PASCO COGEN, LTD.

NCP DADE POWER, INC., GENERAL PARTNER

c/o Aquila • 20 West 9th Street • Kansas City, MO 64105 Tel (816) 527-1160 • Fax (816) 527-4160

June 6, 2003

Mr. Jeffery F. Koerner, PE Florida Department of Environmental Protection Division of Air Resource Management 2600 Blair Stone Road, MS 5505 Tallahassee, FL 32399-2400

(850) 921-9536

RECEIVED

JUN 10 2003

BUREAU OF AIR REGULATION

RE:

Pasco Cogeneration LP; Facility ID No. 1010071; Pasco County, Florida; Air Construction Permit Application to Modify Two GE LM-6000 Combustion Turbine Units

Dear Mr. Koerner:

Attached is a completed permit application in which the Pasco Cogeneration facility requests approval to perform an uprate on its two current GE LM-6000 Combustion Turbine units. GE would perform the proposed uprate that will result in enhanced unit operation. The basic components of the uprate include; replacement of the low pressure turbine with a more efficient design and to modify the CT unit to allow cooling of the combustion process with a water injection process that has been designed by GE.

GE has demonstrated this process to be very successful for those facilities it has already modified, including the Tropicana CT facility in Bradenton, FL. We believe that the enhancement will allow the two units at Pasco to perform more efficiently while still virtually achieving the same current emission standards. As you will note, what is being proposed is to maintain the current emission concentrations with a slightly higher heat input rate and a slight increase in pounds per hour of NOx and CO. The project is willing to offset the slight increase in NOx and CO emissions by accepting a lower annual emissions cap. The lowered cap will also ensure NSPS is not triggered.

The project believes that this uprating of the CTs can be performed without the necessity of modifying the emissions monitoring and data recovery programs currently in place at Pasco Cogen. The benefits seen by the uprating include more efficient use of the fuel fired by the facility. In terms of actually performing the modification, Pasco Cogen is proposing to perform the modification on one unit at a time. However, this schedule is still being evaluated.

At the Department's convenience, Pasco Cogen is prepared to meet with you and discuss this proposal further and go over the permit application. We believe that in performing this work we not only enhance the ability of Pasco Cogen to perform better, we will also be able to produce electricity with reduced emissions per MMBtu fired at the facility.

I will look forward to hearing back from you soon. My telephone number is (816) 527-1160 and my e-mail is thomas.grace@aquila.com

Sincerely,

Thomas A. Grace, CHMM

Director - Environmental Health and Safety

W/ attachment

Cc: R. Christmas, w/a

L. Rajter, w/o

B. Miles, w/o

R. Murphy @ CASE Engineering, w/a

C. Peterson, SWD

File: 274-2010.3 L. Bull, EPA



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

I. APPLICATION INFORMATION

Identification of Facility

IU	entification of Facility			
1.	Facility Owner/Company Name:			
	Pasco Cogeneration Limited			
2.	Site Name:			
	Pasco Cogeneration Limited			
3.	Facility Identification Number: 10	010071		[] Unknown
4.	Facility Location:			
	Street Address or Other Locator: 1	4850 Old S	tate Rd. 23	
	City: Dade City C	ounty: Pasc	0	Zip Code: 33525
5.	Relocatable Facility?	6.	Existing Per	rmitted Facility?
	[] Yes [X] No		[X]Yes	[] No
A	oplication Contact			
1.	Name and Title of Application Con	tact:		
	Thomas Grace, Director – Environn		lth & Safety	
2	Application Contact Mailing Addre	.88.		
	Organization/Firm: Pasco Cogenera		ed, c/o Aquila	
	Street Address: 20 West 9th Street	,	, 1	
	City: Kansas City	State:	МО	Zip Code: 64105
3.	Application Contact Telephone Nur	nbers:		
	Telephone: (816) 527 - 1160		Fax: (816)	527 - 4160
A	oplication Processing Information ((DEP Use)		
1.	Date of Receipt of Application:		4-10-200	13
2.	Permit Number:		1010071	-00J-AC
3.	PSD Number (if applicable):			
4.	Siting Number (if applicable):			Michael Legiste
				RECEIVED

JUN 1 0 2003

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

Effective: 2/11/99

BUREAU OF AIR REGULATION

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one) Initial Title V air operation permit for an existing facility which is classified as a Title V Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source. Current construction permit number: Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application. Current construction permit number: Operation permit number to be revised: Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.) Operation permit number to be revised/corrected: Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal. Operation permit number to be revised: Reason for revision: **Air Construction Permit Application** This Application for Air Permit is submitted to obtain: (Check one) [X] Air construction permit to construct or modify one or more emissions units. Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Effective: 2/11/99

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

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Leo Rajter, Vice President

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

Organization/Firm: Pasco Cogeneration, Limited, c/o Aquila

Street Address: 20 West 9th Street

City: Kansas City

State: MO

Zip Code: 64105

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

Telephone: (816) 701 - 6371

Fax: (816)502 - 5371

4. Owner/Authorized Representative or Responsible Official Statement:

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

Professional Engineer Certification

1. Professional Engineer Name: John L. McKelvey

Registration Number:

37319

2. Professional Engineer Mailing Address: 5925 Imperial Pkwy, Mulberry, FL 33860 Suite 226

Organization/Firm:

Case Engineering, Inc.

Street Address:

5925 Imperial Pkwy, Suite 226

City: Mulberry

State: Florida Zip Code: 33860

3. Professional Engineer Telephone Numbers:

Telephone: (863) 701 - 2822

Fax: (863) 701 - 7671

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

4. Professional Engineer Statement:

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

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

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

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

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

Signature JUNE 3, 2003
Date

^{*} Attach any exception to certification statement.

Scope of Application

Emissions		Permit	Processing
Unit ID	Description of Emissions Unit	Type	Fee
1R	(2) Combustion Turbines (CTs) each with HRSG and DB modification of both LM-6000 CTs with GE's proposed CT-6000 uprate. The GE LM-6000 uprate will allow for enhanced operating efficiency by utilization of water mist injection. This upgrade will allow each unit to be more efficient during warmer seasonal operations and more effective in conversion of fuel to electric energy.	Construction	N/A

Application Processing Fee

Check one: [Attached - Amount: \$	[X]	Not Applicable

* Site currently holds valid Title V permit, processing fee not required at this time.

Construction/Modification Information

1	 Description of Proposed Project or Alterations: To upgrade the 2 existing and permitted LM-6000 combustion Turbines using GE's current
	LM-6000 Unit uprating program.
	2. Projected or Actual Date of Commencement of Construction: September, 2003
	3. Projected Date of Completion of Construction: May 1, 2004
	Application Comment
	See Attachment PC-AI-AC for site description and general information.

DEP Form No. 62-210.900(1) - Form 6

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	dinates:				
	Zone: 17	East (km)	: 383.5	Nor	th (km): 3139.0	
2.	Facility Latitude/Lo	ongitude:				
	Latitude (DD/MM/	SS): 28/22/28	Longitude (DD/MM/SS): 82/11/21			
3.	Governmental	4. Facility Status	5. Facility N	//ajor	6. Facility SIC(s):	
	Facility Code:	Code:	Group SI	C Code:	4931	
	0	Α	49			
7.	Facility Comment (limit to 500 characters):	•		<u> </u>	
-	Pasco Cogeneration consists of two GE LM-6000 combustion turbines, with duct burners (CT/DB), that exhaust through two Heat Recovery Steam (HRSG) stacks. The CTs can be fired on either natural gas or distillate oil.					

Facility Contact

1.	Name and Title of Facility Contact:					
	Richard Christmas					
2.	Facility Contact Mailing Address:					
	Organization/Firm: Pasco Cogeneration, Limited					
	Street Address: 14850 Old State Road 23					
	City: Dade City	State: FL	Zip Code: 33525			
3.	Facility Contact Telephone Numbers:					
	Telephone: (352) 523 - 0062	Fax: (3	352) 523 - 0572			

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

Facility Regulatory Classifications

Check all that apply:

1.	[] Small Business Stationary Source? [] Unknown
2.	[\(\)] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3.	Synthetic Minor Source of Pollutants Other than HAPs?
4.	Major Source of Hazardous Air Pollutants (HAPs)?
5.	Synthetic Minor Source of HAPs?
6.	[√] One or More Emissions Units Subject to NSPS?
7.	[] One or More Emission Units Subject to NESHAP?
8.	[√] Title V Source by EPA Designation?
į.	Facility Regulatory Classifications Comment (limit to 200 characters):
	CT-NSPS for stationary GTs, (40CFR60 subpart GG).
	40 CFR 60 subpart Dc applies to the duct burners
	40 CFR 60 subpart Kb applies to the fuel oil storage tank
1	

List of Applicable Regulations

See Attachment PC-FI-B			
		**	

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

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested En	missions Cap	4. Basis for Emissions	5. Pollutant Comment
Limited	Classii.	lb/hour (1)	tons/year (1)	Cap	Comment
NO _x	A	104.3	368.0	ESCPSD	
(nat. gas)					
СО	A	92.4	337.0	ESCPSD	
PM	В	7.6	27.0		
PM ₁₀	В	7.6	27.0		
SO ₂ (fuel oil)	В	87.6	21.0		
VOC	В	8.8	30.8		
NOx (2) (fuel oil)	A	148.3	368.0	ESCPSD	
	<u>-</u> .				
				-	

See Attachment PC-BI-AC

(1) Based on two units operating. (2) Each unit limited to 240 hrs per year operation on fuel oil.

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

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Area Map Showing Facility Location:
	[X] Attached, Document ID: PC-FI-E1 Not Applicable Waiver Requested
2.	Facility Plot Plan:
	[X] Attached, Document ID: PC-FI-E2 [] Not Applicable [] Waiver Requested
	[][]
3	Process Flow Diagram(s):
] .	[X] Attached, Document ID: PC-FI-E3 [] Not Applicable [] Waiver Requested
	[A] Attached, Document 15. 1 C-11-L5 [] Not Applicable [] Walver Requested
1	Precautions to Prevent Emissions of Unconfined Particulate Matter:
7.	[X] Attached, Document ID: <u>PC-FI-E4</u> [] Not Applicable [] Waiver Requested
	[X] Attached, Document ib. FC-F1-E4 [] Not Applicable [] waiver Requested
5	Fugitive Emissions Identification:
٦.	[X] Attached, Document ID: PC-FI-E5 [] Not Applicable [] Waiver Requested
	[A] Attached, Document ib. FC-F1-E3 [] Not Applicable [] waiver kequested
6.	Supplemental Information for Construction Permit Application:
0.	[X] Attached, Document ID: PC-FI-E6 [] Not Applicable
	[A] Attached, Document ID. FC-F1-E0 [] Not Applicable
7.	Supplemental Requirements Comment:
´`	Attachment PC-FI-E6
	Attactiment I C-I I-LO

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
[] Attached, Document ID: [X] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[X] Attached, Document ID: PC-FI-E8
[] Equipment/Activities On site but Not Required to be Individually Listed
[] Not Applicable
10. Alternative Methods of Operation:
[X] Attached, Document ID: PC-FI-E9 [] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[] Attached, Document ID: [X] Not Applicable
12. Identification of Additional Applicable Requirements:
[] Attached, Document ID: [X] Not Applicable
13. Risk Management Plan Verification:
[] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:) or previously submitted to DEP (Date and DEP Office:)
[] Plan to be submitted to CEPPO (Date required:)
[X] Not Applicable
14. Compliance Report and Plan:
[X] Attached, Document ID: PC-FI-E14 [] Not Applicable
15. Compliance Certification (Hard-copy Required):
[X] Attached, Document ID: PC-FI-E15 [] Not Applicable

Emissions Unit Information Section	1	of	2
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)							
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).							
[] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.							
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.							
2. Regulated or Unregulated Emissions Unit? (Check one)							
[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.							
[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.							
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Two (2) Combustion Turbines (CTs), each with HRSG and DBs							
4. Emissions Unit Identification Number: [] No ID							
ID: [] ID Unknown							
5. Emissions Unit 6. Initial Startup 7. Emissions Unit Major 8. Acid Rain Unit?							
Status Code: Date: 1 Jul 93 Group SIC Code: [N] A 49							
9. Emissions Unit Comment: (Limit to 500 Characters)							
The exhaust gas from each CT exhausts through an associated Heat Recovery Steam							
Generator (HRSG). The HRSGs provide steam to a steam generator, rated at 26.5 MW, and also							
furnishes steam to an orange processing facility (the QF host). The nameplate rating of each LM-6000 combustion turbine following the proposed CT uprate will change from 42 MW at 51° F to							
50.2 MW.							

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Emissions	Unit Inform	ation Section	1	οf	2	2 C
CHITTOSTORS	OHIC THIOLIN	auvii Scenoii	1	UL	∠	2 U

Ts w/ HRSG & DBs

Emissions Unit Control Equipment

1.	
	Water injection to control NO _x emissions for each CT
ĺ	
İ	
•	·
_	
2.	Control Device or Method Code(s): 28

Emissions Unit Details

1.	Package Unit:	
	Manufacturer: General Electric	Model Number: LM-6000
2.	Generator Nameplate Rating: increased	from 42 MW to 50.2 MW following CT uprate
3.	Incinerator Information:	
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

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Emissions	Unit Ir	ıformation	Section	1	of	2

2 CTs w/ HRSG & DBs

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

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:	CT (gas)	427.2	MMB	tu/hr/CT
2.	Maximum Incineration Rate:		lb/hr	tons/d	ay
3.	Maximum Process or Throug	ghput Rate:			
4.	Maximum Production Rate:				
5.	Requested Maximum Operat	ing Schedule:			
	24	hours/day		7	days/week
	52	weeks/yea	ar	8760	hours/year

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Emissions	Hnit I	nformation	Section	1	of	2
r missions	URRE	niormation	Section		OI.	Z

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

See attachment PC-EOI-D	

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

Emission Point Description and Type

Flow Diag	tion of Point on Pl gram? Stacks (EU	21						
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Unit 1 stack; Unit 2 stack								
N/A				ission Point in Comm	on:			
5. Discharge	Type Code: V	6. Stack Heigh	ht: feet	7. Exit Diameter:	feet			
8. Exit Temp	perature: 232 °F	Rate:	umetric Flow	10. Water Vapor:	%			
11. Maximum	Dry Standard Flo			mission Point Height:	feet			
13. Emission	Point UTM Coord	linates:			-			
Zone:	E	ast (km):	Nort	h (km):				
14. Emission I	Point Comment (l	imit to 200 chara	acters):					
	ach CT unit. Emiss ral gas firing. See	-		upon base load condit	tions at			

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Emissions	Unit	Information	Section	1	of	2
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2 CTs w/ HRSG & DBs

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

Segment Description and Ra	ate: Segment	1 of 2	-					
Segment Description (Process/Fuel Type) (limit to 500 characters): Internal Combustion Engines, Electric Generation natural gas turbines (2)								
2. Source Classification Cod	e (SCC)	3. SCC Units	•					
2-01-002-01	(BCC).	Million cubic						
4. Maximum Hourly Rate: 0.427	5. Maximum . 3,740		6. Estimated Annual Activity Factor:					
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit: 1,000					
10. Segment Comment (limit to 200 characters): Max. Annual rate: 3,740.5 Max. rate at 51° F with heat content (MMBtu/scc) based on LHV. Max. percent sulfur: 1 grain/100 cf. DB ratios 90 MMBtu/hr. and 525,000 MMBtu/yr., respectively, per unit.								
Segment Description and Ra	Segment Description and Rate: Segment 2 of 2							
Segment Description (Pro- Internal combustion engin (2)	/	•	•					
2. Source Classification Cod	e (SCC):	3. SCC Unit	S:					

10.Segment Comment (limit to 200 characters):

701

Max. Annual Rate: 701.1 Maximum annual fuel usage based on a permit limitation of 2,921 gal/hr/ct and 701,050 gal/yr respectfully for the combustion turbines

5. Maximum Annual Rate:

8. Maximum % Ash:

Thousand Gallons burned

6. Estimated Annual Activity

9. Million Btu per SCC Unit:

Factor:

130

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Effective: 2/11/99

2-02-001-03

2.92

< 0.1

4. Maximum Hourly Rate:

7. Maximum % Sulfur:

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
NOx	028		EL
CO			EL
PM			EL
PM ₁₀			EL
VOC			EL
SO ₂			EL
··			

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Pollutant Detail Information Page 1 of 21

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:				
	NOx (CT on fuel oil)	90				
3.	Potential Emissions:	4. Synthetically				
	148.3 lb/hour	368 tons/year Limited? [Y]				
5.	Range of Estimated Fugitive Emissions:					
	[] 1 [] 2 [] 3	to tons/year				
6.	Emission Factor: 42 ppmvd @ 15% O2	7. Emissions				
	Reference: Permit Limit (BACT)	Method Code:				
8.	Calculation of Emissions (limit to 600 chara					
0.	Potential based on revised calculation to syn					
	Total annual NOx emissions is limited to 36					
ŀ	Total alimai 140x emissions is infilted to 30	a thy (see below).				
9.	Pollutant Potential/Fugitive Emissions Com-					
		51° F operating conditions on fuel oil. Annual				
		196460. PSO-FL-177. Annual limit for NOx				
	remains limited based upon a limit of firing	\leq 701,000 gallons of fuel oil per unit per year.				
<u>Al</u>	lowable Emissions Allowable Emissions	of				
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
	Other and ESCPSD	Emissions:				
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
	148.3 lb/hr	148.3 lb/hour 368 tons/year				
5.	Method of Compliance (limit to 60 character	rs):				
•	Annual compliance test, EPA method 20					
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):				
Ů.	Natural gas firing; the 2 CT units are designed					
	emissions established as BACT in the original					
	application requests having a synthetic cap for					

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Pollutant Detail Information Page 2 of 21

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:			
	NOx (duct burner gas fired)				
3.	Potential Emissions:			4.	Synthetically
"	18 lb/hour 368 tons/year			, , ,	Limited? [Y]
5.	Range of Estimated Fugitive Emissions:				
	[] 1 [] 2 [] 3	_	to to:	ıs/y	ear
6.	Emission Factor:			7.	Emissions
	Reference:				Method Code:
8.	Calculation of Emissions (limit to 600 chara-	cters):		
	Based upon 0.1 lb/mmBtu limit and a firing	rate	of 90 mmBtu/hr/DB		
					•
9.	Pollutant Potential/Fugitive Emissions Comm	ment	(limit to 200 charac	ters)):
	Each DB is limited to 525,000 mmBtu per ye	ear h	eat input		
Al	lowable Emissions Allowable Emissions		of		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Da	te c	of Allowable
	Other and ESCPSD		Emissions:		
3.	-	4.	Equivalent Allowab	ole E	Emissions:
	18 lb/hr		18 lb/hour 368	t	ons/year
5.	Method of Compliance (limit to 60 character	rs):			
	None				
6.	Allowable Emissions Comment (Desc. of Or	perat	ing Method) (limit to	20	() characters):
0.	Emission limit for 2 duct burners as establish		, ·		,
	Natural gas only. Basis of limit is 0.1 lb/MM		y DAC1 amidai ciin	2210	iis for facility.
	Traducal gas only. Dasis of milit is 0.1 10/191191	ıDıu			
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Pollutant Detail Information Page 3 of 21

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:			
NOx (CT and DB operated on nat. gas)				
3. Potential Emissions:	4. Synthetically			
	tons/year Limited? [Y]			
5. Range of Estimated Fugitive Emissions:	zamet [1]			
	to tons/year			
6. Emission Factor:	7. Emissions			
	Method Code:			
Reference:				
8. Calculation of Emissions (limit to 600 chara	acters):			
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):			
Allowable Emissions Allowable Emissions	of			
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable			
Other and ESCPSD	Emissions:			
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
104.0 lb/hr	104.0 lb/hour 368 tons/year			
	<u>, , , , , , , , , , , , , , , , , , , </u>			
5. Method of Compliance (limit to 60 characte	rs):			
Annual compliance test, EPA method 20				
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):			
Emission limit for CTs and DBs as establish				
expected to increase slightly from 103.5 to	* * *			
· · · · · · · · · · · · · · · · · · ·	o Cogen requests having a synthetic cap for			
	tonnage to 368 tpy (a 36.7 tpy site reduction).			

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2 CTs w/ HRSG & DBs Nitrogen Oxides

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:			
	NOx (CT and DB operated on nat. gas)				
3.	Potential Emissions:			4. Synthetically	
	104.3 lb/hour 3	68	tons/year	Limited? [Y]	
5.	Range of Estimated Fugitive Emissions:				
	[] 1 [] 2 [] 3	_	to to	ns/year	
6.	Emission Factor:			7. Emissions	
	Reference:			Method Code:	
8.	Calculation of Emissions (limit to 600 chara	ıcters	s):	, <u>.</u>	
	`		,		
İ					
			41		
9.	Pollutant Potential/Fugitive Emissions Com	ment	t (limit to 200 charac	ters):	
<u>All</u>	owable Emissions Allowable Emissions		of		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Da	te of Allowable	
	Other and ESCPSD		Emissions:		
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowab	ole Emissions:	
	104.0 lb/hr	10	4.0 lb/hour 368	tons/year	
5.	Method of Compliance (limit to 60 character	rs):			
	Annual compliance test, EPA method 20				
6.	Allowable Emissions Comment (Desc. of Op	 perat	ing Method) (limit to	200 characters):	
	Emission limit for CTs and DBs as establish	-	=	•	
	expected to increase slightly from 103.5 to 1	,			
	support acceptance of this application, Pasce				
	total NOx tonnage which limits annual NOx				

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Emissions Unit Information Section		1	of 2	
Pollutant Detail Information Page	4	of	21	

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
CO (nat. gas)	
3. Potential Emissions:	4. Synthetically
56.5 lb/hour 337.0 tons/yea	1 ,
5. Range of Estimated Fugitive Emissions:	
	to tons/year
6. Emission Factor: 28 ppmvd (BACT)	7. Emissions
Defended Demoit limit (DACT)	Method Code:
Reference: Permit limit (BACT)	0
	ation to synthetically limit triggering PSD. limit and a max. heat input of 427 ment (limit to 200 characters): Bs at 51° F operating conditions on natural gas;
annual is based upon permit limit (337 tpy). Allowable Emissions Allowable Emissions	of
Basis for Allowable Emissions Code: Other and ESCPSD	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
56.5 lb/hr	56.5 lb/hour 337.0 tons/year cap
5. Method of Compliance (limit to 60 characte	ers):
Title V permit renewal compliment test; EP	A method 10
6. Allowable Emissions Comment (Desc. of C	
Natural gas firing: CT units 1 and 2; establish	
Basis of limit is 28 ppmvd. Request a synth	
limited to 337 tons per year (a 13.3 tpy site	reduction).

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Emissions Unit Information	Section	1	of	2

Pollutant Detail Information Page 5 of 21

2 CTs w/ HRSG & DBs Carbon Monoxide

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:		2 Total Percent Efficie	nov of Control:		
1. Pondiani Emilied.		2. Total Percent Efficiency of Control:			
CO (CT on fuel oil)					
3. Potential Emissions:			4. Synthetically		
34.5	lb/hour	337 tons/year	Limited? [Y]		
5. Range of Estimated Fugitive E	missions:				
[] 1 [] 2	[] 3	to tor	ns/year		
6. Emission Factor:			7. Emissions		
Reference:			Method Code:		
8. Calculation of Emissions (limi Hourly emissions will be based limit of 701,000 gallons of fue in place for operating on fuel of	d upon firing fi l oil/CT (a lim	uel oil at 424 mmBtu/hr/			
9. Pollutant Potential/Fugitive En	nissions Comn	nent (limit to 200 charac	ters):		
Allowable Emissions Allowable	Emissions	of			
Basis for Allowable Emissions Other, ESCPSD	Code:	2. Future Effective Da Emissions:	te of Allowable		
3. Requested Allowable Emission	ns and Units:	4. Equivalent Allowab	ole Emissions:		
34.5 lb/hr		34.5 lb/hour 33	37 tons/year cap		
5. Method of Compliance (limit to Title V renewal compliance test					
6. Allowable Emissions Commen Oil firing; CTs 1 and 2; establi	•	-			

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Emissions Unit Information Section	1	of _	2
Pollutant Detail Information Page	6	of 2	11

2 CTs w/ HRSG & DBs Carbon Monoxide

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
CO (duct burners)	
3. Potential Emissions:	4. Synthetically
	Limited? [Y]
5. Range of Estimated Fugitive Emissions:	
[] 1 [] 2 [] 3	to tons/year
6. Emission Factor:	7. Emissions
D 0	Method Code:
Reference:	Method Code.
8. Calculation of Emissions (limit to 600 chara	ecters):
Emissions are based upon duct burner firing	,
525,0000 mmBtu/yr and a limit of 0.2 lb/mr	nBtu heat input.
9. Pollutant Potential/Fugitive Emissions Com-	ment (limit to 200 characters):
	,
A.H	
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
Other and ESCPSD	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
36 lb/hr	36 lb/hour 337 tons/year cap
5. Method of Compliance (limit to 60 character	rs):
None	
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
	and 2; established as BACT; basis of limit is
Time and the property of the contract of the c	and w, colabilities as Driver, basis of milities
0.2 lb/MMDtu Fach duct human is limited to	
0.2 lb/MMBtu. Each duct burner is limited to	
0.2 lb/MMBtu. Each duct burner is limited to	

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Emissions Unit Information Section		1	of <u>2</u>	
Pollutant Detail Information Page	<u>7_</u>	of	21	

2 CTs w/ HRSG & DBs Carbon Monoxide

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	CO (CT + DB on nat. gas)	
3.	Potential Emissions:	4. Synthetically
	92.5 lb/hour	337 tons/year Limited? [Y]
5.	Range of Estimated Fugitive Emissions:	
	[] 1 [] 2 [] 3	totons/year
6.	Emission Factor:	7. Emissions
	Reference:	Method Code:
8.	Calculation of Emissions (limit to 600 chara	icters):
	D. H D	41 1 200 1
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
<u>Al</u>	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	Other and ESCPSD	Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	92.5 lb/hr.	92.5 lb/hour 337 tons/year cap
-	Mathad of Compliance (limit to 60 aboratos	1
Э.	Method of Compliance (limit to 60 character Title V permit renewal compliance test, EPA	
	Title v permit renewal compliance test, EFA	t memod 10
_		
6.	Allowable Emissions Comment (Desc. of Op	
		hed BACT, 28 ppm for gas firing on CT which
	reflects 56.5 lb/hr. and 36 lb/hr on DB, and a	3 10'
	13.3 tpy site reduction from the current perm	111.

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Emissions Unit Information Section	1	c	of <u>2</u>	
Pollutant Detail Information Page	8	of	21	

2 CTs w/ HRSG & DBs Particulate Matter - Total

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

-	TS 11 TS 1 1	a milb ince	50 1
1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:
	PM/ PM10 (CT on fuel oil)		
3.	Potential Emissions:		4. Synthetically
	20 lb/hour	27 tons/year	Limited? [Y]
5.	Range of Estimated Fugitive Emissions:		
	[] 1 [] 2 [] 3	to to:	ns/year
6.	Emission Factor: 0.026 lb/MMBtu		7. Emissions
	Reference: Permit limit (BACT)		Method Code: 0
8.	Calculation of Emissions (limit to 600 chara Potential emissions based on permit limit. En (BACT). Operations are limited to 240 hrs/y	missions based upon 0.02	
9.	Pollutant Potential/Fugitive Emissions Community potential emissions based on CTs at Limit is based upon the current permit limit. 701,000 gallons /year, per unit.	51° F operating condition	s on fuel oil. Annual
Al	lowable Emissions Allowable Emissions	of	
1.	Basis for Allowable Emissions Code: Other	2. Future Effective Da Emissions:	te of Allowable
3.	Requested Allowable Emissions and Units: 20 lb/hr	4. Equivalent Allowab 20 lb/hour 27	le Emissions: tons/year
5.	Method of Compliance (limit to 60 character Annual VE test; 10% or less	s):	
6.	Allowable Emissions Comment (Desc. of Op Fuel oil firing; CTs 1&2, established as BAC 0.026 lb/MMBtu	• ' '	,

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2 CTs w/ HRSG & DBs Particaulate Matter - Total

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:					
	PM/PM10 (CT on nat. gas)						
3.	Potential Emissions:	4. Synthetically					
	5 lb/hour	27 tons/year Limited? [Y]	_				
5.	Range of Estimated Fugitive Emissions:		_				
	[] 1 [] 2 [] 3	totons/year					
6.	Emission Factor:	7. Emissions	_				
	Reference:	Method Code:	_				
8.	Calculation of Emissions (limit to 600 charal Based upon 0.0065 lb/mmBtu (BACT) and 4						
9.	9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): The maximum allowable emission rate is 27 tpy						
All	lowable Emissions Allowable Emissions	of	_				
1.	Basis for Allowable Emissions Code: Other	2. Future Effective Date of Allowable Emissions:					
3.	Requested Allowable Emissions and Units: 5 lb/hr	Equivalent Allowable Emissions: 5 lb/hour 27 tons/year					
5.	Method of Compliance (limit to 60 character Annual VE test; 10% or less; if >400 hrs/yr of						
6.	Allowable Emissions Comment (Desc. of Orgas firing, based upon 0.0065 lb/mmBtu.	perating Method) (limit to 200 characters):					

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Emissions Unit Information Section	1	o	f _2	2 CTs w/ HRSG & DBs
Pollutant Detail Information Page	10	of	21	Particulate Matter - Total

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant	Emitted:	2.	Total Percent Effici	ency of Control:
3. Potential	Emissions: lb/hour	-	tons/year	4. Synthetically Limited? []
5. Range of	Estimated Fugitive Emi	issions:		
[]	1 [] 2	[] 3	to to	ons/year
6. Emission	Factor:			7. Emissions
Ref	erence:			Method Code:
8. Calculation	n of Emissions (limit to	o 600 characte	rs):	· · · · · · · · · · · · · · · · · · ·
	onally left blank)			
9. Pollutant	Potential/Fugitive Emis	sions Comme	nt (limit to 200 charac	cters):
Allowable Er	nissions Allowable Em	nissions	_ of	
1. Basis for .	Allowable Emissions Co	ode: 2	Future Effective D Emissions:	ate of Allowable
3. Requested	Allowable Emissions a	and Units: 4	Equivalent Allowa	ble Emissions:
5. Method of None	Compliance (limit to 6	60 characters):		
6. Allowable	Emissions Comment (Desc. of Opera	ting Method) (limit t	o 200 characters):

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Emissions Unit Information Section	1	o	f 2	2 CTs w/ HRSG & DBs
Pollutant Detail Information Page	11	of	21	Particulate Matter - Total

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:					
PM/PM10 (CT +DB)						
3. Potential Emissions:	4. Synthetically					
7.6 lb/hour	27 tons/year Limited? [Y]					
5. Range of Estimated Fugitive Emissions:						
[] 1 [] 2 [] 3	tototons/year					
6. Emission Factor:	7. Emissions Method Code:					
Reference:	Wiemod Code.					
8. Calculation of Emissions (limit to 600 chara	cters):					
0.006 lb/ mmBtu/ DB.	CT emission rate is based upon 0.0065 lb/ mmBtu and the DB emission rate is based upon 0.006 lb/ mmBtu/ DB.					
9. Pollutant Potential/Fugitive Emissions Com Allowable Emissions Allowable Emissions						
Basis for Allowable Emissions Code: Other	2. Future Effective Date of Allowable Emissions:					
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:					
7.6 lb/hr.	7.6 lb/hour 27 tons/year					
5. Method of Compliance (limit to 60 character Annual VE test; 10% or less	rs):					
6. Allowable Emissions Comment (Desc. of Op Natural gas firing for CTs and DBs. Establish						

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Emissions Unit Information Section	1	of	_2	_
Pollutant Detail Information Page	12	of	21	

2 CTs w/ HRSG & DBs Volatile Organic Compounds

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:
	VOC (CT on fuel oil)		
3.	Potential Emissions:		4. Synthetically
	8.7 lb/hour 30.8	tons/year	Limited? [Y]
5.	Range of Estimated Fugitive Emissions:		
	[]1 []2 []3	to to	ns/year
6.	Emission Factor:		7. Emissions
	Reference: Permit limit		Method Code: 0
8.	•	cters):	
	Potential emissions based on permit limit		
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	ters):
	Hourly potential emissions based upon CTs/	•	
	Limit is based on current permit limit		
All	Iowable Emissions Allowable Emissions	of	
1.	Basis for Allowable Emissions Code:	2. Future Effective Da	ite of Allowable
		Emissions:	
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:
	8.7 lb/hr	8.7 lb/hour 30	.8 tons/year
5.	Method of Compliance (limit to 60 character	rs):	
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to	200 characters):

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Emissions Unit Information Section	1	C	of 2	
				2 CTs w/ HRSG & DBs
Pollutant Detail Information Page	<u>13</u>	of	<u>21</u>	Volatile Organic Compounds

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	VOC	
3.	Potential Emissions: 3.4 lb/hour 30.8 tons/year	4. Synthetically Limited? [Y]
5.	8	
<u> </u>	[] 1 [] 2 [] 3	to tons/year
6.	Emission Factor:	7. Emissions
	Reference:	Method Code:
8.	Calculation of Emissions (limit to 600 chara	cters):
	Pollutant Potential/Fugitive Emissions Com	
<u>Al</u>	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code: Other	2. Future Effective Date of Allowable Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	3.4 lbs/hr	3.4 lb/hour 30.8 tons/year
5.	Method of Compliance (limit to 60 character Compliance with CO limit	rs):
6.	Allowable Emissions Comment (Desc. of Op Natural gas firing; CT Unit 1&2; established	

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Emissions Unit Information Section	1	of	2	
Pollutant Detail Information Page	14	of	21	

2 CTs w/ HRSG & DBs Volatile Organic Compounds

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

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

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Emissions Unit Information Section	<u> 1</u>	<u> </u>	of <u>2</u>	2 CTs w/ HRSG & DBs
Pollutant Detail Information Page	15	of	21	Volatile Organic Compound

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	VOC (DB on nat. gas)	
3.	Potential Emissions:	4. Synthetically
	5.4 lb/hour 30.8 tons/year	Limited? [Y]
5.	Range of Estimated Fugitive Emissions:	
6	[] 1 [] 2 [] 3 Emission Factor:	to to tons/year
6.		7. Emissions Method Code:
	Reference:	Wethod Code.
8.	Calculation of Emissions (limit to 600 chara	cters):
Q	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
). !	Tondant Totonnan agrive Dimesions Com	Helit (Hillit to 200 characters).
All	lowable Emissions Allowable Emissions	of
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	Other	Emissions:
3.	Requested Allowable Emissions and Units: 5.4 lb/hr	4. Equivalent Allowable Emissions:
		5.4 lb/hour 30.8 tons/year
5.	Method of Compliance (limit to 60 character	rs):
	None	
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
	Natural gas firing for Duct Burners in Units	
	mmBtu/yr.	

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Emissions Unit Information Section	1	of 2

2 CTs w/ HRSG & DBs Volatile Organic Compound

Pollutant Detail Information Page 16 of 21

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
VOC (CT + DB on nat. gas)	
3. Potential Emissions:	4. Synthetically
8.8 lb/hour	30.8 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
	tototons/year
6. Emission Factor:	7. Emissions
Reference:	Method Code:
8. Calculation of Emissions (limit to 600 chara	cters):
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
Other	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
8.8 lb/hr	8.8 lb/hour 30.8 tons/year
	<u> </u>
5. Method of Compliance (limit to 60 character	rs):
Annual Operating Report	
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
Natural gas firing for CTs and DBs	

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Emissions Unit Information Section	i	of	2	

2 CTs w/ HRSG & DBs Particulate Matter – PM₁₀

Pollutant Detail Information Page 17 of 21

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Effic	ciency of Control:
	PM ₁₀		
3.	Potential Emissions:		4. Synthetically
	20 lb/hour* 27	tons/year	Limited? [N]
5.	Range of Estimated Fugitive Emissions:		
	[] 1 [] 2 [] 3	to t	ons/year
6.	Emission Factor: 0.026 lb/MMBtu		7. Emissions
	Reference: Permit Limit (BACT)		Method Code: 0
8.	Calculation of Emissions (limit to 600 chara	cters):	
	Potential emissions based on permit limit		
9.	<u> </u>	•	-
	Hourly potential emissions based on CTs at	51° F operating condition	ons on fuel oil. Annual
	Limit is based on current permit limit		
All	lowable Emissions Allowable Emissions	of	
1.	Basis for Allowable Emissions Code:	2. Future Effective I	Date of Allowable
	Other	Emissions:	
3.	Requested Allowable Emissions and Units:	4. Equivalent Allow	able Emissions:
	5 lb/hr	5 lb/hour 27	tons/year
5.	Method of Compliance (limit to 60 character	rs):	
	Annual VE test; 10% or less		
			1
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit	to 200 characters):
	Natural gas firing; CTs 1 & 2; established as		
	0.0065 lb/MMBtu	F	,

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Pollutant Detail Information Page	18	of	21	

2 CTs w/ HRSG & Dbs Particulate Matter – PM₁₀

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2.	Total Percent Efficie	ency	of Control:
	PM10				
3.	Potential Emissions:			4.	Synthetically
	lb/hour		tons/year		Limited? []
5.	ε				
	[] 1 [] 2 [] 3	_	to to	ns/y	ear
6.	Emission Factor:			7.	Emissions
	Reference:				Method Code:
8.	Calculation of Emissions (limit to 600 chara	cters	s):		
9.	Pollutant Potential/Fugitive Emissions Com	ment	(limit to 200 charac	ters)) :
<u>Al</u>	lowable Emissions Allowable Emissions		of		
1.	Basis for Allowable Emissions Code:	T 2.	Future Effective Da	ite (of Allowable
İ	Other		Emissions:		
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowal	ole E	missions:
	20 lb/hr		20 lb/hour 27	to	ns/year
5.	Method of Compliance (limit to 60 character	rs):			-
	Annual VE test; 10% or les; if >400 hrs/yr o	perat	ion on fuel oil		
6.	Allowable Emissions Comment (Desc. of Op	perat	ing Method) (limit to	200	0 characters):
	Oil firing; CTs 1 & 2; established as BACT;	•	- / ·		•

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Pollutant Detail Information Page	<u>19</u>	of	21

2 CTs w/ HRSG & DBs Particulate Matter – PM₁₀

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

Pollutant Emitted:	2. Total Percent Efficiency of Control:	
PM10 (Duct Burner natural gas only)		
Potential Emissions:		4. Synthetically
lb/hour	tons/year	Limited? [X]
Range of Estimated Fugitive Emissions:		""
	to to	ons/year
Emission Factor:		7. Emissions
Reference:		Method Code:
Calculation of Emissions (limit to 600 chara	cters):	<u> </u>
Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	eters):
lowable Emissions Allowable Emissions	of	
Basis for Allowable Emissions Code: Other	2. Future Effective Da Emissions:	ate of Allowable
-	4. Equivalent Allowal	ble Emissions:
2.6 lb/hr	2.6 lb/hour 27	tons/year
	rs):	
None		
	PM10 (Duct Burner natural gas only) Potential Emissions:	Potential Emissions:

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

Emissions Unit Information Section	1		of 2	2 Cts w/ HRSG & DBs
Pollutant Detail Information Page	20	of	21	Particulate Matter – PM ₁₀

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
PM10	
PIVITU	
3. Potential Emissions:	4. Synthetically
7.6 lb/hour 27	tons/year Limited? [X]
5. Range of Estimated Fugitive Emissions:	
	to to
6. Emission Factor:	7. Emissions
Reference:	Method Code:
8. Calculation of Emissions (limit to 600 chara	cters):
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
Other	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
7.6 lb/hr	7.6 lb/hour 27 tons/year
5 Mathad of Compliance (limit to 60 character	<u> </u>
Method of Compliance (limit to 60 character Annual VE test; 10% or less	8).
Aimual VL test, 1070 of less	
6. Allowable Emissions Comment (Desc. of Op	
Natural gas firing for CTs and DBs. Establis	hed as BACT

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Emissions Unit Information Section	1	of	2	_
Pollutant Detail Information Page	21	of	21	

2 CTs w/ HRSG & DBs Sulfur Dioxide

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pol	llutant Emitted:	2. Total Percent Efficiency of Control:				
so	(CT on fuel oil)					
3. Pot	tential Emissions:		4. Synthetically			
	87.6 lb/hour 21	tons/year	Limited? [Y]			
5. Rar	nge of Estimated Fugitive Emissions:		<u></u>			
	[] 1 [] 2 [] 3	to to	ns/year			
6. Em	nission Factor: 0.1 % Sulfur		7. Emissions			
	Reference: Permit Limit	_	Method Code: 0			
Pote fuel ope	lculation of Emissions (limit to 600 chara tential emissions based on permit limit. El oil, and each unit being restricted to a togrations restricted to 240 hours annually.	Emissions are based on a lotal of 701,000 gallons of	fuel oil annually and			
Ноι	 Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Hourly potential emissions based on CTs at 51° F operating on distillate oil. Annual Emissions limit is based on current permit limit. 					
<u>Allowa</u>	able Emissions Allowable Emissions	of				
Oth		2. Future Effective Da Emissions:	ite of Allowable			
	quested Allowable Emissions and Units: 6 lb/hr	4. Equivalent Allowab 87.6 lb/hour 21				
	thod of Compliance (limit to 60 characterel analysis – oil firing	rs):				
Allo Ann	owable Emissions Comment (Desc. of Opowable emissions established as limit in Annual limit established for facility of 701,0 ired on fuel oil.	AC permit; Table 1A for o	distillate oil firing.			

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

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: VE 10 Rule X Other 3. Requested Allowable Opacity: Normal Conditions: 10% **Exceptional Conditions:** % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance: EPA Method 9 5. Visible Emissions Comment (limit to 200 characters): VE limit established in Permit AC 51 – 196460, specific condition No. 6

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

Manitaning Systems Continuous Manitan 1 of 2

Continuous Monitoring System: Continuous	Monitor 1 of 2
1. Parameter Code: WTF	2. Pollutant(s):
3. CMS Requirement:	[X] Rule [] Other
4. Monitor Information:	
Manufacturer: Chessell	
Model Number: 4181G	Serial Number: 1692600101010901
5. Installation Date: 01 July 1993	6. Performance Specification Test Date:
	N/A
7. Continuous Monitor Comment (limit to 200	characters):
Parameter Code: Fuel. CMS required by NS	SPS (40 CFR 60 subpart GG). Systems installed
in accordance with original Air Construction pe	rmit, specific condition No. 22

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

Visible Emissions Limitation: Visible Emissions Limitation ____ 2 of ___ 2 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: [] Other **VE99** [X] Rule 3. Requested Allowable Opacity: Normal Conditions: % **Exceptional Conditions:** 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour 4. Method of Compliance: Best operating practice 5. Visible Emissions Comment (limit to 200 characters): Excess VE allowed for startup and shutdown pursuant to FDEP Rule 62-210, 700 (1), 2 hrs/24 hour period

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

 Continuous Monitor
 2
 of
 2

 1. Parameter Code: WTF
 2. Pollutant(s):

 3. CMS Requirement:
 [X] Rule
 [] Other

4. Monitor Information:
 Manufacturer: Chessell
 Model Number: 4181G
 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
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 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
 Serial Number: 1692600101010901
 Serial Number: 169260010101010901
 Serial Number: 169260010101010010001000100100001
 Ser

CMS required by NSPS (40 CFR 60 Subpart GG). System installed in accordance with Air Construction Permit, Specific condition No. 22. Pollutant emitted = NOx

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

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

Supplemental Requirements

[1.	Process Flow Diagram [X] Attached, Document ID: PC-E01-L1 [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification [X] Attached, Document ID: PC-E01-L2 [] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities [X] Attached, Document ID: PC-E01-L4 [] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	[X] Previously submitted, Date: February 22 and March 22, 1999
	[] Not Applicable
6.	Procedures for Startup and Shutdown [] Attached, Document ID: PC-E01-L6 [] Not Applicable [] Waiver Requested
7	Operation and Maintenance Plan
/ ·	
, ,	[] Attached, Document ID:_ [X] Not Applicable [] Waiver Requested
	[] Attached, Document ID:_ [X] Not Applicable [] Waiver Requested Supplemental Information for Construction Permit Application
8.	Supplemental Information for Construction Permit Application
8.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable
8. 9.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute
8. 9.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
8. 9.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
8. 9.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable
8. 9.	Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable

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

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation		
[X] Attached, Document ID: PC-E01-L10 [] Not Applicable		
12. Alternative Modes of Operation (Emissions Trading)		
[] Attached, Document ID: [X] Not Applicable		
13. Identification of Additional Applicable Requirements		
[] Attached, Document ID: [X] Not Applicable		
14. Compliance Assurance Monitoring Plan		
[X] Attached, Document ID: PC-FI-E14 [] Not Applicable		
15. Acid Rain Part Application (Hard-copy Required)		
13. Acid Rain Fait Application (riaid-copy Required)		
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))		
Attached, Document ID:		
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)		
Attached, Document ID:		
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)		
Attached, Document ID:		
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)		
Attached, Document ID:		
		
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:		
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)		
Attached, Document ID:		
[X] Not Applicable		

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	1. Type of Emissions Unit Addressed in This Section: (Check one)					
[]	[] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).					
[X]	process or prod		addresses, as a single emissies which has at least one defigitive emissions.			
[n addresses, as a single emis s which produce fugitive em			
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)	· · · ·		
[X	The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated		
[] The emissions were emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is an unregulated		
3.	-	nissions Unit Addressed gitive and Vent Emission	in This Section (limit to 60 cs	characters):		
4.	Emissions Unit Id	lentification Number:		[] No ID		
	ID:			[X] ID Unknown		
5.	Emissions Unit	6. Initial Startup	7. Emissions Unit Major	8. Acid Rain Unit?		
	Status Code:	Date: 1 Jul 93	Group SIC Code:	[N]		
	A 49					
9.	9. Emissions Unit Comment: (Limit to 500 Characters)					
This emissions unit consists of a fuel oil storage tank, facility-wide fugitive and vent						
emissions from various loctions throughout the facility. These emission points are listed in PC-E02-B6, with the exception of NOx emissions from the 1.275 MW emergency generators,						
the cumulative emissions from these units are less than the reporting thresholds. List of						
	exemptions: 62-210.300 (3)(a) 5, 7, 9, 10,11,12, 15, 16, 20,21,22,23,24;62-296.310(2) and (3).					
Trivial sources listed for completeness.						

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

Emissions Unit Control Equipment

1.	Control Equipment/Method Description (Limit to 200 characters per device or method):
	s.
	,
2.	Control Device or Method Code(s):

Emissions Unit Details

1.	Package Unit:			
	Manufacturer:	Model Ni	ımber:	
2.	Generator Nameplate Rating:	MW		
3.	Incinerator Information:			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
	Incinerator Afterburner Temperature:		°F	

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

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

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		MMBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate: 701,100 gal/yr	
4.	Maximum Production Rate:		
5.	Requested Maximum Operatin	g Schedule:	
	24	hours/day	7 days/week
	52	weeks/year	8760 hours/year
	Maximum process rate reflects	fuel oil throughout limit for	CT oil storage tank

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

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

	·
40CFR60.116b(b)	
· · · · · · · · · · · · · · · · · · ·	
•	

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

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

Emission Point Description and Type

Į.	1. Identification of Point on Plot Plan or 2. Emission Point Type Code:			
Flow Diagram? Facility w	ide 2			
3. Descriptions of Emission P	oints Comprising	g this Emissions	Unit for VE Tracking	(limit to
100 characters per point):	omis Comprism,	g una Emissions	Official VL Hacking	(IIIIII to
l so characters per points,				
4. ID Numbers or Description	s of Emission Li	nite with this Emi	ission Point in Comm	<u> </u>
4. ID Numbers of Description	is of Emission O	ints with this Em	ission Point in Comm	OII:
	7		· · · · · · · · · · · · · · · · · · ·	<u>-</u> ,
5. Discharge Type Code:	6. Stack Heig		7. Exit Diameter:	_
F		feet		feet
8. Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:	
x =77 °F	Rate:		To: Water vapor.	%
		acfm		
11. Maximum Dry Standard Fl		12. Nonstack Ei	mission Point Height:	
	dscfm		0 .	feet
13. Emission Point UTM Coord	dinates:	<u>.</u>		
Zone: F	East (km):	Nort	h (km):	
14. Emission Point Comment (iimit to 200 char	acters):		
Emission points are fugitive, ar	nd located throug	hout the facility		
See PC-F1-E5		,,		

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

Segment Description and Rate: Segment 1 of 2 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Petroleum Liquid Storage; fixed roof – distillate fuel No. 2; working loss 2. Source Classification Code (SCC): 3. SCC Units: 4-03-010-21 Thousand gallons used 6. Estimated Annual Activity 6. Maximum Hourly Rate: 7. Maximum Annual Rate: 6.5 701 Factor: 7. Maximum % Sulfur: 8. Maximum % Ash: 11.Million Btu per SCC Unit: 10. Segment Comment (limit to 200 characters): Maximum Annual Rate: 701.1 (rounded to 701). Distillate fuel oil usage limit per combustion turbines Segment Description and Rate: Segment 2 of 2 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Petroleum Liquid Storage; fixed roof distillate fuel No.2; breathing losses 2. Source Classification Code (SCC): 3. SCC Units: 4-03-010-20 Thousand Gallons stored 6. Maximum Hourly Rate: 7. Maximum Annual Rate: 6. Estimated Annual Activity 170 Factor: 7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Unit: 12. Segment Comment (limit to 200 characters): Maximum annual rate reflects storage capacity

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

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NOx	Device code	20,100 0000	NS NS
1101			148
•			
•			

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Emissions Unit Information Section	2 of 2	
		Faci
Pollutant Detail Information Page _	1 of 1	emis

Facility-wide fugitive emissions

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

Emissions-Emineu and Freconstruction Review Fundants

Potential/Fugitive Emissions

1. I	Pollutant Emitted:	2.	Total Percent Efficie	ency of Control:
l I	Fugetive Emissions (Other)			
3. I	Potential Emissions:			4. Synthetically
	lb/hour		tons/year	Limited? []
5. I	Range of Estimated Fugitive Emissions:			
	[] 1 [] 2 [] 3	_	to to:	ns/year
6. I	Emission Factor:			7. Emissions
	Reference:			Method Code:
8. (Calculation of Emissions (limit to 600 chara	cters	s):	
	(,,	
9 F	Pollutant Potential/Fugitive Emissions Com	meni	(limit to 200 charac	ters):
, . <u>.</u>	ondant I otolidan I agin vo Emissions Com		(mmit to 200 charac	.0.0).
(T)	his page intentionally left blank)			
	,			
Allo	wable Emissions Allowable Emissions		of	
1. E	Basis for Allowable Emissions Code:	2.	Future Effective Da	ite of Allowable
			Emissions:	
3. F	Requested Allowable Emissions and Units:	4.	Equivalent Allowab	le Emissions:
			lb/hour tons/year	r
<u> </u>	(1.1.1.CC		- tono, y can	
5. N	Method of Compliance (limit to 60 character	rs):		
6. <i>A</i>	Allowable Emissions Comment (Desc. of O	perat	ing Method) (limit to	200 characters):

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

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

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ions Limitation 1 of 1				
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:				
	VE 20	[X] Rule [] Other				
3.	Requested Allowable Opacity:					
	Normal Conditions: 20% Ex	cceptional Conditions: %				
	Maximum Period of Excess Opacity Allowe	ed: 60 min/hour				
4.	Method of Compliance:					
	None					
<u> </u>						
5.	Visible Emissions Comment (limit to 200 cl	•				
		eneral VE pursuant to Rule 62-296.320(4)(b);				
exe	cess emissions allowed for startup/shutdown	and malfunction per Rule 62-210.700(1)				
<u> </u>						
	I. CONTINUOUS MO	NITOR INFORMATION				
	(Only Regulated Emissions Units	Subject to Continuous Monitoring)				
Co	ontinuous Monitoring System: Continuous					
1.	Parameter Code:	2. Pollutant(s):				
3.	CMS Requirement:	[] Rule [] Other				
4.	Monitor Information:					
	Manufacturer:					
	Model Number:	Serial Number:				
5.	Installation Date:	6. Performance Specification Test Date:				
7.	Continuous Monitor Comment (limit to 200	characters):				
i						

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

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

Supplemental Requirements

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

Additional Supplemental Requirements for Title V Air Operation Permit Applications

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

[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
[X] Not Applicable

ATTACHMENT PC-AI-AC

ATTACHMENT PC-AI-AC

This application is for Pasco Cogeneration Facility Florida.	y, located in Pasco County, Dade City,
The application structure is as follows:	
Emission Units	
General: 2 combustion turbines (CTs)* 2 heat recovery steam generators (HRSGs)	
Emissions Points (2): 2 stacks for CT/HRSG Units	s 1 & 2
Fuel Segments: Natural gas, with 240 hours per year	ear maximum of distillate oil
Pollutants CT/HRSG	NO _x , CO, PM/PM10, VOC, SO ₂
<u>VE Emissions</u>	
CT/HRSG	VE limits applicable
<u>CMS</u>	
CT/HRSG	NO _x , O ₂ , fuel consumption
<u>PSD</u>	

 NO_x

CT/HRSG

^{*}This proposal is to have each LM-6000 unit uprated by GE with their water mist injection technology to enhance performance.

ATTACHMENT PC-BI-AC

Five Year Site Emissions Data and Proposed Emissions Cap

ATTACHMENT PC-B1-AC FIVE YEAR SITE EMISSIONS DATA AND PROPOSED EMISSIONS CAP

<u>Pollutant</u>	U1_	<u>1998</u> U2	T <u>o</u> tal	Ul	1999 U2	Total	UI	<u>2000</u> U2	Total	U1	2001 U2	Total	Ul	2002 U2	Tatal
											U2	Total	01	<u>U2</u>	<u>Total</u>
<u>NOx</u>	173.1 ¹	173.5	346.5	160.2	159.1	310.3	147.0	147.0	294.0	126.0	127.2	253.2	124.2	125.2	249.4
<u>CO</u>	125.5	127.9	253.4	114.4	107.4	221.8	97.1	97.8	194.8	83.8	84.9	168.6	81.7	82.1	163.8
PM/PM10	11.1	11.2	22.3	10.3	9.6	19.9	9.5	9.5	18.9	8.1	8.2	16.3	8.0	8.0	16.0
<u>SO2</u>	5.3	5.4	10.8	4.8	4.5	9.2	4.4	4.4	8.7	3.7	3.8	7.5	3.7	3.7	7.4
<u>VOC</u>	9.3	9.7	19.0	8.2	7.8	16.0	6.0	6.2	12.2	5.2	5.4	10.8	5.0	5.0	10.0
Pollutant		Curre	ent Perm	uit ²		1998/ <u>Mean</u>			PSD ^	<u> Frigger</u>		-	oosed	np	Current vs. Proposed Cap <u>Difference</u>
				_								_		-1-	
<u>NOx</u>		404	4.7			328.	4		40			36	8.0		-36.7
<u>CO</u>		350	0.3			237.	6		100			33	7.0		-13.3
<u>PM/PM10</u>		2	7.0			21.	1		15			2	7.0		0
<u>SO2</u>		2	1.0			10.	0		40			2	1.0		0
<u>VOC</u>		30	8.0			17.	5		40			3	0.8		0

All calculations are in tons per year (tpy).

Numbers represent total emissions from both site CTs

ATTACHMENT PC-FI-B LIST OF APPLICABLE REGULATIONS

ATTACHMENT PC-FI-B LIST OF APPLICABLE REGULATIONS

Chapter 4 Permits	
62-4.030	General Prohibition. (State only)
62-4.100 (1)(a);(b)	Exemptions Suspensions and Revocation. (State only)
62-4.120	Transfer of Permits. (State only)
62-4.130	Plant Operations – Problems. (State only)

Chapter 210 Stationary Sources - General Requirements		
62-210.300	Permits Required.	
	(2) Air Operation Permits.	
	(3)Exemptions; (a) 5,7,9,10,11,12,15,16,20,21,22,23,24.	
62-210.350	Public Notice and Comment.	
<u> </u>	(1) Public Notice of Proposed Agency Action.	
	(3) Additional Public Notice Requirements for Facilities Subject to Operation Permits for Title V Sources	
62-210.360	Administrative Permit Corrections.	
62-210.370	Reports.	
	(3) Annual Operating Report for Air Pollutant Emitting Facility.	
62-210.900	Forms and Instructions; (5)	

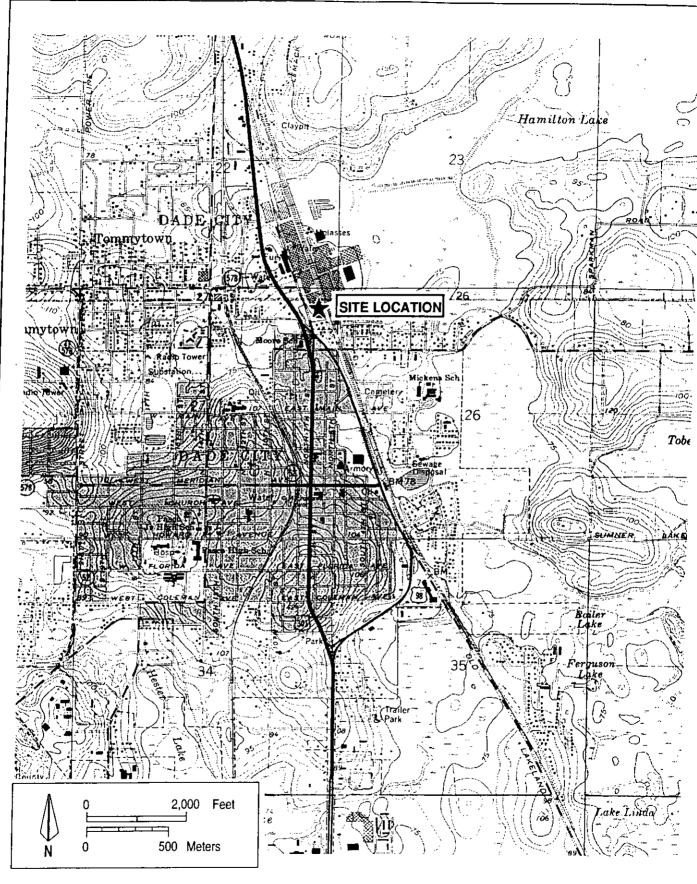
ATTACHMENT PC-FI-B LIST OF APPLICABLE REGULATIONS

Chapter 213 Operation Permits for Major Sources of Air Pollution			
62-213.205	Annual Operation Licensing Fee; (1), (a), (b), (c), (e), (f), (g), (i), (j)		
62-213.410	Changes Without Permit Revision.		
62-213.420	Permit Applications. (1)(b)2. and 3.		
62-213.460	Permit Shield.		
62-213.900	Forms and Instructions; (1)		

Chapter 296 Stationary Sources – Emission Standards				
62-296.320	General Pollutant Emission Limiting Standards.			
	(2) Objectionable Odor Prohibited			
	(4) General Particulate Emission Limiting Standards			
***************************************	(c) Unconfirmed Emissions of Particulate Matter			

EPA Part 82 – Protection of Stratospheric Ozone				
Subpart F – Re	cycling and Emissions Reduction			
82.166	Reporting and record keeping requirements; (k) and (m).			

ATTACHMENT PC-FI-E1 AREA MAP

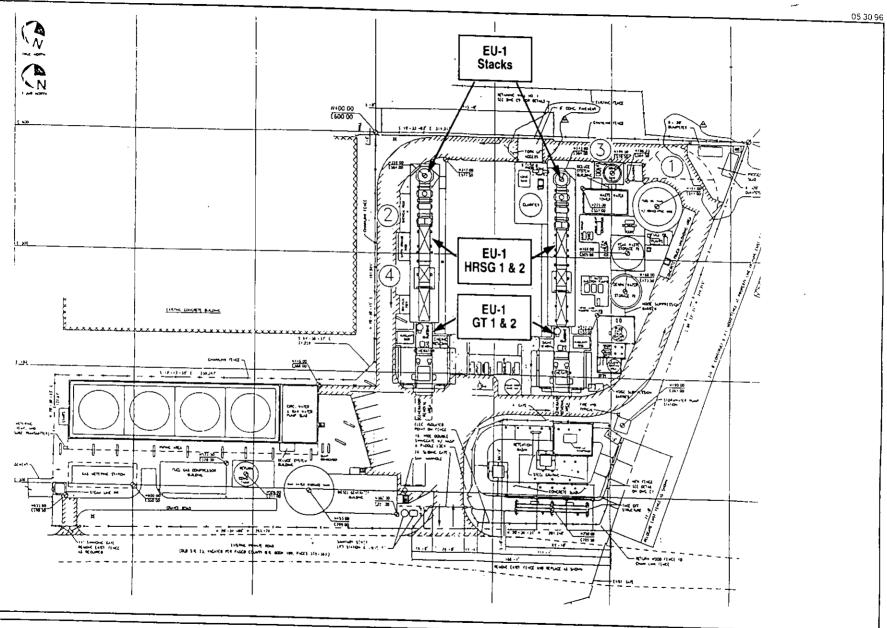


Attachment PC-FI-E1 Location of the Pasco Cogeneration, Limited Facility, Pasco County, Florida

Sources: USGS, 1988: KBN, 1996.



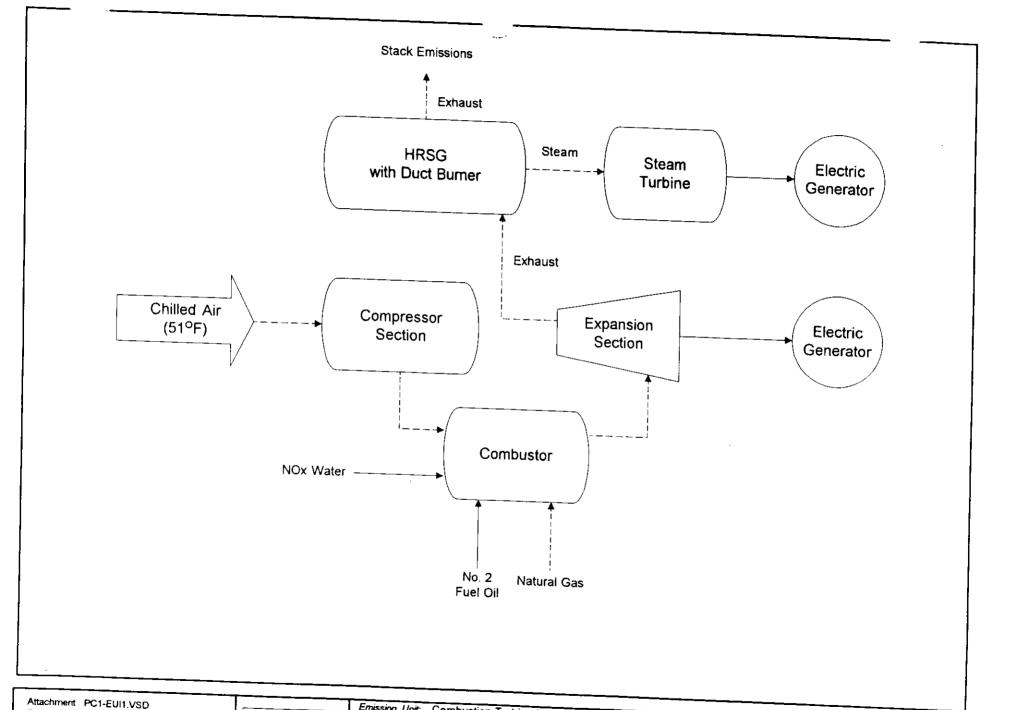
ATTACHMENT PC-FI-E2 FACILITY PLOT PLAN



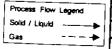
Attachment PC-FI-E2 Facility Plot Plan



ATTACHMENT PC-FI-E3 PROCESS FLOW DIAGRAM



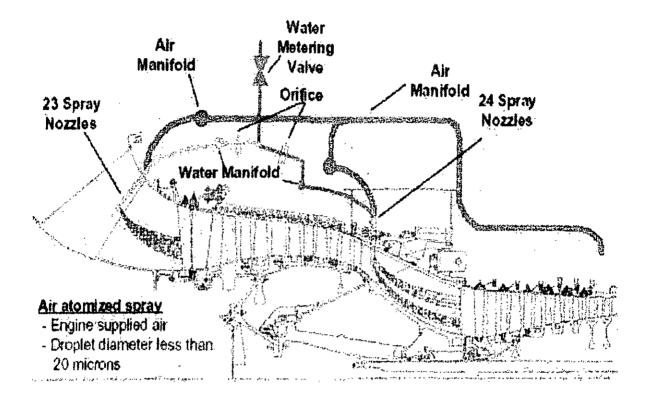
Pasco Cogeneration, Ltd. Process Flow Diagram Dade City, Florida



Emission Unit: Combustion Turbine Unit (1 and 2) Process Area:

Filename: PC1-EUI1.VSD Latest Revision Date: 5/20/96





Schematic diagram of the Sprint system showing water droplets being injected into the LPC and HPC of an LM6000.

ATTACHMENT PC-FI-E4
PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE
MATTER

ATTACHMENT PC-FI-E4

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

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

- Fugitive dust from paved and unpaved roads,
- Fugitive particulates from the use of bagged chemical products, and
- Storage and handling of zero-liquid-discharge (ZLD) salt cake.

Operational measures are undertaken at the facility which also minimize particulate emissions, in accordance with 62-296.310(3), F.A.C.:

- · Maintenance of paved areas as needed,
- Regular mowing of grass and care of vegetation,
- Limiting access to plant property by unnecessary vehicles,
- Use of bagged chemical products in enclosed or semi-enclosed areas, and
- Storage of ZLD byproduct in covered enclosed containers.

ATTACHMENT PC-FI-E5 FUGITIVE EMISSIONS IDENTIFICATION

ATTACHMENT PC-FI-E5 FUGITIVE EMISSIONS IDENTIFICATION

It should be noted that many fugitive emissions at the plant site have been classified as "exempt" or "trivial" activities and as such are not addressed here. The discussion below provides information on fugitive emissions that may occur at the facility.

Criteria and Precursor Air Pollutants

Fugitive particulate emissions are addressed in Attachment PC-FI-E4. Pasco Cogeneration, LT. Is not aware of fugitive emission of sulfur dioxide, nitrogen oxides, carbon monoxide, or lead compounds which would exceed the thresholds defined in the permit application instructions.

Volatile Organic Compounds (VOCs)

Fugitive emissions of VOCs include those resulting from the use of cleaners and solvents for maintenance and operation. VOCs are also emitted by the fuel oil storage tanks on the plant property, and by the combined-cycle units. VOC emissions for each of these emission units are covered in the respective Facility Pollutant or Emission Unit sections of this permit application.

Fugitive HAPs Emissions

The following hazardous air pollutants are present on the facility property and are potential sources of fugitive HAPs emissions:

- Chlorine
- Naphthalene
- · Methyl ethyl ketone
- Toluene
- Xylene

Chlorine – Present in 150-lb cylinders. Used for water treatment at the facility. Presumptively exempt under category #27 of the FDEP Title V Insignificant Source Summary dated May 20, 1994.

Methyl Ethyl Ketone, Toluene, Xylene – The facility routinely maintains 5 gallons of paint thinner and solvents (which may contain MEK, toluene, or xylene) for use inplant maintenance activities. These containers are kept closed and are stored in weather-tight buildings. These emissions as a whole are addressed in the VOC section (preceding page).

Regulated Toxic or Flammable Substances

The following regulated toxic or flammable substances are present at the Pasco Cogeneration facility:

- Chlorine
- Sulfuric acid
- Acetylene
- Methane (natural gas)
- Cyclohexylamine

Chlorine – considered on the preceding page.

Sulfuric Acid – The facility maintains a 6,000-gallon Sulfuric Acid storage tank for water treatment use.

Acetylene – Present on the facility property in two 125-lb cylinders which are used for plant maintenance (welding and cutting). These operations are identified by EPA as trivial activities, and are exempt by Rule 62-210.3000.

Methane – Is a primary component of natural gas. The facility has a natural gas pipeline which delivers fuel to the generating units. This fuel delivery system is normally airtight, but does have safety valves which occasionally relieve (open) when an overpressure condition develops in the gas line.

Cyclohexylamine – The facility maintains several covered tote bins of a pH-adjustant chemical (Nalco Tri-Act 1820 Inhibitor) with up to 40% by weight of cyclohexylamine.

PC-FI-E6 SUPPLEMENTAL INFORMATION FOR CP APPLICATION

PC-F1-E6: Supplemental Information For CP Application

Pasco Cogen plans to uprate its 2 GE LM6000 PA series Combustion Turbines (CTs) into more efficient units using GE's current uprate program. Given the nature of the facility's PPA and steam export requirements to Pasco Beverage (steam host facility), the only way to improve plant performance is to decrease fuel consumption while maintaining current power loads and export steam levels. Modification of the current LM-6000 model with the proposed uprate can help Pasco Cogen achieve this goal. Pasco will physically upgrade one unit on site, while replacing the second, with a newly reconditioned and upgraded unit.

The primary advantage of the newer LM6000 uprate technology for Pasco Cogen will be the fact that the modified CTs will experience significantly better fuel economy than the current PA series CTs. The key reason for this improved fuel efficiency is the use of GE's "spray intercooling" or Sprint modification technology. Spray intercooling involves the injection of a fine mist of demineralized water into the inlet of the CT compressor section. The small water droplets (< 20 micron), rapidly evaporate as the compressed air heats up within the compressor unit. The evaporation process extracts heat from the air and lowers the discharge temperature of the compressor. The lower discharge temperature allows the firing temperature of the engine to be increased because the compressor discharge air is used to cool the most critical parts of the hot sections of the engine. By providing this cooling, the modification allows the engine to operate more efficiently. The hotter firing temperature, or increased delta in temperature, produces more power with improved fuel efficiency.

The results seen from this modification are especially noticeable in warm /hot weather. Based upon ASHRAE weather data for the past 50 years in the vicinity of Pasco Cogen, the average ambient temperature observed during on-peak hours of operation is approximately 80°F. At that temperature, the facility can produce 109 MW of power using the PC Sprint engines with no inlet chilling or supplemental firing.

Based upon emission levels seen from similar uprates in other units, the NOx and CO emissions resulting from the CT uprate modification are expected to remain within compliance of the current permit concentration (ppm) requirements. The total plant emission rates for NOx and CO are expected to be elevated slightly. NOx, is anticipated to rise from its current 85.5 lb/hr to 86.0 lb/hr., while CO is expected to increase slightly from 56.0 lb/hr to 56.5 lb/hr, for CO, both while firing on natural gas. Currently, the site's LM6000 PA engines use water injection into the combustion chamber to meet permit limits. The water moderates the flame temperature, which suppresses NOx formation. It is anticipated that this same technique will continue to be used to maintain control of NOx emissions at 25 ppmvd and CO emissions at 28 ppmvd with the modified units also. As shown in the synthetic cap table, Pasco is willing to accept less hours of operation or additional hours of lower load operation to meet the lower annual tonnage caps in order to have the ability to have this additional coverage.

ATTACHMENT PC-FI-E8 LIST OF EQUIPMENT/ACTIVITIES REGULATED UNDER TITLE VI

ATTACHMENT PC-FI-E8

LIST OF EQUIPMENT/ACTIVITIES REGULATED – TITLE VI

Pasco Cogeneration, Limited currently has over 9 refrigeration and air-conditioning units on the plant site. Of these, 3 chiller units currently meet the 50-pound threshold established by the Department.

Model Name, Number	General Area	<u>Amount</u>
Trane Centravac Water Chiller Model CVHF1270	CT/HRSG Chiller (2 units)	1,250 tons (each unit)
Mitsubishi Steam Absorption Chiller Model MDHU	Auxiliary Building	1,500 tons

ATTACHMENT PC-FI-E9 ALTERNATIVE METHODS OF OPERATION

ATTACHMENT PC-FI-E9

ALTERNATE METHODS OF OPERATION

Alternate methods of operation which could simultaneously affect more than one emissions unit include the following:

1. Use of alternate fuels (e.g. distillate oil) for any unit could simultaneously affect insignificant emissions from the fuel storage tanks based on increased or decreased use of the fuel stored in the tank.

ATTACHMENT PC-FI-E14 COMPLIANCE REPORT AND PLAN

ATTACHMENT PC-FI-E14

COMPLIANCE REPORT AND PLAN PASCO COGEN LIMITED COGENERATION FACILITY

In accordance with Chapter 62-213, F.A.C. and based upon FDEP Permit No. AC51-196460, PSD-FL-177, the Cogeneration Facility Units 1 and 2 must comply with the following tests and reports as follows:

Table 1. Compliance Report and Plan, Pasco Cogeneration, Limited, Combined Cycle Units 1 and 2

Parameter	Value	Compliance
		Schedule/Method
Operating Hours	8,760 max., limit of 240 annual hours on fuel oil	Annual Operating Report
Heat Input Rate	427.2 MMBtu/hr-natural gas (51° F, LVH)per CT	Annual Operating Reprot
	(corresponds to 407 MMBtu/hr ISO) (fuel increase)	Daily fuel usage records
	424 MMBtu/hr-No. 2 fuel oil (51°F, LHV)per CT	•
	(corresponds to 406 MMBtu/hr ISO)	
	90 MMBtu/hr-natural gas (HHV) per duct burner	
	525,000 MMBtu/yr-natural gas per duct burner	
Fuel Usage Rate	2,921 gal/hr per CT-No2 fuel oil	Annual Operating
	701,050 gal/yr per CT-No.2 fuel oil	Report Daily fuel usage records
Fuel Oil Specifications	0.1 percent sulfur by weight	Tested by approved ASTM Methods
	Monitor nitrogen content and lower and higher heating	Records maintained for 3 years
	values of fuel oil	<u>-</u>
Natural Gas Specifications	Sulfur content	Custom fuel monitoring schedule
		Records maintained for 3 years
Nitrogen Oxides	86.0 lb/hr – CT BG (BACT 25 ppmvd @ 15% O ₂)	Annual Stack Test (Gas only)
	148.3 lb/hr – CT DFO (BACT 42 ppmvd @15% O ₂)	Quarterly Excess Emissions Report
	18.0 lb/hr – DB NG (BACT 0.1 lb/MMBtu)	Monitoring of water-fuel ration
	104.0 lb/hr ~ CT&DB NG	-
	368.0 TPY (synthetic cap of NOX) (36.7 TPY	
	reduction)	
Particulate Matter	5.0 lb/hr – CT NG (BACT 25 ppmvd @ 15% O ₂)	Compliance based on meeting VE limi
	20.0 lb/hr - CT DFO (BACT 42 ppmvd @15% O ₂)	Annual test required if VE exceeds
	2.6 lb/hr - DB NG (BACT 0.1 lb/MMBtu)	10%
	7.6 lb/hr – CT&DB NG	
	27.0 TPY (worst case fuel firing-by permit, Table 1a)	
Sulfur Dioxide	87.6 lb/hr (0.1% sulfur) – CT DFO	Fuel Oil Analysis (if>400 hr/yr oil use)
	21.0 TPY	Quarterly Excess Emissions Report
Carbon Monoxide	56.5 lb/hr – CT NG (BACT 28 ppmvd)	Stack Test Upon Permit Renewal (Gas
	34.5 lb/hr – CT DFO (BACT 18 ppmvd)	only)
	36.0 lb/hr – DB NG (BACT 0.2 lb/MMBtu)	
	92.5 lb/hr – CT&DB NGa)	
	337 TPY Synthetic cap for CO) (13.3 TPY reduction)	
VOC	3.4 lb/hr – CT NG	Based on demonstration of compliance
	8.7 .b/hr – CT DFO	with CO emission limit
	5.4 lb/hr – DB NG	
	8.8 lb/hr – CT&DB NG	
	30.8 TPY (worst case fuel firing-by permit, Table 1a)	
Visible Emissions	10% opacity	Annual Visible Emissions Test
Mercury	0.0003 TPY – CT DFO	Requesting Deletion of Reporting
Lead	0.0008 TPY – CT DFO	Requesting Deletion of Reporting
Beryllium	0.0002 TPY – CT DFO	Requesting Deletion of Reporting
Sulfuric Acid Mist	0.80 TPY – CT DFO	Requesting Deletion of Reporting
Notes		

All stack testing must be conducted separately during operation of the CT only, and combined operation of the CT and HRSG duct

Nitrogen oxide and visible emissions test must be conducted annually prior to September 9 of each year. A copy of the fuel/water continuous monitoring data must be submitted with each stack test report.

Annual Report

An annual operation report must be submitted on the form supplied by FDEP on or before March 1 of each year

ATTACHMENT PC-FI-E15 COMPLIANCE STATEMENT

ATTACHMENT PC-FI-E15

COMPLIANCE STATEMENT

I, the undersigned, am the responsible official as defined in Chapter 62-213, 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.

Signature, Responsible Official

Date

ATTACHMENT PC-E01-D LIST OF APPLICABLE REGULATIONS

Emission Unit Applicable Requirement List - Pasco Cogeneration - Combustion Turbine

Chapter 210 S	Stationary Sources General Requirements	
62-210.650	Circumvention.	
62-210.700	Excess Emissions; (1); (4); (6)	

Chapter 204 Air Pollution Control General Provisions (State Only)				
62-204.800	Standards of Performance for New Stationary Sources (NSPS).			
	(7) General Provisions Adopted.			
	(b) The following Standards of Performance for New Stationary Sources contained in 40 CFR 60, revised as of July 1, 1994, or later as specifically indicated.			
	4. 40 CFR 60.40c Subpart Dc, Small Industrial - Commercial - Institutional Steam Generating Units.			
	37. 40 CFR 60.330 Subpart GG, Stationary Gas Turbines.			
-	(e) Appendices Adopted. The following appendices of 40 CFR Part 60, revised as of July 1, 1994 or later as specifically indicated, are adopted and incorporated by reference.			
	1. 40 CFR 60 Appendix A, Test Methods, are adopted by reference.			
	2. 40 CFR 60 Appendix B, Performance Specifications.			
	5. 40 CFR 60 Appendix F, Quality Assurance Procedures.			

1

Chapter 297 S	tationary Sources Emission Monitoring	
62-297.310	General Test Requirements.	
	(1) Required Number of Test Runs.	
=	(2) Operating Rate During Testing (a) Reserved for CTs	
	(4) Applicable Test Procedures. (a)1.; (b); (c); (d); (e)	
	(5) Determination of Process Variables.	
	(6) Required Stack Sampling Facilities (a); (c); (d); (e); (f); (g)	
	(7) Frequency of Compliance Tests (a)1., 3.; 4.b, 5., 9.	
	(8) Test Reports.	

ľ	PA Regulations on Standards of Performance for New Stationary Sources (CT)
Subpart A —	- General Provisions
60.7	Notification and record keeping. (b); (f)
60.8	Performance tests. (e)
60.11	Compliance with standards and maintenance requirements. (a), (b), (c), (d), (e)
60.12	Circumvention.
60.13	Monitoring requirements. (a), (b), (d)
Subpart GG -	- Standards of Performance for Stationary Gas Turbines
60.332	Standard for nitrogen oxides. (a) (1)
60.333	Standard for sulfur dioxide.
50.334	Monitoring of operations.
50.335	Test methods and procedures.

Part 60 - EP	A Regulations on Standards of Performance for New Stationary Sources (Duct Burner)					
Subpart A —	General Provisions					
60.7	Notification and record keeping (b); (f).					
Subpart Dc - Units	- Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating					
60.48c	Reporting and Record keeping; (g).					

ATTACHMENT PC-E01-E14 EMISSION POINT COMMENT

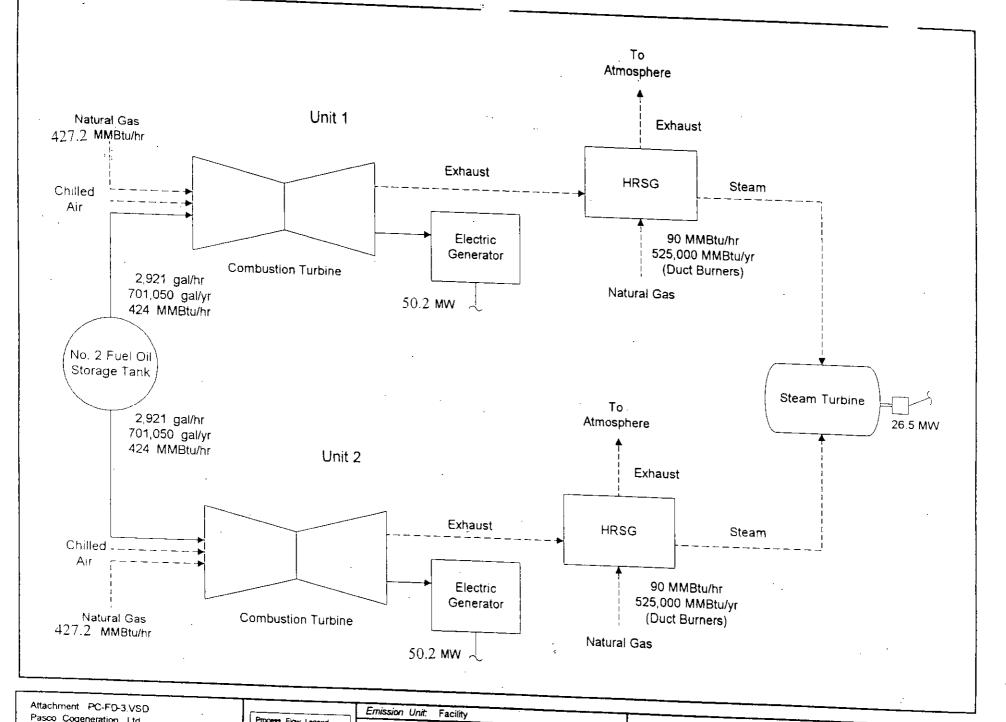
Table PC-E01-E14. Design Information and Stack Parameters for Pasco Cogen Combustion Turbine Units 1 and 2 Simple/Combin

	Gas Turbine	(Each Unit)	
	Cor	nbined Fuel Firing	
Data	No. 2 Fuel Oil	Natural Gas	
General			
Power (MW)	38.9	39.5	
Heat Input (MMBtu/hr)	424	423	
Estimated Heat Rate (Btu/kwh)	10,900	10,709	
Annual Capacity Factor (%)	100	100	
Hours of Operation	240	8,520	
Volume Flow (acfm) = [(Mass Flow (lb/hr) x 1,5	545 x (Temp. (°F)+ 460°F)] + [Mole	cular weight x 2116.8] + 60 min/hr	
Mass Flow (lb/hr)	1,081,322	1,079,779	
Temperature (°F)	815	806	
Molecular Weight	28.38	28.03	
Volume Flow (acfm)	590,949	593,257	
Volume Flow (dscfm)= [(Mass Flow (lb/hr) × 1,5	545 x (68°F + 460°F)] ÷ [Moleculai	weight x 2116.8] + 60 min/hr x [(1	- Moisture(%)/1
Mass Flow (lb/hr)	1,081,322	1,079,779	. ,
Temperature (°F)	68	68	
Molecular Weight	28.38	28.03	
Moisture (% Vol.)	9.30	11.00	
Volume Flow (dscfm)	221,963	220,208	
HRSG Stack Data			
Stack Height (ft)	100	100	
Diameter (ft)	11.0	11.0	
/olume Flow (acfm) from HRSG = [Volume Flo	w (acfm) from CT x (HRSG temp.(°F) + 460°F)] + [CT temp.(oF) + 46	0oF]
Volume Flow (acfm) from CT	590,949	593,257	
CT Temperature (°F)	815	806	
HRSG Temperature (°F)	232	232	
Volume Flow (acfm) from HRSG	320,735	324,276	
Velocity (ft/sec) = Volume flow (acfm) from HR	SG ÷ [((diameter)²+ 4) x 3.14159]	÷ 60 sc/min	
Volume Flow (acfm) from HRSG	320,735	324,276	
Diameter (ft)	11.0	11.0	

Source: Pasco Cogen, Ltd. Air construction permit application, KBN Engineering, 1991; Air Operating Permit, issued 7/20/94.

Notes:

Universal gas constant = 1,545 ft-lb(force)/°R; Atmospheric pressure = 2,116.8 lb(force)/ft² ATTACHMENT PC-E01-L1 PROCESS FLOW DIAGRAM



Attachment PC-F0-3.VSD Pasco Cogeneration, Ltd. Process Flow Diagram Dade City, Florida

Process Flow Legend
Solid / Liquid ————
Gas ————

Emission Unit: Facility

Process Area: Facility

Filename: PC-FD-3.VSD

Latest Revision Date: 4/17/03

ATTACHMENT PC-E01-L2 FUEL ANALYSIS OR SPECIFICATION

FGT		
Last Updated	4/8/03 9:56	
	Total Sulfur	Total Sulfur
	Previous Day Avg	Previous Day Avg
	mqq	Grains/hcf
Station Name	. 04/07/03	04/07/03
Perry 36" Stream #1 (Pasco)	0.195	0.012
Perry 30" Stream #2	0.326	0.020
Perry 24" Stream #3	0.264	0.017
Brooker 24" Stream	5.853	0.366

Florida Gas makes no warranty or representation whatsoever as to the accuracy of the information provided. This information is provided on a best efforts basis and is an estimate. The information is not used for billing purposes.

Florida Gas is not responsible for any reliance on this information by any party.

		Stream History	Pasco				
			\checkmark				
Gas Day	Index	Perry 36" Stream #1 15SA36PSUL.A	Perry 36" Stream #1	Perry 30" Stream #2 15SA30PSUL.A	Perry 30" Stream #2	Perry 24" Stream #3 15SA24PSUL.A	Perry 24" Stream #3
04/06/03	2.2	Avg ppm	Avg Grains/hcf	Avg ppm	Avg Grains/hcf	Avg ppm	Avg Grains/hc
04/05/03	33	0.195	0.012	0.326	0.020	0.264	0.017
04/04/03	32	0.148	0.009	0.269	0.017	0.256	0.016
04/03/03	31	0.087	0.005	0.147	0.009	0.127	0.018
04/03/03	30	1.263	0.079	2.329	0.146	2.295	0.143
04/02/03	29	4.056	0.254	6.917	0.432	6.694	0.418
	28	3.563	0.223	5.568	0.348	5.356	0.335
03/31/03 03/30/03	27	4.035	0.252	4.458	0.279	4.323	0.270
03/29/03	26	3.923	0.245	4.382	0.274	4.442	0.278
03/28/03	25	3.731	0.233	3.650	0.228	3.945	0.247
03/28/03	24	2.781	0.174	3.083	0.193	3.213	0.201
03/27/03	23	2.917	0.182	3.021	0.189	2.874	0.180
03/25/03	22	2.876	0.180	2.945	0.184	2.935	0.183
	21	2.624	0.164	3.412	0.213	3.413	0.213
03/24/03	20	2.974	0.186	3.246	0.203	3.151	0.197
03/23/03	19	2.220	0.139	2.550	0.159	3.151	0.197
03/22/03	18	2.520	0.157	3.066	0.192	3.151	0.197
03/21/03	17	1.907	0.119	2.409	0.151	3.151	0.197
03/20/03	16	2.254	0.141	2.574	0.161	3.151	0.197
03/19/03	15	2.233	0.140	2.592	0.162	3.151	0.197
03/18/03	14	2.190	0.137	2.488	0.156	3.151	
03/17/03	13	1.847	0.115	2.585	0.162	3.151	0.197
03/16/03	12	2.257	0.141	3.196	0.200	3.151	0.197
03/15/03	11	2.485	0.155	3.340	0.209	3.151	0.197
03/14/03	10	2.388	0.149	3.024	0.189	3.151	0.197
03/13/03	9	2.601	0.163	3.490	0.218	3.151	0.197
03/12/03	8	3.081	0.193	3.330	0.208	3.151	0.197 0.197

00/11/01							Page 2 of 2
03/11/03	7	3.709	0.232	4.560	0.285	3.151	2 105
03/10/03	6	4.285	0.268	4.992	0.312		0.197
03/09/03	5	4.296	0.269	4.809	=	3.151	0.197
03/08/03	4	4.609	0.288		0.301	3.151	0.197
03/07/03	3	4.648		5.177	0.324	3.151	0.197
03/06/03	2	4.885	0.290	5.262	0.329	3.151	0.197
03/05/03	2		0.305	5.925	0.370	3.151	0.197
03/03/03	Τ.	4.820	0.301	5.719	0.357	3.151	0.197

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ATTACHMENT PC-E01-L4
DESCRIPTION OF STACK SAMPLING FACILITIES

ATTACHMENT PC-EU1-L4 DESCRIPTION OF STACK SAMPLING FACILITIES

Pasco Cogen is required by Permit AC51-196460 to perform annual stack testing for emissions from the combustion turbine in accordance with standard EPA reference methods. Pursuant to FAC 62-297.310(7), the annual stack test required is performed with the required stack sampling facilities. As specified by rule, the permanent test facilities meet the following:

- The exhaust stack is circular with a diameter of 11 feet.
- The sampling ports have a minimum effective diameter of 3 inches.
- The location of the sampling ports meet FAC 62-297.310(6) requirements (i.e., 2 stack diameters downstream and 0.5 stack diameters upstream of flow disturbances).
- There are four sampling ports, 90 degrees apart have been installed on the circular stack.
- The working platform is at least 24 square feet in area, at least 3 feet wide, extends 180 degrees around the stack, has safety rails, toeboards, and a hinged floor opening attached to it. There are no obstructions 14 inches below the port and 6 inches on either side of the port.
- The platform access ladder is equipped with a safety apparatus.

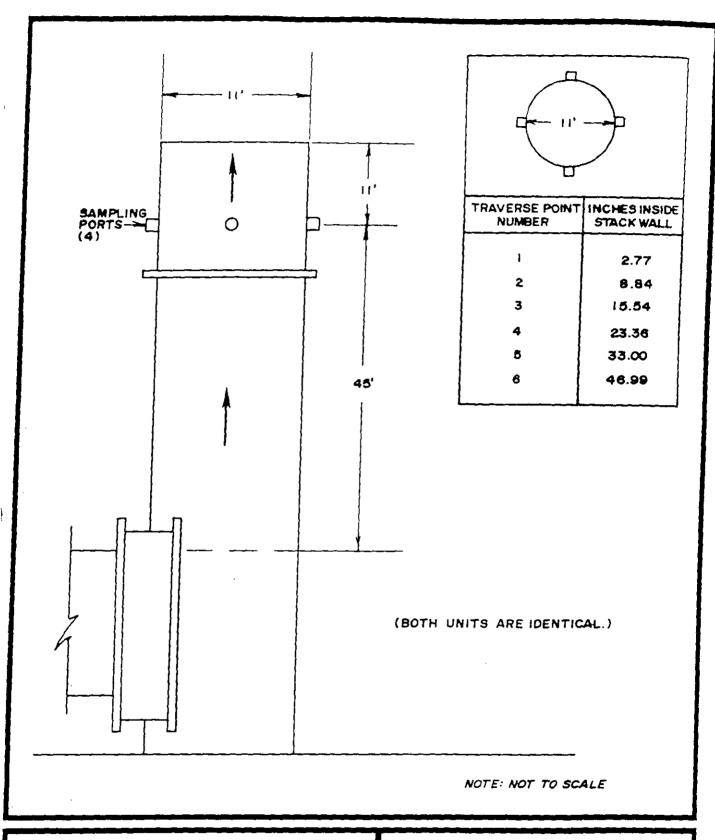


FIGURE 1.
SAMPLING POINT LOCATION
UNITS 1 & 2
PASCO COGEN LIMITED
DADE CITY, FLORIDA

AIR CONSULTING and ENGINEERING ATTACHMENT PC-E01-L6
PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT PC-E01-L6

PROCEDURES FOR STARTUP/SHUTDOWN

Startup for the combustion turbines begins with "lighting off" of the machines on natural gas or distillate oil. A period of from two to several hours is required to allow metal temperatures in the heat recovery steam generator (HRSG) and in the steam turbine to equilibrate without undue metal stress, before putting the unit "on the line" and sending electrical power to the grid.

The combustion turbines (CTs) utilize water injection for NO_x control during startup and shutdown. Emissions are continuously monitored by Continuous Monitor in System (CMS) for water to fuel ratio. If excess emissions are encountered during startup or shutdown, the nature and cause of any malfunction is identified, along with the corrective actions taken or preventative measures adopted. Corrective actions may include switching the unit from automatic (remote) to local control, or changing fuel combination(s). Best Operating Practices are adhered to and all efforts to minimize both the level and duration of excess emissions are undertaken.

Shutdown is performed by reducing the unit load (electrical production) to a minimum level, opening the breaker (which disconnects the unit from the system electrical grid), shutting off the fuel and coasting down to stop. The CT is then put "on turning gear" to prevent possible disfiguration of the turbine components.

ATTACHMENT PC-E01-10 ALTERNATIVE MEDTHODS OF OPERATION

ATTACHMENT PC-E01-L10

ALTERNATE METHODS OF OPERATION GAS TURBINE UNITS 1 AND 2

The combustion turbine units are permitted to burn either natural gas or No. 2 fuel oil with a sulfur content not to exceed 0.1 percent (by weight). The units may operate continuously (i.e., 8,760 hours per year) on natural gas, or utilizing No. 2 fuel oil for no more than 701,050 gal/yr for each unit. The units may operate at various load conditions. Routine maintenance includes injection of a turbine wash chemical to clean the inlet turbine (compressor). These chemicals consist of detergents and surfactants.

ATTACHMENT PC-E01-E14

DESIGN INFORMATION AND STACK PARAMETERS FOR PASCO COGEN COMBUSTION UNITS 1 AND 2 – REFLECTING DATA SUBMITTED 05/20/96 VS. DATA CHANGES DUE TO THE INDIVIDUAL LM-6000 UNIT UPRATINGS

Table PC-E01-E14: Design Information and Stack Parameters for Units 1 and 2 (per unit)

Data General Information:	No. 2 Fuel Oil (05/20/96)	bined Fuel Firing Natural Gas (05/20/96)	Natural Gas (04/17/03 uprate request)
 Power (MW) Heat Input (MMBtu/hr.) Annual Capacity Factor (%) Hours of Operation Volume Flow (acfm) = [(Mass flow (lb/hr)	38.9	39.5	50.2
	424	423	427.2
	100	100	100
	240 (max.)	8760 (max.)	8760 (max.)
 Mass Flow (lb/hr) Temperature (°F) Molecular Weight Volume Flow (acfm) Volume Flow (dscfm) = [(Mass flow (lb/hr)	1,081,322	1,079,779	1,083,240
	815	806	825
	28.38	28.03	28.13
	590,949	593,257	603,915
 Mass Flow (lb/hr) Temperature (°F) Molecular Weight Moisture (% vol.) Volume Flow (acfm) 	1,081,322 68 28.38 9.3 221,963	1,079,779 68 28.03 11.0 220,208	1,083,240 68 28.13 10.4 245,565

<u>Data</u>	No. 2 Fuel Oil (05/20/96)	Natural Gas (05/20/96)	Natural Gas (04/17/03 uprate request)
HRSG Stack Data:			
• Stack Height (ft)	100	100	100
• Diameter (ft)	11.0	11.0	11.0
 Volume Flow (acfm) from HRSG = [Vol.] Volume Flow (acfm) from CT CT Temperature (°F) 	Flow (acfm) from CT x (HRS 590,949 815	G temp. (°F) + 460°F)] / CT te 593,257 806	emp (°F) + 460°F] 603,915 825
 HRSG Temperature (°F) 	232	232	232
• Volume Flow from the HRSG (acfm)	320,735	324,276	325,221
Velocity (ft/sec) = Volume Flow (acfm) from	om HRSG / [((diameter of stac	(k) ² / 4) x 3.14159] / 60 sec/mi	i <u>n</u>
 Volume Flow (acfm) from HRSG Stack Diameter (ft) Velocity (ft/sec) 	320,735 11.0 56.2	324,276 11.0 56.9	325,221 11.0 57.0

ATTACHMENT PC-E02-B6 EMISSIONS UNIT COMMENT

TRIVIAL ACTIVITIES

The trivial activities identified in this application are provided for information only and are identified as examples of, but not limited to, the trivial activities identified by the Division of Air Resources Management's (DARM's) guidance. It is understood that such activities do not have to be included in with the Title V Application. The trivial activities identified herein are consistent, in terms of amounts of emissions and types, with those activities listed in DARM's guidance.

NOTIFICATION OF TEMPORARY EXEMPTIONS

Pursuant to Rule 62-210.300(3)(b)1., notice is herein provide that the emissions units listed below are not subject to a permit issued by the Department of Environmental Protection and are exempt from permitting until a final determination is made under the Title V permitting requirements (Rule 62-213 F.A.C.). These units would not have triggered review under Rules 62-212.400 or 62-212.500 or any new source performance standard listed in Rule 62-204.800 F.A.C.

Attachment PC-E02-B6

AREA CT Lube Oil Storage Tank 2 Vent/VOC Trivi ST Lube Oil Tank Vent ST Lube Oil Filter Vent 1 Vent/VOC Trivi Electric Generator Mineral Oil Vent 2 Vent/VOC Trivi Turbine Cleaning Operation 2 Stack/VOC Unregu Water Wash Tanks 3 Fug. Trivi Turbine Cooling Air 2 Vent Turbine Cooling Air 7 Various Pumps Multiple Fug. Trivi Miscellaneous Drains Tank 6 Vent Trivis Hydraulic Equipment 4 Fug. Trivis Hydraulic Equipment 4 Fug. Trivis Various Steam Vents & Various Pressure Relief Valves Nitrogen Lines 3 Fug. Trivia Pressure Relief Valves Nitrogen Lines 3 Fug. Trivia Blowdown Quench Tank 3 Vent Trivia Warious Pumps (feedwater, Multiple Fug. Trivial Various Pumps (feedwater, Multiple Fug. Trivial CEM Equipment & Calibration Gas Venting Fuel Oil Storage Tank 170,000 gal capacity Demin-Filter Holding Tank 1 Fug. Trivial 376,012 gal capacity Demin-Filter Holding Tank 1 Fug. Unregulate Chlorine Cylinders 150 tb each Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity Sultruc Acid (H2SO4) Tank 6,016 gal capacity	Area	Emission Unit Description	Number of Units	Type/ Pollutant	Applicable Regulations
CT Lube Oil Storage Tank 2 VentVOC Triv ST Lube Oil Tank Vent 1 VentVOC Triv ST Lube Oil Filter Vent 1 VentVOC Trivi Electric Generator Mineral Oil Vent 2 VentVOC Trivi Electric Generator Mineral Oil Vent 2 VentVOC Trivi Turbine Cleaning Operation 2 Stack/VOC Unregu Water Wash Tanks 3 Fug. Trivi Turbine Cooling Air 2 Vent Trivi Various Pumps Multiple Fug. Trivi Miscellaneous Drains Tank 6 Vent Trivi Hydraulic Equipment 4 Fug. Trivia Various Steam Vents & Various Vents Trivia Various Steam Vents & Various Vents Trivia Nitrogen Lines 3 Fug. Trivia HRSG AREA Blowdown Quench Tank 3 Vent Trivial Various Pumps (feetwater, Multiple Fug. Trivial Various Pumps (feetwater, Multiple Fug. Trivial Various Pumps (feetwater, Multiple Fug. Trivial Various Pumps (feetwater, Multiple Fug. Trivial Various Pumps (feetwater, Multiple Fug. Trivial Various Pumps (feetwater, Multiple Fug. Trivial Roller Various Pumps (feetwater, Multiple Fug. Trivial Various Pumps (feetwater, Multiple Fug. Trivial Roller Various Pumps (feetwater, Multiple Fug. Trivial CEM Equipment & Calibration 2 Systems Fug. Trivial Roller Water Storage Tank 1 VentVOC Regulated/NS VATER TREATMENT (BOILER WASTEWATER) Raw Water/Fire Water Storage Tank 1 Fug. Unregulate Chlorine Cylinders 6 Valve HAP Unregulate Chlorine Cylinders 6 Valve HAP Unregulate Chlorine Cylinders 6 Valve HAP Unregulate Chlorine Cylinders 6 Valve HAP Unregulate Roller Feedwater Chemical Multiple Fug. Unregulate Roller Feedwater Chemical Multiple Fug. Trivial 8,610 gal capacity Boiler Feedwater Chemical Multiple Fug. Unregulate Roller Feedwater Chemical Multiple Fug. Unregulate Roller Feedwater Chemical Multiple Fug. Trivial 8,610 gal capacity Brine Tank 1 Fug. Trivial		CT Lube Oil Vents	2	Vent/VOC	Trivial
ST Lube Oil Filter Vent 1 Vent/VOC Trivid Electric Generator Mineral Oil Vent 2 Vent/VOC Trivid Electric Generator Mineral Oil Vent 2 Vent/VOC Trivid Electric Generator Mineral Oil Vent 2 Vent/VOC Unregu Water Wash Tanks 3 Fug. Trivial Edulation 2 Vent Trivial Oil Various Pumps Multiple Fug. Trivial Oil Various Pumps Multiple Fug. Trivial Oil Various Pumps Multiple Fug. Trivial Oil Various Pumps Multiple Fug. Trivial Oil Various Pumps Multiple Fug. Trivial Oil Various Pumps Multiple Fug. Trivial Oil Various Pumps Oil Vent Trivial Oil Various Steam Vents & Various Vent Trivial Oil Various Steam Vents & Various Vents Trivial Oil Various Pumps Oil Various Oil Vent Trivial Oil Various Pumps Oil Vent Oil Oil Oil Oil Oil Oil Oil Oil Oil Oil		CT Lube Oil Storage Tank	2	Vent/VOC	Trivial
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Water Wash Tanks 3 Fug. Trivia Turbine Cooling Air 2 Vent Trivia Various Pumps Multiple Fug. Trivia Miscellaneous Drains Tank 6 Vent Trivia Hydraulic Equipment 4 Fug. Trivia Hydraulic Equipment 4 Fug. Trivia Hydraulic Equipment 4 Fug. Trivia HRSG Natural Gas Relief Valves 14 Vent Trivia Various Steam Vents & Various Vents Trivia Various Steam Vents & Various Vents Trivia RRSG AREA Blowdown Quench Tank 3 Vent Trivial Blowdown Flash Tank 1 Vent Trivial Various Pumps (feedwater, Multiple Fug. Trivial Gas Venting CEM Equipment & Calibration 2 Systems Fug. Trivial Gas Venting Fuel Oil Storage Tank 1 VentVOC Regulated/NS 170,000 gal capacity Demin-Filter Holding Tank 1 Fug. Unregulat Chlorine Cylinders 6 Valve HAP Unregulat Chlorine Cylinders 6 Valve HAP Unregulat G.16 gal capacity Boiler Feedwater Chemical Multiple Fug. Unregulat Treatment Tanks 1 Fug. Unregulat G.610 gal capacity Brine Tank 1 Fug. Trivial		Electric Generator Mineral Oil Vent	2	Vent/VOC	Trivial
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6,016 gal capacity Boiler Feedwater Chemical Multiple Fug. Unregulate Treatment Tanks Sodium Hydroxide (NaOH) Tank 1 Fug. Trivial 6,610 gal capacity Brine Tank 1 Fug. Trivial			6	Valve HAP	Unregulated
Treatment Tanks Sodium Hydroxide (NaOH) Tank 6,610 gal capacity Brine Tank 1 Fug. Trivial			1	Fug.	Unregulated
6,610 gal capacity Brine Tank 1 Fug. Trivial			Multiple	Fug.	Unregulated
ag. Thylat			1	Fug.	Trivial
			1	Fug	Trivial

Attachment PC-E02-B6

Chilled Water Storage Tank 25,000 gal capacity RO Surge Tank 1 Fug. 25,000 gal capacity Weak Waste Tank 1 Fug. 151.222 gal capacity Condensate Return Tank 25,000 gal capacity Demin Water Storage Tank 1 Fug. 162,000 gal capacity Demin Water Storage Tank 1 Fug. 162,000 gal capacity Decarbonator/Degasifier Removes CO2 from raw water 1 Fug. 22,000 gal capacity Neutralization Tank 1 Fug. 1	Applicable Regulations
25.000 gal capacity RO Surge Tank	Unregulated
10,857 gal capacity Weak Waste Tank 151,222 gal capacity Condensate Return Tank 25,000 gal capacity Demin Water Storage Tank 102,000 gal capacity Decarbonator/Degasifier Removes CO2 from raw water Equalization Tank 22,000 gal capacity Neutralization Basin and Pumps Wastewater Cooling Tower Fitter Press 1 Fug. Various Pumps Multiple Fug. Crystallizer 1 Fug. Soda Ash Handling 1 Fug/PM COOLING TOWER Fresh Water Cooling Tower 1 Fug. Soda Ash Handling 1 Fug/PM COOLING TOWER Fresh Water Cooling Tower 1 Fug. Soda Ash Handling 1 Fug/PM COOLING TOWER Fresh Water Cooling Tower 1 Vents Un Nalco 7342 (NaBr) Tank 492 lb capacity Cooling Water Pumps Multiple Fug. Steam Condensing Unit 1 Fug. Brine Cooling Tower 1 Fug. PM Unr Chiller Condensate Tank 1 Vent 1 Vent 1 Vent 1 Fug. Chiller Condensate Tank 1 Vent 1 Vent 1 Vent 1 Fug. Chiller Condensate Tank 1 Vent 1 Vent 1 Vent 1 Vent 1 Fug. Chiller Condensate Tank 1 Vent 1 Vent 1 Tug. Chiller Condensate Tank 1 Vent 1 T	Trivial
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Removes CO2 from raw water Equalization Tank 22,000 gal capacity 1	Trivial
22,000 gal capacity Neutralization Basin and Pumps 1	Trivial
Pumps	Trivial
Filter Press 1 Fug. Various Pumps Multiple Fug. Crystallizer 1 Fug. Soda Ash Handling 1 Fug/PM OOLING TOWER Fresh Water Cooling Tower 1 Vents Un Nalco 7342 (NaBr) Tank 1 Fug. 492 lb capacity Cooling Water Pumps Multiple Fug. Steam Condensing Unit 1 Fug. Brine Cooling Tower 1 Fug. Unr Chiller Condensate Tank 1 Vent 1 Various pumps Multiple Fug. T	Trivial
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Crystallizer	Trivial
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Various pumps Mułtiple Fug. Ţ	regulated
NERAL SITE Surface Coating < 6.0 gal/day NA Fug. Exem	Trivial
Exem	Trivial
Sewer Vents Multiple Vent/Fug T	pt by Rule
	rivial
Brazing, Soldering or Welding NA Fug. Trivial/Exe	empt by Rule
Plant Grounds Maintenance NA Fug. T	rivial

Attachment PC-E02-B6

Area	Emission Unit Description	Number of Units	Type/ Pollutant	Applicable Regulations
	Routine Maintenance	NA	Fug.	Trivial
	Non-halogenated Solvent	NA	Fug.	Unregulated
	Emergency Generators 1,275 kW Diesel	2	Stack	Unregulated
	Diesel Fuel Storage Tanks (300-400 gal capacity)	2	Vent∕VOC	Unregulated
	Diesel Fire Pump 216 hp; 1,750 rpm	1	Stack	Trivial/Exempt by Rule
	Diesel Fire Pump Water Storage Tank	1	Vent/VOC	Trivial
	Diesel Powered Portable Welder/ Air Compressor	1	Vent/VO¢	Trivial
	Salt Cake Storage	NA	Fug/PM	Trivial
OFFICE SHOP AREA	Office Equipment Operation	NA	Fug.	Trivial
	Routine Repairs	NA	Fug.	Trivial
	Indoor Fugitives (grinder, drill press, etc.)	NA	Fug.	Trivial
	Degreaser Non-Halogenated Solvent	1	Fug.	Trivial
	Laboratory	1	Fug.	Trivial/Exempt by Rule
	Storage Area	NA	Fug.	Trivial
	Propane Forklift	1	Vent	Trivial
	Air Compressor	1	Vent	Trivial
	Battery Room	1	Fug.	Trivial
	CO2 Fire System (Control Room)	1 System	Fugitive	Trivial/Exempt by Rule
	Bead Blaster	1	Vent	Trivial
WITCHYARD/ UBSTATION AREA	Transformers and Associated Equipment	Multiple	Fug./VOC	Trivial
	Breakers-SF6	2	Fug	Trivial
ARKING LOT	Vehicles	Multiple	Exhausts	Trivial/Exempt by Rule

Note: CT = Combustion Turbine; HRSG = Heat Recovery Steam Generator; ST = Steam Turbine Trivial reflects EPA determination as stated in the White Paper (EPA, 1995). Exempt by Rule refers to Rule 62-210.300(3)(a)