

AIR PERMIT APPLICATION AND PREVENTION OF SIGNIFICANT DETERIORATION ANALYSIS FOR THE SOUTH POND ENERGY PARK, LLC, HARDEE COUNTY, FLORIDA

#### Prepared For:

South Pond Energy Park, LLC 111 Market Place, Suite 200 Baltimore, Maryland 21202

#### Prepared By:

Golder Associates Inc. 6241 NW 23rd Street, Suite 500 Gainesville, Florida 32653-1500

> November 2000 9939503Y/F2

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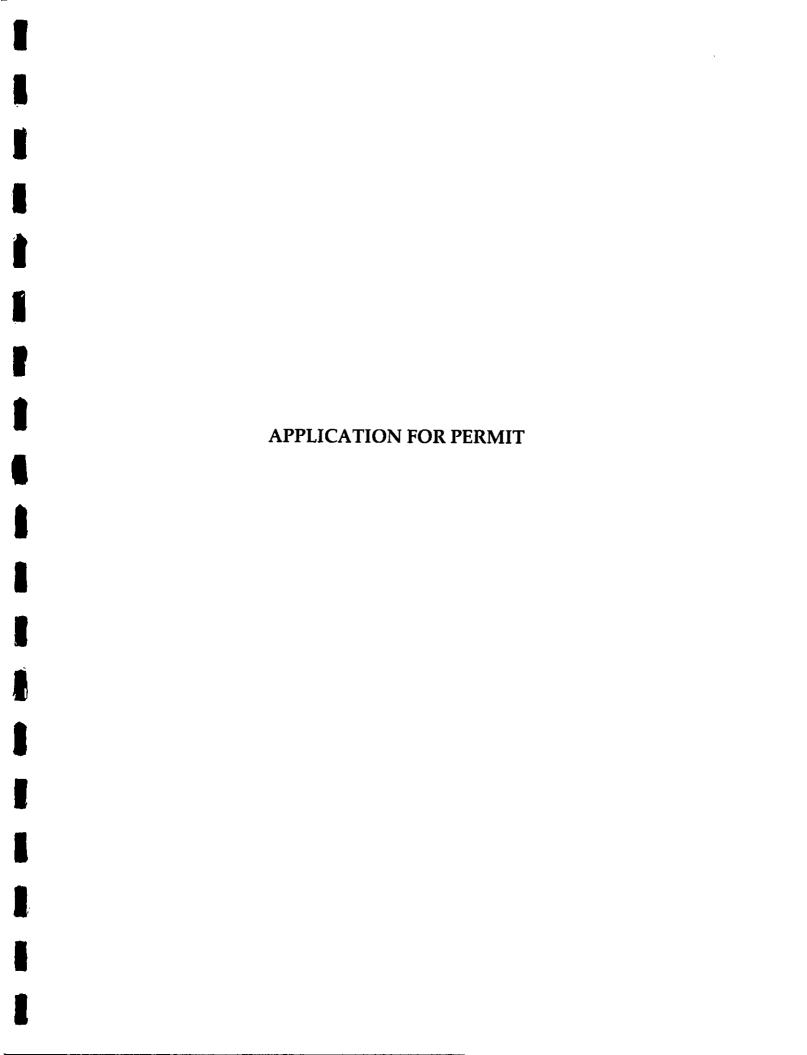
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# **Department of Environmental Protection**

# **Division of Air Resources Management**

### **APPLICATION FOR AIR PERMIT - TITLE V SOURCE**

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

# I. APPLICATION INFORMATION

10	entification of Facility				
1.	Facility Owner/Company Name: South Pond Energy Park, LLC				
2.	Site Name:		- :		
	South Pond Energy Park				
3.	Facility Identification Number:	]	X ] Unknown		
4.	Facility Location:				
	Street Address or Other Locator: 2 miles So	outh of Ft. Green o	n Ft. Green Road		
	City: <b>Ft. Green</b> County:	Hardee	Zip Code:		
5.	Relocatable Facility?	6. Existing Per	•		
	[ ] Yes [ <b>X</b> ] No	[ ] Yes	[X] No		
A	oplication Contact				
1.	Name and Title of Application Contact: Steve Mange				
2.	. Application Contact Mailing Address:				
	Organization/Firm: South Pond Energy Park, LLC				
	Street Address: 111 Market Place, Sui	te 200			
	City: Baltimore S	tate: MD	Zip Code: <b>21202</b>		
3.	Application Contact Telephone Numbers:				
	Telephone: (410) 230 - 4754	Fax: (410)	230 - 4849		
Aı	Application Processing Information (DEP Use)				
1.	Date of Receipt of Application:	11-17-00			
2.	Permit Number:	0490046-	001-AC		
3.	2. Permit Number:  0490046-001-AC  3. PSD Number (if applicable):  PSD-FL=304				
4.	Siting Number (if applicable):				

#### **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.

[ ] 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:
---

Richard L. Wolfinger, Vice-President

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

Organization/Firm: South Pond Energy Park, LLC Street Address: 111 Market Place, Suite 200

> City: **Baltimore** State: MD

Zip Code: **21202** 

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

Telephone: (410) 230 - 4614

Fax: (410) 230 - 4847

4. Owner/Authorized Representative or Responsible Official Statement:

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

Signature

November 7, 2000

#### **Professional Engineer Certification**

1. Professional Engineer Name: Kennard F. Kosky

Registration Number: 14996

2. Professional Engineer Mailing Address:

Organization/Firm: Golder Associates Inc.

Street Address: 6241 NW 23rd Street, Suite 500

State: FL City: Gainesville

Zip Code: **32653-1500** 

3. Professional Engineer Telephone Numbers:

Telephone: (352) 336 - 5600 Fax: (352) 336 - 6603

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

9939503Y/F2/TV 11/7/00

<sup>\*</sup> 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.

<u>260mad 7./4mby</u> <u>11/15/00</u>

Signature Date

<sup>\*</sup> Attach any exception to certification statement.

# **Scope of Application**

Emissions		Permit	Processing
Unit ID	Description of Emissions Unit	Туре	Fee
	GE Frame 7FA Combustion Turbine (simple cycle)	AC1A	
	and the companion raising (simple cycle)	7017	
	GE Frame 7FA Combustion Turbine (simple cycle)	AC1A	
	GE Frame 7FA Combustion Turbine (combined cycle)	AC1A	
	Auxiliary Boiler	AC1A	
-	Unregulated Emissions	AC1A	
			1
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
			<u></u>

# **Application Processing Fee**

Check one: [X] Attached - Amount: \$: 7,500 [	] Not Applicable
---	------------------

# **Construction/Modification Information**

1.	Description of Proposed Project or Alterations:
	Construction of three (3) 174-MW 'F' Class combustion turbines. CT-1 and CT-2 to operate in simple cycle mode, CT-3 to operate in either combined cycle or simple cycle operation. See Attachment PSD-CSP.
2.	Projected or Actual Date of Commencement of Construction: June 2002
3.	Projected Date of Completion of Construction: June 2004

# **Application Comment**

See Attachment PSD-CSP

#### II. FACILITY INFORMATION

#### A. GENERAL FACILITY INFORMATION

# Facility Location and Type

1.	Facility UTM Co	ordinates:		
	Zone: <b>17</b>	East (kr	n): <b>407.6</b>	North (km): <b>3048.2</b>
2.	Facility Latitude/I Latitude (DD/MM	Longitude: 1/SS): <b>27</b> / <b>33</b> / <b>22</b>	Longitud	e (DD/MM/SS): 81 / 56 / 08
3.	Governmental Facility Code:	4. Facility Status Code:	5. Facility M Group SI	
	0	A	49	4911
7	Facility Comment	Climit to 500 characters	-/-	

racility Comment (limit to 500 characters):

Project consists of three 174-MW dual-fuel, General Electric Frame 7FA combustion turbines (CT). Two units will operate in simple cycle mode for 3,390 hours per year and the other unit will operate in combined cycle mode for 8,760 hours per year or simple cycle mode for 3,390 hours per year. Both simple and combined cycle units will use dry low-nitrogen oxide combustion technology when firing natural gas, and the simple cycle units will use water injection when firing distillate fuel oil. The combined cycle unit will be equipped with SCR.

#### **Facility Contact**

1.	Name and Title of Facility Contact: Steve Mange						
2.	2. Facility Contact Mailing Address: Organization/Firm: South Pond Energy Park, LLC						
			111 Market Place, Suite 200				
	City:	Baltimore	State:	MD	Zip Code: <b>21202</b>		
3.	Facility Contact Tele Telephone: (410)		S:		Fax: ( 410 ) 230 - 4849		

7

# **Facility Regulatory Classifications**

# Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown						
2. [X] Major Source of Pollutants Other than	(-1-1-5).						
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?							
4. [ ] Major Source of Hazardous Air Pollu	Major Source of Hazardous Air Pollutants (HAPs)?						
5. [ ] Synthetic Minor Source of HAPs?							
6. [X] One or More Emissions Units Subject	t to NSPS?						
7. [ ] One or More Emission Units Subject	to NESHAP?						
8. [ ] Title V Source by EPA Designation?							
9. Facility Regulatory Classifications Comme	nt (limit to 200 characters):						
CT is subject to NSPS Subpart GG. The dist NSPS Subpart K <sub>b</sub> . The Auxiliary Boiler is su							
List of Applicable Regulations	T						

# **B. FACILITY POLLUTANTS**

# **List of Pollutants Emitted**

2. Pollutant	3. Requested E	imissions Cap	4. Basis for	5. Pollutant
Classif.	11-/1		1	Comment
	10/nour	tons/year	Cap	Particulate Matter-
Α				Total
В				Volatile Organic Compounds
Α		<u>.</u>		Sulfur Dioxide
Α				Nitrogen Oxides
Α				Carbon Monoxides
A				Particulate Matter- PM <sub>10</sub>
	<u>.</u>			
				***
	Classif.  A  B  A  A	Classif.  Ib/hour  A  B  A  A	Classif.    Ib/hour   tons/year	Classif.  Ib/hour tons/year Cap  A  B  A  A

# C. FACILITY SUPPLEMENTAL INFORMATION

# **Supplemental Requirements**

1.	Area Map Showing Facility Location:
	[X] Attached, Document ID: PSD-CSP [ ] Not Applicable [ ] Waiver Requested
2.	Facility Plot Plan:
	[X] Attached, Document ID: PSD-CSP [ ] Not Applicable [ ] Waiver Requested
3.	Process Flow Diagram(s):
	[X] Attached, Document ID: PSD-CSP [ ] Not Applicable [ ] Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:
	[ ] Attached, Document ID: [X] Not Applicable [ ] Waiver Requested
5.	Fugitive Emissions Identification:
	[ ] Attached, Document ID: [X] Not Applicable [ ] Waiver Requested
6.	Present and the Combination I of the Present of the
	[X] Attached, Document ID: PSD-CSP [ ] Not Applicable
7.	
/.	Supplemental Requirements Comment:
/.	Supplemental Requirements Comment:
/.	Supplemental Requirements Comment:
<i>/</i> ·	Supplemental Requirements Comment:
<i>,</i> .	Supplemental Requirements Comment:
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<i>/</i> .	Supplemental Requirements Comment:
<i>1.</i>	Supplemental Requirements Comment:
<i>.</i>	Supplemental Requirements Comment:
<i>1.</i>	Supplemental Requirements Comment:
<i></i>	Supplemental Requirements Comment:

# Additional Supplemental Requirements for Title V Air Operation Permit Applications

List of Proposed Insignificant Activities:     [ ] Attached, Document ID: [ ] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[ ] Attached, Document ID:
[ ] Equipment/Activities On site but Not Required to be Individually Listed
[ ] Not Applicable
10. Alternative Methods of Operation:
[ ] Attached, Document ID: [ ] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[ ] Attached, Document ID: [ ] Not Applicable
12. Identification of Additional Applicable Requirements:
[ ] Attached, Document ID: [ ] 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:)
[ ] Not Applicable
14. Compliance Report and Plan:
[ ] Attached, Document ID: [ ] Not Applicable
15. Compliance Certification (Hard-copy Required):
[ ] Attached, Document ID: [ ] 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)

<u>E1</u>	Emissions Unit Description and Status						
1.	. Type of Emissions Unit Addressed in This Section: (Check one)						
[)	This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).						
]	process or proc		on addresses, as a single emises which has at least one defigitive emissions.				
ſ	process or prod	luction units and activitie	on addresses, as a single emises which produce fugitive en	ssions unit, one or more nissions only.			
2.	Regulated or Uni	egulated Emissions Unit	t? (Check one)				
[ <b>x</b>	X ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.						
[	] The emissions emissions unit.	unit addressed in this En	nissions Unit Information Sec	ction is an unregulated			
3.	Description of Er GE Frame 7FA Co	missions Unit Addressed embustion Turbine	in This Section (limit to 60	characters):			
4.	Emissions Unit lo	dentification Number:		[ ] No ID [ X ] ID Unknown			
5.	Emissions Unit Status Code: C	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?			
9.	Emissions Unit C	Comment: (Limit to 500 C	Characters)	, <u> </u>			
	This emission unit is a GE Frame 7FA combustion turbine operating in simple cycle mode. See Attachment PSD-CSP.						

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Effective: 2/11/99 12

Emissions	Unit	Information	Section	1	οf	5
	CHIL	TILLAR TINGLETAL	Dection	-	VI	_

**Combustion Turbine 1** 

<b>Emissions</b>	Unit	Control	Equi	oment
ZIIIIDOI VIIO	O 2127	COMMON OF	2941	

1.	Control Equipment/Method	Description (Lir	nit to 200 chara	icters per device	or method):

Dry Low NO<sub>x</sub> combustion - Natural gas firing

2. Control Device or Method Code(s): 25

# **Emissions Unit Details**

1. Package Unit:

Manufacturer: General Electric Model Number: 7FA

2. Generator Nameplate Rating: 174 MW

3. Incinerator Information:

٥F Dwell Temperature:

> Dwell Time: seconds

Incinerator Afterburner Temperature: ٥F

<b>Emissions</b>	Unit	<b>Control</b>	<b>Equipment</b>

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

Water injection - distillate oil firing

2. Control Device or Method Code(s): 28

# **Emissions Unit Details**

1.	Package Unit: Manufacturer: General Electric		Model Number:	7FA
2.	Generator Nameplate Rating:	174	MW	
3.	Incinerator Information:			
	Dwell Temperature:			°F
	Dwell Time:			seconds
	Incinerator Afterburner Temperature:			°F

<b>Emissions</b>	Unit	Informat	tion	Section	1	οf	5
THI 110010110	CILL	AIIIVI IIIA		occuon	•	UI	_

**Combustion Turbine 1** 

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

# **Emissions Unit Operating Capacity and Schedule**

Maximum Heat Input Rate:		1,614	mmBtu/hr
Maximum Incineration Rate:	lb/hr	"	tons/day
Maximum Process or Through	put Rate:		
Maximum Production Rate:			
Requested Maximum Operating	g Schedule:		
	hours/day		days/week
	weeks/year	3,390	hours/year
Operating Capacity/Schedule C	Comment (limit to 200 chara	acters):	
oil firing is 1,790 MMBtw/hr (ISO	-LHV) and 183 MW.		<b>,</b>
	Maximum Incineration Rate:  Maximum Process or Through Maximum Production Rate:  Requested Maximum Operatin  Operating Capacity/Schedule C	Maximum Incineration Rate: lb/hr  Maximum Process or Throughput Rate:  Maximum Production Rate:  Requested Maximum Operating Schedule: hours/day weeks/year  Operating Capacity/Schedule Comment (limit to 200 character)	Maximum Incineration Rate: Ib/hr  Maximum Process or Throughput Rate:  Maximum Production Rate:  Requested Maximum Operating Schedule:  hours/day  weeks/year 3,390  Operating Capacity/Schedule Comment (limit to 200 characters):  Maximum heat input at ISO conditions and natural gas firing (LHV @ 1)

# C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

# **List of Applicable Regulations**

See Attachment CSP-EU1-C for operational requirements	
See Attachment PSD-CSP for permitting requirements	

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

# **Emission Point Description and Type**

Flow Diagram? See Att. PSD-CSP 1  3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit 100 characters per point):  Exhausts through a single stack.  4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:  5. Discharge Type Code:  V 6. Stack Height:  7. Exit Diameter:  21 fe  8. Exit Temperature:  9. Actual Volumetric Flow  10. Water Vapor:	1. Identification of Point on Pl	ot Plan or	2. Emission Po	oint Type Code:	<u></u>
100 characters per point):  Exhausts through a single stack.  4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:  5. Discharge Type Code:  V  6. Stack Height: 100 feet  7. Exit Diameter: 21 fe  8. Exit Temperature: 1,117 °F Rate: 2,406,300 acfm  11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17 East (km): 407.6 North (km): 3048.2  14. Emission Point Comment (limit to 200 characters): Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and			1 .	J.F.	
5. Discharge Type Code:  V  6. Stack Height:  100 feet  7. Exit Diameter:  21 fe  8. Exit Temperature:  1,117 °F  Rate:  2,406,300 acfm  11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17  East (km): 407.6  North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	100 characters per point):		this Emissions I	Unit for VE Tracki	ng (limit to
5. Discharge Type Code:  V  6. Stack Height:  100 feet  7. Exit Diameter:  21 fe  8. Exit Temperature:  1,117 °F  Rate:  2,406,300 acfm  11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17  East (km): 407.6  North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	4 ID Numbers or Descriptions	of Emission III	-ita with this Emi	io- Doint in Com	
8. Exit Temperature: 1,117 °F Rate: 2,406,300 acfm  11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17 East (km): 407.6  North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	T. ID Humbers of Descriptions	OI EHHSSION OF	1818 With this Earn	SSION POINT III COII	imon:
8. Exit Temperature: 1,117 °F Rate: 21 fe  9. Actual Volumetric Flow Rate: 2,406,300 acfm  11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17 East (km): 407.6 North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	β ) F - 0 0 m c /	6. Stack Heigh	ht:	7. Exit Diameter	
11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17  East (km): 407.6  North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	V		100 feet		21 feet
11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17  East (km): 407.6  North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	8. Exit Temperature:	9. Actual Volu	umetric Flow	10. Water Vapor:	
11. Maximum Dry Standard Flow Rate: dscfm  12. Nonstack Emission Point Height: feet  13. Emission Point UTM Coordinates: Zone: 17  East (km): 407.6  North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	<del>-</del>			and the approximation	8.65 %
dscfm  13. Emission Point UTM Coordinates:  Zone: 17 East (km): 407.6 North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	11.14				
Zone: 17 East (km): 407.6 North (km): 3048.2  14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	11. Maximum Dry Standard Flo	í	12. Nonstack Er	nission Point Heigl	
14. Emission Point Comment (limit to 200 characters):  Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	13. Emission Point UTM Coord	inates:			
Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and	Zone: 17 Ea	ast (km): 407.6	North	ı (km): <b>3048.2</b>	
Stack parameters for ISO operating condition firing natural gas above; for oil 1,098°F and 2,468,100 ACFM	14. Emission Point Comment (li	imit to 200 chara	acters):	<del></del>	-
	Stack parameters for ISO ope			s above; for oil 1,09	8°F and

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

<u>Se</u>	gment Description and Ra	ate: Segment	of <b>2</b>		
1.	Segment Description (Pro	cess/Fuel Type)	(limit to 500 ch	aract	ters):
	Distillate (No. 2) Fuel Oil				
	, , ,				
2.	Source Classification Cod 20100101	e (SCC):	3. SCC Units	-	
4.	Maximum Hourly Rate:	5. Maximum 9,778	1,000 gallo Annual Rate:	T :	Estimated Annual Activity Factor:
7.	Maximum % Sulfur: 0.05	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:
10.	. Segment Comment (limit t	to 200 characters	):	<u> </u>	
	gment Description and Ra Segment Description (Proc Natural Gas	operation.  ite: Segment	2 of <u>2</u>	<u>-</u>	lb/gal; LHV of 18,560 Btu/lb,
2.	Source Classification Code 20100201	e (SCC):	3. SCC Units		eet
4.	Maximum Hourly Rate: 1.75	5. Maximum A 5,933	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum 9	% Ash:		Million Btu per SCC Unit: 920
10.	Segment Comment (limit t  Based on 920 Btu/cf (LHV);			opera	ation.

# F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1.	Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
		Device Code	Device Code	Regulatory Code
	PM		Na	EL
				· · · · · · · · · · · · · · · · · · ·
	SO <sub>2</sub>			EL
	<del></del> ···			
	NO <sub>x</sub>	025	028	EL
				<u></u> !
	CO	]		EL
$\vdash$				
	voc			EL
├				<u>EL</u>
	DM			
<u> </u>	PM <sub>10</sub>	·	<u> </u>	EL
<u> </u>				
			<u> </u>	
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		<u> </u>	1	

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Emissions Unit Information Section	1	of	5	Combustion Turbine 1
Pollutant Detail Information Page	1	of	6	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 Percen	it Efficie	ncy of Control:
	PM				
3.	Potential Emissions:				4. Synthetically
	<b>20</b> lb/hour	20.6	tons/y	ear	Limited? [X]
5.	Range of Estimated Fugitive Emissions:				
	[ ] 1 [ ] 2 [ ] 3		to	ton	s/year
6.	Emission Factor:				7. Emissions
	Reference: GE, 1999; Golder		•		Method Code: 2
8.	Calculation of Emissions (limit to 600 chara	cters	):		
	• • • • • • • • • • • • • • • • • • • •				
	See Attachment PSD-CSP; Section 2.0; Appe	ndix A	<b>4.</b>		
9.	Pollutant Potential/Fugitive Emissions Com	ment	(limit to 200	) characte	ers).
			(mint to bot	, on an act	010).
	Lb/hr based on oil firing, all loads. Tons/yr ba	sed (	on 2,670 hrs/	yr gas fir	ing and 720 hrs/yr oil
	firing; ISO conditions.				
Al	lowable Emissions Allowable Emissions	1	of <u>2</u>		
1.	Basis for Allowable Emissions Code:	2.	Future Effec	tive Dat	e of Allowable
<u> </u>	OTHER		Emissions:		
3.	Requested Allowable Emissions and Units:	4.	Equivalent A	Allowabl	e Emissions:
	20 lb/hr		<b>20</b> lb/	hour	7.2 tons/year
5.	Method of Compliance (limit to 60 character	rs):			
	Annual starts and EDA Mathada E and E W.				
	Annual stack test; EPA Methods 5 or 17; if > 4	100 h	ours		
6.	Allowable Emissions Comment (Desc. of O	oerati	ng Method)	(limit to	200 characters):
	Oli Siving all lands 700 bushin Cas Abachung		on oon. o	- <b>.</b> ' 0 0-	A altra A
	Oil firing - all loads; 720 hrs/yr. See Attachm	ent P	30-634; 3 <del>8</del> 6	:uon 2.0;	Appendix A.

Emissions Unit Information Section	_ 1	of _	5	Combustion Turbine 1
Pollutant Detail Information Page	1	of	6	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:  PM  2. Total Percent Efficiency of Control:  PM  3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3   to	ntial Emissions:  20   lb/hour   20.6   tons/year   Limited? [X]  e of Estimated Fugitive Emissions:  1	PM  3. Potential Emissions:  20   lb/hour   20.6   tons/year   4. Synthetically Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	PM  3. Potential Emissions:  20   lb/hour   20.6   tons/year   4. Synthetically Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] ] [ ] 2 [ ] 3   to	PM  3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [ X ]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3   to   tons/year    6. Emission Factor:  Reference: GE, 1999; Golder   7. Emissions   Method Code: 2  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions	PM  3. Potential Emissions: 20   lb/hour   20.6   tons/year   4. Synthetically   5. Range of Estimated Fugitive Emissions: [	PM  3. Potential Emissions: 20   lb/hour   20.6   tons/year   4. Synthetically   Limited? [X]  5. Range of Estimated Fugitive Emissions: [						
3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [X    5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	e of Estimated Fugitive Emissions:    1	3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3   to	3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [X]  5. Range of Estimated Fugitive Emissions:  [] ] ] [] 2 [] 3	3. Potential Emissions:  20   lb/hour   20.6   tons/year   4. Synthetically Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [X]  5. Range of Estimated Fugitive Emissions:  []] 1 []] 2 []] 3   to   tons/year    6. Emission Factor:  Reference: GE, 1999; Golder   7. Emissions   Method Code: 2  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions	3. Potential Emissions:  20   lb/hour   20.6   tons/year   Limited? [ X ]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3   to	1.	Pollutant Emitted:	2.	Total Percent Effic	iency	of Control:
20 lb/hour 20.6 tons/year Limited? [X 5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	e of Estimated Fugitive Emissions:    1	20 lb/hour 20.6 tons/year Limited? [X]  5. Range of Estimated Fugitive Emissions:  [] 1 [] 2 [] 3	20 lb/hour 20.6 tons/year Limited? [X]  5. Range of Estimated Fugitive Emissions:  [] 1 [] 2 [] 3 to	20 lb/hour 20.6 tons/year Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3 to	20 lb/hour 20.6 tons/year Limited? [X]  5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	20   Ib/hour   20.6   tons/year   Limited? [ X ]  5. Range of Estimated Fugitive Emissions:  [		РМ				
5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	e of Estimated Fugitive Emissions:    1	5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3 to	5. Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3	3.	Potential Emissions:			4.	Synthetically
[ ] 1 [ ] 2 [ ] 3totons/year  6. Emission Factor:  Reference: GE, 1999; Golder  7. Emissions Method Code: 2  8. Calculation of Emissions (limit to 600 characters):	1	[ ] 1 [ ] 2 [ ] 3 to tons/year  6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2	[ ] 1 [ ] 2 [ ] 3 totons/year  6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions of	6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions Q of 2  1. Basis for Allowable Emissions Code: OTHER  2. Future Effective Date of Allowable Emissions:	[ ] 1 [ ] 2 [ ] 3	[ ] 1 [ ] 2 [ ] 3		20 lb/hour	20.	6 tons/year		Limited? [X]
6. Emission Factor: Reference: GE, 1999; Golder  7. Emissions Method Code: 2  8. Calculation of Emissions (limit to 600 characters):	sion Factor:  Reference: GE, 1999; Golder  Ilation of Emissions (limit to 600 characters):  Attachment PSD-CSP; Section 2.0; Appendix A.  tant Potential/Fugitive Emissions Comment (limit to 200 characters):  based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil	6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2	6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions Code:  2. Future Effective Date of Allowable	6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code: OTHER  2. Future Effective Date of Allowable Emissions:	6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions Code: OTHER  2. Future Effective Date of Allowable Emissions: Emissions: 3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:	6. Emission Factor: Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters): See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code: OTHER 2. Future Effective Date of Allowable Emissions: 10 lb/hr 10 lb/hour 17 tons/year	5.					
Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters):  Method Code: 2	Reference: GE, 1999; Golder  Ilation of Emissions (limit to 600 characters):  Attachment PSD-CSP; Section 2.0; Appendix A.  tant Potential/Fugitive Emissions Comment (limit to 200 characters):  based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil	Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2	Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code:  2. Future Effective Date of Allowable	Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code:  OTHER  Method Code:  2  Future Effective Date of Allowable Emissions:	Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oll firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code:  OTHER  2. Future Effective Date of Allowable Emissions:  3. Requested Allowable Emissions and Units:  4. Equivalent Allowable Emissions:	Reference: GE, 1999; Golder  8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code: OTHER  3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions: 10 lb/hr  10 lb/hr 17 tons/year	_			to t		
8. Calculation of Emissions (limit to 600 characters):	Attachment PSD-CSP; Section 2.0; Appendix A.  tant Potential/Fugitive Emissions Comment (limit to 200 characters):  based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil	8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2	8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code:  2. Future Effective Date of Allowable	8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code:  OTHER  2  2  5  Future Effective Date of Allowable Emissions:	8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code: OTHER 2  2 Of 2  2. Future Effective Date of Allowable Emissions: 3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:	8. Calculation of Emissions (limit to 600 characters):  See Attachment PSD-CSP; Section 2.0; Appendix A.  9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  Lb/hr based on oil firing, all loads. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions.  Allowable Emissions Allowable Emissions 2 of 2  1. Basis for Allowable Emissions Code: OTHER  2. Future Effective Date of Allowable Emissions:  3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:  10 lb/hr  10 lb/hour  17 tons/year	0.				/-	
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			3. Requested Allowable Emissions and Units:   4. Equivalent Allowable Emissions:		10 lb/hr 10 lb/hour 17 tons/year	10 John Jelli	3.	Requested Allowable Emissions and Units:	4.		able I	Emissions:
Basis for Allowable Emissions Code:     Puture Effective Date of Allowable	for Allowable Emissions Code:  2. Future Effective Date of Allowable	Dimbiolis.	3 Requested Allowable Emissions and Units: 4 Equivalent Allowable Emissions:			10 lb/hr 10 lb/hour 17 tons/year	3	<u> </u>	1		able F	Emissions:
		Dimbions.	3 Requested Allowable Emissions and Units: 4 Equivalent Allowable Emissions:			10 lb/hr 10 lb/hour 17 tons/year	3	<u> </u>	4		able F	Emissions:
		Dimbions.	3 Requested Allowable Emissions and Units: 4 Equivalent Allowable Emissions:			10 lb/hr 10 lb/hour 17 tons/year	3.	<u> </u>	4		able F	Emissions:
1. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowable	for Allowable Emissions Code:  2. Future Effective Date of Allowable	Dimbions.	A B	3. Requested Allowable Emissions and Units: 14. Equivalent Allowable Emissions:		10 lb/hr 10 lb/hour 17 tons/year	<u> </u>	<u> </u>				
1 Basis for Allowable Emissions Code: 2 Future Effective Date of Allowable	for Allowable Emissions Code: 2 Future Effective Date of Allowable	OTHER Emissions:		3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:		10 lb/hr 10 lb/hour 17 tons/year	1		<b> </b> ~.		vate v	or amowable
1 Designation Allowable Emissions Code: 2 February Effective Date of Allowable	for Allowable Emissions Code: 2 Entere Effective Date of Allowable	OTHER Emissions			3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:	Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:     10 lb/hr 17 tons/year	1.		2.		vate (	of Allowable
1 P : 6 411 11 P : : 0 1		OTHER Emissions:	Lillissions.	Dimbions.	3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:	3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:  10 lb/hr 17 tons/year	1.		$ ^2$ .		ate o	of Allowable
1 Period for Allowohle Emissions Code: 2 Future Effective Date of Allowohle	for Allowable Emissions Code: 2 Enture Effective Date of Allowable	OTHER Emissions:	2111155701151		3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:	Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:     10 lb/hr 17 tons/year	1.		2.		vale (	oi Allowable
1. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowable	for Allowable Emissions Code:  2. Future Effective Date of Allowable	Dimbions.		3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:		10 lb/hr 10 lb/hour 17 tons/year	<u> </u>	<u> </u>				
		Dimbions.	2. Described Allerental Emissions and Huiter. A. Facilitate & Allerental Facilities.	3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:		10 lb/hr 10 lb/hour 17 tons/year	<u>_</u>	<u> </u>	-		. t. 1 . T	311
		Dimbions.	3 Requested Allowable Emissions and Units: 4 Equivalent Allowable Emissions:	i or itographica into wadio Linissidiis ana Cints. 1 7. Lagi valciit into wadio Linissidiis.		10 lb/hr 10 lb/hour 17 tons/year	3	<u> </u>	1		able F	Emissions:
		Dimbiolis.	3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions:		10 lb/hr 10 lb/hour 17 tons/year	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3.	<u> </u>	4.		able I	Emissions:
OTHER  Emissions:  3. Requested Allowable Emissions and Units:  10 lb/hr  Emissions:  4. Equivalent Allowable Emissions:  10 lb/hour  17 tons/year	Emissions: ested Allowable Emissions and Units: 4. Equivalent Allowable Emissions: 10 lb/hour 17 tons/year	10 lb/hr 10 lb/hour 17 tons/year	10 10 10 10 10 10 10 10 10 10 10 10 10 1		2. 2.2.2.2.2.2.3. Compilative (Milit to 50 characters).			VE Test < 20% opacity				
OTHER  Emissions:  3. Requested Allowable Emissions and Units:  10 lb/hr  10 lb/hour  17 tons/year  5. Method of Compliance (limit to 60 characters):	Emissions:  ested Allowable Emissions and Units:  4. Equivalent Allowable Emissions:  10 lb/hour  17 tons/year  od of Compliance (limit to 60 characters):	10 lb/hr 10 lb/hour 17 tons/year  5. Method of Compliance (limit to 60 characters):	5. Method of Compliance (limit to 60 characters):	5. Method of Compliance (limit to 60 characters):		VE Test < 20% opacity	6.	Allowable Emissions Comment (Desc. of Op	perat	ing Method) (limit	to 20	0 characters):
OTHER  Bemissions:  3. Requested Allowable Emissions and Units:  10 lb/hr  10 lb/hr  10 lb/hour  17 tons/year  5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity	Emissions:  ested Allowable Emissions and Units:  4. Equivalent Allowable Emissions:  10 lb/hour  17 tons/year  od of Compliance (limit to 60 characters):  est < 20% opacity	10 lb/hr 10 lb/hour 17 tons/year  5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity	5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity	5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity	VE Test < 20% opacity			Gas firing - all loads; 3,390 hrs/yr. See Attach	men	t PSD-CSP; Section	2.0;	Appendix A.
OTHER  3. Requested Allowable Emissions and Units: 10 lb/hr  4. Equivalent Allowable Emissions: 10 lb/hour 17 tons/year  5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity  6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	Emissions:  ested Allowable Emissions and Units:  4. Equivalent Allowable Emissions:  10 lb/hour  17 tons/year  od of Compliance (limit to 60 characters):  est < 20% opacity  vable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	10 lb/hr 10 lb/hour 17 tons/year  5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity  6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	<ul> <li>5. Method of Compliance (limit to 60 characters):</li> <li>VE Test &lt; 20% opacity</li> <li>6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):</li> </ul>	<ul> <li>5. Method of Compliance (limit to 60 characters):</li> <li>VE Test &lt; 20% opacity</li> <li>6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):</li> </ul>	VE Test < 20% opacity  6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	İ					
OTHER  3. Requested Allowable Emissions and Units: 10 lb/hr  4. Equivalent Allowable Emissions: 10 lb/hour 17 tons/year  5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity  6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	Emissions:  ested Allowable Emissions and Units:  4. Equivalent Allowable Emissions:  10 lb/hour  17 tons/year  od of Compliance (limit to 60 characters):  est < 20% opacity  vable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	10 lb/hr 10 lb/hour 17 tons/year  5. Method of Compliance (limit to 60 characters):  VE Test < 20% opacity  6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	<ul> <li>5. Method of Compliance (limit to 60 characters):</li> <li>VE Test &lt; 20% opacity</li> <li>6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):</li> </ul>	<ul> <li>5. Method of Compliance (limit to 60 characters):</li> <li>VE Test &lt; 20% opacity</li> <li>6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):</li> </ul>	VE Test < 20% opacity  6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):						

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Emissions Unit Information Section	_1_	of _	5	_
Pollutant Detail Information Page	2	o.F	6	

**Combustion Turbine 1** 

**Sulfur Dioxides** 

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

Emissions-Limited and Preconstruction Review Pollutants Only)

<b>Potential</b>	Fugitive.	<b>Emissions</b>

10	tential/Fugitive Emissions					
1.	Pollutant Emitted:	2.	Tot	al Percent Effic	iency	of Control:
	SO₂					
3.	Potential Emissions:				4.	Synthetically
L_	<b>106.9</b> lb/hour	43.	8	tons/year		Limited? [X]
5.						
<u> </u>				to to	ons/y	· · · · · · · · · · · · · · · · · · ·
6.	Emission Factor:				7.	
	Reference: GE, 1999; Golder					Method Code: 2
8.	Calculation of Emissions (limit to 600 chara	cter	s):			
	See Attachment PSD-CSP; Section 2.0; Appel	- el i-c				
	ose Attachment P30-C3P, Section 2.0; Appel	HOIX	А.			
9.	Pollutant Potential/Fugitive Emissions Com-	men	(lir	nit to 200 charac	cters)	):
	Emission Factor: 1 grain 6 nor 100 CE acc. 0	0E9/	C -	ile lla/las lasses es	11 4	::
	Emission Factor: 1 grain S per 100 CF gas; 0. and 32°F. Tons/yr based on 2,670 hrs/yr gas;	uo% firing	o o g an	ıı; ıb/nr based or d 720 hrs/yr oil f	i ou t iring	Iring at 100% load
			-	•	•	,
—— A II	lowable Emissions Allowable Emissions	1	of			
,		<del>-</del>				
1.	Basis for Allowable Emissions Code: OTHER	2.		ture Effective D nissions:	ate (	of Allowable
3.	Requested Allowable Emissions and Units:	4.		uivalent Allowa	ble F	Emissions:
	0.05% Sulfur Oil		-	106.9 lb/hour	ŗ	<b>37.2</b> tons/year
5.	Method of Compliance (limit to 60 character	.e): T				
	( ( (	۵,۰				
	Vendor Information					
6.	Allowable Emissions Comment (Desc. of Op	erat	ing	Method) (limit t	o 20	0 characters):
	Oil fining man @ 2005, 4000/ 1				_	
ı	Oil firing max @ 32°F; 100% load; TPY @ 59°F 2.0; Appendix A.	720	hrs	vyr. See Attachn	nent	PSD-CSP; Section
	• ••					
						1

<b>Emissions Unit Information Section</b>	1	of _	5	
Pollutant Detail Information Page	2	of	6	

Combustion Turbine 1
Sulfur Dioxides

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

<u>Po</u>	otential/Fugitive Emissions				u1143	omy)
1.	Pollutant Emitted:	2.	]	Total Percent Effici	ency	y of Control:
	SO <sub>2</sub>				,	
3.	Potential Emissions:				4.	Synthetically
	106.9 lb/hour	43.	8	tons/year		Limited? [X]
5.	Range of Estimated Fugitive Emissions:  [ ] 1 [ ] 2 [ ] 3		_	to to	ns/y	ear -
6.	Emission Factor:				<del>~ ~</del>	Emissions
	Reference: GE, 1999; Golder					Method Code:
8.	Calculation of Emissions (limit to 600 chara	cter	s)	:	-	
}	See Attachment BCD CCD. Continue 0.0. August	41				
	See Attachment PSD-CSP; Section 2.0; Appe	naix	( A	<b>L</b>		
ĺ						
9.	Pollutant Potential/Fugitive Emissions Com-	men	t (	limit to 200 charac	ters)	):
	Emission Factor: 1 grain S per 100 CF gas; 0, and 32°F. Tons/yr based on 2,670 hrs/yr gas	.05% firin	s g	5 oil; lb/hr based on and 720 hrs/yr oil fi	oil f ring;	iring at 100% load ; ISO conditions.
All	owable Emissions Allowable Emissions	2	0	of <u>2</u>		,
1.	Basis for Allowable Emissions Code: OTHER	2.		Future Effective Da Emissions:	ite c	of Allowable
3.	Requested Allowable Emissions and Units:	4.	I	Equivalent Allowal	ole E	Emissions:
	See Comment			5.2 lb/hour		8.5 tons/year
5.	Method of Compliance (limit to 60 character	s):	_			-
	Vendor Information					
6.	Allowable Emissions Comment (Desc. of Op		tin	g Method) (limit to	200	0 characters):
	Requested allowable emissions and units: Pi 32°F, 100% load; 3,390 hrs/yr. See Attachmen	ipelii	ne	Natural Gas. Gas	firing	g, 1 gram/100 cf -

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<b>Emissions Unit Information Section</b>	1	of	_ 5	Combustion Turbine 1
Pollutant Detail Information Page	3	of	6	Nitrogen Oxides

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

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fu	gitive Emiss	<u>sions</u>					
1. Pollutant	Emitted:			2.	Total Percent l	Efficience	cy of Control:
NO <sub>x</sub>							
3. Potential	Emissions:			·	··· <u></u>	4	Synthetically
	352.1	lb/hour	_	205.	7 tons/yea	ır	Limited? [X]
5. Range of	Estimated Fi	ugitive Emis ] 2 [	sions:		to	tons	lugar
6. Emission	Factor:	] 2			to	tons/	. Emissions
	erence: GE,	1999; Golde	r			'	Method Code:
8. Calculati	on of Emissic	ons (limit to	600 chara	cters	):		<del> =</del>
See Attac	hment PSD-0	'SP: Section	2 O: Appa	ndiv	Α.		
OCC Attac	iiiileiit F3D-C	or, section	z.u, Appe	IIUIX	Α.		
9. Pollutant	D-44'-1/E-			<del></del> .	/I: 000	•	
9. Poliutant	Potential/Fu	gitive Emiss	ions Com	ment	(limit to 200 c	haracter	s):
Lb/hr bas	ed on oil firin	g; 100% load	d; 32°F. To	ons/y	r based on 2,67	70 hrs/yr	gas firing and 720
hrs/yr oil	firing; ISO co	nditions.					
					71		
Allowable E	missions Al	lowable Emi	ssions	1	of <u>2</u>		
Basis for     OTHER	Allowable E	missions Co	de:	2.	Future Effecti Emissions:	ve Date	of Allowable
3. Requeste	d Allowable	Emissions ar	nd Units:	4.	Equivalent Al	lowable	Emissions:
42 ppmvc					<b>352.1</b> lb	/hour	<b>122.5</b> tons/year
5. Method o	f Compliance	e (limit to 60	) character	rs):			
CEM - 24	Hour Block A	\verage					
6. Allowabl	Emissions (	Comment (D	esc. of O	perat	ing Method) (li	imit to 2	00 characters):
Hequeste	d Allowable E °F. 720 hrs/vr	:missions is :. See Attach	at 15% O <sub>2</sub> . ment PSD	-1009 -CSF	6 load.  Oil firin P; Section 2.0; ℓ	g; max ( Appendix	⊋ 32°F; 100% load;
	- , - = = ······· y·				,	Alector	

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Emissions Unit Information Section	1	of	5	Combustion Turbine 1
Pollutant Detail Information Page	3	of	6	Nitrogen Oxides

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

Emissions-Limited and Preconstruction Review Pollutants Only)

# Potential/Fugitive Emissions

	tential agreeve Emissions								
1.	Pollutant Emitted:	2.	Total Percent Efficie	ency of Control:					
	NO <sub>x</sub>								
3.	Potential Emissions:		<del></del>	4. Synthetically					
	<b>352.1</b> lb/hour	205.	7 tons/year	Limited? [X]					
5.	Range of Estimated Fugitive Emissions:			<u> </u>					
<u></u>	[]1 []2 []3		to to	ns/year					
6.	Emission Factor:			7. Emissions					
	Reference: GE, 1999; Golder			Method Code: 2					
8.	Calculation of Emissions (limit to 600 chara	cters	):						
	See Attachment PSD-CSP; Section 2.0; Appe	ndix	<b>A</b> .						
9.	<ol> <li>Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):</li> <li>Lb/hr based on oil firing; 100% load; 32°F. Tons/yr based on 2,670 hrs/yr gas firing and 720 hrs/yr oil firing; ISO conditions</li> </ol>								
All	lowable Emissions Allowable Emissions	2	of <b>2</b>						
1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Da Emissions:	te of Allowable					
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowab	le Emissions:					
	9 ppmvd		<b>64.8</b> lb/hour	105.8 tons/year					
5.	Method of Compliance (limit to 60 character	rs):							
	CEM - 24-Hour Block Average								
6.	Allowable Emissions Comment (Desc. of Open	perat	ng Method) (limit to	200 characters):					
	Requested Allowable Emissions and Units is load; TPY @ 59°F, 3,390 hrs/yr. See Attachme								

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<b>Emissions Unit Information Section</b>	1	of	5	Combustion Turbine 1
Pollutant Detail Information Page	4	of	6	Carbon Monoxide

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

Emissions-Limited and Preconstruction Review Pollutants Only)

# **Potential/Fugitive Emissions**

10	tentian Pugitive Emissions					
1.	Pollutant Emitted:	2.	Total Percent Effi	ciency	of Control:	
	СО					
3.	Potential Emissions:			4.	Syntheticall	<u>у</u>
	<b>72.6</b> lb/hour	66.	tons/year		Limited?	[ <b>X</b> ]
5.						
			to	tons/y		
6.	Emission Factor:			7.	Emissions	J
_	Reference: GE, 1999; Golder				Method Coc	ie:
8.	Calculation of Emissions (limit to 600 charac	cters	):			
	See Attachment PSD-CSP; Section 2.0; Apper	ndiv	Α			
•	Too Audiline It 1 05 001, decitor 2.0, Appel	IUIX	<b>~</b> •			
9.	Pollutant Potential/Fugitive Emissions Comm	ment	(limit to 200 char	acters)	):	
	I b/br boood on all finings 1000/ loods 2005. To		- bd 0 670 b			700
	Lb/hr based on oil firing; 100% load; 32°F. To hrs/yr oil firing; ISO conditions	ons/y	r dased on 2,670 r	ırs/yr g	as firing and	720
—— А II	lowable Emissions Allowable Emissions	1	of <b>2</b>			
		_				
1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Emissions:	Date o	of Allowable	
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allow	vable E	Emissions:	
	20 ppmvd - Baseload		<b>72.6</b> lb/hou	ır	<b>25.0</b> tons/y	ear
5.	Method of Compliance (limit to 60 character	s):				
	FDA Marka daga da					
	EPA Method 10; high load					
6.	Allowable Emissions Comment (Desc. of Op	erat	ing Method) (limi	t to 20	0 characters):	
	Oil firing; max @ 32°F; 100% load; TPY @ 59°	E 70	O brewe See Atte	ıchme-	+ pen_cen-	
	Section 2.0; Appendix A.	ı', <i>12</i>	o mayi. Jee Atta		<i>- 30</i> -03 <b>-</b> ;	

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<b>Emissions Unit Information Section</b>	1	of	5	Combustion Turbine 1
Pollutant Detail Information Page	4	of	6	Carbon Monoxide

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

Emissions-Limited and Preconstruction Review Pollutants Only)

<b>Potentia</b>	l/Fugitive	<b>Emissions</b>

10	tential Fugitive Emissions					
1.	Pollutant Emitted:	2.	Total Percent Efficie	ency	of Control:	
	со					
3.	Potential Emissions:			4.	Synthetical	lly
	<b>72.6</b> lb/hour	66.	2 tons/year		Limited?	[ X ]
5.	Range of Estimated Fugitive Emissions:					
			to to	ns/y		
6.	Emission Factor:			7.	Emissions	
	Reference: GE, 1999; Golder				Method Co	ode:
8.	Calculation of Emissions (limit to 600 chara	cters	):			
	See Attachment PSD-CSP; Section 2.0; Apper	ndix	Δ.			
	, company of the second of the		· · ·			
9.	Pollutant Potential/Fugitive Emissions Comm	ment	(limit to 200 charac	ters)	):	
	Lb/hr based on oil firing; 100% load; 32°F. To	ns/v	r based on 2.670 hrs	/vr a	as firing and	1 720
	hrs/yr oil firing; ISO conditions	, , , , , , , , , , , , , , , , , , ,		,, 5		
All	lowable Emissions Allowable Emissions	2	of <b>2</b>			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Da	ite (	of Allowable	;
<u> </u>	OTHER		Emissions:			
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowal	ole F	Emissions:	
	9 ppmvd		<b>32.3</b> lb/hour		<b>52.4</b> tons/y	ear/
5.	Method of Compliance (limit to 60 character	s):				
	EPA Method 10; high and low load					
6.	Allowable Emissions Comment (Desc. of Op	perat	ing Method) (limit to	20	0 characters	):
	Gas firing; 32°F; 100% load; TPY @ 59°F, 3,39 2.0; Appendix A.	0 hr	s/yr. See Attachment	: PSI	D-CSP; Secti	ion
	and, repetituin re					
Ì						