable): N	J/A	
6. Emission Factor: 18.0 lb/hr Reference: GE Data			7. Emissions Method Code: 5
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline From:		Period: N/A Γο:
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected 5 years		ng Period: ears N/A
10. Calculation of Emissions:			
Potential annual emission rate based on 4	,380 hr/yr.		
			•
11. Potential, Fugitive, and Actual Emissions Co			
11.1 Otomai, 1 agiavo, and 1 totali Elinosiono es	Jilinont.		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

A	iowable Emissions Anowable Emissions	OI NOT APPLICABLE
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	n of Operating Method):
	Fuel specification of 2.0 gr S / 100 scf for combustion design and operation represe Condition 9. of Final Air Permit PSD- FL	nts BACT for PM/PM ₁₀ per Specific
Al	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	n of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO ₂	2. Total Perc	cent Efficiency of Control: N/A	
3. Potential Emissions:	s tons/year	4. Synthetically Limited? ☐ Yes ☐ No	
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N	N/A	
6. Emission Factor: 2.0 gr S / 100 scf natural Reference:	gas	7. Emissions Method Code: 2	
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline From:	24-month Period: N/A To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected ☐ 5 years	d Monitoring Period: 10 years N/A	
10. Calculation of Emissions: Potential annual emission rate based on 4			
11. Potential, Fugitive, and Actual Emissions Co	omment:		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

<u>Al</u>	lowable Emissions Allowable Emissions	of NOT APPLICABLE
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	on of Operating Method):
	Fuel specification of 2.0 gr S / 100 scf for specific Condition 9. of Final Air Permit	natural gas represents BACT for SO ₂ per PSD-FL-363.
<u>Al</u>	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	on of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: VOC	2. Total Perc	cent Efficiency of Control: N/A	:
3. Potential Emissions: 3.1 lb/hour 6.8	3 tons/year	4. Synthetically Limited	d?
5. Range of Estimated Fugitive Emissions (as To tons/year	s applicable): N	N/A	
6. Emission Factor: 3.1 lb/hr Reference: GE Data		7. Emissions Method Co	
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline From:	24-month Period: N/A To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected ☐ 5 years	Monitoring Period: 10 years N/A	
10. Calculation of Emissions: Potential annual emission rate based on 4			
11. Potential, Fugitive, and Actual Emissions C	omment:		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions	of NOT APPLICABLE
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description)	on of Operating Method):
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	on of Operating Method):

Allowable Emissions Allowable Emissions

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NOT APPLICABLE

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

of

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	of Operating Method):
<u>Al</u>	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:	
6.	Allowable Emissions Comment (Description Equivalent allowable limit is annual cap for	

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G. VISIBLE EMISSIONS INFORMATION

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

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype: VE 10	2. Basis for Allowab Rule	ole Opacity: Other
		Kule	
3.	Allowable Opacity: Normal Conditions: 10 %	Exceptional Conditions:	N/A %
	Maximum Period of Excess Opacity Al	-	N/A min/hour
4.	Method of Compliance:		
	EPA Reference Method 9		
5.	Visible Emissions Comment:		
	Rule 62-212.400(10)(b), F.A.C. (BAC	T).	
	1 02 212. 100(10)(0), 10		
<u>Vi</u>	sible Emissions Limitation: Visible Er	missions Limitation of	
	sible Emissions Limitation: Visible En	2. Basis for Allowab	
			ole Opacity: Other
	Visible Emissions Subtype: Allowable Opacity:	2. Basis for Allowab	Other
1.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: %	2. Basis for Allowab Rule Exceptional Conditions:	Other %
1.	Visible Emissions Subtype: Allowable Opacity:	2. Basis for Allowab Rule Exceptional Conditions:	Other
1.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al	2. Basis for Allowab Rule Exceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al	2. Basis for Allowab Rule Exceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al	2. Basis for Allowab Rule Exceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance:	2. Basis for Allowab Rule Exceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance:	2. Basis for Allowab Rule Exceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance:	2. Basis for Allowab Rule Exceptional Conditions:	Other %
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance:	2. Basis for Allowab Rule Exceptional Conditions:	Other %

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of [2]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 3

1.	Parameter Code: EM	2. Pollutant(s): NO _x
3.	CMS Requirement:	⊠ Rule ☐ Other
4.	Monitor Information Manufacturer: Thermo Fisher Scientifi	
	Model Number: 42I	Serial Number: 620517430
5.	Installation Date: 04/17/07	6. Performance Specification Test Date: 04/17/07
7.	Continuous Monitor Comment:	
	Required by 40 CFR Part 75 (Acid Rain)	Program).
$\overline{}$	ontinuous Monitoring System: Continuous	
1.	Parameter Code: CO ₂	2. Pollutant(s): N/A
3.	CMS Requirement:	⊠ Rule ☐ Other
4.	Monitor Information Manufacturer: Seimens	
	Model Number: Ultramat 6E	Serial Number: N1-U6-0318
5.	Installation Date: 04/17/07	6. Performance Specification Test Date: 04/17/07
7.	Continuous Monitor Comment:	
	Required by 40 CFR Part 75 (Acid Rain)	Program).

Section [2]

of [2]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 3 of 3

1.	Parameter Code: EM	2. 1	Pollutant(s): CO
3.	CMS Requirement:		Rule
4.	Monitor Information		
	Manufacturer: Thermo Fisher Scientifi	c (TE	CCO)
	Model Number: 48I-AZPCB		Serial Number: 0600514690
5.	Installation Date:	6. I	Performance Specification Test Date:
	04/17/07		04/17/07
7.	Continuous Monitor Comment:		
	Required by Permit No. PSD-FL-363, Sp.	ecific	Condition No. 22.
<u>Co</u>	ntinuous Monitoring System: Continuous	Moni	tor of
1.	Parameter Code:	2. 1	Pollutant(s):
3.	CMS Requirement:		Rule Other
4.	Monitor Information		
	Manufacturer:		
	Model Number:	1	Serial Number:
5.	Installation Date:	6. I	Performance Specification Test Date:
7.	Continuous Monitor 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: Previously Submitted, Date: October 2005
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: October 2005
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: October 2005
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
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: 06/01/07
	Test Date(s)/Pollutant(s) Tested: <u>CO, NO_x, and Visible Emissions—04/17/07</u>
	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

Section [2] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications NOT APPLICABLE

1.			
	F.A.C.; 40 CFR 63.43(d) and (e)):		
	Attached, Document ID: Not Applicable		
2.	Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 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		
Ad	ditional Requirements for Title V Air Operation Permit Applications		
1.	Identification of Applicable Requirements:		
	Attached, Document ID: Previously Submitted, Date: October 2005		
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		
Ad	ditional Requirements Comment		
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ATTACHMENT A

CLEAN AIR INTERSTATE RULE (CAIR) PART UNITS 4 AND 5

Clean Air Interstate Rule (CAIR) Part

For more information, see instructions and refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321 and 96.322; and Rule 62-296.470, F.A.C.

	This submission is: 🕱 New 🛭	☐ Revised ☐ Renewal		
STEP 1	Plant Name:		State:	ORIS or EIA Plant Code:
Identify the source by plant name and ORIS or EIA plant code	Polk Power Station		Florida	7242

STEP 2

In column "a" enter the unit ID# for every CAIR unit at the CAIR source.

In columns "b," "c," and "d," indicate to which CAIR program(s) each unit is subject by placing an "X" in the column(s).

For new units, enter the requested information in columns "e" and "f.

а	b	С	d	е	f
Unit ID#	Unit will hold nitrogen oxides (NO _X) allowances in accordance with 40 CFR 96.106(c)(1)	Unit will hold sulfur dioxide (SO ₂) allowances in accordance with 40 CFR 96.206(c)(1)	Unit will hold NO _X Ozone Season allowances in accordance with 40 CFR 96.306(c)(1)	New Units Expected Commence Commercial Operation Date	New Units Expected Monitor Certification Deadline
011	×	×	×	2/23/2007	3/5/2007
012	х	X	X	3/29/2007	· 4/17/2007
				_	

STEP 3

Read the standard requirements.

Polk	Power	Station
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Plant Name (from STEP 1)

CAIR NO_X ANNUAL TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO_x source and each CAIR NO_x unit at the source shall:
 (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 (ii) [Reserved];
- (2) The owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
 (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine
- compliance by each CAIR NO_x source with the following CAIR NO_x Emissions Requirements.

NO_X Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X source and each CAIR NO_X unit at the source shall hold, in the source's compliance account, CAIR NO_X allowances available for compliance deductions for the control period under 40 CFR 96.154(a) in an amount not less than the tons of total NO_X emissions for the control period from all CAIR NO_X units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
- (2) A CAIR NO_X unit shall be subject to the requirements under paragraph (1) of the NO_X Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.

 (3) A CAIR NO_X allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_X Requirements, for a control period in a calendar year before the year for which the CAIR NO_X allowance was allocated.
- (4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO_X allowance is a limited authorization to emit one ton of NO_X in accordance with the CAIR NO_X Annual Trading Program. No provision of the CAIR NO_X Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO_X allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x unit.

Excess Emissions Requirements.

- If a CAIR NO_X source emits NO_X during any control period in excess of the CAIR NO_X emissions limitation, then:
- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO_X source and each CAIR NO_X unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
- (i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO_X unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
- (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
- (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X Annual Trading Program.
- (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_X Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO_X Annual Trading Program.
- (2) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

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Plant Name (from STEP 1)	

STEP 3, Continued

Liability.

- (1) Each CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program.
- (2) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x source or the CAIR designated representative of a CAIR NO_x source shall also apply to the owners and operators of such source and of the CAIR NO_x units at the source.
- (3) Any provision of the CAIR NO_X Annual Trading Program that applies to a CAIR NO_X unit or the CAIR designated representative of a CAIR NO_X unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO_X Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_X source or CAIR NO_X unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR SO₂ TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall:
 (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 (ii) [Reserved];
- (2) The owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

The owners and operators, and the CAIR designated representative, of each CAIR SO₂ source and each SO₂ CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-296.470, F.A.C.
 The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO₂ source with the following CAIR SO₂ Emission Requirements.

SO₂ Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO_2 allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
- (2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO₂ Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR SO₂ allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO₂ unit.

Excess Emissions Requirements.

If a CAIR SO₂ source emits SO₂ during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

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Polk Power Station	
Plant Name (from STEP 1)	

STEP 3, Continued

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.
- (i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.
- (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
- (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.
- (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program.
- (2) The CAIR designated representative of a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR SO₂ Trading Program, including those under 40 CFR Part 96. Subpart HHH.

Liability.

- (1) Each CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program.
- (2) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ source or the CAIR designated representative of a CAIR SO₂ source shall also apply to the owners and operators of such source and of the CAIR SO₂ units at the source.
- (3) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ unit or the CAIR designated representative of a CAIR SO₂ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO₂ Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO₂ source or CAIR SO₂ unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

- The CAIR designated representative of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall:

 Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 [ii) [Reserved];
- (2) The owners and operators of each CAIR NO_X Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_X Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(6) A CAIR NO_X Ozone Season allowance does not constitute a property right.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHHH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR NO_X Ozone Season source with the following CAIR NO_X Ozone Season Emissions Requirements.

NO_x Ozone Season Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_X Ozone Season allowances available for compliance deductions for the control period under 40 CFR 95.354(a) in an amount not less than the tons of total NO_X emissions for the control period from all CAIR NO_X Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH. (2) A CAIR NO_X Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO, Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1),(2), or (3) and for each control period thereafter.
- (3) A CAIR NO_X Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_X Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO_X Ozone Season allowance was allocated.
- (4) CAIR NO_X Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_X Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.
- (5) A CAIR NO_X Ozone Season allowance is a limited authorization to emit one ton of NO_X in accordance with the CAIR NO_X Ozone Season Trading Program. No provision of the CAIR NO_X Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x Ozone Season unit.

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Polk Power Station	
Plant Name (from STEP 1)	

STEP 3, Continued

Excess Emissions Requirements.

If a CAIR NO_X Ozone Season source emits NO_X during any control period in excess of the CAIR NO_X Ozone Season emissions limitation, then:
(1) The owners and operators of the source and each CAIR NO_X Ozone Season unit at the source shall surrender the CAIR NO_X Ozone Season allowances required for deduction under 40 CFR 96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law, and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
- (i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO_X Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
- (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
- (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X Ozone Season Trading Program.
- (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_X Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO_X Ozone Season Trading Program.
- (2) The CAIR designated representative of a CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall submit the reports required under the CAIR NO_x Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

- (1) Each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit shall meet the requirements of the CAIR NO_X Ozone Season Trading Program.
- (2) Any provision of the CAIR NO_X Ozone Season Trading Program that applies to a CAIR NO_X Ozone Season source or the CAIR designated representative of a CAIR NO_X Ozone Season source shall also apply to the owners and operators of such source and of the CAIR NO_X Ozone Season units at the source.
- (3) Any provision of the CAIR NO_X Ozone Season Trading Program that applies to a CAIR NO_X Ozone Season unit or the CAIR designated representative of a CAIR NO_X Ozone Season unit shall also apply to the owners and operators of such unit:

Effect on Other Authorities

No provision of the CAIR NO_X Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_X Ozone Season source or CAIR NO_X Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

STEP 4

Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.

Certification (for designated representative or alternate designated representative only)

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR 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.

Name: Paul Carpinone		Title: Director – Enviro	onmental, Health & Safety
Company Owner Name: Tampa Electric Company	,		1
Phone: (813) 228-4858	E-mail Add	ress: <u>plcarpinone@teco</u>	energy.com
Signature Coul J. Coupin	rone		Date 4-21-08

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APPENDIX B FDEP AIR CONSTRUCTION PERMIT No. PSD-FL-363





Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Colleen M. Castille Secretary

PERMITTEE:

Tampa Electric Company
PO Box 111
Tampa, Florida 33601-0111
Authorized Representative:
Mark J. Hornick, General Manager

Permit No. PSD-FL-363 Project No. 1050233-018-AC TECO Polk Power Station Simple Cycle Units 4 and 5 Expires: October 1, 2008

PROJECT AND LOCATION

This permit authorizes the construction of two simple cycle gas turbine generators with a nominal output of 165 MW each at the existing Polk Power Station (SIC No. 4911). The facility is located approximately 11 miles south of the city of Mulberry (9995 State Route 37 South) in Polk County, Florida.

APPENDICES

The following Appendices are attached as part of this permit.

Appendix BD. Final BACT Determinations and Emissions Standards

Appendix C. Common State Rules

Appendix GC. General Conditions

Appendix GG. NSPS Provisions - Subparts A and GG for Stationary Gas Turbines

STATEMENT OF BASIS

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The project was processed in accordance with the requirements of Rule 62-212.400, F.A.C., the preconstruction review program for the Prevention of Significant Deterioration (PSD) of Air Quality. The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Michael G. Cooke, Director

Division of Air Resource Management

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Effective Date:

April 28, 2006

FACILITY DESCRIPTION

The regulated emissions units at the existing Polk Power Station include the following: a 260 MW integrated coal gasification and combined cycle gas turbine (Unit 1) capable of firing synthetic gas (syngas) or No. 2 fuel oil; an auxiliary boiler that fires No. 2 fuel oil; a sulfuric acid plant; a solid fuel handling system; and two nominal 165 MW simple cycle gas turbines (Units 2 and 3) capable of firing either natural gas or No. 2 fuel oil.

PROJECT DESCRIPTION

The project is for the addition of two General Electric PG7241(FA) simple cycle gas turbine generators with a nominal output of 165 MW each at the existing facility. Each unit may operate up to 4380 hours per year. The new units will be fired exclusively with natural gas, which will minimize SO_2 emissions. The units will be designed and constructed with dry low- NO_X burner technology for the control of NO_X emissions. The advanced burner design will reduce incomplete combustion and minimize CO, PM_{10} , and VOC emissions.

EMISSIONS UNITS

This permit authorizes construction and installation of the following new emissions units:

EU No.	Emission Unit Description	
011	Unit 4 – 165 MW General Electric PG7241 FA gas turbine-electrical generator	
012	Unit 5 – 165 MW General Electric PG7241 FA gas turbine-electrical generator	

REGULATORY CLASSIFICATION

Title III: The facility is not a major source of hazardous air pollutants (HAPs).

Title IV: The facility operates units subject to the Acid Rain provisions of the Clean Air Act.

Title V: The facility is a Title V or "major source" of air pollution in accordance with Chapter 62-213, F.A.C.

PSD: The facility is a PSD-major facility pursuant to Rule 62-212, F.A.C.

NSPS: Units 4 and 5 are subject to 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines). They are not be subject to NSPS Subpart KKKK (Standards of Performance for Stationary Combustion Turbines for which Construction is Commenced after February 18, 2005) because the purchase contract with General Electric was signed on July 21, 2000, which is prior to the NSPS effective date.

NESHAP: Units 4 and 5 are not subject to 40 CFR 63, Subpart YYYY (National Emissions Standard for Hazardous Air Pollutants for Stationary Combustion Gas Turbines) because the facility is not a major source of HAPs.

Siting: This plant is subject to certain requirements of Chapter 403, Part II, Florida Statutes, Electric Power Plant and Transmission Line Siting, including a modification of the conditions Site Certification PA92-32.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the draft permit package including the Department's Technical Evaluation and Preliminary Determination; publication and comments; and the Department's Final Determination and Best Available Control Technology (BACT) determinations.

SECTION II. ADMINISTRATIVE REQUIREMENTS

- 1. <u>Permitting Authority</u>: All documents related to applications for permits to construct, operate or modify emissions unit should be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (DEP), at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all such documents shall also be submitted to the Compliance Authority.
- 2. <u>Compliance Authority</u>: All documents related to compliance activities such as reports, tests, and notifications should be submitted to the Air Resources Section of the Department's Southwest District Office at 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926.
- 3. <u>General Conditions</u>: The permittee shall operate under the attached General Conditions listed in Appendix GC of this permit. General Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]
- 4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.); Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.); and the Title 40, Parts 51, 52, 60, 63, 72, 73, and 75 of the Code of Federal Regulations (CFR), adopted by reference in Rule 62-204.800, F.A.C. The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
- 5. Construction and Expiration: The permit expiration date includes sufficient time to complete construction, perform required testing, submit test reports, and submit an application for a Title V operation permit to the Department. Approval to construct shall become invalid for any of the following reasons: construction is not commenced within 18 months after issuance of this permit; construction is discontinued for a period of 18 months or more; or construction is not completed within a reasonable time. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. In conjunction with an extension of the 18-month period to commence or continue construction (or to construct the project in phases), the Department may require the permittee to demonstrate the adequacy of any previous determination of Best Available Control Technology (BACT) for emissions units regulated by the project. For good cause, the permittee may request that this PSD air construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation at least sixty (60) days prior to the expiration of this permit. [Rules 62-4.070(4), 62-4.080, 62-210.300(1), and 62-212.400(12), F.A.C.]
- 6. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

7. Source Obligation.

- (a) Authorization to construct shall expire if construction is not commenced within 18 months after receipt of the permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. This provision does not apply to the time period between construction of the approved phases of a phased construction project except that each phase must commence construction within 18 months of the commencement date established by the Department in the permit.
- (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation)

SECTION II. ADMINISTRATIVE REQUIREMENTS

- solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
- (c) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

- 8. <u>Modifications</u>: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Chapters 62-210 and 62-212, F.A.C.]
- 9. Application for Title IV Permit: At least 24 months before the date on which the new unit begins serving an electrical generator greater than 25 MW, the permittee shall submit an application for a Title IV Acid Rain Permit to the Department's Bureau of Air Regulation in Tallahassee and a copy to the Region 4 Office of the U.S. Environmental Protection Agency in Atlanta, Georgia. This permit does not specify the Acid Rain program requirements. These will be included in the Title V air operation permit. [40 CFR 72]
- 10. <u>Title V Permit</u>: This permit authorizes construction of the permitted emissions unit and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emission units. The permittee shall apply for and obtain a Title V operation permit in accordance with Rule 62-213.420, F.A.C. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Bureau of Air Regulation and a copy to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

A. Simple Cycle Gas Turbine Units 4 and 5 (EU-011 and EU-012)

The specific conditions of this subsection apply to the following emissions units.

EU No.	Emission Unit Description		
011	Unit 4 – 165 MW General Electric PG7241 FA gas turbine-electrical generator		
012	Unit 5 – 165 MW General Electric PG7241 FA gas turbine-electrical generator		

APPLICABLE STANDARDS AND REGULATIONS

- 1. <u>BACT Determinations</u>: Units 4 and 5 are subject to determinations of the Best Available Control Technology (BACT) for nitrogen oxides (NO_X), particulate matter (PM/PM₁₀), and sulfur dioxide (SO₂). [Rule 62-212.400(BACT), F.A.C.]
- 2. NSPS Requirements: The gas turbines shall comply with the applicable New Source Performance Standards (NSPS) in 40 CFR 60, including: Subpart A (General Provisions) and Subpart GG (Standards of Performance for Stationary Gas Turbines). See Appendix GG of this permit. The BACT emissions standards are as stringent as or more stringent than the limits imposed by the applicable NSPS provisions. Some separate reporting and monitoring may be required by the individual subparts. These provisions include a requirement to correct test data to ISO conditions; however, such correction is not used for compliance determinations with the BACT standards. [Rule 62-204.800(7)(b), F.A.C.; 40 CFR 60, Subparts A and GG]

EQUIPMENT DESCRIPTION

3. <u>Gas Turbines</u>: The permittee is authorized to install, tune, operate, and maintain two General Electric Model PG7241FA gas turbine-electrical generator sets with a nominal generating capacity of 165 MW each. Each gas turbine will be equipped with a DLN combustion system and an inlet air filtration system. The unit shall include a SpeedtronicTM Mark V automated gas turbine control system (or equivalent). [Application No. 1050233-018-AC; Design]

CONTROL TECHNOLOGY

4. <u>DLN Combustion</u>: The permittee shall operate and maintain the General Electric DLN 2.6 combustion system (or better) to control NO_X emissions from the gas turbines when firing natural gas. Prior to the initial emissions performance tests required for the gas turbine, the DLN combustors and automated gas turbine control system shall be tuned to achieve the permitted levels for CO and NO_X. Thereafter, the system shall be maintained and tuned in accordance with the manufacturer's recommendations. [Application No. 1050233-018-AC; Design; Rule 62-212.400(BACT), F.A.C.]

PERFORMANCE REQUIREMENTS

- 5. <u>Hours of Operation</u>: Each gas turbine shall operate no more than 4380 hours during any consecutive 12 months. Restrictions on individual methods of operation are specified in separate conditions. [Application No. 1050233-018-AC; Rules 62-210.200(PTE) and 62-212.400(12), F.A.C.]
- 6. Permitted Capacity: The maximum heat input rate for each gas turbine is 1834 MMBtu per hour when firing natural gas based on a compressor inlet air temperature of 59° F, the higher heating value (HHV) of natural gas, and 100% load. Heat input rates will vary depending upon gas turbine characteristics, ambient conditions, alternate methods of operation, and evaporative cooling. The permittee shall provide manufacturer's performance curves (or equations) that correct for site conditions to the Permitting and Compliance Authorities within 45 days of completing the initial compliance testing. Operating data may be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department. [Rules 62-4.070(3), 62-212.400(BACT), and 62-210.200(PTE), F.A.C.]

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- 7. Authorized Fuels: Each gas turbine shall fire only natural gas containing no more than 2.0 grains of sulfur per 100 standard cubic feet of natural gas. [Rules 62-210,200(PTE) and 62-212,400 (BACT), F.A.C.]
- 8. Simple Cycle, Intermittent Operation: Each turbine shall operate only in simple cycle mode not to exceed the permitted hours of operation allowed by this permit. This restriction is based on the permittee's request, which formed the basis of the PSD applicability and BACT determinations and resulted in the emission standards specified in this permit. For any request to convert this unit to combined cycle operation by installing/connecting to heat recovery steam generators, including changes to the fuel quality or quantity related to combined cycle conversion which may cause an increase in short or long-term emissions, the permittee may be required to submit a full PSD permit application complete with a new proposal of the best available control technology as if the unit had never been built. [Rules 62-212.400(12) and 62-212.400(BACT), F.A.C.]

EMISSIONS AND TESTING REQUIREMENTS

9. Emission Standards: Emissions from each gas turbine shall not exceed the following emissions standards.

Pollutant	Emission Standard ^e	Averaging Time	Compliance Method	Basis
CO ^a	99.0 tons (Emissions Cap)	12-month rolling total Both Units Combined	CEMS	Avoid PSD
	9.0 ppmvd @ 15% O ₂ 36.0 lb/hour	3-hour test avg.	Initial Only EPA Method 10 Test	
NO _x ^b	9.0 ppmvd @ 15% O ₂	24-hour block, CEMS	CEMS	BACT
	60.9 lb/hour	3-hour test avg.	EPA Methods 7E/20 Test	
PM/PM ₁₀ c	10 % Opacity	6-minute block	EPA Method 9 Test	раст
	2 grains S/100 SCF of gas	N/A	Record Keeping	BACT
SO ₂ d	2 grains S/100 SCF of gas	N/A	Record Keeping	BACT

- The permittee shall conduct an initial test to demonstrate compliance with the short-term (ppmvd @ 15% O₂ and lb/hour) CO emissions limits for the unit as constructed. Thereafter, continuous compliance shall be demonstrated with the CO emissions cap by data collected from the required continuous emissions monitoring systems (CEMS) for both units combined.
- The permittee shall conduct an initial test to demonstrate compliance with the short-term (ppmvd @ 15% O₂ and lb/hour) NOx emissions limits. Thereafter, continuous compliance shall be demonstrated with the 24-hour block NOx emissions limit by data collected from the required continuous emissions monitoring system (CEMS).
- The fuel sulfur specifications combined with the efficient combustion design and operation of the gas turbine represents BACT for particulate matter (PM/PM₁₀) emissions. No stack tests are required. Compliance with the CO and visible emissions standards shall serve as indicators of good combustion. {Permitting Note: Maximum expected PM/PM₁₀ emissions from each gas turbine are approximately 18 lb/hour.}
- The fuel sulfur specifications effectively limit the potential emissions of sulfur dioxide (SO₂) from each gas turbine and represent BACT for SO₂ emissions. No stack tests are required. {Permitting Note: Maximum expected SO_2 emissions from each gas turbine are approximately 9.5 lb/hour.}
- The mass emission rate standards are based on a turbine inlet condition of 59° F and the higher heating

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value of natural gas. Mass emission rates may be adjusted from actual test conditions in accordance with the performance curves and/or equations on file with the Department.

{Permitting Note: In combination with the annual restriction on hours of operation, the above emissions standards effectively limit annual potential emissions from both gas turbines to: 99 tons/year of CO, 267 tons/year of NOx, 79 tons/year of PM/PM $_{10}$, 42 tons/year of SO $_2$, 5 tons/year of SAM, and 12 tons/year of VOC.}

[Rule 62-212.400 (BACT), F.A.C.; Rule 62-4.070(3), F.A.C.]

- 10. <u>Unconfined Particulate Emissions</u>: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering, confining, or applying water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]
- 11. Test Methods: Any required stack tests shall be performed in accordance with the following methods.

Method	Description of Method and Comments	
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental)	
9	Visual Determination of the Opacity of Emissions from Stationary Sources	
10	Determination of Carbon Monoxide Emissions from Stationary Sources Note: The method shall be based on a continuous sampling train. The ascarite trap may be omitted or the interference trap of section 10.1 may be used in lieu of the silica gel and ascarite traps.	
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines	

The methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used for compliance testing unless prior written approval is received from the Department. Tests shall be conducted in accordance with the appropriate test method, the applicable requirements specified in Appendix C of this permit, and the provisions in NSPS Subparts A and GG in 40 CFR 60. [Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Subparts A and GG, and Appendix A.]

- 12. <u>Testing Requirements</u>: Initial and subsequent performance tests shall be conducted between 90% and 100% of permitted capacity in accordance with the requirements of Rule 62-297.310(2), F.A.C. [Rule 62-297.310(7)(a) and (b), F.A.C.; 40 CFR 60.8]
- 13. <u>Initial Compliance Demonstration</u>: Initial compliance tests shall be conducted within 60 days after achieving the maximum production rate at which the units will be operated, but not later than 180 days after the initial startup. In accordance with the test methods specified in this permit, the turbine exhaust stack shall be tested to demonstrate compliance with the emission standards for CO, NO_x, and visible emissions. For each test run (including visible emissions tests), CO and NOx emissions recorded by the required CEMS shall be reported. The permittee shall provide the Compliance Authority with any other initial emissions performance tests conducted to satisfy vendor guarantees. [Rule 62-297.310(7)(a) and (b), F.A.C.; 40 CFR 60.8]
- 14. <u>Annual Compliance Testing</u>: During each federal fiscal year (October 1st to September 30th), annual compliance tests for visible emissions shall be conducted. For each visible emissions test, emissions of CO and NOx recorded by the CEMS shall also be reported. [Rules 62-297.310(7)(a) and (b), F.A.C.]
- 15. <u>Continuous Compliance</u>: Continuous compliance with the CO and NOx emissions standards shall be demonstrated with data collected from the required continuous emissions monitoring systems (CEMS). [Rules 62-297.310(7)(a) and (b), F.A.C.]
- 16. <u>Special Compliance Tests</u>: 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

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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. The Department may, require the permittee to conduct additional tests after major replacement or major repair of any air pollution control equipment, such as the DLN combustors, etc. [Rule 62-297.310(7)(b), F.A.C.]

EXCESS EMISSIONS

{Permitting Note: The following conditions apply only to the SIP-based emissions standards specified in Condition No. 9 of this section. Rule 62-210.700, F.A.C. (Excess Emissions) cannot vary or supersede any federal NSPS, NESHAP, or Acid Rain provision.}

- 17. Operating Procedures: The Best Available Control Technology (BACT) determinations established by this permit rely on "good operating practices" to reduce emissions. Therefore all operators and supervisors shall be properly trained to operate and ensure maintenance of the gas turbines, and pollution control systems in accordance with the guidelines and procedures established by each manufacturer. The training shall include good operating practices as well as methods for minimizing excess emissions. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]
- 18. Definitions: Rules 62-210.200(159), (230) and (245), F.A.C. define the following terms.
 - a. *Startup* is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.
 - b. Shutdown is the cessation of the operation of an emissions unit for any purpose.
 - c. *Malfunction* is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner.
- 19. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. All such preventable emissions shall be included in any compliance determinations based on CEMS data. [Rule 62-210.700(4), F.A.C.]
- 20. <u>Alternate Visible Emissions Standard</u>: Visible emissions due to startups, shutdowns, and malfunctions shall not exceed 10% opacity except for up to ten, 6-minute averaging periods during a calendar day, which shall not exceed 20% opacity. [Rule 62-212.400(BACT), F.A.C.]
- 21. Allowable NOx Data Exclusions: Provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized, NO_X continuous monitoring data collected during periods of startup, shutdown, and malfunction may be excluded from the 24-hr block compliance demonstrations only in accordance with the following requirements. All periods of data excluded shall be consecutive for each such episode and only data obtained during the described episodes (startup, shutdown, malfunction, and DLN tuning) may be excluded. As provided by the authority in Rule 62-210.700(5), F.A.C., the following conditions replace the provisions in Rule 62-210.700(1), F.A.C.
 - a. *Startup*: In accordance with the procedures described in the CEMS Data Requirements of this section, no more than the first 30 minutes of CEMS data shall be excluded for each gas turbine startup. For startups of less than 30 minutes in duration, only those minutes attributable to startup shall be excluded.
 - b. *Shutdown*: In accordance with the procedures described in the CEMS Data Requirements of this section, no more than the first 20 minutes of CEMS data shall be excluded for each gas turbine shutdown. For shutdowns less than 20 minutes in duration, only those minutes attributable to shutdown shall be excluded.

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- c. *Malfunction*: In accordance with the procedures described in the CEMS Data Requirements of this section, no more than 120 minutes of CEMS data shall be excluded in a 24-hour period for each gas turbine due to malfunctions. Within one (1) working day of occurrence, the owner or operator shall notify the Compliance Authority of any malfunction resulting in the exclusion of CEMS data.
- d. *DLN Tuning*: CEMS data collected during initial or other DLN tuning sessions shall be excluded from the compliance demonstrations provided the tuning session is performed in accordance with the manufacturer's specifications. Prior to performing any tuning session, the permittee shall provide the Compliance Authority with an advance notice of at least one (1) day that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail. [Design; Rule 62-4.070(3), F.A.C.]

The permittee shall notify the Compliance Authority within one working day of discovering any emissions in excess of a CEMS standard subject to the specified averaging period. All such reasonably preventable emissions shall be included in any CEMS compliance determinations. All valid emissions data (including data collected during startup, shutdown, malfunction, and DLN tuning) shall be used to report annual emissions for the Annual Operating Report and demonstration of compliance with the CO emissions cap. [Rules 62-4.070(3), 62-210.200, 62-212.400(BACT) and 62-210.700, F.A.C.]

CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) REQUIREMENTS

- 22. <u>CEM Systems</u>: The permittee shall install, calibrate, maintain, and operate continuous emission monitoring systems (CEMS) to measure and record the emissions of CO and NO_X from each gas turbine in a manner sufficient to demonstrate continuous compliance with the CEMS emission standards of this section. All continuous monitoring systems shall be installed and functioning within the required performance specification by the time of the initial performance tests.
 - a. CO Monitor: Each CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4 or 4A. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F. The annual and required RATA tests shall be performed using EPA Method 10 in Appendix A of 40 CFR 60 and shall be based on a continuous sampling train. The CO monitor span values shall be set appropriately, considering the allowable methods of operation and corresponding emission standards.
 - b. *NO_X Monitor:* Each NO_X monitor shall be certified pursuant to the specifications of 40 CFR 75. Quality assurance procedures shall conform to the requirements of 40 CFR 75. The annual and required RATA tests required for the NO_X monitor shall be performed using EPA Method 20 or 7E in Appendix A of 40 CFR 60.
 - c. Diluent Monitor: The oxygen (O₂) or carbon dioxide (CO₂) content of the flue gas shall be monitored at the location where CO and NO_X are monitored to correct the measured emissions rates to 15% oxygen. If a CO₂ monitor is installed, the oxygen content of the flue gas shall be calculated using F-factors that are appropriate for the fuel fired. Each monitor shall comply with the performance and quality assurance requirements of 40 CFR 75.

[Rules 62-4.070(3), 62-210.800, 62-212.400(BACT) and 62-297.520, F.A.C.]

- 23. CEMS Data Requirements: The CEMS shall be installed, calibrated, maintained, and operated in the gas turbine stacks to measure and record the emissions of CO, and NO_X in a manner sufficient to demonstrate compliance with the CEMS-based emission limits of this section. The CEMS shall express the results in units of ppmvd corrected to 15% oxygen. Upon request by the Department, the CEMS emission rates shall be corrected to ISO conditions to demonstrate compliance with the applicable standards of 40 CFR 60.332.
 - a. Valid Hourly Averages for Compliance: Each CEMS shall be designed and operated to sample, analyze, and record data evenly spaced over the hour at a minimum of one measurement per minute.

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All valid measurements collected during an hour (except for the allowable NOx data exclusions), shall be used to calculate a 1-hour block average that begins at the top of each hour. Each 1-hour block average shall be computed using at least one data point in each fifteen-minute quadrant of an hour, where the unit combusted fuel during that quadrant of an hour. Notwithstanding this requirement, a 1-hour average shall be computed from at least two data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour). If less than two such data points are available, there is insufficient data and the 1-hour block average is not valid. Also, if an allowable exclusion episode should occur over two separate hourly averages, only those minutes attributed to the specific episode shall be excluded from each hour. {Permitting Note: For example, a 20-minute startup begins at 2:50 p.m. and ends at 3:10 pm. This means that 10 minutes of startup data would be excluded from the first hourly average and 10 minutes would be excluded from the second hourly average. The first hourly average (2:00 – 3:00 p.m.) is not a valid hourly average because there is insufficient data. The second hourly average (3:00 – 4:00 p.m.) is a valid hourly average consisting of 50 minutes of monitoring data.}

- b. 24-hour Block Averages: A 24-hour block shall begin at midnight of each operating day and shall be calculated from 24 consecutive valid hourly average concentration values. If a unit operates less than 24 hours during the block, or there are less than 24 valid hourly averages available, the 24-hour block average shall be the average of all available valid hourly average concentration values for the 24-hour block. {Permitting Note: For purposes of determining compliance with the 24-hour CEMS standards, the missing data substitution methodology of 40 CFR Part 75, Subpart D, shall not be utilized. Instead, the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block and periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance reports. For example, the "24-hr block average" may consist of only 6 valid operating hours for the day.}
- c. 12-Month Rolling Total: By the end of each month, each CEMS shall determine a 12-month rolling total of CO emissions from each gas turbine and the combined total. The 12-month rolling total shall be based on all valid CO CEMS data collected, including startups, shutdowns, and malfunctions.
- d. *Data Exclusion*: Except for monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, each CEMS shall monitor and record emissions during all operations including episodes of startups, shutdowns, malfunctions, and DLN tuning. Limited amounts of NOx CEMS emissions data recorded during some of these episodes may be excluded from the corresponding compliance demonstration subject to the provisions of Condition No. 21 in this section. The permittee shall minimize the duration of data excluded for such episodes to the extent practicable.
- e. *Monitor Availability*. Monitor availability for each CEMS used to demonstrate compliance shall be 95% or greater in any calendar quarter. Monitor availability shall be calculated consistent with 40 CFR §60.334 and reported in the SIP and NSPS excess emissions reports required in Condition 29. In the event that 95% availability is not achieved, the permittee shall provide the Department with a report identifying the problems in achieving 95% availability and a plan of corrective actions that will be taken to achieve 95% availability. The permittee shall implement the reported corrective actions within the next calendar quarter. Failure to take corrective actions or continued failure to achieve the minimum monitor availability shall be violations of this permit, except as otherwise authorized by the Compliance Authority.

[Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

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REPORTING AND RECORD KEEPING REQUIREMENTS

- 24. Monitoring of Capacity: The permittee shall monitor and record the operating rate of the gas turbine on a daily average basis, considering the number of hours of operation during each day (including the times of startup, shutdown, malfunction, and DLN tuning). This shall be achieved through monitoring daily rates of consumption and heat content of each allowable fuel in accordance with the provisions of 40 CFR 75 Appendix D, and recording the data using a monitoring component of the CEMS system required above. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]
- 25. Monthly Operations Summary: By the fifth calendar day of each month, the permittee shall record the following for each fuel in a written or electronic log for the gas turbine for the previous month of operation: hours of operation for the month and for the rolling 12-month total. Information recorded and stored as an electronic file shall be available for inspection and printing within at least three days of a request by the Department. The fuel consumption shall be monitored in accordance with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]
- 26. <u>Fuel Sulfur Records</u>: Compliance with the fuel sulfur limit for natural gas shall be demonstrated by keeping reports obtained from the vendor indicating the average sulfur content of the natural gas being supplied from the pipeline for each month of operation. Methods for determining the sulfur content of the natural gas shall be ASTM methods D4084-82, D4468-85, D5504-01, D6228-98 and D6667-01, D3246-81 or more recent versions. These methods shall be used to determine the fuel sulfur content in conjunction with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3), 62-212.400(BACT), F.A.C.]
- 27. Stack Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Compliance Authority on the results of each such test. The required test report shall be filed with the Compliance Authority as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Compliance Authority to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report shall provide the applicable information specified in Rule 62-297.310(8), F.A.C. and summarized in Appendix C. [Rule 62-297.310(8), F.A.C.]
- 28. CEMS RATA Reports: At least 15 days prior to conducting any Relative Accuracy Test Assessments (RATA) on a CEMS, the permittee shall notify the Compliance Authority of the schedule (letter, email, fax, or phone call). A summary of the RATA reports shall be provided upon written request of the Compliance Authority and in the SIP Excess Emissions Report as specified in Condition 29. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

29. Excess Emissions Reporting

- a. *Malfunction Notification*: If NOx data will be excluded due to a malfunction, the permittee shall notify the Compliance Authority within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Compliance Authority may request a written summary report of the incident.
- b. SIP Excess Emissions Report: Within 30 days following the end of each calendar quarter, the permittee shall submit a report to the Compliance Authority of the following for each gas turbine: a summary of the 24-hour NOx compliance periods for the quarter; a summary of NOx data excluded due to malfunctions for the quarter; a summary of the 12-month rolling CO emissions totals for the quarter; a summary of any RATA tests performed during the quarter; and a summary of the CEMS systems monitor availability for the quarter.
 - (1) If four consecutive quarterly reports demonstrate compliance with the CEMS-based emissions standards, the reporting frequency may be reduced to semiannual reporting. As part of the fourth consecutive satisfactory quarterly report, the permittee shall provide written notification of its intent

A. Simple Cycle Gas Turbine Units 4 and 5 (EU-011 and EU-012)

- to reduce the reporting frequency to a semiannual basis. The notification shall include a statement that the units were in full compliance during the four consecutive quarters and that reporting will be reduced to a semiannual basis. Semiannual reports shall include above information required for each quarter in the semiannual period. The permittee shall continue to comply with all other record keeping and monitoring provisions.
- (2) If reports are being submitted on a semiannual basis and a unit is not in compliance with the CEMS-based emissions standards, the permittee shall immediately (within one day of detection) notify the Compliance Authority of the compliance status and reestablish quarterly reporting beginning with the current quarter. If compliance is reestablished for four consecutive quarters, semiannual reporting may resume as specified above.
- c. NSPS Excess Emissions Reports: Within thirty (30) days following each calendar semiannual period, the permittee shall submit a report including any applicable periods of excess emissions and monitoring systems performance as defined in 40 CFR, Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) that occurred during the previous semi-annual period to the Compliance Authority. {Permitting Note: If there are no periods of excess emissions as defined in 40 CFR, Part 60, Subpart GG, a statement to that effect may be submitted with the SIP Quarterly Report to suffice for the NSPS Semi-Annual Report.}

[Rules 62-4.070(3), 62-4.130, 62-204.800, 62-210.700(6) and 62-212.400(BACT), F.A.C.; and 40 CFR 60.7 and 60.334]

- 30. <u>Annual Operating Report</u>: The permittee shall submit an annual report that summarizes the actual operating hours and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C.]
- 31. <u>Startup/Shutdown Report</u>: Within 30 days following the end of each calendar quarter, the permittee shall submit a report summarizing the following for each gas turbine: number of startups and shutdowns in the quarter; the duration of each startup and shutdown in the quarter; and the CO and NOx mass emission rates (lb/hour) during each 1-hour block that includes a startup or shutdown. This temporary report that shall be submitted to the Compliance Authority and the Bureau of Air Regulation only for the first four initial quarters of operation. [Rule 62-4.070(3), F.A.C.]