

RECEVO

MAY 05 2004

May 4, 2004

BUREAU OF AIR REGULATION

Mr. Jeffery F. Koerner, P.E.
New Source Review
Florida Department of Environmental Protection
111 South Magnolia, Suite 4
Tallahassee, FL 32301

Via FedEx Airbill No. 7926 3094 3143

Re:

Tampa Electric Company (TEC) H.L. Culbreath Bayside Station

Title V Operation Permit Revision Application

Permit No. 0570040-020-AV
Project No.: 0570040-022-AV

Dear Mr. Koerner:

The Florida Department of Environmental Protection (FDEP) issued Permit No. PSD-FL-301A to Tampa Electric Company (TEC) authorizing the construction and initial operation of 11 combined-cycle combustion turbines at the H.L. Culbreath Bayside Power Station, formerly Bayside Power Station. Condition No. 13 of Permit No. PSD-FL-301A requires the submittal of an application to obtain a Title V operation permit to the FDEP at least 90 days prior to the expiration of the above referenced permit, but no later than 180 days after commencing operation.

After a telephone conversation on June 18, 2003 and submittal of a letter on June 27, 2003 to FDEP, TEC confirmed with the FDEP that the application for a roll-in of BPS Units 1 and 2 into Final Permit No. 0570040-020-AV, to include the seven combined-cycle combustion turbines for BPS Units 1 and 2, may be submitted to the FDEP within 180 days following commencement of operation of BPS Unit 2. Based on the last Unit 2 CT startup date of November 18, 2003, the Title V application is due to FDEP no later than May 16, 2004. Please find enclosed four (4) copies of the permit revision application signed and sealed for the H.L. Culbreath Bayside Station in accordance with 62-4.030, 62-4.050, 62-4.220 and 62-213, F.A.C.

TEC appreciates the cooperation and consideration of the Department in this requested Title V permit revision application for the H.L. Culbreath Bayside Station. If you have any questions or comments pertaining to this request, please direct them to Ms. Greer Briggs at (813) 228-4302.

Sincerely.

Laura R. Crouch

Manager - Air Programs

Environmental, Health & Safety

1 anca

EA/gm/GMB178

c/enc: Mr. Ed Svec, FDEP

Mr. Jerry Kissel, FDEP SW District

TAMPA ELECTRIC COMPANY

P. O. BOX 111 TAMPA, FL 33601-0111

(B13) 22B-4111

H.L. CULBREATH BAYSIDE POWER STATION UNITS 1 AND 2

TITLE V OPERATION PERMIT REVISION APPLICATION

Prepared for:



TAMPA ELECTRIC Tampa, Florida

Prepared by:



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

ECT No. 030598-0100

April 2004

INTRODUCTION

The Tampa Electric Company (TEC) F.J. Gannon Station consists of six steam boilers (Units 1 through 6), six steam turbines, one simple-cycle combustion turbine (CT-1), a once-through cooling water system, storage and handling of solid fuels, fluxing material, fly ash and slag handling systems, fuel oil storage tanks, and ancillary support equipment. Units 1 and 2 each have a nominal generation capacity of 125 megawatts (MW). Units 3, 4, 5, and 6 each have a nominal generation capacity of 180, 188, 239, and 414 MW, respectively. CT-1 has a nominal generation capacity of 14 MW. Units 1 through 6 are all fired with solid fuels; CT-1 is fired with No. 2 distillate fuel oil.

Operation of the existing F.J. Gannon Station is currently authorized by Title V FINAL Permit Revision No. 0570040-017-AV. FINAL Permit Revision No. 0570040-017-AV was issued with an effective date of January 1, 2001, and an expiration date of December 31, 2005. This permit was administratively amended by FINAL Permit Revision No. 0570040-020-AV which corrected the permit renewal application due date (from July 5, 2005, to July 5, 2004) and the permit expiration date (from December 31, 2005, to December 31, 2004) on the placard page, and the years series notation on the Acid Rain Part (from 2001, 2002, 2003, 2004, 2005, to 2000, 2001, 2002, 2003, 2004).

TEC recently constructed and placed in operation seven General Electric Model PG7241 FA natural gas-fired combustion turbine (CT)/heat recovery steam generator (HRSG) combined-cycle units that operate in conjunction with the existing F.J. Gannon Units 5 and 6 steam turbines. The seven CT/HRSG units are grouped in two units designated as H.L. Culbreath Bayside Power Station (Bayside) Units 1 and 2. Bayside Units 1 and 2 repower F.J. Gannon Station Units 5 and 6, respectively. Bayside Unit 1 includes three CT/HRSGs designated as CT-1A, CT-1B, and CT-1C. Bayside Unit 2 includes four CT/HRSGs designated as CT-2A, CT-2B, CT-2C, and CT-2D.

An air construction permit was required prior to the commencement of construction of Units 1 and 2, 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 September 2000. In response, FDEP issued Air Permit No. PSD-FL-301 on March 30, 2001. This permit was subsequently re-issued as Air Permit No. PSD-FL-301A to include Bayside Units 3 and 4. Air Permit No. PSD-FL-301A expires on July 1, 2005.

Units 1 and 2 commenced operation during the March through November 2003 timeframe. Initial compliance testing, as required by Final Permit Number PSD-FL-301A, Section III, Specific Condition No. 20 (testing for nitrogen oxides [NO_x], carbon monoxide (CO), visible emissions [VE], and ammonia slip), was conducted on April 23, 2003 (CT-1A); April 17, 2003 (CT-1B); April 18, 2003 (CT-1C); November 14 and 22, 2003; (CT-2A), November 12 and 14, 2003, and December 16, 2003 (CT-2B); December 19 and 20, 2003 (CT-2C); and December 17, 2003 (CT-2D). The initial emissions performance tests demonstrated that Units 1 and 2 were operating in compliance with all applicable permit emission limits. Reports of the initial performance testing were submitted to the FDEP's Southwest District Office.

Permit No. PSD-FL-301A, Section II., Condition No. 13, requires the submittal of a Title V operating permit to FDEP's Bureau of Air Regulation, with a copy to FDEP's Southwest District, at least 90 days prior to permit expiration but no later than 180 days after commencing operation. As noted above, Units 1 and 2 commenced operation during the March through November 2003 timeframe. In accordance with prior FDEP guidance and to avoid multiple Title V permit revisions, the application for a revision to F.J. Gannon Station Title V FINAL Permit Revision No. 0570040-020-AV to include Bayside Units 1 and 2 is required to be submitted to FDEP within 180 days following commencement of operation of Unit 2 (i.e., no later than May 16, 2004). This permit application, using FDEP Form No. 62-210.900(1), Application for Air Permit – Long Form, effective June 16, 2003, constitutes TEC's application to revise Title V FINAL Permit Revision No. 0570040-020-AV to include Bayside Units 1 and 2 pursuant to the requirements of Final Permit No. PSD-FL-301A and Chapter 62-213, F.A.C.

Permit No. PSD-FL-301A, Section III, Conditions No. 5 and 9, require the submittal of final HRSG and evaporative inlet air-cooling design data with the Title V permit application. This required information is provided as Attachments 9 and 10, respectively.

Following this introduction, FDEP's Application for Air Permit – Long Form, is provided in the Appendix. The following attachments are included as referenced in the permit application:

<u>Attachment</u>	Description
1	Facility Plot Plan—F.J. Gannon Station Area Map
2	Facility Plot Plan—Units 1 and 2 Plot Plan
3	Process Flow Diagram—Bayside Unit 1
4	Process Flow Diagram—Bayside Unit 2
5	Precautions to Prevent Emissions of Unconfined Particulate Matter
6-1 and 6-2	Identification of Applicable Requirements
7	Compliance Report and Plan
8	Procedures for Startup and Shutdown
9	HRSG Final Design Data
10	Evaporative Inlet Air-Cooling Final Design Data
11	Air Permit No. PSD-FL-301A
12	Certificate of Representation
13	Acid Rain Part Application



Department of Environmental Protection

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Division of Air Resource Management

BUREAU OF AIR REGULATION

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit—Use this form to apply for an air construction permit for a proposed project:

- subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

Air Operation Permit – Use this form to apply for:

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

Air Construction Permit & Revised/Renewal Title V Air Operation Permit (Concurrent Processing Option)

- Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility					
Facility Owner/Company Name: Tampa Electric Company					
2. Site Name: H. L. Culbreath Bayside Po	ower Station				
3. Facility Identification Number: 0570040					
4. Facility Location: Street Address or Other Locator: Port S	utton Road				
City: Tampa County	y: Hillsborough Zip Code: 33619				
5. Relocatable Facility? ☐ Yes ☑ No	6. Existing Title V Permitted Facility? ☐ Yes ☐ No				
Application Contact					
1. Application Contact Name: Greer Brigg	gs				
2. Application Contact Mailing Address Organization/Firm: Tampa Electric Co	2. Application Contact Mailing Address Organization/Firm: Tampa Electric Company				
Street Address: 702 North Franklin	Street				
City: Tampa	State: FL Zip Code: 33602				
3. Application Contact Telephone Number	S				
Telephone: (813) 228-4302 ext	Telephone: (813) 228-4302 ext. Fax: (813) 228-1308				
4. Application Contact Email Address: gn	nbriggs@tecoenergy.com				
Application Processing Information (DEF	'Use)				
1. Date of Receipt of Application:	5-5-04				
2. Project Number(s):	5-5-64 0570040-022-1V				

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

3. PSD Number (if applicable): 4. Siting Number (if applicable):

Effective: 06/16/03

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit Air construction permit.
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

This application requests a permit revision to Title V Operating Permit No. 0570040-017-AV to include seven combined cycle gas turbine units, identified as Bayside Units 1A (EU 020), 1B (EU 021), 1C (EU 022), 2A (EU 023), 2B (EU 024), 2C (EU 025), and 2D (EU 026). These seven emissions units are currently permitted under Air Permit No. PSD-FL-301A.

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
020	Bayside Combustion Turbine Unit No. 1A	N/A	N/A
021	Bayside Combustion Turbine Unit No. 1B	N/A	N/A
022	Bayside Combustion Turbine Unit No. 1C	N/A	N/A
023	Bayside Combustion Turbine Unit No. 2A	N/A	N/A
024	Bayside Combustion Turbine Unit No. 2B	N/A	N/A
025	Bayside Combustion Turbine Unit No. 2C	N/A	N/A
026	Bayside Combustion Turbine Unit No. 2D	N/A	· N/A
			_
		_	

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

Owner/Authorized Representative Statement N/A

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

1.	Owner/Authorized	l Representative Namo	e:		
2.	Owner/Authorized Organization/Firm	l Representative Maili	ng Addres	SS	
	Street Address	:			
	City	•	State:		Zip Code:
3.	Owner/Authorized	l Representative Telep	hone Nun	ıbers	
	Telephone:	ext.		Fax:	
4.	Owner/Authorized	Representative Emai	l Address:		
5.	Owner/Authorized	Representative States	ment:		
	this air permit app reasonable inquiry complete and that, application are bas pollutant emissions will be operated ar of air pollutant em Department of Envidentified in this ap granted by the depa department, and I was	plication. I hereby cer y, that the statements to to the best of my know sed upon reasonable to s units and air pollution and maintained so as to issions found in the stand prication to which the artment, cannot be tre	tify, basea made in the wledge, an techniques on control o comply w atutes of te n and revise facility is	on informatis application by estimates of for calculating equipment do the State of Fisions thereof subject. I unwithout authout authout	of the facility addressed in ion and belief formed after in are true, accurate and of emissions reported in this ing emissions. The air elescribed in this application cable standards for control florida and rules of the and all other requirements and erstand that a permit, if orization from the ele or legal transfer of the
	Signature			Date	

Application Responsible Official Certification

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

1. C u	Application Responsible Official all libreath Bayside Power Station	Name: Wade A. Maye,	General	Manager – H. L.		
2.	Application Responsible Official	Qualification (Check on	e or mor	e of the following		
	options, as applicable):					
	For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.					
	☐ For a partnership or sole propriet	orship, a general partner o	r the prop	rietor, respectively.		
	For a municipality, county, state,		gency, eitl	ner a principal executive		
	officer or ranking elected official			e e		
	The designated representative at					
3.	Application Responsible Official I Organization/Firm: Tampa Electronic					
	•	• •				
	Street Address: P. O. Box 111		7:	. C. J., 22/01 0111		
	City: Tampa	State: FL	Zij	Code: 33601-0111		
-	1 1 1 5 5 11 6 6 7 1 1 5	- 1				
4.	Application Responsible Official 7 Telephone: (813) 641-5403	Telephone Numbers ext.	Fax:	(813) 630 – 5351		
		ext.		<u> </u>		
	Telephone: (813) 641-5403	ext. Email Address: <u>wamay</u> e		<u> </u>		
5. 6.	Application Responsible Official I Application Responsible Official I I, the undersigned, am a responsible application. I hereby certify, based of the statements made in this application knowledge, any estimates of emissions techniques for calculating emissions equipment described in this application applicable standards for control of air Florida and rules of the Department of the applicable requirements identify understand that a permit, if granted by from the department, and I will promy facility or any permitted emissions under the compliance with all applicable in compliance plan(s) submitted with	ext. Email Address: wamaye Certification: official of the Title V source on information and belief for are true, accurate and of its reported in this applicate The air pollutant emission on will be operated and m its pollutant emissions four off Environmental Protection its ded in this application to v by the department, cannot putly notify the department it. Finally, I certify that t requirements to which the	ce address. Complete ion are be aintained and in the son and rewhich the be transfer upon sale he facility ey are sub	sed in this air permit er reasonable inquiry, that and that, to the best of my ased upon reasonable and air pollution control so as to comply with all tatutes of the State of visions thereof and all Title V source is subject. I erred without authorization to or legal transfer of the and each emissions unit oject, except as identified		
5. 6.	Application Responsible Official I Application Responsible Official I I, the undersigned, am a responsible application. I hereby certify, based of the statements made in this application knowledge, any estimates of emissions techniques for calculating emissions. equipment described in this application applicable standards for control of at Florida and rules of the Department of other applicable requirements identify understand that a permit, if granted be from the department, and I will promp facility or any permitted emissions under the compliance with all applicable	ext. Email Address: wamaye Certification: official of the Title V source in information and belief for are true, accurate and constructed in this applicate. The air pollutant emission will be operated and mair pollutant emissions found for Environmental Protection of Environmental Protection of the department, cannot to the department, cannot with motify the department in Finally, I certify that the requirements to which the this application.	ce address. Complete ion are be aintained and in the son and rewhich the be transfer upon sale he facility ey are sub	sed in this air permit er reasonable inquiry, that and that, to the best of my ased upon reasonable and air pollution control so as to comply with all tatutes of the State of visions thereof and all Title V source is subject. I erred without authorization to or legal transfer of the vand each emissions unit		

DEP Form No. 62-210.900(1) – Form Effective: 06/16/03

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: FL Zip Code: 32606-5004
3.	Professional Engineer Telephone Numbers
	Telephone: (352) 332-0444 ext. Fax: (352) 332-6722
4.	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 \boxtimes , 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 \square , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here \square , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.
	(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here , so). I further certify that, with the exception of any changes detailed as part of this application, leach such emissions unit has been constructed or modified in substantial accordance with the information given, is the corresponding application for air construction permit and with all provisions contained in such permit. Signature Date
30	The state of the s

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^{*} Attachamy exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

ility Latitude/Longitude N/A itude (DD/MM/SS) igitude (DD/MM/SS)			
ility Major 6. Facility SIC(s): up SIC Code: 4911			
Group SIC Code: 4911 49			

Facility Contact

1.	Facility Con	itact Name:				
	Elena Vanc	e, Environmental Coor	dinator			
2.	•	tact Mailing Address				
	Organization	n/Firm: Tampa Electric	Company	7		
	Street Ac	ddress: Port Sutton Roa	d			
		City: Tampa	State:	FL	Zip Co	ode: 33619
3.	Application	Contact Telephone Num	bers			
	Telephone:	(813) 641-5595	ext.	Fax:	(813) 641-5566	
4.	Application	Contact Email Address:	eavance(a)teco	energy.com	

Facility Primary Responsible Official N/A

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

1.	Facility Primary R	espons	ible Offic	cial Name:						
2.	Facility Primary R	espons	ible Offic	cial Mailing A	Address					
	Organization/Firm	ı:								
	Street Address:									
	Cit	y:		State:			Zip Co	de:		
3.	Facility Primary R	espons	ible Offic	cial Telephon	e Number	s				
	Telephone: ()	-	ext.	Fax:	()	-		
4.	Facility Primary R	.esponsi	ble Offic	cial Email Ad	dress:					

Facility Regulatory Classifications

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

1. Small Business Stationary Source Unknown
2. Synthetic Non-Title V Source
3. Title V Source
4. Major Source of Air Pollutants, Other than Hazardous 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 Part 60)
9. One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)
10. One or More Emissions Units Subject to NESHAP (40 CFR Part 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 combustion turbines that were constructed after October 3, 1977. This NSPS has NO _x and SO ₂ emission limits only. Bayside Power Station is not a major source of HAPs, therefore the Combustion Turbine NESHAP, 40 CFR Part 63, Subpart YYYY, does not apply.

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap
NO _X	A	[Y or N]? N
СО	A	N
PM	A	N
PM ₁₀	. A	N
SO ₂	A	N
SAM	A	N
VOC .	· A	N
,		

B. EMISSIONS CAPS N/A

		Emissions Caps	4 171	6 A 1	C Desir C
1. Pollutant Subject to Emissions	2. Facility Wide Cap	3. Emissions Unit ID No.s Under Cap	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
Cap 	[Y or N]? (all units)	(if not all units)			
				_	
		_			
		_		_	
		_			
7. Facility-Wi	de or Multi-Uni	t Emissions Cap C	omment:		

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: A-1, A-2 Previously Submitted, Date:
2.	
2.	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: A-3, A-4 Previously Submitted, Date:
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all
İ	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: A-5 Previously Submitted, Date:
<u>A c</u>	ditional Requirements for Air Construction Permit Applications N/A
1.	Area Map Showing Facility Location:
	Attached, Document ID: Not Applicable
2.	Description of Proposed Construction or Modification:
	Attached, Document ID:
3.	Rule Applicability Analysis:
	Attached, Document ID: Not Applicable
4.	List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):
	Attached, Document ID: Not Applicable
_	
5.	Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.):
	Attached, Document ID: Not Applicable
6.	Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.):
	Attached, Document ID: Not Applicable
7.	Ambient Impact Analysis (Rule 62-212.400(5)(d), F.A.C.):
	Attached, Document ID: Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212,400(5)(h)5., F.A.C.):
9.	
10	<u> </u>
10.	
8. 9.	Attached, Document ID: Not Applicable Air Quality Impact since 1977 (Rule 62-212.400(5)(h)5., F.A.C.): Attached, Document ID: Not Applicable Additional Impact Analyses (Rules 62-212.400(5)(e)1. and 62-212.500(4)(e), F.A.C.):

DEP Form No. 62-210.900(1) – Form

Additional Requirements for FESOP Applications N/A
1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):
Attached, Document ID: Not Applicable
Additional Requirements for Title V Air Operation Permit Applications
List of Insignificant Activities (Required for initial/renewal applications only): Attached, Document ID: Not Applicable
 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: A-6-1, A-6-2 Not Applicable
3. Compliance Report and Plan (Required for all initial/revision/renewal applications): Attached, Document ID: A-7 Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
 4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only): Attached, Document ID: Equipment/Activities On site but Not Required to be Individually Listed Not Applicable
5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only):
Attached, Document ID: Not Applicable
6. Requested Changes to Current Title V Air Operation Permit: Attached, Document ID: Not Applicable
Additional Requirements Comment

DEP Form No. 62-210.900(1) – Form Effective: 06/16/03

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)									
	 ☑ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. ☑ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 									
En	nissions Unit	Description and Sta	<u>itus</u>	V.						
1.	•									
				lresses, as a single em es which produce fugi						
	2. Description of Emissions Unit Addressed in this Section: One combined-cycle combustion turbine generator (CT-1A) having a nominal rating of 169 megawatts (MW). The CT is fired exclusively using pipeline quality natural gas.									
3.	Emissions U	nit Identification Nur	mber: 020		•					
4.	Emissions Unit Status Code: A	5. Commence Construction Date: 04/01/01	6. Initial Startup Date: 03/12/03	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? Yes No					
	. Package Unit: Manufacturer: General Electric Model Number: PG7241(FA)									
	10. Generator Nameplate Rating: 169 MW									
11.	Emissions Ur	nit Comment:								

EMISSIONS UNIT INFORMATION Section [1] of [7]

	Emissions	Unit	Control	Eq	uip	omen	ı
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Similar on Equipment
1. Control Equipment/Method(s) Description:
NO _x Controls
Dry low-NOx combustors
Selective Catalytic Reduction (SCR)
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x combustors), 065 (catalytic reduction)

EMISSIONS UNIT INFORMATION Section [1] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.) **Emissions Unit Operating Capacity and Schedule**

2.		
, ~·	Maximum Production Rate: N/A	
3.	Maximum Heat Input Rate: 1,842 (HHV) million Btu/hr	•
4.	Maximum Incineration Rate: pounds/hr N/A	
	tons/day	
5.	Requested Maximum Operating Schedule: 24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
-		
	Operating Capacity/Schedule Comment: [aximum heat input is based on higher heating value (HHV) ad and 59 °F. Heat input will vary with load and ambient te	- C
M	aximum heat input is based on higher heating value (HHV)	- C
M	aximum heat input is based on higher heating value (HHV)	- C
M	aximum heat input is based on higher heating value (HHV)	- C

EMISSIONS UNIT INFORMATION

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

Identification of Point on Flow Diagram: CT-1A	Plot Plan or	2. Emission Point 7	Гуре Code:
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:
N/A			
·			
4. ID Numbers or Description N/A	ons of Emission U	nits with this Emission	n Point in Common:
 Discharge Type Code: V 	6. Stack Height 150 feet	:	7. Exit Diameter: 19.0 feet
8. Exit Temperature: 220 °F	9. Actual Volum 1,030,000 ac	metric Flow Rate: fm	10. Water Vapor: % N/A
11. Maximum Dry Standard F dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:
13. Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/MI	Latitude/Longitude M/SS)
North (km)	:	Longitude (DD/N	MM/SS)
15. Emission Point Comment:	••		
Stack temperature and flow Stack temperature and flow			-

EMISSIONS UNIT INFORMATION Section [1] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):									
Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.									
			•	•					
2. Source Classification Cod	le (SCC):	3. SCC Units							
20100201		Million Cu	ıbic	Feet Burned					
4. Maximum Hourly Rate: 1.934	5. Maximum 16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A					
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit: 925					
10. Segment Comment:									
Fuel heat content (Field 9)	represents lower	r heating value.							
,	•	C							
·									
Seamont Description and De	ata. Saamant	of							
Segment Description and R									
1. Segment Description (Pro	cess/Fuel Type):								
2. Source Classification Cod	le (SCC):	3. SCC Units	:						
4 Manimum Hamilu Datas	5 34.	A 1 D	16	Tainertal Auroral Astinitus					
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	0.	Estimated Annual Activity Factor:					
7. Maximum % Sulfur:	8. Maximum % Ash:			Million Btu per SCC Unit:					
10. Segment Comment:									

EMISSIONS UNIT INFORMATION

Section [1] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1.	Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
	NOV		Device Code	
	NOX	025,065		EL
	CO			EL
	PM		-	EL
	PM10			EL
	SO2			EL
	SAM			EL
	VOC			EL
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions:	4. Synthetically Limited?	П
23.1 lb/hour 101.2	tons/year Yes No	
5. Range of Estimated Fugitive Emissions (as	s applicable):	
to tons/year	·	
6. Emission Factor:	7. Emissions	
- 0	Method Code:	
Reference:	0	
8. Calculation of Emissions:		
		-
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:	\sqcap

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 2

2. Future Effective Date of Allowable						
Emissions: N/A						
4. Equivalent Allowable Emissions:						
23.1 lb/hour 101.2 tons/year						
5. Method of Compliance:						
EPA Reference Method 7E (initial) or NO _x CEMS						
of Operating Method):						
EPA/TEC Consent Decree; Also subject to less stringent NO _x limits of 40 CFR 60.332						

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date Emissions: N/A	e of Allowable				
3.	Allowable Emissions and Units: N/A	4.	Equivalent Allowable 23.1 lb/hour					
5.	EPA Reference Method 7E (initial)							
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A	of (perating Method):					

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1.	Pollutant Emitted: CO	2. Total Percent Efficien	cy of Control: N/A
3.	Potential Emissions:		tically Limited?
	28.7 lb/hour 125.7	tons/year Yes	s 🗵 No
5.	Range of Estimated Fugitive Emissions (as	applicable):	
	to tons/year		
6.	Emission Factor: 28.7 lb/hr		7. Emissions
ъ.	· ·		Method Code:
	ference:		0
8.	Calculation of Emissions:		
9.	Pollutant Potential/Estimated Fugitive Emiss	sions Comment:	
	č		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable				
	RULE		Emissions: N/A				
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	7.8 ppmvd @ 15% O ₂		28.7 lb/hour 125.7 tons/year				
5.	Method of Compliance:						
	EPA Reference Method 10 or CO CEMS (initi	al)				
6.	Allowable Emissions Comment (Description of Operating Method):						
	Air Permit No. PSD-FL-301A;						
	62-212.4 <u>00(BACT)</u> ; F.A.C.						

Allowable Emissions Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable			
	RULE		Emissions: N/A			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:			
	N/A		28.7 lb/hour N/A tons/year			
5.	Method of Compliance:					
	EPA Reference Method 10 or CO CEMS (initial)					
6.	Allowable Emissions Comment (Description of Operating Method):					
	Air Permit No. PSD-FL-301A;					
	62-212.400(BACT); F.A.C.					

Allowable Emissions Allowable Emissions 3 of 3

1.	RULE	2. Future Effective Date of Allowable Emissions: N/A								
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:							
	9.0 ppmvd @ 15% O ₂ , 24-hour block		N/A lb/hour N/A tons/year							
av	erage									
5.	5. Method of Compliance:									
	CO CEMS									
6.	Allowable Emissions Comment (Description	of (Operating Method):							
	Air Permit No. PSD-FL-301A;									
	62-212.400(BACT); F.A.C.									

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

thetically Limited? Yes ⊠ No								
-								
7. Emissions								
Method Code:								
2								
d 18 °F. Annual								
9. Pollutant Potential/Estimated Fugitive Emissions Comment: PM emissions represent filterable and condensable particulate matter as measured by EPA reference methods 201 and 202.								
/1								

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

 Basis for Allowable Emissions Code: RULE 	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year
5. Method of Compliance: EPA Reference Method 9	
6. Allowable Emissions Comment (Descri	ption of Operating Method):

<u>Allowable Emissions</u>	Allowable Emissions	<u>of</u>	
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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 (Descriptio	n of Operating Method):						

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A					
3. Potential Emissions:		4. Synthetically Limited?				
20.5 lb/hour 88.9	tons/year	☐ Yes ⊠ No				
5. Range of Estimated Fugitive Emissions (as	applicable):					
to tons/year						
6. Emission Factor: 20.5 lb/hr		7. Emissions				
		Method Code:				
Reference: Sargent & Lundy		. 2				
8. Calculation of Emissions:						
Hourly emission rate based on GE						
emissions based on 20.3 lb/hr (100% load an	d 59 °F) for 8,7	60 hr/yr.				
9. Pollutant Potential/Estimated Fugitive Emis	sions Commen	t :				
PM10 emissions represent filterable and						
by EPA reference methods 201 and 202.	•					
PM and PM10 are assumed to be equal.						

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

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: 20.5 lb/hour 88.9 tons/year				
	10% opacity		20.5 lb/hour 88.9 tons/year				
5.	Method of Compliance:						
	EPA Reference Method 9						
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

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	of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A					
3. Potential Emissions: 11.1 lb/hour 45.1	· · · · · · · · · · · · · · · · · · ·	etically Limited? s 🔲 No				
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):					
6. Emission Factor: 11.1 lb/hr Reference: Sargent & Lundy		7. Emissions Method Code: 2				
8. Calculation of Emissions: (2.0 gr S/ 100 scf) x (1.934 x 10 ⁶ ft ³ /l 11.1 lb/hr. Annual emissions based on 10.3 lb	o/hr (100% load and 59 °I					
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:	·				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A									
3.	Allowable Emissions and Units: Pipeline Quality Natural Gas	4.	Equivalent Allowable Emissions: 11.1 lb/hour 45.1 tons/year								
5.	5. Method of Compliance: Fuel analysis for sulfur content per 40 CFR Part 75 requirements.										
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree; Also subject to the less stringent fuel sulfur										

Allowable Emissions	s Allowable Emissions	of	
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	·
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
	Emilionene:
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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POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: SAM			2. Total Percent Efficiency of Control: N/A			
3.	Potential Emissions:		•	4. Synthe	tically Limited?	
	2. 0 lb/hour	8.3	tons/year	Yes Yes	⊠ No	
5.	Range of Estimated Fugitive E	•	applicable):			
	to tons/yea	ar				
6.	Emission Factor: 2.0 lb/hr				7. Emissions	
_					Method Code:	
	ference: Sargent & Lundy				2	
of	Calculation of Emissions: Hourly rate based on 8 SO ₂ to SO ₃ (SCR) and 100 % ove conversions at 100% load	conversion o	f SO ₃ to H ₂ SO	-		

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POLLUTANT DETAIL INFORMATION Page [12] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 1

THOWADIC EMISSIONS THOWADIC EMISSIONS TO T						
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A					
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:					
Pipeline Quality Natural Gas	2.0 lb/hour 8.3 tons/year					
5. Method of Compliance:	Method of Compliance:					
Fuel analysis for sulfur content per 40 C	Fuel analysis for sulfur content per 40 CFR Part 75 requirements.					
•						
6. Allowable Emissions Comment (Descripti	. Allowable Emissions Comment (Description of Operating Method):					
Air Permit No. PSD-FL-301A;						
DEP/TEC Consent Final Judgement;	DEP/TEC Consent Final Judgement;					
EPA/TEC Consent Decree.						
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	of Operating Method):

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [1] of [7] Page [13] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1.	. Pollutant Emitted: VOC			2. Total Percent Efficiency of Control:			
3.	Potential Emiss	sions:			4. Synthe	etically Limited?	
		3.0 lb/hour	12.3	tons/year	☐ Ye	s 🖄 No	
5.	Range of Estim	nated Fugitive Emi	issions (as	applicable):			
	to	tons/year					
6.	Emission Facto	or: 3.0 lb/hr				7. Emissions	
	_					Method Code:	
	ference: Sargen	-				2	
8.	Calculation of						
		emission rate bas				18 °F. Annual	
em	issions based o	n 2.8 lb/hr (100%	load and	59 °F) for 8,76	00 hr/yr.		
9.	9. Pollutant Potential/Estimated Fugitive Emissions Comment:						
	·						

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

	nissions limitation. lowable Emissions Allowable Emissions 1	<u>1</u> of <u>1</u>					
1.	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A					
3.	. Allowable Emissions and Units: 4. Equivalent Allowable Emissions:						
	Efficient combustion design and	3.0 lb/hour 12.3 tons/year					
⊢ —	eration						
5.	Method of Compliance:						
	Compliance with CO standards						
6.	6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.						
<u>All</u>	lowable Emissions Allowable Emissions	<u>o</u> f					
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.	6. Allowable Emissions Comment (Description of Operating Method):						
L							

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G. VISIBLE EMISS	SIONS INFORMATION				
Complete if this emissions unit is or would be emissions limitation.	e subject to a unit-specific visible				
Visible Emissions Limitation: Visible Emiss	ions Limitation 1 of 2				
1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ☐ Rule ☐ Other				
Allowable Opacity: Normal Conditions: Maximum Period of Excess Opacity Allow	xceptional Conditions: % ed: min/hour				
4. Method of Compliance: EPA Reference Method 9, 6-minute average	•				
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.					
	·				
Visible Emissions Limitation: Visible Emissions	ions Limitation 2 of 2				
1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ⊠ Rule □ Other				
3. Allowable Opacity: Normal Conditions: 10 % Ex Maximum Period of Excess Opacity Allow	acceptional Conditions: 20 % 60 min/day				
4. Method of Compliance: EPA Reference Method 9.					
5. Visible Emissions Comment:					
Visible emissions during startup, shutdown or malfunction can exceed 10% opacity for up to ten 6-minute averaging periods per day during which the opacity shall not exceed 20%. Air Permit No. PSD-FL-301A					
Rule 62-212.400(BACT), F.A.C and 62-210.7	00(5), F.A.C.				

EMISSIONS UNIT INFORMATION

EMISSIONS UNIT INFORMATION Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete 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): NOX
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Thermo Environmental		
	Model Number: 42 CLS		Serial Number: 72737-371
5.	Installation Date: 3/15/03	6.	Performance Specification Test Date: 4/23/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain I	Prog	yram).
	(1222 2222		,
Co	ntinuous Monitoring System: Continuous	Mon	nitor <u>2</u> of <u>3</u>
1.	Parameter Code: CO ₂	2.	Pollutant(s): Carbon Dioxide
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Siemens		
	Model Number: Ultramat 6		Serial Number: N1-ND-0876
5.	Installation Date: 3/15/03	6.	Performance Specification Test Date: 4/23/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain F	rog	gram).

EMISSIONS UNIT INFORMATION Section [1] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Thermo Environmental			
	Model Number: 48 C		Serial Number	: 48C-73684-374
5.	Installation Date: 3/15/03	6.	Performance Spec 4/23/03	ification Test Date:
7.	Continuous Monitor Comment:		_	
	Required by Air permit No. PSD-FL-3012	4 .		·
	rioqui ou by riii per inic riot 15D 12 501			
	<u> </u>			
Co	ntinuous Monitoring System: Continuous	Mon	itorof	
1.	Parameter Code:	2.	Pollutant(s):	· · · · · · · · · · · · · · · · · · ·
	CMS Requirement:		Rule	Other
4.	Monitor Information			
	Manufacturer: Model Number:		Serial Number	
5	Installation Date:	6		ification Test Date:
٥.	installation Date.	0.	renormance spec	incation Test Date.
7.	Continuous Monitor Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [7]

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: A-3, A-4 Previously Submitted, Date
2,	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
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: A-8 Previously Submitted, Date
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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: June 4, 2003
	Test Date(s)/Pollutant(s) Tested: See additional requirements comment.
	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

EMISSIONS UNIT INFORMATION N/A Section [1] of [7]

Additional Requirements for Air Construction Permit Applications

And the day of the court we could be the court of the cou
1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
Attached, Document ID: Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and
Rule 62-212.500(4)(f), F.A.C.)
Attached, Document ID: Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
Attached, Document ID: Not Applicable
Additional Requirements for Title V Air Operation Permit Applications
1. Identification of Applicable Requirements
Attached, Document ID: A-6-1, A-6-2
2. Compliance Assurance Monitoring
Attached, Document ID: Not Applicable
3. Alternative Methods of Operation
Attached, Document ID: Not Applicable
4. Alternative Modes of Operation (Emissions Trading)
Attached, Document ID: Not Applicable
5. Acid Rain Part Application
Certificate of Representation (EPA Form No. 7610-1)

Acta Rain Fart (Form 100: 02-210:300(1)(a)) Attached, Document ID:A-13
Previously Submitted, Date:
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
Previously Submitted, Date:
☐ New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
Previously Submitted, Date:
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
Previously Submitted, Date: Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
Previously Submitted, Date:
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
Previously Submitted, Date:
☐ Not Applicable

Section [1] of [7]
Additional Requirements Comment
04/23/03—Ammonia slip, VE, CO, NO _x

EMISSIONS UNIT INFORMATION

EMISSIONS UNIT INFORMATION Section [2] of [7]

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.) 						
	emissions The emis	unit.		ns Unit Information S	Section is a regulated Section is an		
<u>Er</u>	nissions Unit	Description and Sta	atus				
1.	 Type of Emissions Unit Addressed in this Section: (Check one) This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. 						
				lresses, as a single en es which produce fug	nissions unit, one or citive emissions only.		
2. 169	 Description of Emissions Unit Addressed in this Section: One combined-cycle combustion turbine generator (CT-1B) having a nominal rating of 169 megawatts (MW). The CT is fired exclusively using pipeline quality natural gas. 						
3.	Emissions U	nit Identification Nur	mber: 021				
4.	Emissions Unit Status Code: A	5. Commence Construction Date: 04/01/01	6. Initial Startup Date: 03/10/03	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? Yes No		
	9. Package Unit: Manufacturer: General Electric Model Number: PG7241(FA)						
		ameplate Rating: 16	9 MW				
11.	Emissions U	ni Comment:					

EMISSIONS UNIT INFORMATION Section [2] of [7]

Emissions	Unit	Control	$\mathbf{E}q$	ui	pment

1. Control Equipment/Method(s) Description: NO _x Controls Dry low-NOx combustors Selective Catalytic Reduction (SCR) 2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x combustors), 065 (catalytic reduction)	Emissions Unit Control Equipment
Dry low-NOx combustors Selective Catalytic Reduction (SCR) . 2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x	1. Control Equipment/Method(s) Description:
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x	NO _x Controls
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x	Dry low-NOx combustors
	·
	·

EMISSIONS UNIT INFORMATION Section [2] of [7]

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: 1,842 (HHV) million Btu/hr	
4.	Maximum Incineration Rate: pounds/hr N/A	
	tons/day	
5.	Requested Maximum Operating Schedule: 24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
	Operating Capacity/Schedule Comment:	
Ma	Operating Capacity/Schedule Comment: aximum heat input is based on higher heating value (HHV) of nat ad and 59 °F. Heat input will vary with load and ambient tempera	

EMISSIONS UNIT INFORMATION

Section [2] of [7]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

	1	Гуре Code:					
. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:							
ns of Emission Ur	nits with this Emission	n Point in Common:					
6. Stack Height 150 feet	:	7. Exit Diameter: 19.0 feet					
		10. Water Vapor: % N/A					
low Rate:	12. Nonstack Emission Point Height: feet						
rdinates	14. Emission Point I Latitude (DD/M)	Latitude/Longitude M/SS)					
:	Longitude (DD/MM/SS)						
rate will vary wi	th load and ambient	temperature.					
	ns of Emission Un 6. Stack Height 150 feet 9. Actual Volum 1,030,000 actlow Rate: rdinates	ns of Emission Units with this Emission 6. Stack Height: 150 feet 9. Actual Volumetric Flow Rate: 1,030,000 acfm low Rate: 12. Nonstack Emission feet rdinates 14. Emission Point I Latitude (DD/M) Longitude (DD/M)					

EMISSIONS UNIT INFORMATION Section [2] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):											
Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.											
Source Classification Code (SCC): 20100201 3. SCC Units: Million Cubic Feet Burned											
4. Maximum Hourly Rate: 1.934	5. Maximum 16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A							
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit: 925							
10. Segment Comment:	•		•	·							
Fuel heat content (Field 9) 1	represents lower	heating value.									
	_										
Segment Description and Ra		of									
Segment Description (Pro-	cess/Fuel Type):										
2. Source Classification Cod	e (SCC):	3. SCC Units	:								
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:							
7. Maximum % Sulfur:	7. Maximum % Sulfur: 8. Maximum % Ash:										
10. Segment Comment:											
_											

EMISSIONS UNIT INFORMATION

Section [2] of [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
1. Tonatant Emitted	Device Code	Device Code	Regulatory Code
NOV		Bevice Code	
NOX	025,065		EL
CO			EL
PM			EL
PM10			EL
SO2			EL
SAM			EL
VOC			EL
_			

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions:		ynthetically Limited?			
23.1 lb/hour 101.2	tons/year	Yes No			
5. Range of Estimated Fugitive Emissions (as	applicable):				
to tons/year					
6. Emission Factor:		7. Emissions			
D of our or or		Method Code:			
Reference:		0			
8. Calculation of Emissions:					
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: OTHER	2. Future Effective Date of Allowable Emissions: N/A							
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:							
3.5 ppmvd @ 15% O ₂ , 24-hour block	23.1 lb/hour 101.2 tons/year							
average								
5. Method of Compliance:								
EPA Reference Method 7E (initial) or NO.	x CEMS							
6. Allowable Emissions Comment (Description	of Operating Method):							
Air Permit No. PSD-FL-301A;								
DEP/TEC Consent Final Judgement;								
EPA/TEC Consent Decree;								
Also subject to less stringent NO _x limits of 40 CFR 60.332								

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A				
3.	Allowable Emissions and Units: N/A	4.	Equivalent Allowable Emissions: 23.1 lb/hour N/A tons/year			
5.	Method of Compliance: EPA Reference Method 7E (initial)					
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A	of (Operating Method):			

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1.	Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3.	Potential Emissions: 28.7 lb/hour 125.7	4. Synthetically Limited? tons/year ☐ Yes ☒ No
5.	Range of Estimated Fugitive Emissions (as to tons/year	applicable):
	Emission Factor: 28.7 lb/hr	7. Emissions Method Code:
	ference:	-
0.	Calculation of Emissions:	·
9.	Pollutant Potential/Estimated Fugitive Emiss	sions Comment:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code:	ns Code: 2. Future Effective Date of Allowable					
	RULE	Emissions: N/A					
3.	Allowable Emissions and Units:	Emissions and Units: 4. Equivalent Allowable Emis					
	7.8 ppmvd @ 15% O ₂		28.7 lb/hour 125.7 tons/year				
5.	Method of Compliance:						
	EPA Reference Method 10 or CO CEMS (init	[al]				
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable					
	RULE		Emissions: N/A				
3.	Allowable Emissions and Units:	its: 4. Equivalent Allowable Emissions:					
	N/A		28.7 lb/hour N/A tons/year				
5.	Method of Compliance:		_				
	EPA Reference Method 10 or CO CEMS (init	ial)				
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions Allowable Emissions 3 of 3

1.	RULE	Emissions: N/A					
3.	Allowable Emissions and Units:	4.	Equivalent Allowable	e Emissions:			
	9.0 ppmvd @ 15% O ₂ , 24-hour block		N/A lb/hour	N/A tons/year			
av	erage						
5.	Method of Compliance:						
	CO CEMS						
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

POLLUTANT DETAIL INFORMATION Page [5] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 20.5 lb/hour 88.9	4. Synthetically Limited? tons/year
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):
6. Emission Factor: 20.5 lb/hr Reference: Sargent & Lundy	7. Emissions Method Code: 2
8. Calculation of Emissions: Hourly emission rate based on GE of emissions based on 20.3 lb/hr (100% load and	data for 100% load and 18 °F. Annual d 59 °F) for 8,760 hr/yr.
9. Pollutant Potential/Estimated Fugitive Emissipm emissions represent filterable and condense EPA reference methods 201 and 202.	

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POLLUTANT DETAIL INFORMATION Page [6] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

_	n issions limitation. Iowable Emissions Allowable Emissions <u>1</u>	_of _ <u>1</u> _
1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3.	Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year
5.	Method of Compliance: EPA Reference Method 9	
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.	· · · · · · · · · · · · · · · · · · ·
<u>Al</u>	lowable Emissions Allowable Emissions	<u>of</u>
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	of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: PM10	2. Total Pero	cent Efficiency of Control: N/A
3. Potential Emissions:		4. Synthetically Limited?
20.5 lb/hour 88. 5	tons/year	☐ Yes ⊠ No
5. Range of Estimated Fugitive Emissions (as applicable):	
to tons/year		
6. Emission Factor: 20.5 lb/hr		7. Emissions
		Method Code:
Reference: Sargent & Lundy		2
8. Calculation of Emissions:		_
Hourly emission rate based on G		
emissions based on 20.3 lb/hr (100% load a	nd 59 °F) for 8,7	60 hr/yr.
		٠.
9. Pollutant Potential/Estimated Fugitive Em	issions Commen	t:
PM10 emissions represent filterable and		
by EPA reference methods 201 and 202.	1	
PM and PM10 are assumed to be equal.		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

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:
	10% opacity	20.5 lb/hour 88.9 tons/year
5.	Method of Compliance:	
	EPA Reference Method 9	
6.	Allowable Emissions Comment (Description	on of Operating Method):
	Air Permit No. PSD-FL-301A;	,
	62-212.400(BACT); F.A.C.	

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	of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: SO2	2. Total Perc	ent Efficiency of Control: N/A
3. Potential Emissions:		4. Synthetically Limited?
11.1 lb/hour 45.1	tons/year	🗋 Yes 🖄 No
5. Range of Estimated Fugitive Emissions (as	applicable):	
to tons/year		
6. Emission Factor: 11.1 lb/hr		7. Emissions
Reference: Sargent & Lundy		Method Code:
8. Calculation of Emissions: (2.0 gr S/ 100 scf) x (1.934 x 10 ⁶ ft ³ // 11.1 lb/hr. Annual emissions based on 10.3 lb	o/hr (100% load	d and 59 °F) for 8,760 hr/yr.
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment	t:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

<u>Al</u>	lowable Emissions Allowable Emissions1	<u>l_of_1</u>
1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3.	Allowable Emissions and Units: Pipeline Quality Natural Gas	4. Equivalent Allowable Emissions: 11.1 lb/hour 45.1 tons/year
5.	Method of Compliance: Fuel analysis for sulfur content per 40 CF	R Part 75 requirements.
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree; Also subject to the less stringent fuel sulfu	
<u>Al</u>	lowable Emissions Allowable Emissions	<u>o</u> f
	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:	Equivalent Allowable Emissions: 2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [2] of [7] Page [11] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1. Pollutant Emitted: SA	AM	2. Total Perce	ent Efficier	ncy of Control: N/A
3. Potential Emissions:				etically Limited?
2.0 lb/	hour 8.3	tons/year	☐ Ye	s 🖾 No
5. Range of Estimated F	•	s applicable):		
to	tons/year			
6. Emission Factor: 2.01	b/hr			7. Emissions
7.0				Method Code:
Reference: Sargent & Lu	ındy			2
8. Calculation of Emission				
Hourly rate ba of SO ₂ to SO ₃ (SCR) and above conversions at 100		of SO ₃ to H ₂ SO ₄	·	•
9. Pollutant Potential/Est	imated Fugitive Emis	ssions Comment	:	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

2. Future Effective Date of Allowable Emissions: N/A
4. Equivalent Allowable Emissions:
2.0 lb/hour 8.3 tons/year
R Part 75 requirements.
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	of Operating Method):

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [2] of [7] Page [13] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

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

1.	Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:				
3.	Potential Emissions:		4. Synthe	etically Limited?		
	3.0 lb/hour 12.3	tons/year	☐ Ye	s 🖄 No		
5.	Range of Estimated Fugitive Emissions (as	applicable):		5		
	to tons/year					
6.	Emission Factor: 3.0 lb/hr			7. Emissions		
				Method Code:		
Re	ference: Sargent & Lundy			2		
8.	Calculation of Emissions:					
	Hourly emission rate based on GE			18 °F. Annual		
em	issions based on 2.8 lb/hr (100% load and	59 °F) for 8,76	0 hr/yr.			
9.	Pollutant Potential/Estimated Fugitive Emiss	sions Comment	::			
			_			

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POLLUTANT DETAIL INFORMATION Page [14] of [14]

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

al

Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: Efficient combustion design and operation	4. Equivalent Allowable Emissions: 3.0 lb/hour 12.3 tons/year
5. Method of Compliance: Compliance with CO standards	'
6. Allowable Emissions Comment (Descrip Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	tion of Operating Method):
Air Permit No. PSD-FL-301A;	· · · · · · · · · · · · · · · · · · ·
Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	· · · · · · · · · · · · · · · · · · ·
Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C. Allowable Emissions Allowable Emissions	of
Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C. Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code:	of 2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:

G. VISIBLE EMISS	IONS INFORMATION
Complete if this emissions unit is or would be emissions limitation.	e subject to a unit-specific visible
Visible Emissions Limitation: Visible Emissi	ons Limitation 1 of 2
Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ⊠ Rule □ Other
3. Allowable Opacity: Normal Conditions: 10% Ex Maximum Period of Excess Opacity Allower	aceptional Conditions: % ed: min/hour
4. Method of Compliance: EPA Reference Method 9, 6-minute average.	
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	
Visible Emissions Limitation: Visible Emission	ons Limitation 2 of 2
1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 10 % Ex Maximum Period of Excess Opacity Allower	ceptional Conditions: 20 % 60 min/day
4. Method of Compliance: EPA Reference Method 9.	
5. Visible Emissions Comment:	
Visible emissions during startup, shutdown of up to ten 6-minute averaging periods per day 20%. Air Permit No. PSD-FL-301A Rule 62-212.400(BACT), F.A.C and 62-210.79	during which the opacity shall not exceed

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EMISSIONS UNIT INFORMATION

Section [2] of [7]

EMISSIONS UNIT INFORMATION Section [2] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Thermo Environmental		Social Newsham 72742 271
	Model Number: 42 CLS		Serial Number: 72742-371
5.	Installation Date: 3/15/03	6.	Performance Specification Test Date: 4/17/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain I	Prog	gram).
Co	ntinuous Monitoring System: Continuous	Mon	nitor <u>2</u> of <u>3</u>
1.	Parameter Code: CO ₂	2.	Pollutant(s): Carbon Dioxide
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Siemens		
	Model Number: Ultramat 6		Serial Number: N1-ND-0870
5.	Installation Date: 3/15/03	6.	Performance Specification Test Date: 4/17/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain P	rog	ram).

EMISSIONS UNIT INFORMATION Section [2] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete 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 O	ther
4.	Monitor Information Manufacturer: Thermo Environmental		
	Model Number: 48 C	Serial Number: 48C-	
5.	3/15/03	Performance Specification 4/17/03	on Test Date:
7.	Continuous Monitor Comment:		
	Required by Air permit No. PSD-FL-3012		
Co	ntinuous Monitoring System: Continuous	onitorof	
1.	Parameter Code:	. Pollutant(s):	
3.			
	CMS Requirement:	Rule Ot	her
4.	CMS Requirement: Monitor Information Manufacturer:	Rule Ot	her
	Monitor Information Manufacturer: Model Number:	Serial Number:	·
	Monitor Information Manufacturer:		·
5.	Monitor Information Manufacturer: Model Number:	Serial Number:	·
5.	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:	·
5.	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:	·
5.	Monitor Information Manufacturer: Model Number: Installation Date:	Serial Number:	·

EMISSIONS UNIT INFORMATION Section [2] of [7]

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: A-3, A-4 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
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: A-8 Previously Submitted, Date
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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: June 4, 2003 Test Date(s)/Pollutant(s) Tested: See additional requirements comment.
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	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

EMISSIONS UNIT INFORMATION N/A

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	$\mathbf{A}\mathbf{d}$	ditional	Requ	irements	for.	Air	Construction	Peri	nit A	pplications
--	------------------------	----------	------	----------	------	-----	--------------	------	-------	-------------

1.	Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7),
	F.A.C.; 40 CFR 63.43(d) and (e)) Attached, Document ID: Not Applicable
2.	Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and
∠.	Rule 62-212.500(4)(f), F.A.C.)
	Attached, Document ID: Not Applicable
3.	Description of Stack Sampling Facilities (Required for proposed new stack sampling
	facilities only)
	Attached, Document ID: Not Applicable
	Iditional Requirements for Title V Air Operation Permit Applications
1.	Identification of Applicable Requirements Attached, Document ID: A-6-1, A-6-2
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
-	Acid Rain Part Application
٥.	Certificate of Representation (EPA Form No. 7610-1)
	Copy Attached, Document ID:A-12
	Acid Rain Part (Form No. 62-210.900(1)(a))
	Previously Submitted, Date:
	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
	Attached, Document ID:
	Previously Submitted, Date:
	New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
	Previously Submitted, Date:
•	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
	Attached, Document ID:
	Previously Submitted, Date:
	Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
	Attached, Document ID:
	Previously Submitted, Date:
	Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
	Previously Submitted, Date:
	Not Applicable

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Additional Requirements Comment
04/17/03—Ammonia slip, VE, CO, NO _x

EMISSIONS UNIT INFORMATION

EMISSIONS UNIT INFORMATION Section [3] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification						
Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)						
 ☑ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. ☑ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 						
nissions Unit	Description and Sta	<u>itus</u>			,	
This Emi process of which ha	ssions Unit Informat or production unit, or s at least one definab ssions Unit Informat or production units an	ion Section add activity, which ale emission posi- ion Section add ad activities who	lress pro- int (s lress ich h	es, as a single em duces one or more stack or vent). es, as a single em as at least one de	e air pollutants and aissions unit, a group of	
					•	
One combin	ed-cycle combustion	n turbine gene	rato	r (CT-1C) havin	_	
Emissions U	nit Identification Nur	mber: 022				
Emissions Unit Status Code: A	5. Commence Construction Date: 04/01/01	6. Initial Startup Date: 03/09/03	7.	Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? X Yes No	
•				1111 1 205	241/E4)	
			MOC	lei Number: PG/	241(FA)	
						
	·					
	Regulated or renewal Title permit or FE The emissions of the emissions of the emissions unregulated the missions Unit Type of Emissions Unit Type of Emissions Unit Emissions of the emissions unit Status Code: A Package Unit Manufacturer Generator N	Regulated or Unregulated Emissic renewal Title V air operation per permit or FESOP only.) The emissions unit addressed emissions unit. The emissions unit addressed unregulated emissions unit. Type of Emissions Unit Addresses Type of Emissions Unit Informat process or production unit, or which has at least one definable. This Emissions Unit Informat process or production units and (stack or vent) but may also put the Emissions Unit Informat more process or production units and (stack or vent) but may also put the Emissions Unit Informat more process or production units and (stack or vent) but may also put the Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Emissions Unit Identification Number 19 megawatts (MW). The CT is find Identification Number 19 megawatts (MW). The CT is find Identification Number 19 megawatts (MW). The CT is find Identification Number 19 megawatts (MW). The CT is find Identification Number 19 megawatts (MW). The CT is find Identification Number 19 megawatts (MW).	Regulated or Unregulated Emissions Unit? (Cherenewal Title V air operation permit. Skip this it permit or FESOP only.) The emissions unit addressed in this Emission emissions unit. The emissions unit addressed in this Emission unregulated emissions unit. Type of Emissions Unit Addressed in this Section addressed in this Emissions Unit Information Section addressed process or production unit, or activity, which which has at least one definable emission point of Emissions Unit Information Section addressed or vent) but may also produce fugitive that (stack or vent) but may also produce fugitive one process or production units and activities which (stack or vent) but may also produce fugitive one process or production units and activities one process or production units and activities one combined-cycle combustion turbine general emissions Unit Identification Number: 022 Regulated or Unregulated Emissions Unit? (Check or renewal Title V air operation permit. Skip this item is permit or FESOP only.) The emissions unit addressed in this Emissions Unit Emissions unit. The emissions unit addressed in this Emissions Unit Emissions Unit Addressed in this Emissions Unit Information Section address process or production unit, or activity, which proceed which has at least one definable emission point (stack or vent) but may also produce fugitive emistions Unit Information Section address process or production units and activities which is (stack or vent) but may also produce fugitive emistions Unit Information Section address more process or production units and activities with the (stack or vent) but may also produce fugitive emister of Emissions Unit Information Section address more process or production units and activities with Description of Emissions Unit Addressed in this Section One combined-cycle combustion turbine generator megawatts (MW). The CT is fired exclusively using Emissions Emissions 5. Commence One combined Construction Code: Date: Date: Date: Date: Date: Moderator Nameplate Rating: 169 MW	Regulated or Unregulated Emissions Unit? (Check one, if applying for renewal Title V air operation permit. Skip this item if applying for an permit or FESOP only.) The emissions unit addressed in this Emissions Unit Information Semissions unit. The emissions unit addressed in this Emissions Unit Information Sunregulated emissions unit. Title emissions Unit Addressed in this Section: (Check one) Type of Emissions Unit Addressed in this Section: (Check one) This Emissions Unit Information Section addresses, as a single emprocess or production unit, or activity, which produces one or more which has at least one definable emission point (stack or vent). This Emissions Unit Information Section addresses, as a single emprocess or production units and activities which has at least one deficated or vent) but may also produce fugitive emissions. This Emissions Unit Information Section addresses, as a single emmore process or production units and activities which produce fug Description of Emissions Unit Addressed in this Section: One combined-cycle combustion turbine generator (CT-1C) having megawatts (MW). The CT is fired exclusively using pipeline quality Emissions Unit Identification Number: 022 Emissions 5. Commence 6. Initial 7. Emissions Unit Identification Number: 022 Emissions Unit Identification Startup Odde: Date: Date: SIC Code: A 04/01/01 03/09/03 49 Package Unit: Manufacturer: General Electric Model Number: PG7 Generator Nameplate Rating: 169 MW		

EMISSIONS UNIT INFORMATION Section [3] of [7]

Emissions	Unit	Control	Ec	ui	pment

Emissions one control Equipment	
1. Control Equipment/Method(s) Description:	
NO _x Controls	
Dry low-NOx combustors	
Selective Catalytic Reduction (SCR)	
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x	
combustors), 065 (catalytic reduction)	

EMISSIONS UNIT INFORMATION Section [3] of [7]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.) **Emissions Unit Operating Capacity and Schedule**

Maximum heat input is based on higher heating value (HHV) of natural gas at 100% load and $59^{\circ}F$. Heat input will vary with load and ambient temperature.								

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

n:			
r:			
12. Nonstack Emission Point Height: feet			
14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)			
Longitude (DD/MM/SS)			
f 59°F.			

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):									
Co	Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.									
2.	Source Classification Cod 20100201	e (SCC):	3. SCC Units Million Co		Feet Burned					
4.	Maximum Hourly Rate: 1.934	5. Maximum . 16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A					
7.	Maximum % Sulfur:	8. Maximum (% Ash:	9.	Million Btu per SCC Unit: 925					
10.	Segment Comment:			•						
Fu	el heat content (Field 9) 1	epresents lower	heating value.							
	gment Description and Ra		of							
1.	Segment Description (Pro-	cess/Fuel Type):								
2.	Source Classification Code	e (SCC):	3. SCC Units	:	·					
4.	Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6.	Estimated Annual Activity Factor:					
7.	Maximum % Sulfur:	8. Maximum 9	% Ash:	9.	Million Btu per SCC Unit:					
10.	Segment Comment:									

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
NOX	025,065		EL
СО			EL
PM			EL
PM10			EL
SO2			EL
SAM			EL
VOC		-	EL
_		-	
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitt	ed: NOX		2. Total Percent Efficiency of Control: N/A			
3.	Potential Emiss	sions:			4. Synth	etica	ally Limited?
		23.1 lb/hour	101.2	tons/year	Ye	s	No
5.	Range of Estim	ated Fugitive Em	nissions (as	applicable):			
	to	tons/year					
6.	Emission Facto	r:	- 1.			7.	*.
_	C						Method Code:
	ference:						0
8.	Calculation of I	Emissions:					
9.	Pollutant Potent	tial/Estimated Fu	gitive Emis	sions Commen	ıt:		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 2

2. Future Effective Date of Allowable Emissions: N/A									
4. Equivalent Allowable Emissions: 23.1 lb/hour 101.2 tons/year									
23.1 lb/hour 101.2 tons/year									
5. Method of Compliance:									
EPA Reference Method 7E (initial) or NO _x CEMS									
n of Operating Method):									
, , , , , , , , , , , , , , , , , , ,									
EPA/TEC Consent Decree; Also subject to less stringent NO _x limits of 40 CFR 60.332									

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A					
3.	Allowable Emissions and Units:	4.	Equiv	valent Allowa	able Emissions:		
	N/A		23.1	lb/hour	N/A tons/year		
5.	Method of Compliance:						
	EPA Reference Method 7E (initial)						
6.	Allowable Emissions Comment (Description	of (Operat:	ing Method):			
	Air Permit No. PSD-FL-301A						

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficien	cy of Control: N/A
3. Potential Emissions:	1 —	tically Limited?
28.7 lb/hour 125.7	tons/year Yes	No No
5. Range of Estimated Fugitive Emissions (as	applicable):	
to tons/year	•	
6. Emission Factor: 28.7 lb/hr		7. Emissions Method Code:
Reference:		0
8. Calculation of Emissions:		
		•
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:	_

POLLUTANT DETAIL INFORMATION Page [4] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable							
	RULE	Emissions: N/A							
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:						
	7.8 ppmvd @ 15% O ₂		28.7 lb/hour 125.7 tons/year						
5.	. Method of Compliance:								
	EPA Reference Method 10 or CO CEMS (init	ial)						
6.	Allowable Emissions Comment (Description	of (Operating Method):						
	Air Permit No. PSD-FL-301A;								
	62-212.400(BACT); F.A.C.								

Allowable Emissions Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code:	2.	2. Future Effective Date of Allowable					
	RULE	Emissions: N/A						
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:					
٠.	N/A		28.7 lb/hour N/A tons/year					
5.	Method of Compliance:							
	EPA Reference Method 10 or CO CEMS (init	ial)					
6.	Allowable Emissions Comment (Description	of (Operating Method):					
	Air Permit No. PSD-FL-301A;							
	62-212.400(BACT); F.A.C.							

Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	2. Future Effective Date of Allowable Emissions: N/A				
3.	Allowable Emissions and Units:	4.	Equivalent Allowab	ole Emissions:			
	9.0 ppmvd @ 15% O ₂ , 24-hour block		N/A lb/hour	N/A tons/year			
av	erage						
5.	Method of Compliance:						
	CO CEMS						
6.	Allowable Emissions Comment (Description	of (Operating Method):	-			
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions:		4. Synthetically Limited?			
20.5 lb/hour 88.9	tons/year	Yes No			
5. Range of Estimated Fugitive Emissions (as	applicable):				
to tons/year					
6. Emission Factor: 20.5 lb/hr		7. Emissions			
		Method Code:			
Reference: Sargent & Lundy		2			
8. Calculation of Emissions:					
Hourly emission rate based on GE					
emissions based on 20.3 lb/hr (100% load and	d 59 °F) for 8, 7	760 hr/yr.			
O Pollytent Petential/Estimated Estimated	aiona Comercia	4.			
9. Pollutant Potential/Estimated Fugitive Emis					
PM emissions represent filterable and conder EPA reference methods 201 and 202.	isabie particui	late matter as measured by			
El A leielence memous 201 and 202.					
		4.			

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: RULE	2.	2. Future Effective Date of Allowable Emissions: N/A				
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:					
	10% opacity		20.5 lb/hour	88.9 tons/year			
5.	Method of Compliance:						
	EPA Reference Method 9						
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Unit	s: 4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Commer	nt (Description of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted:	PM10		2. Total Perc	ent Efficier	ncy of Control: N/A
3.	Potential Emission	· - •			. <u>~</u>	etically Limited?
	20.	.5 lb/hour 8	8.9	tons/year	∐ Ye	s 🛛 No
5.	Range of Estimated	d Fugitive Emissions	(as	applicable):		
	to	tons/year				
6.	Emission Factor: 2	0.5 lb/hr				7. Emissions
						Method Code:
Re	ference: Sargent &	Lundy				2
8.	Calculation of Emi	ssions:				
		ssion rate based on				18 °F. Annual
em	issions based on 20	0.3 lb/hr (100% load	d and	d 59 °F) for 8,7	60 hr/yr.	
	D-11-44 D-44:-1/	/E-4:4-1 E:4: I	7:-	-: C	4.	
9.		Estimated Fugitive E				mattar as massured
by		epresent filterable a thods 201 and 202.	111U (condensable pa	ai ticulate I	natter as measured
•						
PM	l and PM10 are ass	sumed to be equal.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions1	<u>l_</u> of_ <u>1</u>
Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year
5. Method of Compliance: EPA Reference Method 9	
6. Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.	n of Operating Method):
Allowable Emissions Allowable Emissions	<u>o</u> f
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	n of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions:	4. Synthetically Limited?				
11.1 lb/hour 45.1	tons/year Yes No				
5. Range of Estimated Fugitive Emissions (as	applicable):				
to tons/year					
6. Emission Factor: 11.1 lb/hr	7. Emissions				
	Method Code:				
Reference: Sargent & Lundy	2				
11.1 lb/hr. Annual emissions based on 10.3 lb					
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:				

POLLUTANT DETAIL INFORMATION Page [10] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

<u>Al</u>	<u>Allowable Emissions</u> Allowable Emissions <u>1</u> of <u>1</u>								
1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A							
3.	Allowable Emissions and Units: Pipeline Quality Natural Gas 4. Equivalent Allowable Emissions 11.1 lb/hour 45.1 tons/ye								
5.	5. Method of Compliance: Fuel analysis for sulfur content per 40 CFR Part 75 requirements.								
6.	6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree; Also subject to the less stringent fuel sulfur limits of 40 CFR 60.333.								
All	owable Emissions Allowable Emissions	<u>o</u> f							
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.	6. Allowable Emissions Comment (Description of Operating Method):								

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [3] of [7] Page [11] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: SAM		2. Total Percent Efficiency of Control: N/A				
3.	Potential Emissions:			4. Synthetically Limited?			
	2.0 lb/hour	8.3	tons/year	Yes No			
5.	Range of Estimated Fugitive Emiss	sions (as	applicable):				
	to tons/year						
6.	Emission Factor: 2.0 lb/hr			7. Emissions			
	•			Method Code:			
Re	ference: Sargent & Lundy			2			
of ab	SO ₂ to SO ₃ (SCR) and 100 % convove conversions at 100% load and	version o 59 °F fo	f SO3 to H2SO r 8,760 hr/yr.				
9.	Pollutant Potential/Estimated Fugit	ive Emis	sions Commen	t:			

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in	n Subsection 1	F1 is or	would be	subject to a	numerical
emissions limitation.					

Allowable Emissions Allowable Emissions 1 of 1 1. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowable **OTHER** Emissions: N/A 3. Allowable Emissions and Units: 4. Equivalent Allowable Emissions: Pipeline Quality Natural Gas 2.0 lb/hour 8.3 tons/year 5. Method of Compliance: Fuel analysis for sulfur content per 40 CFR Part 75 requirements. 6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; **DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree.** of Allowable Emissions Allowable Emissions 2. Future Effective Date of Allowable 1. Basis for Allowable Emissions Code: **Emissions:** 4. Equivalent Allowable Emissions: 3. Allowable Emissions and Units: lb/hour tons/year 5. Method of Compliance: 6. Allowable Emissions Comment (Description of Operating Method):

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [3] of [7] Page [13] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:		
3. Potential Emissions:		4. Synthe	etically Limited?
3.0 lb/hour 12.3	tons/year	☐ Ye	s 🖄 No
5. Range of Estimated Fugitive Emissions (as	s applicable):		
to tons/year			
6. Emission Factor: 3.0 lb/hr			7. Emissions
			Method Code:
Reference: Sargent & Lundy			2
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 2.8 lb/hr (100% load and	59 °F) for 8,76	0 hr/yr.	18 °F. Annual
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment	t:	

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POLLUTANT DETAIL INFORMATION Page [14] of [14]

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

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

emissions limitation. Allowable Emissions Allowable Emissions 1 of 1					
Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A				
3. Allowable Emissions and Units: Efficient combustion design and operation	4. Equivalent Allowable Emissions: 3.0 lb/hour 12.3 tons/year				
5. Method of Compliance: Compliance with CO standards					
6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.					
Allowable Emissions Allowable Emissions	sof				
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 (Descrip	otion of Operating Method):				

EMISSIONS UNIT INFORMATION Section [3] of [7] G. VISIBLE EMISSI Complete if this emissions unit is or would be emissions limitation. Visible Emissions Limitation: Visible Emissions	•
1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: Rule Other
 Allowable Opacity: Normal Conditions: 10% Ex Maximum Period of Excess Opacity Allower 	ceptional Conditions: % ed: min/hour
4. Method of Compliance: EPA Reference Method 9, 6-minute average.	
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	·
Visible Emissions Limitation: Visible Emission	ons Limitation 2 of 2
1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 10 % Ex Maximum Period of Excess Opacity Allowe	ceptional Conditions: 20 % 60 min/day
4. Method of Compliance: EPA Reference Method 9.	

Visible emissions during startup, shutdown or malfunction can exceed 10% opacity for up to ten 6-minute averaging periods per day during which the opacity shall not exceed

5. Visible Emissions Comment:

Air Permit No. PSD-FL-301A

Rule 62-212.400(BACT), F.A.C and 62-210.700(5), F.A.C.

20%.

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Thermo Environmental		
	Model Number: 42 CLS		Serial Number: 72508-371
5.	Installation Date: 03/11/03	6.	Performance Specification Test Date: 4/18/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain I	Prog	gram).
	ntinuous Monitoring System: Continuous I		
1.	Parameter Code: CO ₂	۷.	Pollutant(s): Carbon Dioxide
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Siemens		
	Model Number: Ultramat 6		Serial Number: N1-ND-0877
5.	Installation Date: 03/11/03	6.	Performance Specification Test Date: 4/18/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain P	rog	gram).
			·

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Thermo Environmental			
	Model Number: 48 C		Serial Number	:: 48C-73685-374
5.	Installation Date: 03/11/03	6.	Performance Spec 4/18/03	cification Test Date:
7.	Continuous Monitor Comment:			_
	Required by Air permit No. PSD-FL-3012	Α.		
Co	ntinuous Monitoring System: Continuous	Mon	itorof	_
1.	Parameter Code:	2.	Pollutant(s):	
3	CMS Requirement:		Rule	Other
4.	Monitor Information			
	Manufacturer: Model Number:		Serial Number	
5	Installation Date:	6		ification Test Date:
٥.	instantation Date.	0.	1 chomance spec	ineation 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: A-3, A-4 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
4.	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)
5.	Attached, Document ID: A-8 Previously Submitted, Date
). 	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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: June 4, 2003
	Test Date(s)/Pollutant(s) Tested: See additional requirements comment.
	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

Additional Requirements for Air Construction Permit Applications

Additional Requirements for Air Construction I crimit Applications
1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
Attached, Document ID: Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and
Rule 62-212.500(4)(f), F.A.C.) Attached Document ID: Not Applicable
Attached, Document ID: Not Applicable 2 Description of Stock Sampling Facilities (Required for proposed new stock sampling)
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
Attached, Document ID: Not Applicable
Additional Requirements for Title V Air Operation Permit Applications
1. Identification of Applicable Requirements
Attached, Document ID: A-6-1, A-6-2
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)
5. Acid Rain Part Application
Certificate of Representation (EPA Form No. 7610-1)

Attached, Document ID: A-13
Previously Submitted, Date:
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID: Previously Submitted, Date:
New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
Previously Submitted, Date:
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
Previously Submitted, Date: Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
Previously Submitted, Date:
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
Previously Submitted, Date:
Not Applicable

Additional	Requirement	ts Comment

04/18/03—Ammonia slip, VE, CO, NO_x

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

•		·				
1.	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 emise emissions		in this Emissic	ons Unit Information S	Section is a regulated	
	☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.					
<u>E</u> r	<u>nissions Unit</u>	Description and Sta	atus .			
1.	Type of Emi	ssions Unit Addresse	ed in this Section	on: (Check one)		
	process o		activity, which	dresses, as a single em produces one or mor int (stack or vent).	• •	
	process o		nd activities wh	ich has at least one de	issions unit, a group of finable emission point	
	This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.					
2.	2. Description of Emissions Unit Addressed in this Section:					
169	One combined-cycle combustion turbine generator (CT-2A) having a nominal rating of 169 megawatts (MW). The CT is fired exclusively using pipeline quality natural gas.					
3.	Emissions Un	nit Identification Nur	mber: 023		· · · · · · · · · · · · · · · · · · ·	
4.	Emissions	5. Commence	6. Initial	7. Emissions Unit	8. Acid Rain Unit?	
	Unit Status	Construction	Startup	Major Group SIC Code:	Yes	
	Code: A	Date: 04/01/01	Date: 09/15/03	49	∐ No	
9.	Package Unit	<u> </u>			<u> </u>	
	Manufacturer: General Electric Model Number: PG7241(FA)					
	10. Generator Nameplate Rating: 169 MW 11. Emissions Unit Comment:				<u> -</u>	
11.	Emissions Ui	nit Comment:				

	<u>Emissions</u>	Unit	Control	Eq	ui	pment
--	------------------	------	---------	----	----	-------

Emissions out Control Equipment
1. Control Equipment/Method(s) Description:
NO _x Controls
Dry low-NOx combustors
Selective Catalytic Reduction (SCR)
·
·
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x combustors), 065 (catalytic reduction)
Combustors), vos (catalytic reduction)

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.) Emissions Unit Operating Capacity and Schedule

2. Maximum Production Rate: N/A

3. Maximum Heat Input Rate: 1,842 (HHV) million Btu/hr

4. Maximum Incineration Rate: pounds/hr N/A

tons/day

5. Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8,760 hours/year

6. Operating Capacity/Schedule Comment:

Maximum heat input is based on higher heating value (HHV) of natural gas at 100% load and 59 °F. Heat input will vary with load and ambient 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 Flow Diagram: CT-2A	Plot Plan or	2. Emission Point 7	Type Code:
3.	Descriptions of Emission	Points Comprising	this Emissions Unit	for VE Tracking:
	N/A			
4.	ID Numbers or Description N/A	ns of Emission Ur	nits with this Emission	Point in Common:
	1771			
5.	Discharge Type Code: V	6. Stack Height 150 feet	:	7. Exit Diameter: 19.0 feet
8.	Exit Temperature: 220 °F	9. Actual Volum 1,030,000 act	netric Flow Rate: fm	10. Water Vapor: % N/A
11.	Maximum Dry Standard F dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:
13.	Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M)	_
	North (km)		Longitude (DD/N	MM/SS)
15.	Emission Point Comment:			
	ck temperature and flow			<u>-</u>
Sta	ck temperature and flow	rate will vary wit	th load and ambient	temperature.

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. 80	1. Segment Description (Process/Fuel Type):											
Com	Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.											
	_											
	ource Classification Cod	de (S	CC):	3. SCC Units Million Cu		Feet Burned						
	aximum Hourly Rate: 934	5.	Maximum 16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A						
7. M	aximum % Sulfur:	8.	Maximum	% Ash:	۰9.	Million Btu per SCC Unit: 925						
10. Se	egment Comment:			,	•							
Fuel l	heat content (Field 9) 1	renr	esents lower	r heating value.								
1 4 61 7		. чр.		mouering variation								
	·											
Segm	ent Description and Ra	ate:	Segment	of								
1. Se	gment Description (Pro	cess	Fuel Type):									
			-									
2 0-	Classification Co. 1	- (9/	20).	2 500 11-3-								
2. 50	ource Classification Cod	ie (50	JC):	3. SCC Units:								
4. M	aximum Hourly Rate:	5.	Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:						
7. M	aximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:						
10. Se	gment Comment:				1							
	_											
						•						

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
NOX	025,065		EL
СО			EL
PM			EL
PM10			EL
SO2			EL
SAM			EL
VOC			EL

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: N/A				
3.	Potential Emissions: 23.1 lb/hour 101.2	tons/year 4. Synth	etically Limited?			
	Range of Estimated Fugitive Emissions (as to tons/year	applicable):				
	Emission Factor: ference:		7. Emissions Method Code:			
			U			
	Calculation of Emissions:					
9.	Pollutant Potential/Estimated Fugitive Emis	sions Comment:				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 2

Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A						
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:						
3.5 ppmvd @ 15% O ₂ , 24-hour block	23.1 lb/hour 101.2 tons/year						
average							
5. Method of Compliance:							
EPA Reference Method 7E (initial) or NO	x CEMS						
6. Allowable Emissions Comment (Description	of Operating Method):						
Air Permit No. PSD-FL-301A;							
DEP/TEC Consent Final Judgement;							
EPA/TEC Consent Decree;							
Also subject to less stringent NO _x limits of 40 CFR 60.332							
•							

<u>Allowable Emissions</u> Allowable Emissions <u>2</u> of <u>2</u>

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A						
3.	Allowable Emissions and Units: 4. Equivalent Allowable Emissions:							
	N/A 23.1 lb/hour N/A tons/ye							
5.	Method of Compliance: EPA Reference Method 7E (initial)							
	EFA Reference Method /E (initial)							
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A	of (Operating Method):					

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: CO	2. Total Percent Efficience				
3.	Potential Emissions:		netically Limited?			
	28.7 lb/hour 125.7	<u> </u>	es 🛛 No			
5.	Range of Estimated Fugitive Emissions (as to tons/year	applicable):				
6.	Emission Factor: 28.7 lb/hr		7. Emissions Method Code:			
Re	ference:		0			
	Calculation of Emissions:		·			
9.	Pollutant Potential/Estimated Fugitive Emiss	sions Comment:				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 3

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:					
	7.8 ppmvd @ 15% O ₂		28.7 lb/hour 125.7 tons/year					
5.	Method of Compliance:							
	EPA Reference Method 10 or CO CEMS (init	ial)					
6.	Allowable Emissions Comment (Description	of (Operating Method):					
	Air Permit No. PSD-FL-301A;							
	62-212.400(BACT); F.A.C.							

Allowable Emissions _ 2 of _ 3

1.	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A					
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	N/A		28.7 lb/hour N/A tons/year				
5.	Method of Compliance:						
	EPA Reference Method 10 or CO CEMS (initi	ial)				
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions Allowable Emissions 3 of 3

1.	RULE	2.	Emissions: N/A
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	9.0 ppmvd @ 15% O ₂ , 24-hour block		N/A lb/hour N/A tons/year
ave	erage		
5.	Method of Compliance:		
	CO CEMS		
6.	Allowable Emissions Comment (Description	of (Operating Method):
	Air Permit No. PSD-FL-301A;		
	62-212.400(BACT); F.A.C.		

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions: 20.5 lb/hour 88.9	tons/year 4. Syntho	etically Limited?			
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):				
6. Emission Factor: 20.5 lb/hr Reference: Sargent & Lundy		7. Emissions Method Code: 2			
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 20.3 lb/hr (100% load an		18 °F. Annual			
9. Pollutant Potential/Estimated Fugitive Emis PM emissions represent filterable and conde EPA reference methods 201 and 202.		as measured by			

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3. Allowable Emissions and Units:

5. Method of Compliance:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

6. Allowable Emissions Comment (Description of Operating Method):

	
Basis for Allowable Emission RULE	s Code: 2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Un 10% opacity	its: 4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year
5. Method of Compliance:	
EPA Reference Method 9	
6. Allowable Emissions Commo Air Permit No. PSD-FL-301 62-212.400(BACT); F.A.C.	ent (Description of Operating Method): A;
Allowable Emissions Allowable	Emissions <u>of</u>
1 Basis for Allowable Emission	S Code: 2 Future Effective Date of Allowable

Emissions:

lb/hour

4. Equivalent Allowable Emissions:

tons/year

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A							
3. Potential Emissions:	4.	<u></u>						
20.5 lb/hour 88.9	tons/year	☐ Yes ⊠ No						
5. Range of Estimated Fugitive Emissions (as applicable):								
to tons/year								
6. Emission Factor: 20.5 lb/hr		7. Emissions						
		Method Code:						
Reference: Sargent & Lundy	2							
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 20.3 lb/hr (100% load and	d 59 °F) for 8,760							
9. Pollutant Potential/Estimated Fugitive Emissions Comment: PM10 emissions represent filterable and condensable particulate matter as measured by EPA reference methods 201 and 202.								
PM and PM10 are assumed to be equal.								

POLLUTANT DETAIL INFORMATION Page [8] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

4.5.	Ilowable Emissions Allowable Emissions	
1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3.	Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year
5.	Method of Compliance: EPA Reference Method 9	
6.	Allowable Emissions Comment (Descript Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.	ion of Operating Method):
Al	lowable Emissions Allowable Emissions	<u>o</u> f
<u>Al</u>	lowable Emissions Allowable Emissions Basis for Allowable Emissions Code:	of 2. Future Effective Date of Allowable Emissions:
	<u> </u>	2. Future Effective Date of Allowable
 3. 	Basis for Allowable Emissions Code:	Equivalent Allowable Emissions: 2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A			
3. Potential Emissions:	4. Synthetically Limited?			
11.1 lb/hour 45.1	tons/year Yes No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 11.1 lb/hr Reference: Sargent & Lundy	7. Emissions Method Code: 2			
11.1 lb/hr. Annual emissions based on 10.3 l				
9. Pollutant Potential/Estimated Fugitive Emi	ssions Comment:			

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: OTHER	Future Effective Date of Allowable Emissions: N/A						
3.	Allowable Emissions and Units: Pipeline Quality Natural Gas	4. Equivalent Allowable Emissions: 11.1 lb/hour 45.1 tons/year						
5.	Method of Compliance:							
	Fuel analysis for sulfur content per 40 CFl	R Pa	art 75 requirements.					
6.	Allowable Emissions Comment (Description	of (Operating Method):					
	Air Permit No. PSD-FL-301A;							
	DEP/TEC Consent Final Judgement;							
	EPA/TEC Consent Decree;							
	Also subject to the less stringent fuel sulfu	r lin	nits of 40 CFR 60.333.					

Allowable Emissio	ns Allowable Emissions	of	
	TIS FILL WADIC LILLISSIONS	O1	

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):

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [4] of [7] Page [11] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions:	<u></u>	etically Limited?			
2.0 lb/hour 8.3	tons/year Ye	s 🛚 No			
5. Range of Estimated Fugitive Emissions (as	applicable):				
to tons/year					
6. Emission Factor: 2.0 lb/hr		7. Emissions Method Code:			
Reference: Sargent & Lundy		2			
8. Calculation of Emissions: Hourly rate based on 8 % conversion of SO ₂ to SO ₃ (SCR) and 100 % conversion o above conversions at 100% load and 59 °F fo	f SO3 to H2SO4. Annual 6 r 8,760 hr/yr.	* *			
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: N/A
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	Pipeline Quality Natural Gas		2.0 lb/hour 8.3 tons/year
5.	Method of Compliance: Fuel analysis for sulfur content per 40 CFR Part 75 requirements.		
6.	Allowable Emissions Comment (Description	of (Operating Method):
	Air Permit No. PSD-FL-301A;		
	DEP/TEC Consent Final Judgement;		
	EPA/TEC Consent Decree.		

	Allowable Emissions	Allowable Emissions	of	
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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):

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [4] of [7] Page [13] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: VOC	2. Total Perc	ent I	Efficie	ncy of Control:
3.	Potential Emissions: 3.0 lb/hour 12.3	tons/year	4.	Synth	etically Limited?
<u> </u>		-			
5.	Range of Estimated Fugitive Emissions (as	applicable):			
	to tons/year				
6.	Emission Factor: 3.0 lb/hr				7. Emissions
	•				Method Code:
Re	ference: Sargent & Lundy				2
8.	Calculation of Emissions:				
	Hourly emission rate based on GE	data for 100%	loa	d and	18 °F. Annual
em	issions based on 2.8 lb/hr (100% load and	59 °F) for 8,76	0 hr	/yr.	
	D 11 D 1 100 1 D D				
9.	Pollutant Potential/Estimated Fugitive Emis	sions Comment	t:		

POLLUTANT DETAIL INFORMATION Page [14] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Al	lowable Emissions Allowable Emissions 1	_of_ <u>1</u> _				
1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A				
	Allowable Emissions and Units: Efficient combustion design and eration	4. Equivalent Allowable Emissions: 3.0 lb/hour 12.3 tons/year				
5.	Method of Compliance: Compliance with CO standards					
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	of Operating Method):				
<u>Al</u>	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.	5. Method of Compliance:					
6.	6. Allowable Emissions Comment (Description of Operating Method):					

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G. VISIBLE EMISS	SIONS INFORMATION			
Complete if this emissions unit is or would be emissions limitation.	e subject to a unit-specific visible			
Visible Emissions Limitation: Visible Emiss	ions Limitation 1 of 2			
Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: Rule Other			
3. Allowable Opacity: Normal Conditions: 10% Examinum Period of Excess Opacity Allow	xceptional Conditions: % ed: min/hour			
4. Method of Compliance: EPA Reference Method 9, 6-minute average	•			
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.				
Visible Emissions Limitation: Visible Emission	ions Limitation 2 of 2			
1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ☐ Rule ☐ Other			
3. Allowable Opacity: Normal Conditions: 10 % Ex Maximum Period of Excess Opacity Allow	cceptional Conditions: 20 % 60 min/day			
4. Method of Compliance: EPA Reference Method 9.				
5. Visible Emissions Comment:	•			
Visible emissions during startup, shutdown or malfunction can exceed 10% opacity for up to ten 6-minute averaging periods per day during which the opacity shall not exceed 20%. Air Permit No. PSD-FL-301A				
Rule 62-212.400(BACT), F.A.C and 62-210.700(5), F.A.C.				

EMISSIONS UNIT INFORMATION

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Thermo Environmental			
	Model Number: 42 CLS		Serial Number	r: 74363-376
_	Installation Date: 10/07/03	6.	Performance Spec 11/22/03	ification Test Date:
7.	Continuous Monitor Comment:			
	Required by 40 CFR Part 75 (Acid Rain I	Prog	ram).	,
	ntinuous Monitoring System: Continuous			
1.	Parameter Code: CO ₂	2.	Pollutant(s): Carb	oon Dioxide
3.	CMS Requirement:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Siemens			
	Model Number: Ultramat 6		Serial Number	: N1-ND-0892
	Installation Date: 10/07/03	6.	Performance Spec 11/22/03	ification Test Date:
7.	Continuous Monitor Comment:			
	Required by 40 CFR Part 75 (Acid Rain P	rog	ram).	

H. CONTINUOUS MONITOR INFORMATION

Complete 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.	Manufacturer: Thermo Environmental	
	Model Number: 48 C	Serial Number: 48C-74345-376
5.	Installation Date: 10/07/03	6. Performance Specification Test Date: 11/22/03
7.	Continuous Monitor Comment:	
	Required by Air permit No. PSD-FL-3012	A.
Co	ntinuous Monitoring System: Continuous	Monitorof
	Parameter Code:	Monitor of 2. Pollutant(s):
 3. 	Parameter Code: CMS Requirement:	
 3. 	Parameter Code:	2. Pollutant(s):
 3. 	Parameter Code: CMS Requirement: Monitor Information	2. Pollutant(s):
 3. 4. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer:	2. Pollutant(s): Rule Other
 3. 4. 5. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number:	2. Pollutant(s): Rule Other Serial Number:
 3. 4. 5. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:
 3. 4. 5. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:
 3. 4. 5. 	Parameter Code: CMS Requirement: Monitor Information Manufacturer: Model Number: Installation Date:	2. Pollutant(s): Rule Other Serial Number:

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: A-3, A-4 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
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: A-8 Previously Submitted, Date
5.	Attached, Document ID: A-8 Previously Submitted, Date 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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: December 20, 2003 Test Date(s)/Pollutant(s) Tested: See additional requirements comment
	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

Additional Requ	uirements for Air	Construction	Permit App	plications
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Traditional red an ements for the Control action 1 of mile representations	
1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))	
Attached, Document ID: Not Applicable	
 Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) Attached, Document ID: Not Applicable 	
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)	
Attached, Document ID: Not Applicable	
Additional Requirements for Title V Air Operation Permit Applications	
 Identification of Applicable Requirements Attached, Document ID: A-6-1, A-6-2 	
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)	
5. Acid Rain Part Application Certificate of Representation (EPA Form No. 7610-1) Copy Attached, Document ID:A-12 Acid Rain Part (Form No. 62-210.900(1)(a)) Attached, Document ID:A-13 Previously Submitted, Date: Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: Previously Submitted, Date: New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: Previously Submitted, Date: Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: Previously Submitted, Date: Not Applicable	

Additional 1	Requir	rements	Comment
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11/14/03—Ammonia slip, VE 11/22/03—CO, NO_x

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)						
	 ☑ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. ☑ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 						
En	nissions Unit	Description and Sta	atus				
1.							
	more process or production units and activities which produce fugitive emissions only.						
2.	2. Description of Emissions Unit Addressed in this Section: One combined-cycle combustion turbine generator (CT-2B) having a nominal rating of						
169		(MW). The CT is fin	_		•	•	
3.	Emissions U	nit Identification Nur	mber: 024				
4.	Emissions Unit Status Code: A	5. Commence Construction Date: 04/01/01	6. Initial Startup Date: 09/02/03	7.	Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? Yes No	
9.	Package Unit	:: r: General Electric		Mo	del Number: PG7	241(FA)	
10. Generator Nameplate Rating: 169 MW							
11.	Emissions U	nit Comment:					

Emissions Unit Control Equipment	pmen	այր	<u>.equ</u>	<u>troi</u>	<u>con</u>	<u>Unit</u>	18810HS	Ŀmi
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Emissions out Control Equipment				
1. Control Equipment/Method(s) Description:				
NO _x Controls				
Dry low-NOx combustors				
Selective Catalytic Reduction (SCR)				
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x combustors), 065 (catalytic reduction)				

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: 1,842 (HHV) million Btu/hr
4.	Maximum Incineration Rate: pounds/hr N/A
	tons/day
5.	Requested Maximum Operating Schedule:
	24 hours/day 7 days/week
	52 weeks/year 8,760 hours/year
6.	Operating Capacity/Schedule Comment:
	eximum heat input is based on higher heating value (HHV) of natural gas at 100% d and 59 °F. Heat input will vary with load and ambient temperature.

EMISSIONS UNIT INFORMATION

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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: CT-2B		1		
3.	. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
	N/A				
	IN/A				
4.	ID Numbers or Description	ons of Emission Ur	nits with this Emission	n Point in Common:	
	N/A				
5.	Discharge Type Code:	6. Stack Height	•	7. Exit Diameter:	
	V	150 feet		19.0 feet	
8.	Exit Temperature:		netric Flow Rate:	10. Water Vapor:	
	220 °F	1,030,000 ac		% N/A	
11.	Maximum Dry Standard F dscfm	Flow Rate:	12. Nonstack Emission Point Height: feet		
13.	Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude		
	Zone: East (km):		Latitude (DD/MM/SS)		
	North (km)		Longitude (DD/MM/SS)		
15.	Emission Point Comment:				
S40	alr tompowature and flow	vote is board on	100 9/ load at ambig	nt tompovotuve of 50°E	
	ck temperature and flow ck temperature and flow				
) tu	ex temperature and now	Tate Will Vary Wi		· ·	
				•	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):						
Co	Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.						
	Combined Cycle Combustion I all bine in ea with pipeline quanty natural gas.						
2.	Source Classification Code	e (SCC):	3. SCC Units:				
	20100201	1		1	Feet Burned		
4.	Maximum Hourly Rate: 1.934	16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A		
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit: 925		
10.	Segment Comment:						
E.	al haat content (Field 0)	onwasanta lawan	hooting volue				
ru	el heat content (Field 9) r	epresents lower	neating value.				
	·						
Se	gment Description and Ra	ste: Segment	of				
1.	Segment Description (Prod	cess/Fuel Type):					
					·		
2.	Source Classification Code	e (SCC):	3. SCC Units:				
		, ,					
4.	Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6.	Estimated Annual Activity Factor:		
7.	Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:		
10.	Segment Comment:		-	1	-		
	-						

EMISSIONS UNIT INFORMATION

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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	025,065		EL
CO			EL
PM			EL
PM10			EL
SO2			EL
SAM			EL
VOC			EL
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: NOX	2. Total Percent Efficier	ncy of Control: N/A
3.	Potential Emissions:		etically Limited?
	23.1 lb/hour 101.2	tons/year Ye	s 🔯 No
5.	Range of Estimated Fugitive Emissions (as	applicable):	
	to tons/year		
6.	Emission Factor:		7. Emissions Method Code:
Re	ference:		0
8.	Calculation of Emissions:		
	••		
9.	Pollutant Potential/Estimated Fugitive Emis	sions Comment:	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: OTHER	2. Future Effective Date of Allowable Emissions: N/A					
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	3.5 ppmvd @ 15% O ₂ , 24-hour block		23.1 lb/hour 101.2 tons/year				
ave	erage						
5.	Method of Compliance:						
	EPA Reference Method 7E (initial) or NO _x CEMS						
6.	Allowable Emissions Comment (Description	of C	Operating Method):				
Aiı	Air Permit No. PSD-FL-301A;						
DE	DEP/TEC Consent Final Judgement;						
	EPA/TEC Consent Decree;						
Als	so subject to less stringent NO_x limits of 40 \circ	CFF	1 60.332				

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A				
3.	Allowable Emissions and Units: N/A	4.	Equivalent Allowab 23.1 lb/hour	ole Emissions: N/A tons/year		
5.	Method of Compliance: EPA Reference Method 7E (initial)					
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A	of C	Operating Method):			

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficie	ncy of Control: N/A
3. Potential Emissions:	4. Synth	etically Limited?
28.7 lb/hour 125.7		
5. Range of Estimated Fugitive Emissions (as	applicable):	
to tons/year		
6. Emission Factor: 28.7 lb/hr		7. Emissions
		Method Code:
Reference:		0
8. Calculation of Emissions:		
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:	

POLLUTANT DETAIL INFORMATION Page [4] of [14]

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code: RULE	ble Emissions Code: 2. Future Effective Date of Allowable Emissions: N/A					
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	7.8 ppmvd @ 15% O ₂		28.7 lb/hour 125.7 tons/year				
5.	. Method of Compliance:						
	EPA Reference Method 10 or CO CEMS (init	ial)				
6.	6. Allowable Emissions Comment (Description of Operating Method):						
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions Allowable Emissions 2 of 3

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:				
	N/A		28.7 lb/hour N/A tons/year				
5.	Method of Compliance:						
	EPA Reference Method 10 or CO CEMS (init	ial)				
6.	. Allowable Emissions Comment (Description of Operating Method):						
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions Allowable Emissions 3 of 3

Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A						
3. Allowable Emissions and Units: 9.0 ppmvd @ 15% O ₂ , 24-hour block average	4. Equivalent Allowable Emissions: N/A lb/hour N/A tons/year						
5. Method of Compliance: CO CEMS							
 Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C. 	on of Operating Method):						

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficie	ncy of Control: N/A
3. Potential Emissions: 20.5 lb/hour 88.9	tons/year 4. Synth	etically Limited?
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):	
6. Emission Factor: 20.5 lb/hr Reference: Sargent & Lundy		7. Emissions Method Code:
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 20.3 lb/hr (100% load an		18°F. Annual
9. Pollutant Potential/Estimated Fugitive Emis PM emissions represent filterable and conde EPA reference methods 201 and 202.		as measured by

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Al	lowable Emissions Allowable Emissions 1	_of	_1_						
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: N/A						
3.	Allowable Emissions and Units: 10% opacity	4.	Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year						
5.	Method of Compliance: EPA Reference Method 9								
6.	6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.								
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	of (Operating Method):						

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A			
3. Potential Emissions:		etically Limited?		
20.5 lb/hour 88.9	tons/year Ye	s 🔀 No		
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 20.5 lb/hr		7. Emissions Method Code:		
Reference: Sargent & Lundy		2		
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 20.3 lb/hr (100% load an		18 °F. Annual		
9. Pollutant Potential/Estimated Fugitive Emissions Comment: PM10 emissions represent filterable and condensable particulate matter as measured by EPA reference methods 201 and 202.				
PM and PM10 are assumed to be equal.				

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

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

2. Future Effective Date of Allowable Emissions: N/A
4. Equivalent Allowable Emissions:
20.5 lb/hour 88.9 tons/year

n of Operating Method):
-

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour			
5.	Method of Compliance:		_			
6.	. Allowable Emissions Comment (Description of Operating Method):					

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions:	4. Synthetically Limited?
11.1 lb/hour 45.1	tons/year Yes No
5. Range of Estimated Fugitive Emissions (as	applicable):
to tons/year	[·
6. Emission Factor: 11.1 lb/hr	7. Emissions
Defended to the terminal of th	Method Code:
Reference: Sargent & Lundy	2
8. Calculation of Emissions:	
, ,	$(1 \text{ lb S}/7,000 \text{ gr S}) \times (2 \text{ lb SO}_2/\text{lb S}) =$
11.1 lb/hr. Annual emissions based on 10.3 lb	/hr (100% load and 59 °F) for 8,760 hr/yr.
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A						
3. Allowable Emissions and Units: Pipeline Quality Natural Gas	4. Equivalent Allowable Emissions: 11.1 lb/hour 45.1 tons/year						
5. Method of Compliance: Fuel analysis for sulfur content per	· · · · · · · · · · · · · · · · ·						
6. Allowable Emissions Comment (Desc Air Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgement EPA/TEC Consent Decree; Also subject to the less stringent fue	nt;						

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	of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control: N/	2. Total Percent Efficiency of Control: N/A			
3. Potential Emissions:	4. Synthetically Limited?				
2.0 lb/hour 8.3	tons/year Yes No				
5. Range of Estimated Fugitive Emissions (a	s applicable):				
to tons/year					
6. Emission Factor: 2.0 lb/hr	7. Emissions				
	Method Code	e:			
Reference: Sargent & Lundy	2				
of SO ₂ to SO ₃ (SCR) and 100 % conversion of above conversions at 100% load and 59 °F for	or 8,760 hr/yr.				
9. Pollutant Potential/Estimated Fugitive Emi	ssions Comment:				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Al	lowable Emissions Allowable Emissions 1	_of	_1_				
1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: N/A				
3.	Allowable Emissions and Units: Pipeline Quality Natural Gas	4.	Equivalent Allowable Emissions: 2.0 lb/hour 8.3 tons/year				
5.	5. Method of Compliance: Fuel analysis for sulfur content per 40 CFR Part 75 requirements.						
6.	6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree.						
All	owable Emissions Allowable Emissions	<u>o</u> f					
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.	5. Method of Compliance:						
6.	6. Allowable Emissions Comment (Description of Operating Method):						

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [5] of [7] Page [13] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: VOC		2. Total Percent Efficiency of Control:		
3.	Potential Emissions:			4. Synthetically Limited?	
	3.0 lb/hour	12.3	tons/year	Yes No	
5.	Range of Estimated Fugitive Emi	issions (as	applicable):		
	to tons/year				
6.	Emission Factor: 3.0 lb/hr			7. Emissions	
_				Method Code:	
Re	ference: Sargent & Lundy			2	
	Calculation of Emissions: Hourly emission rate bas issions based on 2.8 lb/hr (100%)				
			-, · · ·,	•	
9.	Pollutant Potential/Estimated Fug	gitive Emis	sions Commen	t:	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emission	s <u>1</u> of <u>1</u>
Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: Efficient combustion design and	4. Equivalent Allowable Emissions: 3.0 lb/hour 12.3 tons/year
operation	
5. Method of Compliance:	
Compliance with CO standards	
6. Allowable Emissions Comment (Descri	ption of Operating Method):
Air Permit No. PSD-FL-301A;	
62-212.400(BACT), F.A.C.	
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code:	sof 2. Future Effective Date of Allowable
1. Substitution whose Emissions code.	Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descrip	ption of Operating Method):
· · · · · · · · · · · · · · · · · · ·	

G. VISIBLE EMISS	IONS INFORMATION					
Complete if this emissions unit is or would b emissions limitation.	e subject to a unit-specific visible					
Visible Emissions Limitation: Visible Emissi	ions Limitation 1 of 2					
Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ⊠ Rule □ Other					
3. Allowable Opacity: Normal Conditions: 10% Ex Maximum Period of Excess Opacity Allower	sceptional Conditions: % ed: min/hour					
4. Method of Compliance: EPA Reference Method 9, 6-minute average.						
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.						
Visible Emissions Limitation: Visible Emissi	ons Limitation 2 of 2					
1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: ⊠ Rule □ Other					
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 20 % Maximum Period of Excess Opacity Allowed: 60 min/day						
4. Method of Compliance: EPA Reference Method 9.						
5. Visible Emissions Comment:	· .					
Visible emissions during startup, shutdown or malfunction can exceed 10% opacity for up to ten 6-minute averaging periods per day during which the opacity shall not exceed 20%. Air Permit No. PSD-FL-301A Rule 62-212.400(BACT), F.A.C and 62-210.700(5), F.A.C.						

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EMISSIONS UNIT INFORMATION

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H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Thermo Environmental Model Number: 42 CLS		Serial Number: 74365-376
5.	Installation Date:	6.	Performance Specification Test Date:
	09/05/03	0.	12/16/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain F	Prog	gram).
	ntinuous Monitoring System: Continuous I	Mon	nitor <u>2</u> of <u>3</u>
1.	Parameter Code: CO ₂	2.	Pollutant(s): Carbon Dioxide
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Siemens		
	Model Number: Ultramat 6		Serial Number: N1-ND-0879
5.	Installation Date: 09/05/03		Performance Specification Test Date: 12/16/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain P	rog	ram).

H. CONTINUOUS MONITOR INFORMATION

Complete 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 Environmental	
	Model Number: 48 C	Serial Number: 48C-74342-376
5.	9/5/03	6. Performance Specification Test Date: 12/16/03
7.	Continuous Monitor Comment:	-
	Required by Air permit No. PSD-FL-301A	A.
Co	ntinuous Monitoring System: Continuous l	Monitorof
1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	☐ Rule ☐ Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	
		·

EMISSIONS UNIT INFORMATION

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	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: A-3, A-4 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
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: A-8 Previously Submitted, Date
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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: <u>December 20, 2003</u>
	Test Date(s)/Pollutant(s) Tested: See additional requirements comment.
	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

EMISSIONS UNIT INFORMATION N/A Section [5] of [7]

Additional Red	quirements for Air	Construction	Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))	
Attached, Document ID: Not Applicable	
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and	
Rule 62-212.500(4)(f), F.A.C.) Attached, Document ID: Not Applicable	
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling	\neg
facilities only) Attached, Document ID: Not Applicable	
Additional Requirements for Title V Air Operation Permit Applications	
Identification of Applicable Requirements	\neg
Attached, Document ID: A-6-1, A-6-2	
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: \omega Not Applicable 	
5. Acid Rain Part Application Certificate of Representation (EPA Form No. 7610-1) Copy Attached, Document ID:A-12 Acid Rain Part (Form No. 62-210.900(1)(a)) Attached, Document ID:A-13 Previously Submitted, Date: Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: Previously Submitted, Date: New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: Previously Submitted, Date: Previously Submitted, Date: Not Applicable	

EMISSIONS UNIT INFORMATION Section [5] of [7]

<u>Additional</u>	Req	uirements	Comment

11/12/03—Ammonia slip 11/14/03—VE 12/16/03—CO, NO_x

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)						
	 ☑ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. ☑ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 						
En	nissions Unit	Description and Sta	atus				
1.	This Emi process of which ha	r production unit, or s at least one definab	ion Section add activity, which le emission po	dresses, as a single en produces one or mor int (stack or vent).	•		
	process o		nd activities wh	ich has at least one de	nissions unit, a group of efinable emission point		
				lresses, as a single en es which produce fug			
2. 169	One combin		n turbine gene		ng a nominal rating of ity natural gas.		
3.	Emissions U	nit Identification Nur	mber: 025		· · · · · · · · · · · · · · · · · · ·		
4.	Emissions Unit Status Code: A	5. Commence Construction Date: 4/01/01	6. Initial Startup Date: 11/18/03	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? ⊠ Yes □ No		
9.	Package Unit Manufacture	:: r: General Electric		Model Number: PG 7	241(FA)		
10.	Generator N	ameplate Rating: 16	9 MW				
11.	Emissions U1	nit Comment:					

EMISSIONS UNIT INFORMATION Section [6] of [7]

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:
NO _x Controls
Dry low-NOx combustors
Selective Catalytic Reduction (SCR)
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x combustors), 065 (catalytic reduction)

EMISSIONS UNIT INFORMATION

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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: 1,842 (HHV) million Btu/hr				
4.	Maximum Incineration Rate: pounds/hr N/A				
	tons/day				
5.	Requested Maximum Operating Schedule:				
	24 hours/day 7 days/week				
	52 weeks/year 8,760 hours/year				
6.	Operating Capacity/Schedule Comment:				
6. Operating Capacity/Schedule Comment: Maximum heat input is based on higher heating value (HHV) of natural gas at 100% load and 59 °F. Heat input will vary with load and ambient temperature.					

EMISSIONS UNIT INFORMATION

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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: CT-2C		2. Emission Point 7	Гуре Code:		
3.	Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:		
	N/A					
4.	ID Numbers or Descriptio N/A	ns of Emission Ur	nits with this Emission	n Point in Common:		
5.	Discharge Type Code: V	6. Stack Height 150 feet	:	7. Exit Diameter: 19.0 feet		
8.	Exit Temperature: 220 °F	9. Actual Volum 1,030,000 ac	netric Flow Rate: fm	10. Water Vapor: % N/A		
11.	Maximum Dry Standard F dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:		
13.	Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M)	Latitude/Longitude M/SS)		
	North (km)	:	Longitude (DD/N	MM/SS)		
15.	Emission Point Comment:					
	15. Emission Point Comment: Stack temperature and flow rate is based on 100 % load at ambient temperature of 59°F. Stack temperature and flow rate will vary with load and ambient temperature.					

EMISSIONS UNIT INFORMATION Section [6] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type):

Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.						
2. Source Classification Coc 20100201	le (SCC):	3. SCC Units Million C		Feet Burned		
4. Maximum Hourly Rate: 1.934	5. Maximum 16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit: 925		
10. Segment Comment:						
Fuel heat content (Field 9)	represents lower	r heating value	·•			
Segment Description and Ra	ate: Segment	of				
1. Segment Description (Pro	cess/Fuel Type):					
2. Source Classification Cod	e (SCC):	3. SCC Units	s:			
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:		
10. Segment Comment:						

EMISSIONS UNIT INFORMATION

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
NOX	NOX 025,065		EL
СО			EL
PM			EL
PM10			EL
SO2			EL
SAM			EL
VOC			EL
		1	
		·	
-			
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: NOX	2. Total Percent Effici	ency of Control: N/A
3. Potential Emissions:	4. Synt	netically Limited?
23.1 lb/hour 101.2	tons/year Y	es 🛛 No
5. Range of Estimated Fugitive Emissions (as	applicable):	
to tons/year		
6. Emission Factor:		7. Emissions
		Method Code:
Reference:		0
8. Calculation of Emissions:		•
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 2

Basis for Allowable Emissions Code: OTHER	Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
3.5 ppmvd @ 15% O ₂ , 24-hour block	23.1 lb/hour 101.2 tons/year
average	
5. Method of Compliance:	
EPA Reference Method 7E (initial) or NO	x CEMS
6. Allowable Emissions Comment (Description	of Operating Method):
Air Permit No. PSD-FL-301A;	,
DEP/TEC Consent Final Judgement;	
EPA/TEC Consent Decree;	
Also subject to less stringent NO _x limits of 40	CFR 60.332
1	•

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date Emissions: N/A	te of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowab	le Emissions:
	N/A		23.1 lb/hour	N/A tons/year
5.	Method of Compliance:			
	EPA Reference Method 7E (initial)			
6.	Allowable Emissions Comment (Description	of (Operating Method):	
	Air Permit No. PSD-FL-301A			

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions:	4. Synthetically Limited? tons/year Yes No
28.7 lb/hour 125.7	<u> </u>
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):
<u> </u>	
6. Emission Factor: 28.7 lb/hr	7. Emissions
	Method Code:
Reference:	0
8. Calculation of Emissions:	
O. Delletent Detectiol/Detiment of Decition Decition	stient Comment
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 3

1. Basis for	· Allowable Emissions Code:	2.	Future Effective Da	te of Allowable
RULE			Emissions: N/A	
3. Allowab	le Emissions and Units:	4.	Equivalent Allowab	ole Emissions:
7.8 ppm	vd @ 15% O ₂		28.7 lb/hour	125.7 tons/year
5. Method	of Compliance:			
EPA Re	ference Method 10 or CO CEMS (initi	al)	
6. Allowab	le Emissions Comment (Description	of C	Operating Method):	
Air Perr	nit No. PSD-FL-301A;		ı	
62-212.4	00(BACT); F.A.C.			

Allowable Emissions Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable
	RULE		Emissions: N/A
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	N/A		28.7 lb/hour N/A tons/year
5.	Method of Compliance:		
	EPA Reference Method 10 or CO CEMS (init	ial)
6.	Allowable Emissions Comment (Description	of (Operating Method):
	Air Permit No. PSD-FL-301A;		
	62-212.400(BACT); F.A.C.		

Allowable Emissions Allowable Emissions 3 of 3

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:
	9.0 ppmvd @ 15% O ₂ , 24-hour block		N/A lb/hour N/A tons/year
av	erage		
5.	Method of Compliance:		
	CO CEMS		
6.	Allowable Emissions Comment (Description	of (Operating Method):
	Air Permit No. PSD-FL-301A;		
	62-212.400(BACT); F.A.C.		
	·		

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1.	Pollutant Emitted: PM	2. Total Perc	cent Efficiency of Control: N/A
_			··
3.	Potential Emissions:		4. Synthetically Limited?
	20.5 lb/hour 88.9	tons/year	☐ Yes ⊠ No
5.	Range of Estimated Fugitive Emissions (as	s applicable):	
	to tons/year		·
	Emission Factor: 20.5 lb/hr		7. Emissions Method Code:
Re	eference: Sargent & Lundy		2
em	Calculation of Emissions: Hourly emission rate based on GE nissions based on 20.3 lb/hr (100% load an	d 59 °F) for 8,7	760 hr/yr.
PN	Pollutant Potential/Estimated Fugitive Emis I emissions represent filterable and conder A reference methods 201 and 202.		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

2. Future Effective Date of Allowable Emissions: N/A 4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year of Operating Method):
20.5 lb/hour 88.9 tons/year n of Operating Method):
<u>o</u> f
2. Future Effective Date of Allowable Emissions:
4. Equivalent Allowable Emissions: lb/hour tons/year
of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A								
3. Potential Emissions:		4. Synthetically Limited?							
20.5 lb/hour 88.9	tons/year	Yes No							
5. Range of Estimated Fugitive Emissions (as	applicable):								
to tons/year									
6. Emission Factor: 20.5 lb/hr		7. Emissions							
		Method Code:							
Reference: Sargent & Lundy		2							
8. Calculation of Emissions:									
Hourly emission rate based on GE data for 100% load and 18 °F. Annual									
emissions based on 20.3 lb/hr (100% load and	d 59 °F) for 8,7	760 hr/yr.							
		•							
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment	<u></u>							
PM10 emissions represent filterable and									
by EPA reference methods 201 and 202.	condensable pa	articulate matter as measured							
Sy 22121 diei ense menous zot und zoz.									
PM and PM10 are assumed to be equal.									

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

<u>Al</u>	lowable Emissions Allowable Emissions 1	_of _ <u>1</u> _								
1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A								
3.	Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year								
5.	Method of Compliance: EPA Reference Method 9	,								
6.	6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.									
<u>A</u> l	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	of Operating Method):								

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficie	Total Percent Efficiency of Control: N/A				
3. Potential Emissions:	4. Synth	etically Limited?				
11.1 lb/hour 45.1	tons/year Ye	es 🛛 No				
5. Range of Estimated Fugitive Emissions (as	s applicable):					
to tons/year						
6. Emission Factor: 11.1 lb/hr		7. Emissions Method Code:				
Reference: Sargent & Lundy		2				
8. Calculation of Emissions:						
$(2.0 \text{ gr S}/100 \text{ scf}) \times (1.934 \times 10^6 \text{ ft}^3/100 \text{ scf})$						
11.1 lb/hr. Annual emissions based on 10.3 lb	o/hr (100% load and 59 °	F) for 8, 760 hr/yr.				
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:					

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 1 1. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowable **OTHER** Emissions: N/A 4. Equivalent Allowable Emissions: 3. Allowable Emissions and Units: Pipeline Quality Natural Gas 11.1 lb/hour 45.1 tons/year 5. Method of Compliance: Fuel analysis for sulfur content per 40 CFR Part 75 requirements. 6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; **DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree**; Also subject to the less stringent fuel sulfur limits of 40 CFR 60.333. Allowable Emissions Allowable Emissions 2. Future Effective Date of Allowable 1. Basis for Allowable Emissions Code: **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):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control: N/A					
3. Potential Emissions:	4.	Synthetically Limited?				
2.0 lb/hour 8.3	tons/year					
5. Range of Estimated Fugitive Emissions (as	applicable):					
to tons/year						
6. Emission Factor: 2.0 lb/hr		7. Emissions				
		Method Code:				
Reference: Sargent & Lundy		2				
8. Calculation of Emissions:						
Hourly rate based on 8 % conversion of SO ₂ to SO ₃ (SCR) and 100 % conversion o above conversions at 100% load and 59 °F fo	f SO3 to H2SO4. A r 8,760 hr/yr.					
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:					

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	Pipeline Quality Natural Gas	2.0 lb/hour 8.3 tons/year
5.	Method of Compliance:	
	Fuel analysis for sulfur content per 40 CF	R Part 75 requirements.
	Tues usually see surrent positions per see early	- Land to require out of the control
	· · · · · · · · · · · · · · · · · · ·	
6.	Allowable Emissions Comment (Description	·
6.		·
6.	Allowable Emissions Comment (Description	·

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	of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:	
3. Potential Emissions: 3.0 lb/hour 12.3	4. Synthetically Limited? tons/year	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: 3.0 lb/hr	7. Emissions Method Cod	e:
Reference: Sargent & Lundy	2	
emissions based on 2.8 lb/hr (100% load and		
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment:	

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

ι.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	RULE	Emissions: N/A
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	Efficient combustion design and	3.0 lb/hour 12.3 tons/year
	eration	
5.	Method of Compliance:	
	Compliance with CO standards	
_	Allowed to Production Co. (P. 1)	in a CO (i Mad 1)
b .	Allowable Emissions Comment (Descript	ion of Operating Method):
	Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	
	02-212.400(DAC1), F.A.C.	
A 117		
AL	lowable Emissions Allowable Emissions	<u>o</u> f
	Basis for Allowable Emissions Code:	
1.		2. Future Effective Date of Allowable
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3.	Basis for Allowable Emissions Code:	Equivalent Allowable Emissions: 2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:
3.	Basis for Allowable Emissions Code: Allowable Emissions and Units:	Equivalent Allowable Emissions: 2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:
3.	Basis for Allowable Emissions Code: Allowable Emissions and Units:	Equivalent Allowable Emissions: 2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions:
3. 5.	Basis for Allowable Emissions Code: Allowable Emissions and Units:	Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions: lb/hour tons/year
3. 5.	Basis for Allowable Emissions Code: Allowable Emissions and Units: Method of Compliance:	Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions: Ib/hour tons/year
3. 5.	Basis for Allowable Emissions Code: Allowable Emissions and Units: Method of Compliance:	Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions: lb/hour tons/year

G. VISIBLE EMISS	IONS INFORMATION
Complete if this emissions unit is or would be emissions limitation.	e subject to a unit-specific visible
Visible Emissions Limitation: Visible Emissi	ons Limitation <u>1</u> of <u>2</u>
Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: 10% Ex Maximum Period of Excess Opacity Allower	aceptional Conditions: % ed: min/hour
4. Method of Compliance: EPA Reference Method 9, 6-minute average.	
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C. Visible Emissions Limitation: Visible Emissions	ons Limitation 2 of 2
1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: Rule Other
3. Allowable Opacity: Normal Conditions: 10 % Ex Maximum Period of Excess Opacity Allower	ceptional Conditions: 20 % 60 min/day
4. Method of Compliance: EPA Reference Method 9.	
5. Visible Emissions Comment:	- · · ·
Visible emissions during startup, shutdown of up to ten 6-minute averaging periods per day 20%. Air Permit No. PSD-FL-301A Rule 62-212.400(BACT), F.A.C and 62-210.76	during which the opacity shall not exceed

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H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is	or would be subject	to co	ntinu	ous m	onitoring.
Continuous Monitoring System:	Continuous Monitor	1	of _	3_	

1.	Parameter Code: EM	2.	Pollutant(s): NO _X
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Thermo Environmental		
	Model Number: 42 CLS		Serial Number: 73531-373
5.	Installation Date: 11/18/03	6.	Performance Specification Test Date: 12/20/03
7.	Continuous Monitor Comment:		
	Required by 40 CFR Part 75 (Acid Rain 1	Prog	gram).
			,- ·
Co	ntinuous Monitoring System: Continuous	Mon	nitor <u>2</u> of <u>3</u>
1.	Parameter Code: CO ₂	2.	Pollutant(s): Carbon Dioxide
3.	CMS Requirement:	\boxtimes	Rule Other
4.	Monitor Information Manufacturer: Siemens		
	Model Number: Ultramat 6		Serial Number: N1-ND-0984
5	Installation Date:	6	Performance Specification Test Date:
٥.	11/18/03	0.	12/20/03
7.	11/18/03	0.	
	11/18/03		12/20/03
	11/18/03 Continuous Monitor Comment:		12/20/03
	11/18/03 Continuous Monitor Comment:		12/20/03

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H. CONTINUOUS MONITOR INFORMATION

Complete 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
4.	Monitor Information	
	Manufacturer: Thermo Environmental	I
	Model Number: 48 C	Serial Number: 48C-74343-376
5.	Installation Date:	6. Performance Specification Test Date:
	11/18/03	12/20/03
7.	Continuous Monitor Comment:	
	Dennie J.L. Air respect No. DCD EL 201	1.4
	Required by Air permit No. PSD-FL-301	IA.
Co	ntinuous Monitoring System: Continuous	Monitor of
	Parameter Code:	2. Pollutant(s):
••	Turameter Code.	2. 1 01141411(0).
3.	CMS Requirement:	Rule Other
4.	Monitor Information	
	Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION Section [6] of [7]

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: A-3, A-4 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
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: A-8 Previously Submitted, Date
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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: <u>December 20, 2003</u>
	Test Date(s)/Pollutant(s) Tested: See additional requirements comments.
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	☐ Not Applicable
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute Attached, Document ID: Not Applicable

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Additional Requirements for Air Construction Permit Applications

Additional Requirements for Air Construction I et ant Approactions
1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
Attached, Document ID: Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and
Rule 62-212.500(4)(f), F.A.C.) Attached, Document ID: Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling
facilities only) Attached, Document ID: Not Applicable
Additional Requirements for Title V Air Operation Permit Applications
1. Identification of Applicable Requirements Attached, Document ID: A-6-1, A-6-2
2. Compliance Assurance Monitoring Attached, Document ID: Not Applicable
3. Alternative Methods of Operation Attached, Document ID: Not Applicable
4. Alternative Modes of Operation (Emissions Trading) ☐ Attached, Document ID: ☐ Not Applicable
5. Acid Rain Part Application Certificate of Representation (EPA Form No. 7610-1) Copy Attached, Document ID:A-12 Acid Rain Part (Form No. 62-210.900(1)(a)) Attached, Document ID:A-13 Previously Submitted, Date: Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
☐ Previously Submitted, Date: ☐ Not Applicable

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Additional Requirements Commen

12/19/03—Ammonia slip 12/20/03—VE, CO, NO_x

EMISSIONS UNIT INFORMATION Section [7] of [7]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

re	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)						
	 ☑ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. ☑ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 						
Emis	ssions Unit	Description and Sta	atus .				
l _							
		ssions Unit Informat cess or production u			•	issions unit, one or itive emissions only.	
O	ne combine	f Emissions Unit Aced-cycle combustion MW). The CT is fire	n turbine gene	rat	or (CT-2D) havin	g a nominal rating of	
					mg pipeime quan		
4. E U	Emissions Unit Identification Number: 026 Emissions 5. Commence 6. Initial 7. Emissions Unit 8. Acid Rain Unit? Unit Status Construction Startup Major Group Yes Code: Date: SIC Code: No A 4/01/01 11/14/03 49						
9. Package Unit: Manufacturer: General Electric Model Number: PG7241(FA)							
10. Generator Nameplate Rating: 169 MW 11. Emissions Unit Comment:							
11. E	missions Of	nt Comment.					

EMISSIONS UNIT INFORMATION Section [7] of [7]

Emissions	Unit	Control	Eq	ui	pment

Emissions Chit Control Equipment								
1. Control Equipment/Method(s) Description:								
NO _x Controls								
Dry low-NOx combustors								
Selective Catalytic Reduction (SCR)								
·								
,								
·								
1								
·								
2. Control Device or Method Code(s): 025 (staged combustion, i.e. dry low-NO _x								
combustors), 065 (catalytic reduction)								

EMISSIONS UNIT INFORMATION Section [7] of [7]

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: 1,842 (HHV) million Btu/hr						
4.	Maximum Incineration Rate: pounds/hr N/A						
	tons/day						
5.	1 0	days/week					
	52 weeks/year 8	,760 hours/year					
6.	Operating Capacity/Schedule Comment:						
	[aximum heat input is based on higher heating value (HHV) of natura ad and 59 °F. Heat input will vary with load and ambient temperature	0					

EMISSIONS UNIT INFORMATION

Section [7] of [7]

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: CT-2D	D	1	0 1 T T T 1 :				
3. Descriptions of Emission	Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:						
N/A							
4. ID Numbers or Description	ons of Emission Ur	nits with this Emission	n Point in Common:				
N/A	nis of Emission of	into with this Emission	i i omi m common.				
5. Discharge Type Code:	6. Stack Height	·	7. Exit Diameter:				
V	150 feet	•	19.0 feet				
8. Exit Temperature:	9. Actual Volum	metric Flow Rate:	10. Water Vapor:				
220 °F	1,030,000 ac	fm	% N/A				
11. Maximum Dry Standard F dscfm	Flow Rate:	12. Nonstack Emission Point Height: feet					
13. Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude					
Zone: East (km):	1 47744 65111	Latitude (DD/MM/SS)					
North (km)	:	Longitude (DD/MM/SS)					
15. Emission Point Comment							
C4l. 4 4	4. !	100 0/ 1 1 - 4 1:-					
Stack temperature and flow Stack temperature and flow			-				
Study temperature and non	Tate was vary	in load and amorene	tomporatare.				
			•				

EMISSIONS UNIT INFORMATION Section [7] of [7]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1.	1. Segment Description (Process/Fuel Type):							
Co	Combined-Cycle Combustion Turbine fired with pipeline quality natural gas.							
2.	Source Classification Code 20100201	e (SCC):	3. SCC Units: Million Cu		Feet Burned			
4.	Maximum Hourly Rate: 1.934	5. Maximum 16,941.8	Annual Rate:	6.	Estimated Annual Activity Factor: N/A			
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit: 925			
10.	Segment Comment:	<u>-</u>		_				
Fu	el heat content (Field 9) r	epresents lower	heating value.					
			-					
	gment Description and Ra		of					
1.	Segment Description (Prod	cess/Fuel Type):						
2.	2. Source Classification Code (SCC): 3. SCC Units:							
4.	Maximum Hourly Rate: 5. Maximum Annual Rate: 6. Estimated Annual Activity Factor:							
7.	7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Unit:							
10.	Segment Comment:			_				

EMISSIONS UNIT INFORMATION

Section [7] **of** [7]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NOX	025,065	Device code	EL
	025,005		
CO			EL
PM		·	EL
PM10			EL
SO2			EL
SAM		r-ar	EL
VOC			EL
		1	
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions:	4. Synthetically Limited?
23.1 lb/hour 101.2	tons/year Yes No
5. Range of Estimated Fugitive Emissions (as	applicable):
to tons/year	
6. Emission Factor:	7. Emissions
Th. 6	Method Code:
Reference:	0
8. Calculation of Emissions:	
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete 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: OTHER	2. Future Effective Date of Allowable Emissions: N/A				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
3.5 ppmvd @ 15% O ₂ , 24-hour block	23.1 lb/hour 101.2 tons/year				
average					
5. Method of Compliance:					
EPA Reference Method 7E (initial) or NO	x CEMS				
	e e				
6. Allowable Emissions Comment (Description	of Operating Method):				
Air Permit No. PSD-FL-301A;					
DEP/TEC Consent Final Judgement;					
EPA/TEC Consent Decree;					
Also subject to less stringent NO _x limits of 40	CFR 60.332				

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: OTHER	Future Effective Date of Allowable Emissions: N/A	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	N/A		23.1 lb/hour N/A tons/year
5.	Method of Compliance: EPA Reference Method 7E (initial)		
6.	Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A	of (Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions:	4. Synthetically Limited?
28.7 lb/hour 125.7	tons/year Yes No
5. Range of Estimated Fugitive Emissions (as	applicable):
to tons/year	
6. Emission Factor: 28.7 lb/hr	7. Emissions Method Code:
Reference:	0
8. Calculation of Emissions:	•
	·
9. Pollutant Potential/Estimated Fugitive Emiss	sions Comment:
3	
	·

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code:	Future Effective Date of Allowable				
	RULE	Emissions: N/A				
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:			
	7.8 ppmvd @ 15% O ₂		28.7 lb/hour 125.7 tons/year			
5.	Method of Compliance:					
	EPA Reference Method 10 or CO CEMS (init	ial)			
6.	Allowable Emissions Comment (Description of Operating Method):					
	Air Permit No. PSD-FL-301A;					
	62-212.400(BACT); F.A.C.					

Allowable Emissions Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable					
	RULE	Emissions: N/A					
3.	Allowable Emissions and Units:	4.	4. Equivalent Allowable Emissions:				
	N/A	28.7 lb/hour N/A tons/year					
5.	Method of Compliance:						
	EPA Reference Method 10 or CO CEMS (ial)					
6.	Allowable Emissions Comment (Description	of (Operating Method):				
	Air Permit No. PSD-FL-301A;						
	62-212.400(BACT); F.A.C.						

Allowable Emissions 3 of 3

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:					
9.0 ppmvd @ 15% O ₂ , 24-hour block N/A lb/hour N/A tons/year						
average						
5. Method of Compliance:	6. Method of Compliance:					
CO CEMS						
6. Allowable Emissions Comment (Descripti	on of Operating Method):					
Air Permit No. PSD-FL-301A;						
62-212.400(BACT); F.A.C.						
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL/ESTIMATED FUGITIVE EMISSIONS

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions: 20.5 lb/hour 88.9	4. Synthetically Limited? tons/year				
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):				
6. Emission Factor: 20.5 lb/hr Reference: Sargent & Lundy	7. Emissions Method Code: 2				
8. Calculation of Emissions: Hourly emission rate based on GE of emissions based on 20.3 lb/hr (100% load and	lata for 100% load and 18 °F. Annual l 59 °F) for 8,760 hr/yr.				
9. Pollutant Potential/Estimated Fugitive Emissions represent filterable and condense EPA reference methods 201 and 202.					

	•							
Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A							
3. Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year							
5. Method of Compliance: EPA Reference Method 9								
6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.								
Allowable Emissionsof								
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 of Operating Method):

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions: 20.5 lb/hour 88.9	4. Synthetically Limited? tons/year ☐ Yes ☒ No				
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):				
6. Emission Factor: 20.5 lb/hr Reference: Sargent & Lundy			7. Emissions Method Code: 2		
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 20.3 lb/hr (100% load and			18 °F. Annual		
9. Pollutant Potential/Estimated Fugitive Emissions Comment: PM10 emissions represent filterable and condensable particulate matter as measured by EPA reference methods 201 and 202.					
PM and PM10 are assumed to be equal.					

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3. Allowable Emissions and Units:

5. Method of Compliance:

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable Emissions 1 of 1

Anowable Emissions Anowable Emissions 1	011
Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 10% opacity	4. Equivalent Allowable Emissions: 20.5 lb/hour 88.9 tons/year
5. Method of Compliance: EPA Reference Method 9	
6. Allowable Emissions Comment (Description Air Permit No. PSD-FL-301A; 62-212.400(BACT); F.A.C.	of Operating Method):
Allowable Emissions Allowable Emissions	<u>o</u> f
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable

6. Allowable Emissions Comment (Description of Operating Method):

Emissions:

lb/hour

4. Equivalent Allowable Emissions:

tons/year

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: N/A				
3. Potential Emissions:		Synthetically Limited?			
11.1 lb/hour 45.1	tons/year	Yes ⊠No			
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):				
6. Emission Factor: 11.1 lb/hr		7. Emissions			
Defended Comment & London		Method Code:			
Reference: Sargent & Lundy					
8. Calculation of Emissions:					
(2.0 gr S/ 100 scf) x (1.934 x 10^6 ft ³ /l					
11.1 lb/hr. Annual emissions based on 10.3 lb	/hr (100% load and	d 59 °F) for 8,760 hr/yr.			
		•			
0 0 11 4 0 4 1 10 4 1 1 1 1 1 1 1 1 1 1	·				
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

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

Allowable Emissions Allowable E	Emissions <u>1</u> of <u>1</u>						
1. Basis for Allowable Emissions OTHER	Code: 2. Future Effective Date of Allowable Emissions: N/A						
3. Allowable Emissions and Units Pipeline Quality Natural Gas	: 4. Equivalent Allowable Emissions: 11.1 lb/hour 45.1 tons/year						
5. Method of Compliance: Fuel analysis for sulfur content	nt per 40 CFR Part 75 requirements.						
Air Permit No. PSD-FL-301A DEP/TEC Consent Final Judg EPA/TEC Consent Decree;	6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; DEP/TEC Consent Final Judgement; EPA/TEC Consent Decree; Also subject to the less stringent fuel sulfur limits of 40 CFR 60.333.						
Allowable Emissions Allowable E	missions <u>o</u> f						
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):						

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [7] of [7] Page [11] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions:	4. Synthetically Limited?
2.0 lb/hour 8.3	tons/year Yes No
5. Range of Estimated Fugitive Emissions (as	applicable):
to tons/year	
6. Emission Factor: 2.0 lb/hr	7. Emissions
	Method Code:
Reference: Sargent & Lundy	2
8. Calculation of Emissions:	
· · · · · · · · · · · · · · · · · · ·	on of fuel sulfur to SO ₃ (CT), 4% conversion
of SO ₂ to SO ₃ (SCR) and 100 % conversion o above conversions at 100% load and 59 °F fo	
above conversions at 100 /0 load and 3/ 1 lo	1 0,700 117,71.
·	
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:
	·

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

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

Allowable Emissions Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable			
	OTHER		Emissions: N/A			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:			
	Pipeline Quality Natural Gas		2.0lb/hour 8.3 tons/year			
5.	5. Method of Compliance:					
	Fuel analysis for sulfur content per 40 CF	R Pa	art 75 requirements.			
	<u> </u>					
6.	Allowable Emissions Comment (Description	of (Operating Method):			
	Air Permit No. PSD-FL-301A;					
	DEP/TEC Consent Final Judgement;					
	EPA/TEC Consent Decree.					
All	Allowable Emissions Allowable Emissions of					

Allowable Emissions Allowable Emissions	of
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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):

EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION Section [7] of [7] Page [13] of [14]

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

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:		
3. Potential Emissions:		4. Synthetically Limited?	
3.0 lb/hour 12.3	tons/year	☐ Yes 🖄 No	
5. Range of Estimated Fugitive Emissions (as	s applicable):		
to tons/year			
6. Emission Factor: 3.0 lb/hr		7. Emissions	
		Method Code:	
Reference: Sargent & Lundy		2	
8. Calculation of Emissions: Hourly emission rate based on GE emissions based on 2.8 lb/hr (100% load and	l 59 ºF) for 8,76	60 hr/yr.	
9. Pollutant Potential/Estimated Fugitive Emis	ssions Comment	t:	

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

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

Allowable Emissions Allowable Emissions 1 of 1 1. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowable RULE Emissions: N/A 3. Allowable Emissions and Units: 4. Equivalent Allowable Emissions: Efficient combustion design and **3.0** lb/hour 12.3 tons/year operation 5. Method of Compliance: Compliance with CO standards 6. Allowable Emissions Comment (Description of Operating Method): Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C. 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 of Operating Method):

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G. VISIBLE EMISSIONS IN	FORMATION
Complete if this emissions unit is or would be subject emissions limitation.	to a unit-specific visible
Visible Emissions Limitation: Visible Emissions Limitation	ation <u>1</u> of <u>2</u>
1. Visible Emissions Subtype: VE10 2. Basis X F	s for Allowable Opacity: Rule
3. Allowable Opacity: Normal Conditions: 10% Exceptional Maximum Period of Excess Opacity Allowed:	Conditions: % min/hour
4. Method of Compliance: EPA Reference Method 9, 6-minute average.	
5. Visible Emissions Comment: Air Permit No. PSD-FL-301A; 62-212.400(BACT), F.A.C.	
Visible Emissions Limitation: Visible Emissions Limitation	ation 2 of 2
1. Visible Emissions Subtype: VE20 2. Basis F	s for Allowable Opacity: Rule
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Maximum Period of Excess Opacity Allowed:	Conditions: 20 % 60 min/day
4. Method of Compliance: EPA Reference Method 9.	
5. Visible Emissions Comment:	-
Visible emissions during startup, shutdown or malfundup to ten 6-minute averaging periods per day during v 20%. Air Permit No. PSD-FL-301A Rule 62-212.400(BACT), F.A.C and 62-210.700(5), F.A.	which the opacity shall not exceed

EMISSIONS UNIT INFORMATION

EMISSIONS UNIT INFORMATION Section [7] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Thermo Environmental			
	Model Number: 42 CLS		Serial Number	: 73530-373
5.	Installation Date: 11/16/03	6.	Performance Spec 12/17/03	ification Test Date:
7.	Continuous Monitor Comment:			
	Required by 40 CFR Part 75 (Acid Rain I	Prog	ram).	
I				
Co	ntinuous Monitoring System: Continuous l	Mon	itor2_ of3	<u></u>
1.	Parameter Code: CO ₂	2.	Pollutant(s): Carb	on Dioxide
3.	CMS Requirement:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Siemens			
	Model Number: Ultramat 6		Serial Number	: N1-ND-0893
5.	Installation Date: 11/16/03	6.	Performance Spec 12/17/03	ification Test Date:
7.	Continuous Monitor Comment:			
	Required by 40 CFR Part 75 (Acid Rain F	rog	ram).	

EMISSIONS UNIT INFORMATION Section [7] of [7]

H. CONTINUOUS MONITOR INFORMATION

Complete 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:	\boxtimes	Rule	Other
4.	Monitor Information Manufacturer: Thermo Environmental Model Number: 48 C		Serial Numbe	r: 48C-73683-374
5.	Installation Date: 11/16/03	6.	Performance Spec 12/17/03	cification Test Date:
7.	Continuous Monitor Comment: Required by Air permit No. PSD-FL-3012	A.		
Co	ntinuous Monitoring System: Continuous	Mon	itorof	_
1.	Parameter Code:	2.	Pollutant(s):	
3.	CMS Requirement:		Rule	Other
4.	Monitor Information Manufacturer:			
	Model Number:		Serial Number	:
5.	Installation Date:	6.	Performance Spec	ification Test Date:
7.	Continuous Monitor Comment:			

EMISSIONS UNIT INFORMATION Section [7] of [7]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

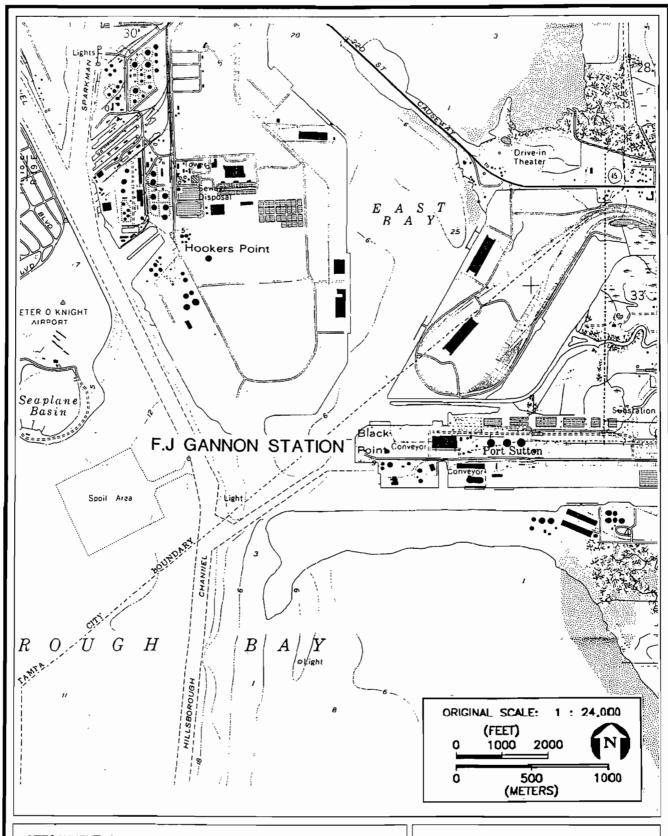
1.	Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: A-3, A-4 Previously Submitted, Date
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date June 2001
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: Not Applicable
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: A-8 Previously Submitted, Date
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: Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: <u>December 20, 2003</u>
	Test Date(s)/Pollutant(s) Tested: See additional requirements comments
	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

EMISSIONS UNIT INFORMATION N/A Section [7] of [7] Additional Requirements for Air Construction Permit Applications 1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.: 40 CFR 63.43(d) and (e)) Attached, Document ID: Not Applicable 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) Attached, Document ID: Not Applicable 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) Attached, Document ID: Not Applicable Additional Requirements for Title V Air Operation Permit Applications 1. Identification of Applicable Requirements Attached, Document ID: A-6-1, A-6-2 2. Compliance Assurance Monitoring Not Applicable Attached, Document ID: 3. Alternative Methods of Operation Attached, Document ID: ____ Not Applicable 4. Alternative Modes of Operation (Emissions Trading) Attached, Document ID: 5. Acid Rain Part Application Certificate of Representation (EPA Form No. 7610-1) Copy Attached, Document ID:A-12 Acid Rain Part (Form No. 62-210.900(1)(a)) Attached, Document ID:A-13 Previously Submitted, Date: Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: Previously Submitted, Date: New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: Previously Submitted, Date: Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: Previously Submitted, Date: Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: Previously Submitted, Date: Not Applicable

Section [7] of [7]
Additional Requirements Comment
12/17/03—Ammonia slip, VE, CO, NO _x
·

EMISSIONS UNIT INFORMATION

ATTACHMENT 1 FACILITY PLOT PLAN—F.J. GANNON STATION AREA MAP



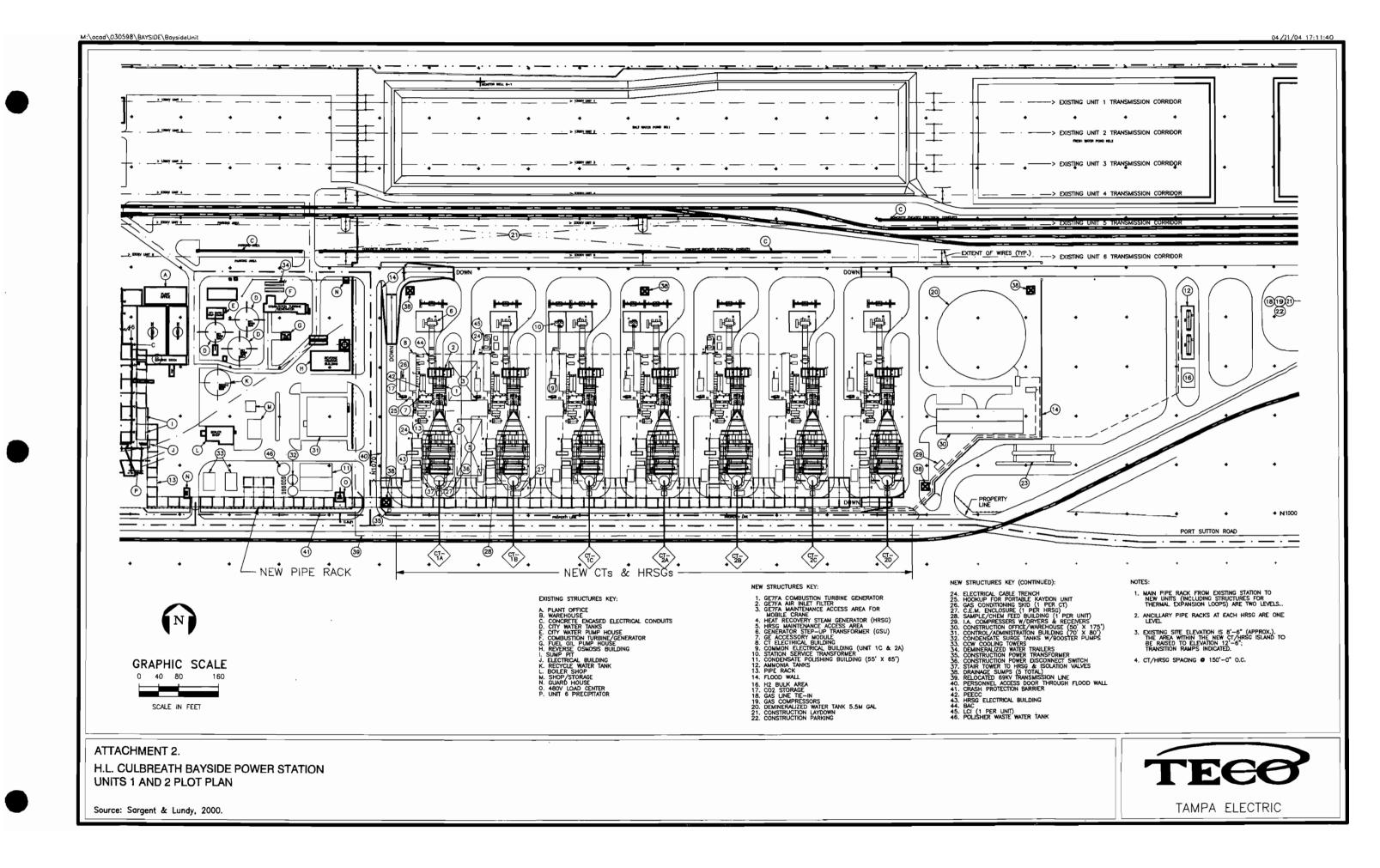
ATTACHMENT 1 F.J. GANNON STATION AREA MAP

Sources: USGS Quod, Tampa, FL 1981.



Environmental Consulting & Technology, Inc.

ATTACHMENT 2 FACILITY PLOT PLAN—UNITS 1 AND 2 PLOT PLAN



ATTACHMENT 3 PROCESS FLOW DIAGRAM—BAYSIDE UNIT 1

FIGURE A-3.

PROCESS FLOW DIAGRAM - BAYSIDE UNIT 1

COMPRESSOR

GENERAL ELECTRIC MODEL PG7241(FA)

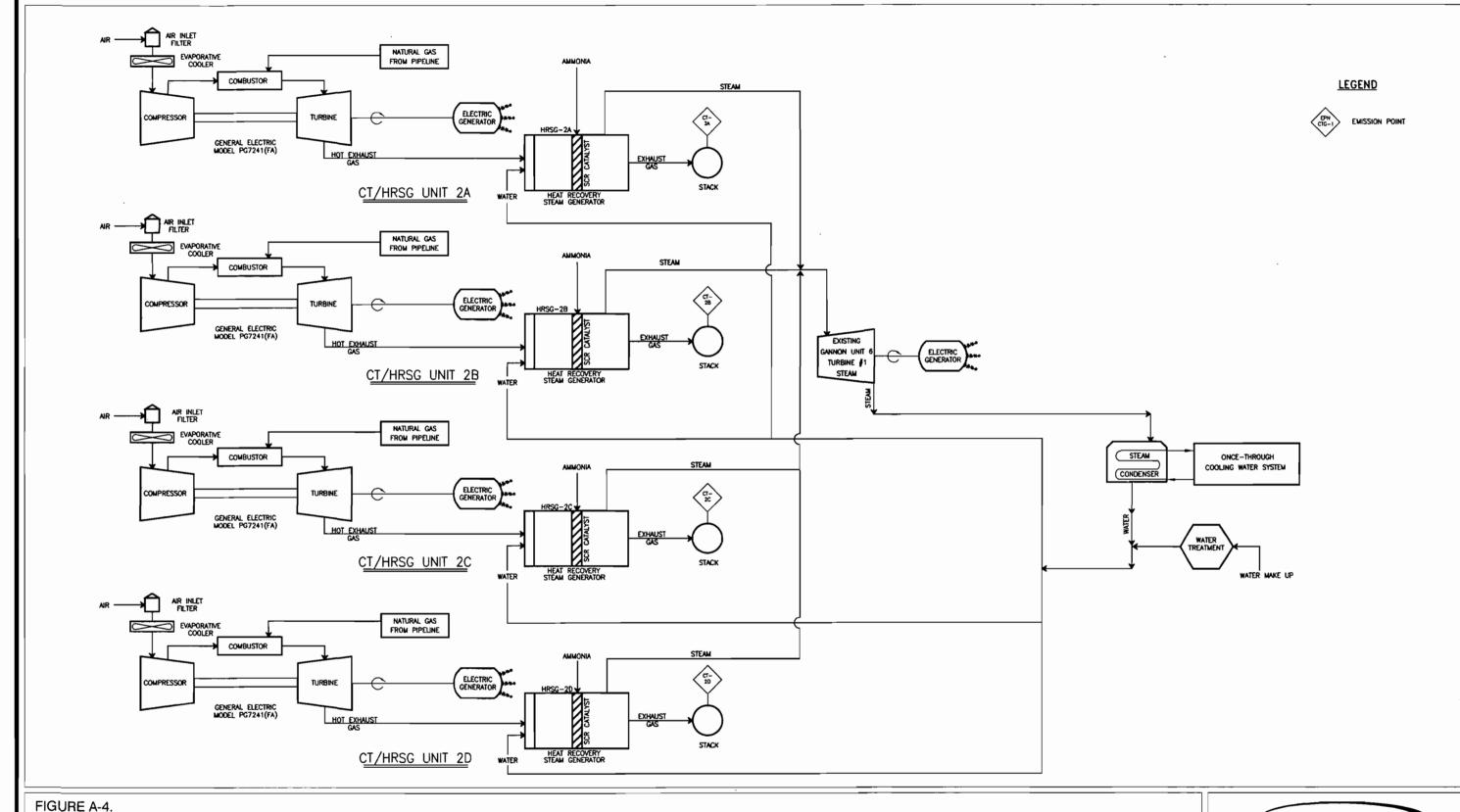
CT/HRSG UNIT 1C

Source: TECO, 2004; ECT, 2004.



WATER MAKE UP

ATTACHMENT 4 PROCESS FLOW DIAGRAM—BAYSIDE UNIT 2



PROCESS FLOW DIAGRAM - BAYSIDE UNIT 2

Source: TECO, 2004; ECT, 2004.

M:\ocad\030598\BAYSIDE\PFD-Bayside 2

TECO

TAMPA ELECTRIC

ATTACHMENT 5

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

TAMPA ELECTRIC COMPANY H. L. CULBREATH BAYSIDE POWER STATION

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Unconfined particulate matter emissions that may result from operations include:

- Vehicular traffic on paved and unpaved roads.
- Wind-blown dust from yard areas.
- Periodic abrasive blasting.

The following techniques will be used to prevent unconfined particulate matter emissions on an as needed basis:

- Chemical or water application to:
 - Unpaved roads
 - o Unpaved yard areas
- Paving and maintenance of roads, parking areas and yards.
- Landscaping or planting of vegetation.
- Confining abrasive blasting where possible.
- Other techniques, as necessary

ATTACHMENTS 6-1 AND 6-2 IDENTIFICATION OF APPLICABLE REQUIREMENTS

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 1 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 60 - Standards of Perf	formance for New Stationar	ry Sources.	_	
Subpart A - General Provisions				
Notification and Recordkeeping	§60.7(b) - (h)		CT 1A-2D	General recordkeeping and reporting requirements.
Performance Tests	§60.8		CT 1A-2D	Conduct performance tests as required by EPA or FDEP. (potential future requirement)
Compliance with Standards	§60.11(a) thru (d), and (f)		CT 1A-2D	General compliance requirements. Addresses requirements for visible emissions tests.
Circumvention	§60.12		CT 1A-2D	Cannot conceal an emission which would otherwise constitute a violation of an applicable standard.
Monitoring Requirements	§60.13(a), (b), (d), (e), and (h)		CT 1A-2D	Requirements pertaining to continuous monitoring systems.
General notification and reporting requirements	§60.19		CT 1A-2D	General procedures regarding reporting deadlines.
Subpart GG - Standard of Performan	ce for Stationary Gas Turbin	es		
Standards for Nitrogen Oxides	\$60.332(a)(1) and (b), (f), and (i)		CT 1A-2D	Establishes NO _x limit of 75 ppmv at 15% (with corrections for heat rate and fuel bound nitrogen) for electric utility stationary gas turbines with peak heat inpugreater than 100 MMBtu/hr.
Standards for Sulfur Dioxide	§60.333		CT 1A-2D	Establishes exhaust gas SO ₂ limit of 0.015 percent by volume (at 15% O ₂ , dry) and maximum fuel sulfur content of 0.8 perce by weight.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 2 of 11)

				<u> </u>
Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Subpart GG - Standard of Perform	ance for Stationary Gas Turbine	es	_	
Monitoring Requirements	§60.334(a)	х	CT 1A-2D	Requires continuous monitoring of fuel consumption and ratio of water to fuel being fired in the turbine. Monitoring system must be accurate to ± 5.0 percent. Applicable to CTs using water injection for NO _x control.
Monitoring Requirements	§60.334(b)(2) and (c)		CT 1A-2D	Requires periodic monitoring of fuel sulfur and nitrogen content. Defines excess emissions
Test Methods and Procedures	§60.335		CT 1A-2D	Specifies monitoring procedures and test methods.
40 CFR Part 60 - Standards of Performance for New Stationary Sources: Subparts B, C, Cb, Cc, Cd, Ce, D, Da, Db, Dc, E, Ea, Eb, Ec, F, G, H, I, J, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, and WWW		Х		None of the listed NSPS' contain requirements which are applicable to the Bayside combined cycle CTs.
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants: Subparts A, B, C, D, E, F, H, I, J, K, L, M, N, O, P, Q, R, T, V, W, Y, BB, and FF		х		None of the listed NESHAPS' contain requirements which are applicable to the Bayside combined cycle CTs.
40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories: Subparts A, B, C, D, E, F, G, H, I, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, RRR, TTT, VVV, and XXX		X	,	None of the listed NESHAPS' contain requirements which are applicable to the Bayside combined cycle CTs.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 3 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 72 - Acid Rain Pro	gram Permits			
Subpart A - Acid Rain Program G	eneral Provisions			
Standard Requirements	§72.9 excluding §72.9(c)(3)(i), (ii), and (iii), and §72.9(d)		CT 1A-2D	General Acid Rain Program requirements. SO ₂ allowance program requirements start January 1, 2000 (future requirement).
Subpart B - Designated Represent	ative			
Designated Representative	§72.20 - §72.24		CT 1A-2D	General requirements pertaining to the Designated Representative.
Subpart C - Acid Rain Application	1			
Requirements to Apply	§72.30(a), (b)(2)(ii), (c), and (d)		CT 1A-2D	Requirement to submit a complete Phase II Acid Rain permit application to the permitting authority at least 24 months before the later of January 1, 2000 or the date on which the unit commences operation. (future requirement). Requirement to submit a complete Acid Rain permit application for each source with an affected unit at least 6 months price the application of an artistic Acid Rain.
				to the expiration of an existing Acid Rain permit governing the unit during Phase II such longer time as may be approved und part 70 of this chapter that ensures that the term of the existing permit will not expire before the effective date of the permit for which the application is submitted. (futur requirement).

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 4 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Application Shield	§72.32		CT 1A-2D	Acid Rain Program permit shield for units filing a timely and complete application. Application is binding pending issuance of Acid Rain Permit.
Subpart D - Acid Rain Compliance P	lan and Compliance Options			
General	§72.40(a)(1)		CT 1A-2D	General SO ₂ compliance plan requirements.
General	§72.40(a)(2)	X		General NO _x compliance plan requirements are not applicable to the Bayside combined cycle CTs.
Subpart E - Acid Rain Permit Conten	ats			
Permit Shield	§72.51		CT 1A-2D	Units operating in compliance with an Acid Rain Permit are deemed to be operating in compliance with the Acid Rain Program.
Subpart H - Permit Revisions	-			
Fast-Track Modifications	§72.82(a) and (c)		CT 1A-2D	Procedures for fast-track modifications to Acid Rain Permits. (potential future requirement)
Subpart I - Compliance Certification				
Annual Compliance Certification Report	§72.90		CT 1A-2D	Requirement to submit an annual compliance report. (future requirement)

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 5 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 75 - Continuous Emiss	ion Monitoring			
Subpart A - General				
Prohibitions	§75.5		CT 1A-2D	General monitoring prohibitions.
Subpart B - Monitoring Provisions				
General Operating Requirements	§ 7 5.10		CT 1A-2D	General monitoring requirements.
Specific Provisions for Monitoring SO ₂ Emissions	§75.11(d)(2)		CT 1A-2D	SO ₂ continuous monitoring requirements for gas- and oil-fired units. Appendix D election will be made.
Specific Provisions for Monitoring NO _x Emissions	§75.12(a) and (b)		CT 1A-2D	NO _x continuous monitoring requirements for coal-fired units, gas-fired nonpeaking units or oil-fired nonpeaking units
Specific Provisions for Monitoring CO ₂ Emissions	§75.13(b)		CT 1A-2D	CO ₂ continuous monitoring requirements. Appendix G election will be made.
Subpart B - Monitoring Provisions			<u>-</u>	
Specific Provisions for Monitoring Opacity	§75.14(d)		CT 1A-2D	Opacity continuous monitoring exemption for diesel-fired units.
Subpart C - Operation and Maintena	nce Requirements		-	<u> </u>
Certification and Recertification Procedures	§75.20(b)		CT 1A-2D	Recertification procedures (potential future requirement)
Certification and Recertification Procedures	§75.20(c)		CT 1A-2D	Recertification procedure requirements. (potential future requirement)
Quality Assurance and Quality Control Requirements	§75.21 except §75.21(b)		CT 1A-2D	General QA/QC requirements (excluding opacity).

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 6 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Reference Test Methods	§75.22		CT 1A-2D	Specifies required test methods to be used for recertification testing (potential future requirement).
Out-Of-Control Periods	§75.24 except §75.24(e)		CT 1A-2D	Specifies out-of-control periods and required actions to be taken when out-of-control periods occur (excluding opacity).
Subpart D - Missing Data Substitution	n Procedures			
General Provisions	§75.30(a)(3), (b), (c)		CT 1A-2D	General missing data requirements.
Determination of Monitor Data Availability for Standard Missing Data Procedures	§75.32		CT 1A-2D	Monitor data availability procedure requirements.
Standard Missing Data Procedures	§75.33(a) and (c)		CT 1A-2D	Missing data substitution procedure requirements.
Subpart F - Recordkeeping Requirem	ents			
General Recordkeeping Provisions	§75.50(a), (b), (d), and (e)(2)		CT 1A-2D	General recordkeeping requirements for NO _x and Appendix G CO ₂ monitoring.
Monitoring Plan	§75.53(a), (b), (c), and (d)(1)		CT 1A-2D	Requirement to prepare and maintain a Monitoring Plan.
General Recordkeeping Provisions	§75.54(a), (b), (d), and (e)(2)		CT 1A-2D	Requirements pertaining to general recordkeeping.
General Recordkeeping Provisions for Specific Situations	§75.55(c)		CT 1A-2D	Specific recordkeeping requirements for Appendix D SO ₂ monitoring.
General Recordkeeping Provisions	§75.56(a)(1), (3), (5), (6), and (7)		CT 1A-2D	Requirements pertaining to general recordkeeping.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 7 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
General Recordkeeping Provisions	§75.56(b)(1)		CT 1A-2D	Requirements pertaining to general recordkeeping for Appendix D SO ₂ monitoring.
Subpart G - Reporting Requirements				
General Provisions	§75.60		CT 1A-2D	General reporting requirements.
Notification of Certification and Recertification Test Dates	§75.61(a)(1) and (5), (b), and (c)		CT 1A-2D	Requires written submittal of recertification tests and revised test dates for CEMS. Notice of certification testing shall be submitted at least 45 days prior to the first day of recertification testing. Notification of any proposed adjustment to certification testing dates must be provided at least 7 business days prior to the proposed date change.
Subpart G - Reporting Requirements				
Recertification Application	§75.63	_	CT 1A-2D	Requires submittal of a recertification application within 30 days after completing the recertification test. (potential future requirement)
Quarterly Reports	§75.64(a)(1) - (5), (b), (c), and (d)		CT 1A-2D	Quarterly data report requirements.
40 CFR Part 76 - Acid Rain Nitrogen Oxides Emission Reduction Program		х		The Acid Rain Nitrogen Oxides Emission Reduction Program only applies to coal-fired utility units that are subject to an Acid Rain emissions limitation or reduction requirement for SO ₂ under Phase I or Phase II.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 8 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 77 - Excess Emissions				
Offset Plans for Excess Emissions of Sulfur Dioxide	§77.3		CT 1A-2D	Requirement to submit offset plans for excess SO ₂ emissions not later than 60 days after the end of any calendar year during which an affected unit has excess SO ₂ emissions. Required contents of offset plans are specified (potential future requirement).
Deduction of Allowances to Offset Excess Emissions of Sulfur Dioxide	§77.5(b)		CT 1A-2D	Requirement for the Designated Representative to hold enough allowances in the appropriate compliance subaccount to cover deductions to be made by EPA if a timely and complete offset plan is not submitted or if EPA disapproves a proposed offset plan (potential future requirement).
Penalties for Excess Emissions of Sulfur Dioxide	§77.6		CT 1A-2D	Requirement to pay a penalty if excess emissions of SO ₂ occur at any affected unit during any year (potential future requirement).
40 CFR Part 82 - Protection of Stra	tospheric Ozone		•	
Production and Consumption Controls	Subpart A	X		The Bayside combined cycle CTs will not produce or consume ozone depleting substances.
Servicing of Motor Vehicle Air Conditioners	Subpart B	Х		Bayside personnel will not perform servicing of motor vehicles which involves refrigerant in the motor vehicle air conditioner. All such servicing will be conducte by persons who comply with Subpart B requirements.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 9 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	Subpart C	х		Bayside will not sell or distribute any banned nonessential substances.
The Labeling of Products Using Ozone-Depleting Substances	Subpart E	Х		The Bayside combined cycle CTs will not produce any products containing ozone depleting substances.
Subpart F - Recycling and Emissions	Reduction			
Prohibitions	§82.154	х		Bayside personnel will not maintain, service, repair, or dispose of any appliances. All such activities will be performed by independent parties in compliance with §82.154 prohibitions.
Required Practices	§82.156 except §82.156(i)(5), (6), (9), (10), and (11)	X		Contractors will maintain, service, repair, and dispose of any appliances in compliance with §82.156 required practices.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 10 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
Subpart F - Recycling and Emissions	Reduction			
Required Practices	§82.156(i)(5), (6), (9), (10), and (11)		Appliances as defined by §82.152- any device which contains and uses a Class I or II substance as a refrigerant and which is used for house- hold or com- mercial purpos- es, including any air condi- tioner, refriger- ator, chiller, or freezer	Owner/operator requirements pertaining to repair of leaks.
Technician Certification	§82.161	х		Bayside personnel will not maintain, service, repair, or dispose of any applianc and therefore are not subject to technician certification requirements.
Certification By Owners of Recovery and Recycling Equipment	§82.162	х		Bayside personnel will not maintain, service, repair, or dispose of any applianc and therefore do not use recovery and reciling equipment.
Reporting and Recordkeeping Requirements	§82.166(k), (m), and (n)		Appliances as defined by §82.152	Owners/operators of appliances normally containing 50 or more pounds of refrigera must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added.

Table 6-1. Summary of Federally EPA Regulatory Applicability and Corresponding Requirements (Page 11 of 11)

Regulation	Citation	Not Applicable	Applicable Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 50 - National Primary Air Quality Standards	and Secondary Ambient	Х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 51 - Requirements for Preparation, Adoption, and Submittal of Implementation Plans		Х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 52 - Approval and Promulgation of Implementation Plans		х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 62 - Approval and Promulgation of State Plans for Designated Facilities and Pollutants		х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 64 - Regulations on Compliance Assurance Monitoring for Major Stationary Sources		х		Exempt per §64.2(b)(1)(iii) since CTs 1A-2D will meet Acid Rain Program monitoring requirements.
40 CFR Part 68 - Provisions for Chemical Accident Prevention			Ammonia Storage	Subject to provisions of 40 CFR Part 68 due to anhydrous ammonia storage.
40 CFR Part 70 - State Operating Permit Programs		Х	_	State agency requirements - not applicable to individual emission sources.
40 CFR Parts 49, 53, 54, 55, 56, 57, 58, 59, 62, 66, 67, 69, 71, 74, 76, 79, 80, 81, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 600, and 610		х		The listed regulations do not contain any requirements which are applicable to the Bayside combined cycle CTs.

Source: ECT, 2004.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 1 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-4, F.A.C Permits: P	art I General	1	T		
Scope of Part I	62-4.001, F.A.C.	X			Contains no applicable requirements.
Definitions	62-4.020, .021, F.A.C.	X			Contains no applicable requirements.
Transferability of Definitions	62-4.021, .021, F.A.C.	X			Contains no applicable requirements.
General Prohibition	62-4.030, F.A.C		Х		All stationary air pollution sources must be permitted, unless otherwise exempted.
Exemptions	62-4.040, F.A.C		Х		Certain structural changes exempt from permitting. Other stationary sources exempt from permitting upon FDEP insignificance determination.
Procedures to Obtain Permits	62-4.050, F.A.C.		X		General permitting requirements.
Surveillance Fees	62-4.052, F.A.C.	X			Not applicable to air emission sources.
Permit Processing	62-4.055, F.A.C.	X			Contains no applicable requirements.
Consultation	62-4.060, F.A.C.	X			Consultation is encouraged, not required.
Standards for Issuing or Denying Permits; Issuance; Denial	62-4.070, F.A.C	х			Establishes standard procedures for FDEP. Requirement is not applicable to the Bayside combined cycle CTs.
Modification of Permit Conditions	62-4.080, F.A.C	х			Application is for initial contruction permit. Modification of permit conditions is not being requested.
Renewals	62-4.090, F.A.C.		Х		Establishes permit renewal criteria. Additional criteria are cited at 62-213 430(3), F.A.C. (future requirement)
Suspension and Revocation	62-4.100, F.A.C.		X		Establishes permit suspension and revo- cation criteria.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 2 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Financial Responsibility	62-4.110, F.A.C.	X			Contains no applicable requirements.
Transfer of Permits	62-4.120, F.A.C.	Х			A sale or legal transfer of a permitted facility is not included in this application.
Plant Operation - Problems	62-4.130, F.A.C.		х		Immediate notification is required whenever the permittee is temporarily unable to comply with any permit condition. Notification content is specified. (potential future requirement)
Review	62-4.150, F.A.C.	х			Contains no applicable requirements.
Permit Conditions	62-4.160, F.A.C.	х			Contains no applicable requirements.
Scope of Part II	62-4.2.00, F.A.C.	Х			Contains no applicable requirements.
Construction Permits	62-4.210, F.A.C.	Х			General requirements for construction permits.
Operation Permits for New Sources	62-4.220, F.A.C.	x			General requirements for initial new source operation permits. (future requirement)
Water Permit Provisions	62-4.240 - 250, F.A.C.	X			Contains no applicable requirements.
Chapter 62-17, F.A.C Electrical P	ower Plant Siting	X			Power Plant Siting Act provisions.
Chapter 62-102, F.A.C Rules of Administrative Procedure - Rule Making			Х		General administrative procedures.
Chapter 62-103, F.A.C Rules of Administrative Procedure - Final Agency Action			X		General administrative procedures.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 3 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-204, F.A.C State Impl	ementation Plan				
State Implementation Plan	62-204.100, .200, .220(1)-(3), .240, .260, .320, .340, .360, .400, and .500, F.A.C.	Х			Contains no applicable requirements.
Ambient Air Quality Protection	62-204.220(4), F.A.C.		х		Assessments of ambient air pollutant impacts must be made using applicable air quality models, data bases, and other requirements approved by FDEP and specified in 40 CFR Part 51, Appendix W.
State Implementation Plan	62-204.800(1) - (6), F.A.C.	X			Referenced federal regulations contain no applicable requirements.
State Implementation Plan	62-204.800(7)(a), (b)16.,(b)39., (c), (d), and (e), F.A.C.			CT 1A-2D	NSPS Subpart GG; see Table A-1 for detailed federal regulatory citations.
State Implementation Plan	62-204.800(8) - (13), (15), (17), (20), and (22) F.A.C.	X			Referenced federal regulations contain no applicable requirements.
State Implementation Plan	62-204.800 (14), (16), (18), (19), F.A.C.			· CT 1A-2D	Acid Rain Program; see Table A-1 for detailed federal regulatory citations.
State Implementation Plan	62-204.800(21), F.A.C.		X		Protection of Stratospheric Ozone; see Table A-1 for detailed federal regulatory citations.
Chapter 62-210, F.A.C Stationary	Sources - General Require	ments			
Purpose and Scope	62-210.100, F.A.C.	X			Contains no applicable requirements.
Definitions	62-210.200, F.A.C.	X			Contains no applicable requirements.
Small Business Assistance Program	62- <u>21</u> 0.220, F.A.C.	X			Contains no applicable requirements.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 4 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Permits Required	62-210.300(1) and (3), F.A.C.		X		Air construction permit required. Exemptions from permitting specified for certain facilities and sources.
Permits Required	62-210.300(2), F.A.C.		х		Air operation permit required. (future requirement)
Air General Permits	62-210.300(4), F.A.C.	X			Not applicable to the Bayside combined cycle CTs.
Notification of Startup	62-210.300(5), F.A.C.	х			Sources which have been shut down for more than one year shall notify the FDEP prior to startup.
Emission Unit Reclassification	62-210.300(6), F.A.C.		х		Emission unit reclassification (potential future requirement)
Public Notice and Comment					
Public Notice of Proposed Agency Action	62-210.350(1), F.A.C.		Х		All permit applicants required to publish notice of proposed agency action.
Additional Notice Requirements for Sources Subject to Prevention of Significant Deterioration or Nonattainment Area New Source Review	62-210.350(2), F.A.C.		х		Additional public notice requirements for PSD and nonattainment area NSR applications.
Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources	62-210.350(3), F.A.C.		х		Notice requirements for Title V operating permit applicants (future requirement).
Public Notice Requirements for FESOPS and 112(g) Emission Sources	62-210.350(4) and (5), F.A.C.	х			Not applicable to the Bayside combined cycle CTs.
Administrative Permit Corrections	62-210.360, F.A.C.	х			An administrative permit correction is not requested in this application.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 5 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Reports Notification of Intent to Relocate Air Pollutant Emitting Facility	62-210.370(1), F.A.C.	x			Project does not have any relocatable emission units.
Annual Operating Report for Air Pollutant Emitting Facility	62-210.370(3), F.A.C.		X		Specifies annual reporting requirements. (future requirement).
Stack Height Policy	62-210.550, F.A.C.		Х		Limits credit in air dispersion studies to good engineering practice (GEP) stack heights for stacks constructed or modified since 12/31/70.
Circumvention	62-210.650, F.A.C.		X		An applicable air pollution control device cannot be circumvented and must be operated whenever the emission unit is operating.
Excess Emissions	62-210.700(1), F.A.C.		X		Excess emissions due to startup, shut down, and malfunction are permitted for no more than two hours in any 24 hour period unless specifically authorized by the FDEP for a longer duration.
					Excess emissions for up to 18 hours in a 24 hour period are specifically requested for the Bayside combined cycle CTs. See Section 2.2 of the PSD permit application for details.
Excess Emissions	62-210.700(2) and (3), F.A.C.	Х		_	Not applicable to the Bayside combined cycle CTs.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 6 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Excess Emissions	62-210.700(4), F.A.C.		Х		Excess emissions caused entirely or in part by poor maintenance, poor operations, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction are prohibited. (potential future requirement).
Excess Emissions	62-210.700(5), F.A.C.	x			Contains no applicable requirements.
Excess Emissions	62-210.700(6), F.A.C.		Х		Excess emissions resulting from malfunctions must be reported to the FDEP in accordance with 62-4.130, F.A.C. (potential future requirement).
Forms and Instructions	62-210.900, F.A.C.		X		Contains AOR requirements.
Notification Forms for Air General Permits	62-210.920, F.A.C.	х			Contains no applicable requirements.
Chapter 62-212, F.A.C Stationary	Sources - Preconstruction	Review			
Purpose and Scope	62-212.100, F.A.C.	х			Contains no applicable requirements.
General Preconstruction Review Requirements	62-212.300, F.A.C.		х		General air construction permit requirements.
Prevention of Significant Deteriora- tion	62-212.400, F.A.C.		x		PSD permit required prior to construction of Project.
New Source Review for Nonattainment Areas	62-212.500, F.A.C.	Х			Project is not located in a nonattainment area or a nonattainment area of influence.
Sulfur Storage and Handling Facilities	62-212.600, F.A.C.	х			Applicable only to sulfur storage and handling facilities.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 7 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Air Emissions Bubble	62-212.710, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.
Chapter 62-213, F.A.C Operation	Permits for Major Sources	of Air Pollutio	on		
Purpose and Scope	62-213.100, F.A.C.	X			Contains no applicable requirements.
Annual Emissions Fee	62-213.205(1), (4), and (5), F.A.C.		Х		Annual emissions fee and documentation requirements. (future requirement)
Annual Emissions Fee	62-213.205(2) and (3), F.A.C.	Х			Contains no applicable requirements.
Title V Air General Permits	62-213.300, F.A.C.	x			No eligible facilities
Permits and Permit Revisions Required	62-213.400, F.A.C.		X		Title V operation permit required. (future requirement)
Changes Without Permit Revision	62-213.410, F.A.C.		Х		Certain changes may be made if specific notice and recordkeeping requirements are met (potential future requirement).
Immediate Implementation Pending Revision Process	62-213.412, F.A.C.		Х		Certain modifications can be implemented pending permit revision if specific criteria are met (potential future requirement).
Fast-Track Revisions of Acid Rain Parts	62-213.413, F.A.C.			CT 1A-2D	Optional provisions for Acid Rain permit revisions (potential future requirement).
Trading of Emissions within a Source	62-213.415, F.A.C.	х			Applies only to facilities with a federally enforceable emissions cap.
Permit Applications	62-213.420(1)(a)2. and (1)(b), (2), (3), and (4), F.A.C.		х		Title V operating permit application required no later than 180 days after commencing operation. (future requirement)

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 8 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Issuance, Renewal, and Revision					
Action on Application	62-213.430(1), F.A.C.	X			Contains no applicable requirements.
Permit Denial	62-213.430(2), F.A.C.	X			Contains no applicable requirements.
Permit Renewal	62-213.430(3), F.A.C.		X		Permit renewal application requirements (future requirement).
Permit Revision	62-213.430(4), F.A.C.		X		Permit revision application requirements (potential future requirement).
EPA Recommended Actions	62-213.430(5), F.A.C.	X			Contains no applicable requirements.
Insignificant Emission Units	62-213.430(6), F.A.C.	X			Contains no applicable requirements.
Permit Content	62-213.440, F.A.C.	X			Agency procedures, contains no applicable requirements.
Permit Review by EPA and Affected States	62-213.450, F.A.C.	х			Agency procedures, contains no applicable requirements.
Permit Shield	62-213.460, F.A.C.		X		Provides permit shield for facilities in compliance with permit terms and conditions. (future requirement)
Forms and Instructions	62-213.900, F.A.C.		Х		Contains annual emissions fee form requirements.
Chapter 62-214—Requirements for Sources Subject to the Federal Acid Rain Program					
Purpose and Scope	§62-214.100, F.A.C.	X			Contains no applicable requirements.
Applicability	§62-214.300, F.A.C.		X		Project includes Acid Rain affected units, therefore compliance with §62-213 and §62-214, F.A.C., is required.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 9 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Applications	§62-214.320, F.A.C.			CT 1A-2D	Acid Rain application requirements. Application for new units are due at least 24 months before the later of 1/1/2000 or the date on which the unit commences operation. (future requirement)
Acid Rain Compliance Plan and Compliance Options	§62-214.330(1)(a), F.A.C.			CT 1A-2D	Acid Rain compliance plan requirements. Sulfur dioxide requirements become effective the later of 1/1/2000 or the deadline for CEMS certification pursuant to 40 CFR Part 75. (future requirement)
Exemptions	§62-214.340, F.A.C.		х		An application may be submitted for certain exemptions (potential future requirement).
Certification	§62-214.350, F.A.C.			CT 1A-2D	The designated representative must certify all Acid Rain submissions. (future requirement)
Department Action on Applications	§62-214.360, F.A.C.	X			Contains no applicable requirements.
Revisions and Administrative Corrections	§62-214.370, F.A.C.			CT 1A-2D	Defines revision procedures and automatic amendments (potential future requirement)
Acid Rain Part Content	§62-214.420, F.A.C.	X			Agency procedures, contains no applicable requirements.
Implementation and Termination of Compliance Options	§62-214.430, F.A.C.			CT 1A-2D	Defines permit activation and termination procedures (potential future requirement).
Chapter 62-242 - Motor Vehicle Standards and Test Procedures	62-242, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.
Chapter 62-243 - Tampering with Motor Vehicle Air Pollution Control Equipment	62-243, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 10 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-252 - Gasoline Vapor Control	62-252, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.
Chapter 62-256 - Open Burning and	Frost Protection Fires				
Declaration and Intent	62-256.100, F.A.C.	X			Contains no applicable requirements.
Definitions	62-256.200, F.A.C.	X			Contains no applicable requirements.
Prohibitions	62-256.300, F.A.C. ¹		X		Prohibits open burning.
Burning for Cold and Frost Protection	62-256.450, F.A.C.	X			Limited to agricultural protection.
Land Clearing	62-256.500, F.A.C. ¹		X		Defines allowed open burning for non- rural land clearing and structure demoli- tion.
Industrial, Commercial, Municipal, and Research Open Burning	62-256.600, F.A.C. ¹		X		Prohibits industrial open burning
Open Burning allowed	62-256.700, F.A.C.		X		Specifies allowable open burning activities. (potential future requirement)
Effective Date	62-256.800, F.A.C.	X			Contains no applicable requirements.
Chapter 62-257 - Asbestos Fee	62-257, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.
Chapter 62-281 - Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling	62-281, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 11 of 12)

					-
Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-296 - Stationary Source	- Emission Standards				
Purpose and Scope	62-296.100, F.A.C.	X			Contains no applicable requirements
General Pollutant Emission Limiting Standard, Volatile Organic Compounds Emissions	62-296.320(1), F.A.C.		X		Known and existing vapor control devices must be applied as required by the Department.
General Pollutant Emission Limiting Standard, Objectionable Odor Prohibited	62-296.320(2), F.A.C.		Х		Objectionable odor release is prohibited.
General Pollutant Emission Limiting Standard, Industrial, Commercial, and Municipal Open Burning Prohibited	62-296.320(3), F.A.C. ¹		х		Open burning in connection with industrial, commercial, or municipal operations is prohibited.
General Particulate Emission Limiting Standard, Process Weight Table	62-296.320(4)(a), F.A.C.	X			Project does not have any applicable emission units. Combustion emission units are exempt per 62-296.320(4)(a)1a.
General Particulate Emission Limiting Standard, General Visible Emission Standard	62-296.320(4)(b), F.A.C.		х		Opacity limited to 20 percent, unless otherwise permitted. Test methods specified.
General Particulate Emission Limiting Standard, Unconfined Emission of Particulate Matter	62-296.320(4)(c), F.A.C.		Х		Reasonable precautions must be taken to prevent unconfined particulate matter emission.
Specific Emission Limiting and Performance Standards	62-296.401 through 62- 296.417, F.A.C.	X			None of the referenced standards are applicable to the Bayside combined cycle CTs.
Reasonably Available Control Technology (RACT) Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO _x) Emitting Facilities	62-296.500 through 62- 296.516, F.A.C.	X			Project is not located in an ozone nonattainment area or an ozone air quality maintenance area.

Table 6-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements (Page 12 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Reasonably Available Control Technology (RACT) - Requirements for Major VOC- and NO _x -Emitting Facilities	62-296.570, F.A.C.	X			Project is not located in a specified ozone nonattainment area or a specified ozone air quality maintenance area (i.e., is not located in Broward, Dade or Palm Beach Counties)
Reasonably Available Control Technology (RACT) - Lead	62-296.600 through 62- 296.605, F.A.C.	X			Project is not located in a lead nonattainment area or a lead air quality maintenance area.
Reasonably Available Control Technology (RACT)—Particulate Matter	\$62-296.700 through 62-296.712, F.A.C.	X			Project is located in a PM air quality maintenance area. However, there are no limits applicable to CTs.
Chapter 62-297 - Stationary Sources	s - Emissions Monitoring				
Purpose and Scope	62-297.100, F.A.C.	X			Contains no applicable requirements.
General Compliance Test Requirements	62-297.310, F.A.C.		X		Specifies general compliance test requirements.
Compliance Test Methods	62-297.401, F.A.C.	X			Contains no applicable requirements.
Supplementary Test Procedures	62-297.440, F.A.C.	X			Contains no applicable requirements.
EPA VOC Capture Efficiency Test Procedures	62-297.450, F.A.C.	X			Not applicable to the Bayside combined cycle CTs.
CEMS Performance Specifications	62-297.520, F.A.C.	X			Contains no applicable requirements.
Exceptions and Approval of Alternate Procedures and Requirements	62-297.620, F.A.C.	X			Exceptions or alternate procedures have not been requested.

¹ - State requirement only; not federally enforceable.

Source: ECT, 2001.

ATTACHMENT 7 COMPLIANCE REPORT AND PLAN

ATTACHMENT 7

H. L. CULBREATH BAYSIDE POWER STATION

COMPLIANCE REPORT, PLAN, AND CERTIFICATION

1. Compliance Report and Plan

Attachments A-6A and A-6B to this Title V operation permit revision application, FINAL Permit No. PSD-FL-301A, and FINAL Title V Permit No. 0570040-017-AV identify the requirements that are applicable to the emission units that comprise this Title V source. Each emissions unit is in compliance, and will continue to comply, with the respective applicable requirements.

The emission units that comprise this Title V source will comply with future-effective applicable requirements on a timely basis.

2. Proposed Schedule for the Submission of Periodic Compliance Statements Throughout the Permit Term

Periodic compliance statements are proposed to be submitted on an annual basis within 60 days after the end of each calendar year pursuant to the requirements of FDEP Rule 62-213.440(3)(a)2.a, F.A.C.

3. Compliance Certification

General Manager

I, the undersigned, am the responsible official as defined in Chapter 62-210.200(220), F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Wade A. Maye

Date

ATTACHMENT 8 PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT 8

H. L. CULBREATH BAYSIDE POWER STATION

PROCEDURES FOR STARTUP AND SHUTDOWN OF THE COMBUSTION TURBINES

A. Startup

- 1. The unit is started with the load commutating inverter and brought to 850rpms for a five minute purge.

 Approx. 7 minutes
- 2. The unit is fired and brought to synchronous speed. Approx. 10 minutes
- 3. The generator breaker closes automatically and the unit is brought to 35MW for the fuel gas performance heater to warm up to operating temperature.

 Approx. 3 to 5 minutes
- 4. The selective catalytic reduction (SCR) system is placed in service when the exhaust gas temperature reaches 446 deg. F Approx. 15 to 45 minutes
- 5. Once the fuel gas temperature from the performance heater approaches 320°F begin to increase the load to 110MW and put the unit on automatic governor control.

 Approx. 5 to 10 minutes

B. Shutdown

- 1. The unit is taken off automatic governor control. Approx. 1 minute
- 2. Initiate the stop command on the CT. The unit will ramp down to full speed no load, the generator breaker will open, and the unit will roll down to turning gear.

 Approx. 10 minutes

ATTACHMENT 9 HRSG FINAL DESIGN DATA

Data Source			ABB
Ambient conditions			75F/80% RH
GT Load	%		100
Fuel Type	 		FG365
Evaporative Cooler	On/Off		On
No. GT in Operation			3
System (Case Number)	UNITS	STREAM	37
Gas Turbine Gross Output/GT	MW	011121111	163.
HRSG (Each)	1		100.
Gas Turbine Exhaust Flow	Lb/h	1	3,452,00
Gas Turbine Exhaust Temp	F	1	113
Gas Turbine Exhaust - Argon	Vol frac	<u> </u>	0.008
Gas Turbine Exhaust - Nitrogen	Vol frac	1	0.734
Gas Turbine Exhaust - Oxygen	Vol frac	1	0.121
Gas Turbine Exhaust - CO2	Vol frac	1	0.038
Gas Turbine Exhaust - CO2 Gas Turbine Exhaust - Water	Vol frac	1	0.036
	Lb/h	66	
Condensate Inlet Flow Condensate Inlet Temperature (mixed)	F F		587,85
		66	12
HP Outlet Pressure	Psia	3	*159
HP Outlet Temperature	F	3	*101
HP Outlet Flow	Lb/h	3	*458,78
HP Attemperature Flow	Lb/h	49	74
HP Blowdown Flow	Lb/h	125	4,63
Pressure drop from limit of supply to economizer inlet	Psid		later
Pressure drop from Economizer inlet to drum	Psid		later
Pressure drop from Drum to Steam limit of supply	Psid		later
CR Return Pressure/IP Steam Pressure	Psia	64	*58
CR Return Temperature	F	64	76
CR Return Flow	Lb/h	64	449,37
RH Outlet Pressure	Psia	13	56
RH Outlet Temperature	F	13	*101
RH Outlet Flow	Lb/h	13	*503,70
RH Attemperature Flow	Lb/h	42	40
IP Blowdown Flow	Lb/h	100	54
IP Admission Flow	Lb/h	9	*53,96
Pressure drop from limit of supply to economizer inlet	Psid		later
Pressure drop from Economizer inlet to drum	Psid		later
Pressure drop from Drum to Steam limit of supply	Psid		later
LP Outlet Pressure	Psia	51	*14
LP Outlet Temperature	F	51	*45
LP Outlet Flow	Lb/h	51	*36,72
LP Blowdown Flow	Lb/h	98	N/A
Pressure drop from limit of supply to economizer inlet	Psid		later
Pressure drop from Economizer inlet to drum	Psid		later
Pressure drop from Drum to Steam limit of supply	Psid		later
Fuel Preheating Water flow	Lb/h	114	32,09
Fuel Perf Htr Water Send Temp	F	114	32,09
Fuel Perf Htr Water/Snd Pressure	Psia	114	later
	F	116	later
Fuel Perf Htr Water Rtn Temp	Lb/h		
Total Makeup Flow		EXH	later 22
Stack Temperature - Inlet	F	EXH	
Stack Temperature - Outlet	F 120	EXH	later
Pressure Drop, Gas Side, through HRSG	In-H20		-1
Gas Velocity	Fps	EXH	later
Pinch Points	Units		later
HP evaporator	F		1
IP evaporator	F		1
LP evaporator	F		1
Approach Temperatures			later
HP evaporator	F		
P evaporator	F		1
LP evaporator	F		2
CO Catalyst location fuel gas temperature	F	EXH	62
SCR Catalyst location fuel gas temperature	F		62
NOx Removal Efficiency	%	EXH	later
NH3 Consumption	Lb/hr	EXH	later
NH3/NOx Molar Ratio		EXH	later
NH3 Slip	Ppmvd	EXH	*1
Draft Loss Across SCR	In-H20	EXH	
O2 at stack	Vol%	EXH	later
N3 at stack	Vol%	EXH	later
CO2 at stack	Vol%	EXH	later
H2O at stack	Vol%	EXH	later
	Vol%	EXH	later
AR at stack	Ppmvd		later
CO (15% O2)		EXH	
NOx (15% O2)	Ppmvd	EXH	*3.
SO2 (15% O2)	Ppmvd	EXH	later
SO3 (15% O2)	Ppmvd	EXH	later
Catalyst Life	Hours		*35,00
Noise	dBA @ 3ft		*85

Notes:

1. Case 37 is included as part of the Performance
Guarantees; all other cases set forth the Expected
Performance of the HRSG Packages under the conditions
specified in these Specifications and this Attachment 1-4.

2. Hot reheat flow & temperature Performance Guarantees

Data Source			ABB
Ambient conditions			75F/80% RH
GT Load	%		100
Fuel Type			FG365
Evaporative Cooler	On/Off		On
No. GT in Operation			3
System (Case Number)	UNITS	STREAM	37
Gas Turbine Gross Output/GT	MW		163
HRSG (Each)			
Gas Turbine Exhaust Flow	Lb/h	1	3,452,0
Gas Turbine Exhaust Temp	F	1	11:
Gas Turbine Exhaust - Argon	Vol frac	1	0.00
Gas Turbine Exhaust - Nitrogen	Vol frac	1	0.73
Gas Turbine Exhaust - Oxygen	Vol frac	1	0.12
Gas Turbine Exhaust - CO2	Vol frac	1	0.03
Gas Turbine Exhaust - Water	Vol frac	1	0.09
Condensate Inlet Flow	Lb/h	66	540,0
Condensate Inlet Temperature	F	66	10
HP Outlet Pressure	Psia	3	*14
HP Outlet Temperature	F	3	*10
HP Outlet Flow	Lb/h	3	*450,0
HP Attemperature Flow	Lb/h	49	11
HP Blowdown Flow	Lb/h	125	4,5
Pressure drop from limit of supply to economizer inlet	Psid		later
Pressure drop from Economizer inlet to drum	Psid		later
Pressure drop from Drum to Steam limit of supply	Psid		later
CR Return Pressure/IP Steam Pressure	Psia	64	*4:
CR Return Temperature	F	64	7:
CR Return Flow	Lb/h	64	440,3
RH Outlet Pressure	Psia	13	440,3
RH Outlet Temperature	F	13	*10
RH Outlet Flow	Lb/h	13	*510,0
RH Attemperature Flow	Lb/h	42	310,0
IP Blowdown Flow	Lb/h	100	- 1
IP Admission Flow	Lb/h		*69,7
		9	
Pressure drop from limit of supply to economizer inlet	Psid		later
Pressure drop from Economizer inlet to drum	Psid		later
Pressure drop from Drum to Steam limit of supply	Psid		later
LP Outlet Pressure	Psia	51	*10
LP Outlet Temperature	F	51	*4
LP Outlet Flow	Lb/h	51	*14,9
LP Blowdown Flow	Lb/h	98	N/A
Pressure drop from limit of supply to economizer inlet	Psid		later
Pressure drop from Economizer inlet to drum	Psid		later
Pressure drop from Drum to Stearn limit of supply	Psid		later
Fuel Preheating Water flow	Lb/h	114	35,8
Fuel Perf Htr Water Send Temp	F	114	4
Fuel Perf Htr Water/Snd Pressure	Psia	114	4
Fuel Perf Htr Water Rtn Temp	F	116	
Total Makeup Flow	Lb/h	EXH	later
Stack Temperature - Inlet	F	EXH	2:
Stack Temperature - Outlet	F	EXH	later
Pressure Drop, Gas Side, through HRSG	in-H20		*13
Gas Velocity	Fps	EXH	later
Pinch Points	Units		later
HP evaporator	F		- Idea
P evaporator	F		
LP evaporator	F		
Approach Temperatures	ľ		later
HP evaporator	F		latei
P evaporator	F		
LP evaporator	F		
CO Catalyst location fuel gas temperature	F	EXH	N/A
SCR Catalyst location fuel gas temperature	F	EAN	- 1N/A 6
NOx Removal Efficiency	%	EXH	iater
NOX Removal Emiciency NH3 Consumption	Lb/hr	EXH	
NH3/NOx Molar Ratio	CD/III		later
	Domind	EXH	later
NH3 Slip	Ppmvd	EXH	
Draft Loss Across SCR	In-H20	EXH	later
O2 at stack	Vol%	EXH	later
N3 at stack	Voi%	EXH	later
CO2 at stack	Vol%	EXH	later
120 at stack	Voi%	EXH	later
AR at stack	Vol%	EXH	later
CO (15% O2)	Ppmvd	EXH	later
NOx (15% O2)	Ppmvd	EXH	*0
SO2 (15% O2)	Ppmvd	EXH	later
SO3 (15% O2)	Ppmvd	EXH	later
Catalyst Life	hour		*35,0
	dBA @ 3ft		*86

Notes:

1. Case 37 is included as part of the Performance Guarantees; all other cases set forth the Expected Performance of the HRSG Packages under the conditions specified in these Specifications and this Attachment 1-4.

2. Hot reheat flow & temperature Performance Guarantees

ATTACHMENT 10

EVAPORATIVE INLET AIR-COOLING FINAL DESIGN DATA



Donaldson Company PN 0SM-AD26349-01 Unit Specific System Technical Manual

3.2.2 General Evap. Design Specifications

Component/Condition	Setting
Evap. Air Pressure Drop	0.26 in. w.g.
Drift Eliminator Media Air Pressure Drop	0.04 in. w.g.
Evap. Media Velocity (ISO)	528 fpm
Estimated Saturation Efficiency	88 percent

3.2.3 Water Delivery System Design Conditions

Component/Condition	Setting
Design Conditions	
Relative Humidity	60%
Entering Conditions (degree F)	
DBE (Dry Bulb Entry temperature)	99° F
WBE (Wet Bulb Entry temperature)	93 ° F
Water Use (design conditions)	
Evaporation Rate	9 gpm
Maximum Blow-Down Rate	9 gpm
Make-Up Water Rate	18 gpm
Water to Pump #1	108 gpm
Water to Pump #2	99 gpm
Flow to Media	198 gpm



Donaldson Company PN 0SM-AD26349-01 Unit Specific System Technical Manual

3.2.4 Control Component Specifications

Component	Qty	Capacity
Blow-Down Flow Meter to Sump and Drain	1	0-100 gpm
Supply Flow Meters	6	0-60 gpm
Level Sensing Transmitter	1	
Solenoid valves	2	
Pump, right side	1	200 gpm @ 115 TDH
Pump, left side	1	200 gpm @ 115 TDH
Conductivity Transmitters	2	4-20mA Signal where 4 = 0 and 20 = 5000 μS/cm.

3.2.5 Flow Design Settings

Component	Function	Operational Optimum/Setting
Supply Flow Meters	Shows the recirculating (supply) flow to a distribution manifold. There are 2 flow meters per distribution manifold, one above the left-side supply pump and one above the right-side supply pump.	33 gpm (each meter)
Blow-Down Flow Meter	Shows the excess flow from the distribution manifolds. Flow returns to the sump, except when solenoid drain valve diverts flow to drain.	~ 65 gpm (Each Meter)
Water Level Sensing Transmitter	Signals low/high level condition when setting is reached. Also regulates make-up water.	10 inches (low water)

ATTACHMENT 11 AIR PERMIT NO. PSD-FL-301A

PERMITTEE:

Tampa Electric Company – Bayside Power Station Port Sutton Road Tampa, FL 33619

Authorized Representative:

Ms. Karen Sheffield, General Manager

Project No. 0570040-015-AC Air Permit No. PSD-FL-301A Facility ID No. 0570040 SIC No. 4911

Expires: July 1, 2005

PROJECT AND LOCATION

This permit authorizes construction of eleven new combined cycle gas turbines with an approximate electrical production capacity of 2845 MW. The new units will be used to re-power the steam-electrical generators for Units 3, 4, 5, and 6 at the existing F. J. Gannon Station. The re-powered plant will be renamed the "Bayside Power Station". The project will be located within the existing plant boundaries on Tampa's Port Sutton Road in Hillsborough County, Florida. The UTM coordinates are: Zone 17, 360.00 km E, 3087.50 km N.

STATEMENT OF BASIS

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. This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.) and 40 CFR 52.21. Specifically, this permit is issued pursuant to the Chapter 62-212, F.A.C. requirements for Preconstruction Review of Stationary Sources and the Prevention of Significant Deterioration (PSD) of Air Quality. The conditions of this permit do not relieve the permittee from any applicable requirement of the DEP/TEC Consent Final Judgment or the EPA/TEC Consent Decree.

APPENDICES

The following Appendices are attached as part of this permit.

Appendix A - Terminology

Appendix B - Final BACT Determinations and Emissions Standards

Appendix E - Summary of Mass Emissions Rates

Appendix GC - General Conditions

Appendix GG - NSPS Subpart GG Requirements for Gas Turbines
Appendix XS - Semi-Annual Continuous Monitor Systems Report

Howard L. Rhodes, Director Division of Air Resources Management

Effective Date

PROJECT DESCRIPTION

Upon completion of construction and shutdown of all coal-fired units, the new Bayside Power Station will have an approximate electrical production capacity of 2845 MW based on the nominal capacities for Bayside Unit 1 (746 MW), Bayside Unit 2 (1090 MW), Bayside Unit 3 (501 MW), and Bayside Unit 4 (508 MW). Note that the final design may not fully utilize the nameplate capacities of the existing steam-electrical turbines. The following table summarizes the emission units regulated by this air construction permit.

EU No.	Emission Unit Description
001	Gannon Unit 1 – existing coal fired boiler with 125 MW steam electrical generator
002	Gannon Unit 2 – existing coal fired boiler with 125 MW steam electrical generator
003	Gannon Unit 3 – existing coal fired boiler with 180 MW steam electrical generator
004	Gannon Unit 4 – existing coal fired boiler with 188 MW steam electrical generator
005	Gannon Unit 5 – existing coal fired boiler with 239 MW steam electrical generator
006	Gannon Unit 6 – existing coal fired boiler with 414 MW steam electrical generator
008	Gannon Station Coal Yard – Serves existing Gannon Units 1 – 6
020	Bayside Unit 1A – 169 MW combined cycle gas turbine fired with natural gas
021	Bayside Unit 1B – 169 MW combined cycle gas turbine fired with natural gas
022	Bayside Unit 1C – 169 MW combined cycle gas turbine fired with natural gas
023	Bayside Unit 2A – 169 MW combined cycle gas turbine fired with natural gas
024	Bayside Unit 2B - 169 MW combined cycle gas turbine fired with natural gas
025	Bayside Unit 2C – 169 MW combined cycle gas turbine fired with natural gas
026	Bayside Unit 2D – 169 MW combined cycle gas turbine fired with natural gas
027	Bayside Unit 3A – 169 MW combined cycle gas turbine fired with natural gas
028	Bayside Unit 3B - 169 MW combined cycle gas turbine fired with natural gas
029	Bayside Unit 4A – 169 MW combined cycle gas turbine fired with natural gas
030	Bayside Unit 4B – 169 MW combined cycle gas turbine fired with natural gas

Notes:

- a. Gannon Unit 5 (EU 005) must be shutdown before operating Bayside Unit 1 (EUs 020, 021, and 022).
- b. Gannon Unit 6 (EU 006) must be shutdown before operating Bayside Unit 2 (EU 023, 024, 025, and 026).
- c. Gannon Unit 3 (EU 003) must be shutdown before operating Bayside Unit 3 (EU 027 and 028).
- d. Gannon Unit 4 (EU 004) must be shutdown before operating Bayside Unit 4 (EU 029 and 030).
- e. EUs 001, 002, 003, 004, 005, and 006 must be shut down before January 1, 2005. The Department expects that other coal-related activities will also cease operation shortly after the shutdown of these coal-fired boilers.

REGULATORY CLASSIFICATION

<u>Title III</u>: The existing facility is a major source of hazardous air pollutants (HAPs). Based on the available information, this project is not subject to the requirements of a 112(g) case-by-case determination of the Maximum Available Control Technology (MACT).

<u>Title IV</u>: The existing facility has several emissions units, including the new combined cycle gas turbines, which are subject to the Acid Rain provisions of the Clean Air Act.

SECTION I. FACILITY INFORMATION

<u>Title V</u>: The existing facility is a Title V major source of air pollution because the potential emissions of at least one regulated pollutant exceed 100 tons per year. Regulated pollutants include pollutants such as carbon monoxide (CO), nitrogen oxides (NOx), particulate matter (PM/PM10), sulfur dioxide (SO2), and volatile organic compounds (VOC).

<u>PPSC</u>: The existing Gannon Station was constructed prior to the power plant site certification requirements of Chapter 62-17, F.A.C. The re-powering project is not subject to power plant site certification because there will be no expansion of the steam electrical generating capacity.

<u>PSD</u>: The existing facility is located in an area that is in attainment with, or designated as unclassifiable for, each pollutant subject to a National Ambient Air Quality Standard. It is classified as a fossil fuel-fired steam electric plant, which is one of the 28 PSD Major Facility Categories identified in Table 62-212.400-1, F.A.C. Emissions from the facility are greater than 100 tons per year for at least one regulated pollutant. Therefore, the facility is "major" with respect to Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

<u>NESHAP</u>: The permittee did not identify any emission unit as being subject to a National Emissions Standard for Hazardous Air Pollutants (NESHAP).

NSPS: The new combined cycle gas turbines are subject to the New Source Performance Standards (NSPS) of 40 CFR 60, Subpart GG.

RELEVANT DOCUMENTS

- DEP/TEC Consent Final Judgment signed on December 7, 1999.
- EPA/TEC Consent Decree entered on October 5, 2000.
- PSD permit application (Bayside Units 1 and 2) received on September 21, 2000 and all related correspondence.
- Original PSD air construction Permit No. PSD-FL-301 issued on March 30, 2001.
- PSD permit application (Bayside Units 3 and 4) received on June 26, 2001 and all related correspondence.

ADMINISTRATIVE REQUIREMENTS

- 1. Effective Date: The effective date of this permit is specified on the placard page (page 1).
- 2. <u>Permitting Authority</u>: All documents related to applications for permits to construct, operate or modify an emissions unit shall 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 and phone number 850/488-0114. Copies shall also be provided to the Compliance Authority.
- 3. Compliance Authority: All documents related compliance activities such as reports, tests, and notifications shall be submitted to the Air Management Division of the Environmental Protection Commission of Hillsborough County, 1410 North 21 Street, Tampa, FL 33605. The phone number is 813/272-5530 and the fax number is 813/272-5605. Copies of all such documents shall be submitted to the Air Resources Section of the Southwest District Office, Florida Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8218. The phone number is 813/744-6100 and the fax number is 813/744-6084.
- 4. <u>Terminology</u>: The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. *Appendix A* lists frequently used abbreviations and explains the format used to cite rules and regulations in this permit.
- 5. <u>General Conditions</u>: The owner and operator are subject to, and shall operate under, the attached General Conditions listed in *Appendix GC* of this permit. [Rule 62-4.160, F.A.C.]
- 6. 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, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.); and the Title 40, Parts 52, 60, 72, 73, and 75 of the Code of Federal Regulations (CFR), adopted by reference in Rule 62-204.800, F.A.C. 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.]
- 7. <u>PSD Expiration</u>: Approval to construct shall become invalid if construction is not commenced within 18 months of the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if 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. Such an extension does not relieve the permittee from any applicable requirement of the DEP/TEC Consent Final Judgment or the EPA/TEC Consent Decree. [40 CFR 52.21(r)(2)]
- 8. <u>Permit Expiration</u>: 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. Such an extension does not relieve the permittee from any applicable requirement of the DEP/TEC Consent Final Judgment or the EPA/TEC Consent Decree. [Rules 62-4.070(4), 62-4.080, and 62-210.300(1), F.A.C.]
- 9. <u>BACT Determination</u>: In conjunction with an extension of the 18-month period to commence or continue construction, phasing of the project, or an extension of the permit expiration date, the permittee may be required to demonstrate the adequacy of any previous determination of Best Available Control Technology (BACT) for the source. [Rule 62-212.400(6)(b), F.A.C. and 40 CFR 51.166(j)(4)]
- 10. 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.]
- 11. <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. [Rules 62-210.200 (Definitions) and 62-210.300(1), F.A.C.]
- 12. 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 Region 4 office of the U.S. Environmental Protection Agency in Atlanta, Georgia and a copy to the Department's Bureau of Air Regulation in Tallahassee. [40 CFR 72]
- 13. <u>Title V Permit</u>: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least ninety days prior to expiration of this permit, but no later than 180 days after commencing operation. 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 with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

EMISSIONS AND CONTROLS

- 13. <u>Unconfined Particulate Emissions</u>: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]
- 14. <u>Circumvention</u>: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
- 15. 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. [Rule 62-210.700(4), F.A.C.]
- 16. <u>Plant Operation Problems</u>: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify the Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]

TESTING REQUIREMENTS

- 17. <u>Sampling Facilities</u>: The permittee shall provide stack testing facilities and sampling locations in accordance with Rule 62-297.310(6), F.A.C.
- 18. <u>Test Procedures</u>: Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C.
 - a. Required Sampling Time. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur.

- b. Minimum Sample Volume. Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet.
- c. Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C.

[Rule 62-297.310(4), F.A.C.]

- 19. <u>Test Notification</u>: The permittee shall notify the Compliance Authority in writing at least 30 days prior to any initial NSPS performance tests and at least 15 days prior to any other required tests. [Rule 62-297.310(7)(a)9, F.A.C.; 40 CFR 60.7; 40 CFR 60.8]
- 20. <u>Calculation of Emission Rate</u>: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

21. Determination of Process Variables

- a. Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards. [Rule 62-297.310(5)(a), F.A.C.]
- b. Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value. [Rule 62-297.310(5)(b), F.A.C.]
- 22. <u>Special Compliance Tests</u>: When the Compliance Authority, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Compliance Authority. [Rule 62-297.310(7)(b), F.A.C.]

RECORDS AND REPORTS

- 23. <u>Records Retention</u>: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Compliance Authority upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2, F.A.C.]
- 24. Emissions Performance Test Reports: A report indicating the results of any required emissions performance test shall be submitted to the Compliance Authority no later than 45 days after completion of the last test run. The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the Compliance Authority to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report shall provide the applicable information listed in Rule 62-297.310(8)(c), F.A.C. [Rule 62-297.310(8), F.A.C.]
- 25. <u>Annual Operating Report</u>: The permittee shall submit an annual report that summarizes the actual operating rates 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.]

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

A. COMBINED CYCLE GAS TURBINES

This section of the permit addresses the following new emissions units.

Emissions Units 020 - 030: Combined Cycle Gas Turbines

Description: Each emissions unit consists of a General Electric Model PG7241(FA) gas turbine-electrical generator set, an automated gas turbine control system, an inlet air filtration system, an evaporative inlet air cooling system, an unfired heat recovery steam generator (HRSG), a single exhaust stack that is 150 feet tall and 19.0 feet in diameter, and associated support equipment. The project also includes electric fuel heaters and cooling towers. Natural gas is the exclusive fuel.

Heat Input: At a compressor inlet air temperature of 59° F and firing 1842 MMBtu (HHV) per hour of natural gas, each unit produces a nominal 169 MW of shaft-driven electricity. Exhaust gases exit the stack with a volumetric flow rate of approximately 1,030,000 acfm at 220° F.

Generating Capacity: The following table summarizes the electrical generating capacity for each combination of combined cycle gas turbines and steam-electrical turbines.

EU No.	Bayside GT Unit	GT MW, Shaft	Existing Gannon ST	MW, ST	Total
020	1A	169 MW	No. 5	239	746
021	1B	169 MW			
022	1C	169 MW			
023	2A	169 MW	No. 6	414	1090
024	2B	169 MW			
025	2C	169 MW			
026	2D	169 MW			
027	3A	169 MW	No. 3	163	501
028	3B	169 MW			
029	4A	169 MW	No. 4	170	508
030	4B	169 MW			
Totals	11 GTs	1859 MW	4 STs	986	2845

Note: GT means gas turbine. The nameplate generating capacity is shown for the steam-electrical turbines (ST). The final design may not fully utilize the nameplate generating capacity.

Controls: The efficient combustion of natural gas at high temperatures minimizes the emissions of CO, PM/PM10, and VOC. Firing natural gas as the only authorized fuel minimizes emissions of SAM and SO2 because natural gas contains only small amounts of sulfur. A selective catalytic reduction (SCR) system combined with dry low-NOx (DLN) combustion technology reduces NOx emissions.

Continuous Monitors: Each gas turbine is equipped with continuous emissions monitoring systems (CEMS) to measure and record CO and NOx emissions as well as flue gas carbon dioxide content.

APPLICABLE STANDARDS AND REGULATIONS

1. <u>BACT Determinations</u>: The emissions units addressed in this section are subject to Best Available Control Technology (BACT) determinations for carbon monoxide (CO), particulate matter (PM/PM10), and volatile organic compounds (VOC). [Rule 62-212.400(BACT), F.A.C.]

SECTION III. EMISSIONS UNIT SPECIFIC CONDITIONS

A. COMBINED CYCLE GAS TURBINES

- 2. <u>NSPS Requirements</u>: Each gas turbine shall comply with all applicable requirements of 40 CFR 60, adopted by reference in Rule 62-204.800(7)(b), F.A.C.
 - a. Subpart A, General Provisions, including: 40 CFR 60.7 (Notification and Record Keeping), 40 CFR 60.8 (Performance Tests), 40 CFR 60.11 (Compliance with Standards and Maintenance Requirements), 40 CFR 60.12 (Circumvention), 40 CFR 60.13 (Monitoring Requirements), and 40 CFR 60.19 (General Notification and Reporting Requirements).
 - b. Subpart GG, Standards of Performance for Stationary Gas Turbines as specified in *Appendix GG* of this permit.

EQUIPMENT

- 3. <u>Schedule</u>: Bayside Unit 1 is scheduled for completion in May of 2003 and Bayside Units 2, 3, and 4 are scheduled for completion in May of 2004. The permittee shall inform the Department and Compliance Authority of any substantial changes to the construction schedule. [Application; Rule 62-212.400(BACT), F.A.C.]
- 4. Combined Cycle Gas Turbines: The permittee is authorized to install, tune, operate and maintain eleven new General Electric Model PG7241(FA) gas turbines with electrical generator sets, each designed to produce a nominal 169 MW of shaft-driven electrical power. Each unit shall be designed as a combined cycle system to include an automated gas turbine control system, an inlet air filtration system, an unfired heat recovery steam generator (HRSG), a single exhaust stack that is 150 feet tall and 19.0 feet in diameter, and associated support equipment. [Applicant Request; Design]
- 5. <u>Heat Recovery Steam Generators (HRSG)</u>: The preliminary design of the HRSGs provides three levels of steam conditions when firing natural gas (high pressure, intermediate pressure, and low pressure). The permittee shall submit the final design data with the Title V application. [Design]
- 6. <u>Automated Control System</u>: The permittee shall install, calibrate, tune, operate, and maintain a Speedtronic[™] Mark VI automated control system (or better) for each gas turbine. Each system shall be designed and operated to monitor and control the gas turbine combustion process and operating parameters including, but not limited to: air/fuel distribution and staging, turbine speed, load conditions, temperatures, heat input, and fully automated startup and shutdown. [Design; 62-212.400(BACT), F.A.C.]
- 7. <u>DLN Combustion Technology</u>: The permittee shall install, tune, operate and maintain the General Electric dry low-NOx combustion system (DLN 2.6 or better) to provide efficient lean premix combustion. Prior to the initial emissions performance tests for each gas turbine, the DLN combustors and automated gas turbine control system shall be tuned to reduce CO and NOx emissions. Thereafter, each system shall be maintained and tuned in accordance with the manufacturer's recommendations. [Design; Rule 62-212.400(BACT), F.A.C.]
- 8. <u>SCR System</u>: The permittee shall install, tune, operate and maintain a selective catalytic reduction (SCR) system to reduce NOx emissions from each combined cycle gas turbine. The SCR system shall consist of an ammonia injection grid, catalyst, ammonia storage, a monitoring and control system, electrical system, piping, and other ancillary equipment. The SCR system shall be designed to reduce NOx emissions while minimizing ammonia slip within the permitted levels. [DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree; Rule 62-4.070(3), F.A.C.]
- 9. Evaporative Inlet Air-Cooling System: Each gas turbine may have an evaporative cooling system designed to reduce the temperature of the inlet air to the gas turbine compressor. The reduced temperature provides a greater mass flow rate and increases power production with additional fuel combustion. The preliminary design is for a water distribution system with packed media blocks of corrugated layers of fibrous material.

A. COMBINED CYCLE GAS TURBINES

Air passing over the system wicks moisture away from the media to create the cooling effect. The permittee shall submit the final design data with the Title V application. [Applicant Request; Design]

PERFORMANCE RESTRICTIONS

- 10. Permitted Capacity: The maximum heat input rate to each gas turbine shall not exceed 1842 MMBtu per hour while producing approximately 169 MW (shaft). The maximum heat input rate is based on a compressor inlet air temperature of 59° F, the higher heating value (HHV) of natural gas and expected performance levels. Heat input rates will vary depending upon gas turbine characteristics, ambient conditions, and evaporative cooling. The permittee shall provide the 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. [Design; Rule 62-210.200(PTE), F.A.C.]
- 11. <u>Allowable Fuels</u>: Each gas turbine shall fire only pipeline-quality natural gas. The fuel sulfur content shall not exceed 2 grains per 100 SCF of natural gas based on a 12-month rolling average. Compliance shall be demonstrated each month by compiling the daily fuel sulfur analyses provided by the pipeline vendor. Methods for determining the sulfur content of the natural gas shall be ASTM methods D4084-82, D3246-81 or equivalent methods. No other fuels are allowed. [Design; Rules 62-210.200(PTE); DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree]
- 12. <u>Restricted Operation</u>: The hours of operation for each gas turbine are not limited (8760 hours per year). [Rules 62-212.400(BACT) and 62-210.200(PTE), F.A.C.; EPA/TEC Consent Decree]
- 13. Operating Procedures: The Best Available Control Technology (BACT) determinations established by this permit rely on "good operating practices" to minimize emissions. Therefore, all operators and supervisors shall be properly trained to operate and maintain the gas turbines and pollution control systems in accordance with the guidelines and procedures established by the manufacturer. The training shall include good operating practices as well as methods to minimize emissions during startup and shutdown. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

EMISSIONS STANDARDS

{Permitting Note: A summary table of the emissions standards is provided in Appendix B of this permit.}

- 14. Emissions Standards Based on Performance Tests: The following standards apply to each combined cycle gas turbine as determined by emissions performance tests conducted at permitted capacity. The mass emission limits are based on a compressor inlet temperature of 59° F. The permittee shall provide the 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 shall be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department.
 - a. Ammonia Slip: Subject to the requirements of Condition No. 22 in this section, each SCR system shall be designed and operated for an ammonia slip target of less than 5 ppmvd corrected to 15% oxygen based on the average of three test runs. [Rule 62-4.070(3), F.A.C.]
 - b. Carbon Monoxide (CO): CO emissions shall not exceed 28.7 pounds per hour and 7.8 ppmvd corrected to 15% oxygen based on the average of three test runs as determined by EPA Method 10. [Rule 62-212.400(BACT), F.A.C.]

A. COMBINED CYCLE GAS TURBINES

- c. Nitrogen Oxides (NOx): NOx emissions shall not exceed 23.1 pounds per hour and 3.5 ppmvd corrected to 15% oxygen based on the average of three test runs as determined by EPA Method 7E. NOx emissions are defined as oxides of nitrogen reported as NO2. [DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree; 40 CFR 60.332]
- d. Particulate Matter (PM/PM10): The exclusive firing of pipeline-quality natural gas combined with the efficient combustion design and operation of each gas turbine represent the Best Available Control Technology (BACT) requirements for particulate matter emissions. Compliance with carbon monoxide and visible emissions standards shall serve as continuous indicators of efficient combustion to minimize particulate matter emissions. No performance tests are required. [Rule 62-212.400(BACT), F.A.C.]
- e. Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2): The exclusive firing of pipeline-quality natural gas effectively limits potential emissions of SO2 and SAM. No performance tests are required. [Design; DEP/TEC Consent Final Judgment; EPA/TEC Consent Decree; 40 CFR 60.333]
- f. Visible Emissions: Visible emissions shall not exceed 10% opacity, based on a 6-minute average as determined by EPA Method 9. Except as allowed by Condition No. 17 of this section, this standard applies to all loads. [Rule 62-212.400(BACT), F.A.C.]
- g. Volatile Organic Compounds (VOC): The exclusive firing of pipeline-quality natural gas combined with the efficient combustion design and operation of each gas turbine represent the Best Available Control Technology (BACT) requirements for VOC emissions. Compliance with carbon monoxide standards shall serve as a continuous indicator of efficient combustion to minimize VOC emissions. No performance tests are required. [Design; Rule 62-212.400(BACT), F.A.C.]
- 15. <u>Emissions Standards Based on CEMS Data</u>: The following standards apply to each gas turbine based on data collected from each required Continuous Emissions Monitoring System (CEMS).
 - a. Carbon Monoxide (CO): CO emissions shall not exceed 9.0 ppmvd corrected to 15% oxygen based on a 24-hour block average of CEMS data.
 - b. Nitrogen Oxides (NOx): NOx emissions shall not exceed 3.5 ppmvd corrected to 15% oxygen based on a 24-hour block average of CEMS data.

Each 24-hour block average shall start at midnight each operating day and shall be calculated from 24 consecutive 1-hour averages. If a unit operates less than 24 hours during the block, the 24-hour block average shall be the average of the available valid 1-hour averages. [Rules 62-212.400(BACT) and 62-4.070(3), F.A.C.]

STARTUP, SHUTDOWN, MALFUNCTION, AND LOW LOAD OPERATION

- 16. 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 the compliance averages determined from the CO and NOx CEMS data. [Rule 62-210.700(4), F.A.C.]
- 17. Alternate Standards and CEMS Data Exclusion: The following permit conditions establish alternate standards or allow the exclusion of monitoring data for specifically defined periods of startup, shutdown, and documented malfunction of a gas turbine. These conditions apply only if operators employ the best operational practices to minimize the amount and duration of emissions during such incidents.
 - a. Opacity During Startup and Shutdown: During startup and shutdown, the opacity of the exhaust gases shall not exceed 10%, except for up to ten 6-minute averaging periods in a calendar day during

A. COMBINED CYCLE GAS TURBINES

- which the opacity shall not exceed 20%. Data for each 6-minute averaging period shall be exclusive from other 6-minute averaging periods.
- b. Low Load Operation: Excluding startup, shutdown, and documented malfunction, each gas turbine is allowed up to three hours of operation below 50% base load in any 24-hour block, providing: the gas turbine is firing natural gas; the CO and NOx CEMS are functioning properly during such periods and recording valid emissions data within the span range of the monitors; and the gas turbine remains in compliance with the CO and NOx emissions standards based on 24-hour block averages of valid CEMS data.
- c. CEMS Data Exclusion: For the following identified operational periods, CO and NOx emissions data may be excluded from the 24-hour block compliance averages in accordance with the corresponding requirements.
 - (1) Startup, Shutdown, and Malfunction: Periods of data excluded for gas turbine startup (excluding steam turbine cold startup), shutdown, or documented malfunction shall not exceed four 1-hour emission averages in any 24-hour block due to all such episodes. Gas turbine startup is the commencement of operation of a gas turbine that has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, or pollution control device imbalances, which may result in elevated emissions. Shutdown is the process of bringing a gas turbine off line and ending fuel combustion. A malfunction is 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. A documented malfunction is a malfunction that is documented within one working day of detection by contacting the Compliance Authority by telephone, facsimile transmittal, or electronic mail.
 - (2) Steam Turbine Cold Startup: Periods of data excluded for a steam turbine cold startup shall not exceed sixteen 1-hour emission averages in any 24-hour block. A "steam turbine cold startup" is defined as startup after the steam turbine has been offline for 24 hours or more or the first stage turbine metal temperature is 250° F or less. Based on actual operating data and experience, the Department may modify this period of data exclusion in the Title V air operation permit without modifying this PSD permit.
 - (3) Tuning: If the permittee provides at least five days advance notice prior to a major tuning session performed by the manufacturer's representative, monitoring data during tuning may be excluded from the 24-hour block compliance averages. Periods of data excluded for such episodes shall not exceed a total of three 1-hour averages in any 24-hour block. Tuning sessions must be performed in accordance with the manufacturer's recommendations. {Permitting Note: As an example, a major tuning session would occur after a combustor change-out. A tuning session may take a few hours each day over a few days. No more than two major tuning sessions would be expected during any year.}
 - If a CEMS reports emissions in excess of a CO or NOx standard, the permittee shall notify the Compliance Authority within one working day with a preliminary report 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.
- d. Startup and Shutdown Plan: A "steam turbine cold startup" is defined as startup after the steam turbine has been offline for 24 hours or more or the first stage turbine metal temperature is 250° F or less. To minimize emissions, no more than one gas turbine for each Bayside Unit shall be operated during each steam turbine cold startup. The permittee shall notify the Compliance Authority at least 24 hours in advance of a steam turbine cold startup. For each Bayside Unit, the permittee shall provide a

A. COMBINED CYCLE GAS TURBINES

Startup and Shutdown Plan as part of the application for a Title V air operation permit. The plan shall identify startup and shutdown procedures, the duration of each procedure, and the methods used to minimize emissions during these periods. Within 90 days of completing eight steam turbine cold startups following commencement of commercial operation or within 90 days after 12 months of commercial operation (whichever occurs first), the permittee shall submit a revised plan to the Department based on actual operating data and experience. The Department shall review the actual operational data and determine whether data exclusion allowed for a steam turbine cold startup defined in Condition 23 of this section shall be modified to represent good operational practices. The Department shall also evaluate the operational information and determine whether a separate "warm startup" requirement shall be specified in the Title V operation permit for startup after the steam turbine has been offline for 24 hours or more, but less than 48 hours.

As provided by the authority in Rule 62-210.700(5), F.A.C., the above requirements are established in lieu of the provisions of Rule 62-210.700(1), F.A.C. [Design; Rules 62-210.700(5), 62-4.130, and Rule 62-212.400 (BACT), F.A.C.]

EMISSIONS PERFORMANCE TESTING

- 18. Operating Rate During Testing: Emissions performance testing shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]
- 19. Test Methods: Any required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
CTM-027	Procedure for Collection and Analysis of Ammonia in Stationary Source
	This is an EPA conditional test method.
	The minimum detection limit shall be 1 ppm.
5	Determination of Particulate Matter Emissions from Stationary Sources
	• The minimum sampling time shall be two hours per run and the minimum sampling volume shall be 60 dscf per run.
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources
	The method shall use a continuous sampling train.
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
	• EPA Method 18 may be used concurrently with EPA Method 25A to deduct emissions of methane and ethane from the measured VOC emissions.
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines
25A	Determination of Volatile Organic Concentrations

Except for Method CTM-027, the above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. Method CTM-027 is published on EPA's Technology Transfer Network Web Site at "http://www.epa.gov/ttn/emc/ctm.html". Although no specific tests are required for

A. COMBINED CYCLE GAS TURBINES

- emissions of particulate matter and volatile organic compounds, the test methods are included for completeness. No other methods may be used for compliance testing unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A]
- 20. <u>Initial Compliance Tests</u>: Each gas turbine shall be tested to demonstrate compliance with the emission standards for CO, NOx, visible emissions and ammonia slip. The tests shall be conducted within 60 days after achieving at least 90% of the maximum permitted capacity, but not later than 180 days after initial operation of each gas turbine. Tests for CO and NOx shall be conducted concurrently. Certified CEMS data may be used to demonstrate compliance with the initial CO and NOx standards. The test results for ammonia slip shall also report the CO and NOx emissions recorded by the CEMS during each test run. [Rule 62-297.310(7)(a)1, F.A.C.; 40 CFR 60.335]
- 21. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), each gas turbine shall be tested to demonstrate compliance with the emission standards for ammonia slip and visible emissions. The test results for ammonia slip shall also report the CO and NOx emissions recorded by the CEMS during each test run. {Permitting Note: Continuous compliance with the CO and NOx standards is demonstrated with certified CEMS data.} [Rules 62-212.400(BACT) and 62-297.310(7)(a)4, F.A.C.]
- 22. Additional Ammonia Slip Testing: If the tested ammonia slip rate for a gas turbine exceeds 5 ppmvd corrected to 15% oxygen when firing natural gas during the annual test, the permittee shall:
 - a. Begin testing and reporting the ammonia slip for each subsequent calendar quarter;
 - b. Before the ammonia slip exceeds 7 ppmvd corrected to 15% oxygen, take corrective actions that result in lowering the ammonia slip to less than 5 ppmvd corrected to 15% oxygen; and
 - c. Test and demonstrate that the ammonia slip is less than 5 ppmvd corrected to 15% oxygen within 15 days after completing the corrective actions.

Corrective actions may include, but are not limited to, adding catalyst, replacing catalyst, or other SCR system maintenance or repair. After demonstrating that the ammonia slip level is less than 5 ppmvd corrected to 15% oxygen, testing and reporting shall resume on an annual basis. [Rules 62-4.070(3) and 62-297.310(7)(b), F.A.C.]

CONTINUOUS MONITORING REQUIREMENTS

- 23. Continuous Emissions Monitoring Systems: The permittee shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) in the exhaust stack of each emissions unit to measure and record emissions of CO and NOx in a manner sufficient to demonstrate compliance with the CEMS emission standards of this permit. The carbon dioxide (CO2) content of the flue gas shall also be monitored at the location where CO and NOx are monitored to correct the measured emissions rates to 15% oxygen. The oxygen content of the flue gas shall be calculated by the CEMS using the CO2 content of the flue gas and an F-factor that is appropriate for natural gas.
 - a. Emission Averages. Compliance with the 24-hour standards for CO and NOx emissions shall be based on data collected by the required CEMS. The 24-hour block shall start at midnight of each operating day and consist of 24 consecutive 1-hour blocks. If a unit operates continuously throughout the day, the 24-hour block average shall be the average of 24 consecutive 1-hour emission averages. If a unit operates less than 24 hours during the day, the 24-hour block average shall be the average of available valid 1-hour emission averages collected during operation. If monitoring data is authorized for exclusion (due to startup, shutdown, malfunction, or tuning), the 24-hour block average shall be the average of the remaining available valid 1-hour emission averages collected during operation. Upon a request from the Compliance Authority, the NOx emission rate shall be corrected to ISO conditions to

A. COMBINED CYCLE GAS TURBINES

demonstrate compliance with the applicable standards of 40 CFR 60.332.

- b. Data Collection. The CEMS shall be designed and operated to sample, analyze, and record CO, CO2, and NOx data evenly spaced over the hour. Each 1-hour emission average shall be computed using at least one data point in each fifteen minute quadrant of the 1-hour block during which the unit combusted fuel. Notwithstanding this requirement, each 1-hour emission average shall be computed from at least two data points separated by a minimum of 15 minutes. If the unit does not operate in more than one quadrant of a 1-hour block, the data is insufficient to determine a 1-hour emission average and shall be ignored. (Example: Unit begins startup with only ten minutes remaining in the 1-hour block. Data is insufficient to determine a 1-hour average and is ignored.) All valid measurements or data points collected during a 1-hour block shall be used to calculate the 1-hour emission averages. If the CEMS measures concentration on a wet basis, the CEMS shall include provisions to determine the moisture content of the exhaust gas and an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). Alternatively, a curve of the flue gas moisture content versus load may be developed through manual stack test measurements and used in an algorithm to enable correction of the monitoring results to a dry basis (0% moisture). The CO and NOx CEMS shall express the 1-hour emission averages and the 24-hour block averages in terms of "ppmvd corrected to 15% oxygen".
- c. Data Exclusion. CO, CO2, and NOx emissions data shall be recorded by the CEMS at all times including episodes of startup, shutdown, malfunction, and tuning. CO and NOx emissions data recorded during such episodes may be excluded from the 24-hour block compliance averages in accordance with the requirements of Condition No. 17 of this section. All periods of data excluded due to startup, shutdown or malfunction shall be consecutive for each episode. The permittee shall minimize the duration of data excluded for startup, shutdown and malfunctions, to the extent practicable. Data recorded during startup, shutdown or malfunction shall not be excluded if the episode was caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented. Best operational practices shall be used to minimize hourly emissions that occur during startup, shutdown and malfunction. Emissions of any quantity or duration that occur entirely or in part from poor maintenance, poor operation, or any other equipment or process failure, which may reasonably be prevented, shall be prohibited. Excluded emissions shall be summarized in the required semiannual report.
- d. NOx Certification. The NOx monitor shall be certified pursuant to 40 CFR Part 75 and shall be operated and maintained in accordance with the applicable requirements of 40 CFR Part 75, Subparts B and C. For purposes of determining compliance with the CEMS emission standards of this permit, missing data shall not be substituted. Instead the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block. Record keeping and reporting shall be conducted pursuant to 40 CFR Part 75, Subparts F and G. The RATA tests required for the NOx monitor shall be performed using EPA Method 7E or 20 as defined in Appendix A of 40 CFR 60. The span for the NOx monitor shall not be greater than 10 ppmvd corrected to 15% O2. A dual span monitor may be used.
- e. CO and CO2 Certification. The CO2 monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 3. The CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4. Quality assurance procedures for each monitor shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of Section 7 shall be made each calendar quarter, and reported semi-annually to the Compliance Authority. The RATA tests required for the CO2 monitor shall be performed using EPA Method 3A, of Appendix A in 40 CFR 60. The RATA tests required for the CO monitor shall be performed using EPA Method 10, of Appendix A in 40 CFR 60. The Method 10 analysis shall use a continuous sampling train. The span for the CO monitor shall not be greater than 25 ppm corrected to 15% oxygen. A dual span CO monitor may be

A. COMBINED CYCLE GAS TURBINES

used.

f. Monitor Availability. Monitor availability shall not be less than 95% in any calendar quarter. The report required in Condition 23e above shall be used to demonstrate monitor availability. In the event 95% availability is not achieved, the permittee shall provide the Compliance Authority 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.

{Permitting Note: Compliance with these requirements will ensure compliance with the other applicable CEMS requirements such as: NSPS Subpart GG; Rule 62-297.520, F.A.C.; 40 CFR 60.7(a)(5) and 40 CFR 60.13; 40 CFR Part 51, Appendix P; 40 CFR 60, Appendix B - Performance Specifications; and 40 CFR 60, Appendix F - Quality Assurance Procedures.}

[Rules 62-4.070(3), 62-210.700(5), and 62-212.400(BACT), F.A.C.]

24. Ammonia Monitoring Requirements: The permittee shall install, calibrate, maintain and operate, in accordance with the manufacturer's specifications, an ammonia flow meter to measure and record the ammonia injection rate through each SCR system. The permittee shall document the general range of ammonia flow rates required to meet emissions limitations over the range of gas turbine load conditions allowed in this permit by comparing NOx emissions recorded by the NOx monitor with ammonia flow rates recorded using the ammonia flow meter. During NOx monitor downtimes or malfunctions, the permittee shall operate at the ammonia flow rate that is consistent with the documented flow rate for the gas turbine load. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

RECORDS AND REPORTS

- 25. <u>Semiannual CEMS Report</u>: In addition to the reports required pursuant to 40 CFR 60.7, the permittee shall submit semiannual reports for each gas turbine summarizing the CEMS data and equipment. For each calendar quarter, the report shall include: the 24-hour block compliance averages for each day of operation; the number of 1-hour emission averages excluded from each 24-hour compliance average; the emissions rate of the excluded monitoring data; the reason for excluding monitoring data; the hours of missing data due to monitor downtime; the reason for any monitor downtime; unusual maintenance or repair of the CEMS; and a summary of any RATA tests performed. Based on operational data, the permittee shall also update the general range of ammonia flow rates required to meet NOx emissions limitations over the range of gas turbine load conditions. A report covering operations from January through June shall be submitted by July 30th of each year. A report covering operations from July through December shall be submitted by January 30th of each year. The report due dates may be modified by the Title V permit. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]
- 26. <u>Monitoring of Operations</u>: To demonstrate compliance with the gas turbine capacity requirements, the permittee shall monitor and record the operating rate of each gas turbine on a daily average basis, considering the number of hours of operation during each day (including the times of startup, shutdown and malfunction). Such monitoring shall be made using a monitoring component of the CEMS required above, or by monitoring daily rates of consumption and heat content of natural gas in accordance with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3) and 62-212.400(BACT), F.A.C.]

B. EXISTING GANNON UNITS

The following conditions supplement all other valid air construction and operation permits for these units.

EU ID	Emission Unit Description
001	Gannon Unit 1 – existing coal fired boiler with 125 MW steam electrical generator
002	Gannon Unit 2 – existing coal fired boiler with 125 MW steam electrical generator
003	Gannon Unit 3 – existing coal fired boiler with 180 MW steam electrical generator
004	Gannon Unit 4 – existing coal fired boiler with 188 MW steam electrical generator
005	Gannon Unit 5 – existing coal fired boiler with 239 MW steam electrical generator
006	Gannon Unit 6 – existing coal fired boiler with 414 MW steam electrical generator
008	Gannon Station Coal Yard – Serves existing Gannon Units 1 – 6

SHUTDOWN REQUIREMENTS

1. Shutdown of Coal-Fired Gannon Units

- a. Shutdown of Gannon Unit 3: The Gannon Unit 3 (EU 003) coal-fired boiler shall be shut down and rendered incapable of operation prior to first fire in any Bayside Unit 3 gas turbine (EU 027 and EU 028). Upon first fire in any Bayside Unit 3 gas turbine, the heat-input limit on the coal yard (EU 008) shall be reduced by 9.06 x 10⁺⁰⁶ MMBtu per calendar year.
- b. Shutdown of Gannon Unit 4: The Gannon Unit 4 (EU 004) coal-fired boiler shall be shut down and rendered incapable of operation prior to first fire in any Bayside Unit 4 gas turbine (EU 029 and EU 030). Upon first fire in any Bayside Unit 4 gas turbine, the heat-input limit on the coal yard (EU 008) shall be reduced by 8.70 x 10⁺⁰⁶ MMBtu per calendar year.
- c. Shutdown of Gannon Unit 5: The Gannon Unit 5 (EU 005) coal-fired boiler shall be shut down and rendered incapable of operation prior to first fire in any Bayside Unit 1 gas turbine (EU 020 EU 022). Upon first fire in any Bayside Unit 1 gas turbine, the heat-input limit on the coal yard (EU 008) shall be reduced by 13.2 x 10⁺⁰⁶ MMBtu per calendar year.
- d. Shutdown of Gannon Unit 6: The Gannon Unit 6 (EU 006) coal-fired boiler shall be shut down and rendered incapable of operation prior to first fire in any Bayside Unit 2 gas turbine (EU 023 EU 026). Upon first fire in any Bayside Unit 2 gas turbine, the heat-input limit on the coal yard (EU 008) shall be reduced by 21.4 x 10⁺⁰⁶ MMBtu per calendar year.
- e. Shutdown of Gannon Units 1 6: The permittee shall shutdown and cease any and all operation of coal-fired Gannon Units 1 through 6 (EU 001 006) no later than December 31, 2004. "Shutdown" shall mean the permanent disabling of a coal-fired boiler such that it cannot burn any fuel (including wood-derived fuel) nor produce any steam for electricity production, other than through re-powering as specified in this permit.

[Rule 62-212.400(BACT), F.A.C.; EPA/TEC Consent Decree]

- 2. <u>Permanent Bar on Combustion of Coal</u>: Commencing on January 1, 2005, the permittee shall not combust coal in the operation of any unit at this plant. [EPA/TEC Consent Decree]
- 3. <u>Notification</u>: Before January 1, 2005, the permittee shall notify the Department and Compliance Authority of plans for the coal storage and handling facilities. Additional permits may be required. [Rule 62-210.300, F.A.C.]
- 4. <u>Revisions or Extensions</u>: The provisions of this section shall not be extended or revised the without prior written approval of the U.S. EPA. [EPA/TEC Consent Decree]

ATTACHMENT 12 CERTIFICATE OF REPRESENTATION



Certificate of Representation Page 1

For more information, see instructions and refer to 40 CFR 72.24

This submission is: •X New

 Revised (revised submissions must be complete; see instructions)

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

				7873
Plant Name	Bayside Power S	tation	State FL	ORIS Code

STEP 2 Enter requested information for the designated representative.

Name Gregory M. Nelson, P.E.	
Address 702 North Franklin Street Tampa, FL 33602	
Phone Number (813) 228-1763	Fax Number (813) 228-1308
E-mail address (if available) gmnelson@tec	oenergy.com

STEP 3 Enter requested information for the alternate designated representative, if applicable.

Name Laura R. Crouch	
Phone Number (813) 228-4104	Fax Number (813), 228–1308
E-mail address (if available) 1rcrouch@teco	penergy.com

STEP 4: Complete Steps 5 and 6, read the certifications, sign and date.

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

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

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

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

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

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

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

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

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

Plant Name (from Step 1) Bayside Power Station

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

Signature (designated representative)

Date 5/4/04

Signature (alternate designated representative)

Date

STEP 5
Provide the name of every owner and operator of the source and identify each affected unit they own and/or operate.

Name Tampa Electric Company					●X∙Owner	•X •Operator
ID# CT1A	ID#CT1B	ID#CT1C	ID# CT2A	ID#CT2B	ID#ÇT2C	ID#CT2D
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Name					• • • • • • • • • • • • • • • • • • •	• • Operato
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Name					• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
1D#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

STEP 6
For any new affected units listed at STEP 5 that have not commenced commercial operation, enter the projected date on which the unit is expected to commence commercial operation.

ID#	Projected Commence Commercial Operation Date:
ID#	Projected Commence Commercial Operation Date:
	,
ID#	Projected Commence Commercial Operation Date:
ID# .	Projected Commence Commercial Operation Date:

Plant Name	(from Step	1) Bayside	Power Station

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

Signature (costoprated representative)	Date 12/15/00
Signappy (electronic designated tepresentative)	Date / 2/15/00

STEP 5
Provide the name of every owner and operator of the source and identify each affected unit (or combustion or process source) they own and/or operate.

Name Tampa Electric Company					√ owner	√ Operator
ID# CT1A	ID# CT1B	ID# CT1C.	ID# CT2A	ID# CT2B	ID# CT2C	ID# GT2D
ID#	ID#	ID#	ID#	1D#	ID#	ID#

Name					Owner	☐ Operator
IO#	ID#	1D#	ID#	ID#	ID#	ID#
1D#	ID#	10#	10#	110#	1D#	1D#

Name					Owner	Operator
ID#	1D#	ID#	1D#	ID#	ID#	ID#
łD#	ID#	ID#	ID#	1D#	ID#	ID#

Name					Owner	Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
1D#	ID#	ID#	ID#	ìD#	ID#	lD#

ATTACHMENT 13 ACID RAIN PART APPLICATION

Acid Rain Part Application

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

This submission is:
New

Revised

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

Plant Name Bayside Power Station St	tate FL ORIS (Code 7873
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STEP 2

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a." For new units, enter the requested information in columns "c" and "d."

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

CT1A	Yes	03/01/03	06/01/03
СТ1В	Yes	03/01/03	06/01/03
СТ1С	Yes	03/01/03	06/01/03
CT2A	Yes	01/01/04	04/01/04
СТ2В	Yes	01/01/04	04/01/04
СТ2С	Yes	01/01/04	04/01/04
CT2D	Yes	01/01/04	04/01/04

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STEP 3 Read the standard requirements

Acid Rain Part Requirements

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
 - (i) Submit a complete Acid Rain part application (including a compliance plan) under 40 CFR part 72 and Rules 62-214.320 and 330, F.A.C., in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
 - (ii) Submit in a timely manner any supplemental information that the Department determines is necessary in order to review an Acid Rain part application and issue or deny an Acid Rain part;
- The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain part application or a superseding Acid Rain part issued by the Department; and (ii) Have an Acid Rain Part.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
- (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain part application, the Acid Rain part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain 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 prior to the end of 5 years, in writing by the EPA or the Department:
 - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; 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 changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3year 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 Acid Rain Program; and.

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Recordkeeping and Reporting Requirements (cont)

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

Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain part application, an Acid Rain part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
- (6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 75.11 (NO_X averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or an exemption under 40 CFR 72.7or 72.8 shall be construed as:

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

STEP 4 Certification

Read the certification statement, sign, and date

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

Name	Gregory M. Nelson	
Signature	Muzon Wille	Date 5/4/04

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