FINAL

0970071-004-AV

RELIANT ENERGY OSCEOLA, L.L.C.

HOLOPAW, FLORIDA

TITLE V AIR PERMIT APPLICATION

March 2002

ERM Project No. 47889

ERM

TABLE OF CONTENTS

RECEIVED

APR 01 2002

BUREAU OF AIR REGULATION

ERM NC, PC

7300 Carmel Executive Park
Suite 200
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

March 29, 2002

Mr. C. H. Fancy, P. E., Chief
Bureau of Air Regulation
Florida Dept. of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

ERM

Subject: Title V Air Operation Permit Application
Osceola Power Project
Reliant Energy Osceola, L.L.C. (Reliant Energy)
Holopaw, Florida

RE: DEP File No. 0970071-001-AC

Dear Mr. Fancy:

This Title V application has been prepared on behalf of Reliant Energy Osceola, L.L.C. Construction, startup, and initial compliance testing has been completed on two of the three units at the facility. Two units have been demonstrated to be in compliance with the emissions limits contained in the construction permit and the applicable rules. The third unit is identical to the other two and is substantially complete and testing will be completed on this unit as part of a compliance plan. We therefore submit this request for an operating permit.

The application has maintained the emission unit numbering used in the construction permit with one change. Since the distillate fuel oil tank is an insignificant source of criteria pollutants (VOC), we request that it be changed from an emissions unit to an unregulated or exempt unit. The requirements of 40 CFR 60 Subpart Kb require only that tank records be kept and do not represent substantive emissions limiting standards. It has not been included in this application as an emissions unit in support of an exempt status.

The facility is classified as a Title V source due to the potential to emit more than 100 tons per year of one or more criteria pollutants. As part of the construction permit application process, it has already undergone a BACT analysis and a PSD review. It is also subject to applicable provisions of Title IV, Acid Rain, of the Clean Air Act Amendments of 1990 and we understand that the required Title IV information has already been submitted and approved by the FDEP.

As required in the facility air emissions source construction permit, emissions test data from Units Nos. 1 and 2 were submitted to the FDEP on 12/21/2001. A CEM certification report was also submitted for these two units on 1/22/2002.

Unit 3 was not yet complete when testing and CEM validation was performed on the other units. However, the Title V application must be submitted 90 days prior to the expiration of the construction permit. Based upon a telephone conversation with Bruce Mitchell of FDEP, we are submitting a Title V application for all three units even though Unit 3 has not completed testing. A compliance plan is included in the application to address the need to successfully complete stack testing and CEM validation on Unit 3 once unit startup is complete in order that the unit be in compliance with all construction permit conditions.

Please contact me at 704-541-8345 if you have any questions.

Sincerely,

Stephen L. Alexander, P.E.

Department of
Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

1. Facility Owner/Company Name : Reliant Energy Osceola, L.L.C.	ORIS 55192
2. Site Name : Reliant Energy Osceola, L.L.C.	
3. Facility Identification Number : 0970071	[ ] Unknown
4. Facility Location : Reliant Energy Osceola Street Address or Other Locator : 5200 W. Holopaw Rd. City : St. Cloud County : Osceola Zip Code : 34773	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

001 - 170 mw simple cycle combustion Turbine
002 - " " " " "
003 - " " " " "
004 - 2 No. 2 Fuel Oil Storage Tanks (1.5 mm gal/each)

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : Terry E. Gish
Title : Managing Director, SE Operations

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

Organization/Firm : Reliant Energy Osceola, L.L.C.
Street Address : 7800 South Highway US 1
City : Titusville
State : FL Zip Code : 32780

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

Telephone : (321)264-4584 Fax : (321)385-4685

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., 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 units.*

J E Gish
Signature

3-29-02
Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
001	Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine	AO
002	Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine	AO
003	Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine	AO

Purpose of Application and Category

Category I : All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain :

[ ] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

[X] Initial air operation permit under Chapter 62-213, F.A.C., 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 :
0970071-001-AC

[ ] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number :

Operation permit to be revised :

[ ] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application.

Operation permit to be revised/corrected :

[ ] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

Operation permit to be revised :

Reason for revision :

Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

[ ] Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s) :

[ ] Renewal air operation permit under Fule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a synthetic non-Title V source.

Operation permit to be revised :

Reason for revision :

Category III : All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain :

[ ] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any :

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s) :

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

Application Processing Fee

Check one :

[ ] Attached - Amount : $0.00 [X] Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :
2. Projected or Actual Date of Commencement of Construction :
3. Projected Date of Completion of Construction :

Professional Engineer Certification

1. Professional Engineer Name : Stephen L. Alexander Registration Number : 38519
2. Professional Engineer Mailing Address : Organization/Firm : ERMNC Street Address : 7300 Carmel Executive Park City : Charlotte State : NC Zip Code : 28226
3. Professional Engineer Telephone Numbers : Telephone : (704)541-8345 Fax : (704)541-8416

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 pollutant 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 [ ] 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 [X] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions 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
(seal)

3/29/02
Date

STEPHEN L. ALEXANDER CERTIFICATE No. 38519 STATE OF FLORIDA REGISTERED ENGINEER

Application Contact

1. Name and Title of Application Contact :

Name : Timothy E. McKenzie
Title : Senior Environmental Scientist

2. Application Contact Mailing Address :

Organization/Firm : Reliant Energy
Street Address : 1001 Broad St.
City : Johnstown
State : PA Zip Code : 15907-1050

3. Application Contact Telephone Numbers :

Telephone : (814)533-8670 Fax : (814)533-8085

Application Comment

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates :
   Zone : 17 East (km) : 490.43 North (km) : 3111.31

2. Facility Latitude/Longitude :
   Latitude (DD/MM/SS) : 28 7 44 Longitude (DD/MM/SS) : 81 5 50

3. Governmental Facility Code :	4. Facility Status Code :	5. Facility Major Group SIC Code :	6. Facility SIC(s) :
0	A	49	4911

7. Facility Comment :

3 Intermittent duty units, normally fired by natural gas with fuel oil backup

Facility Contact

1. Name and Title of Facility Contact :

Amy Deese
Environmental Engineer

2. Facility Contact Mailing Address :
   Organization/Firm : Reliant Energy Indian River, LLC
   Street Address : 7800 South Highway US 1
   City : Titusville State : FL Zip Code : 32780

3. Facility Contact Telephone Numbers :
   Telephone : (321)264-4589 Fax : (321)385-4685

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	Y
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	N
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment : Facility has already filed Title IV information, had a BACT analysis, and PSD review in construction permitting.	

B. FACILITY REGULATIONS

Rule Applicability Analysis

B. FACILITY REGULATIONS

List of Applicable Regulations

40 CFR 60 Subpart Kb

Title V Core List

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
NOX	A
CO	A
VOC	B
SO2	A
PM	B
PM10	B

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 1

1. Pollutant Emitted : NOX
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 2

1. Pollutant Emitted : CO
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 3

1. Pollutant Emitted :	VOC
2. Requested Emissions Cap :	(lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :	
4. Facility Pollutant Comment :	

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 4

1. Pollutant Emitted :	SO2
2. Requested Emissions Cap :	(lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :	
4. Facility Pollutant Comment :	

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 5

1. Pollutant Emitted :	PM
2. Requested Emissions Cap :	(lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :	
4. Facility Pollutant Comment :	

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 6

1. Pollutant Emitted : PM10
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	Figure1
2. Facility Plot Plan :	Figure 2
3. Process Flow Diagram(s) :	Figure 3
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	NA
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Applic	NA

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt	Attachment 6
8. List of Equipment/Activities Regulated under	Onsite
9. Alternative Methods of Operation :	NA
10. Alternative Modes of Operation (Emissions	NA
11. Identification of Additional Applicable	NA
12. Compliance Assurance Monitoring	NA
13. Risk Management Plan Verification :	NA
14. Compliance Report and Plan :	Attachment 7
15. Compliance Certification (Hard-copy Requir	Attachment 8

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Type of Emissions Unit Addressed in This Section

1. 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.

2. Single Process, Group of Processes, or Fugitive Only? 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.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Type of Emissions Unit Addressed in This Section

1. 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.

2. Single Process, Group of Processes, or Fugitive Only? 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.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Type of Emissions Unit Addressed in This Section

1. 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.

2. Single Process, Group of Processes, or Fugitive Only? 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.

Emissions Unit Information Section 1

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine		
2. Emissions Unit Identification Number : 001 [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [X] Yes [ ] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : GE PG7241 FA combustion turbine firing both natural gas and low sulfur distillate fuel oil.		

Emissions Unit Information Section 2

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine		
2. Emissions Unit Identification Number : 002 [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [X] Yes [ ] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : GE PG7241 FA combustion turbine firing both natural gas and low sulfur distillate fuel oil.		

Emissions Unit Information Section 3

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine		
2. Emissions Unit Identification Number : 003 [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [X] Yes [ ] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : GE PG7241 FA combustion turbine firing both natural gas and low sulfur distillate fuel oil.		

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 1

1. Description : Low NOx Burner Technology (two-stage combustor): For natural gas firing, dry low NOx burner technology is used to control NOx emissions.
2. Control Device or Method Code : 25

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 2

1. Description : Water injection: Used during fuel oil firing to limit NOx emissions by lowering the combustion temperature through the use of water injection.
2. Control Device or Method Code : 28

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 3

1. Description : Use of low sulfur fuel oil (0.05 percent by weight) and the use of natural gas (2 gr S/100 cubic feet) to control emissions of sulfur oxides.
2. Control Device or Method Code : 99

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 1

1. Description : Low NOx Burner Technology (two-stage combustor): For natural gas firing, dry low NOx burner technology is used to control NOx emissions.
2. Control Device or Method Code : 25

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 2

1. Description : Water injection: Used during fuel oil firing to limit NOx emissions by lowering the combustion temperature through the use of water injection.
2. Control Device or Method Code : 28

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 3

1. Description : Use of low sulfur fuel oil (0.05 percent by weight) and the use of natural gas (2 gr S/100 cubic feet) to control emissions of sulfur oxides.
2. Control Device or Method Code : 99

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 1

1. Description : Low NOx Burner Technology (two-stage combustor): For natural gas firing, dry low NOx burner technology is used to control NOx emissions.
2. Control Device or Method Code : 25

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 2

1. Description : Water injection: Used during fuel oil firing to limit NOx emissions by lowering the combustion temperature through the use of water injection.
2. Control Device or Method Code : 28

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Control Equipment 3

1. Description : Use of low sulfur fuel oil (0.05 percent by weight) and the use of natural gas (2 gr S/100 cubic feet) to control emissions of sulfur oxides.
2. Control Device or Method Code : 99

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Details

1. Initial Startup Date :	15-Oct-2001
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Electric	Model Number : PG7241(FA)
4. Generator Nameplate Rating : 170 MW	
5. Incinerator Information : Dwell Temperature : Dwell Time : Incinerator Afterburner Temperature :	 Degrees Fahrenheit Seconds Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	1942	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Natural Gas Firing @ 19F, 60% rel. humidity, 14.7 psi, 100% load = 1709.2 MBTU/hr (LHV) Fuel Oil Firing @ 19F, 60% rel. humidity, 14.7 psi, 100% load = 1,942.4 MBTU/hr (LHV)			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule : 24 hours/day 7 days/week

	52 weeks/year	3,000 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Details

1. Initial Startup Date :	18-Oct-2001
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Electric	Model Number : PG7241(FA)
4. Generator Nameplate Rating : 170 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	1942	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Natural Gas Firing @ 19F, 60% rel. humidity, 14.7 psi, 100% load = 1709.2 MBTU/hr (LHV) Fuel Oil Firing @ 19F, 60% rel. humidity, 14.7 psi, 100% load = 1,942.4 MBTU/hr (LHV)			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

52 weeks/year	3,000 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section - 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Emissions Unit Details

1. Initial Startup Date :	06-Apr-2002
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Electric	Model Number : PG7241(FA)
4. Generator Nameplate Rating : 170 MW	
5. Incinerator Information : Dwell Temperature : Dwell Time : Incinerator Afterburner Temperature :	 Degrees Fahrenheit Seconds Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	1942	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Natural Gas Firing @ 19F, 60% rel. humidity, 14.7 psi, 100% load = 1709.2 MBTU/hr (LHV) Fuel Oil Firing @ 19F, 60% rel. humidity, 14.7 psi, 100% load = 1,942.4 MBTU/hr (LHV) Start 4/6/2002			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :

	24 hours/day	7 days/week
	52 weeks/year	3,000 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Rule Applicability Analysis

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

List of Applicable Regulations

40 CFR 60 Subpart GG Except as Provided in Const. Permit

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

List of Applicable Regulations

40 CFR 60 Subpart GG Except as Provided in Const. Permit

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

List of Applicable Regulations

40 CFR 60 Subpart GG Except as Provided in Const. Permit

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	Emission Point No. 1	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	75	feet
7. Exit Diameter :	18.0	feet
8. Exit Temperature :	999	°F
9. Actual Volumetric Flow Rate :	2400000	acfm
10. Percent Water Vapor :	0.00	%
11. Maximum Dry Standard Flow Rate :	0	dscfm
12. Nonstack Emission Point Height :	0	feet
13. Emission Point UTM Coordinates : Zone : 0	East (km) : 0.000	North (km) : 0.000
14. Emission Point Comment :		

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section . 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	Emission Point No. 2	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	75	feet
7. Exit Diameter :	18.0	feet
8. Exit Temperature :	999	°F
9. Actual Volumetric Flow Rate :	2400000	acfm
10. Percent Water Vapor :	0.00	%
11. Maximum Dry Standard Flow Rate :	0	dscfm
12. Nonstack Emission Point Height :	0	feet
13. Emission Point UTM Coordinates :		
Zone : 0	East (km) : 0.000	North (km) : 0.000
14. Emission Point Comment : Actual exit temperature is typically 1082 deg F, ELSA does not allow 4 digit exit temperatures, however.		

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	Emission Point No. 3	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	75	feet
7. Exit Diameter :	18.0	feet
8. Exit Temperature :	999	°F
9. Actual Volumetric Flow Rate :	2400000	acfm
10. Percent Water Vapor :	0.00	%
11. Maximum Dry Standard Flow Rate :	0	dscfm
12. Nonstack Emission Point Height :	0	feet
13. Emission Point UTM Coordinates : Zone : 0	East (km) : 0.000	North (km) : 0.000
14. Emission Point Comment : Actual exit temperature is typically 1082 deg F, ELSA does not allow 4 digit exit temperatures, however.		

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion Turbine-Natural Gas	
2. Source Classification Code (SCC) : 20100201	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 1.80	5. Maximum Annual Rate : 5,411.84
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 947	
10. Segment Comment : Sulfur content of natural gas limited to 2 gr S/100 cubic feet in Construction Permit 0970071-001-AC, Specific Condition 18	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion Turbine-Distillate Oil	
2. Source Classification Code (SCC) : 20100101	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 15.06	5. Maximum Annual Rate : 11,295.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.05	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 129	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion Turbine-Natural Gas	
2. Source Classification Code (SCC) : 20100201	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 1.80	5. Maximum Annual Rate : 5,411.84
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 947	
10. Segment Comment : Sulfur content of natural gas limited to 2 gr S/100 cubic feet in Construction Permit 0970071-001-AC, Specific Condition 18	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion Turbine-Distillate Oil	
2. Source Classification Code (SCC) : 20100101	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 15.06	5. Maximum Annual Rate : 11,295.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.05	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 129	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion Turbine-Natural Gas	
2. Source Classification Code (SCC) : 20100201	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 1.80	5. Maximum Annual Rate : 5,411.84
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 947	
10. Segment Comment : Sulfur content of natural gas limited to 2 gr S/100 cubic feet in Construction Permit 0970071-001-AC, Specific Condition 18	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion Turbine-Distillate Oil	
2. Source Classification Code (SCC) : 20100101	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 15.06	5. Maximum Annual Rate : 11,295.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.05	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 129	
10. Segment Comment :	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	025	028	EL
2 - CO			EL
3 - VOC			EL
4 - SO2			EL
5 - PM			EL
6 - PM10			EL

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	025	028	EL
2 - CO			EL
3 - VOC			EL
4 - SO2			EL
5 - PM			EL
6 - PM10			EL

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	025	028	EL
2 - CO			EL
3 - VOC			EL
4 - SO2			EL
5 - PM			EL
6 - PM10			EL

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : **NOX**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 323.0000000 lb/hour 90.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference Manufacturer's Data
7. Emissions Method Code : 0
8. Calculations of Emissions : See Attachment 5
9. Pollutant Potential/Estimated Emissions Comment : 323 LBS/HR ON OIL, 60 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : **CO**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 70.0000000 lb/hour 54.3000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference VENDOR
7. Emissions Method Code : 0
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : CO LIMIT IS 36.2 LB/HR ON NATURAL GAS, 70 LB/HR ON FUEL OIL. 3000 HRS PER YEAR MAX ON NATURAL GAS AND 750 HRS PER YEAR ON OIL.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : **VOC**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.0000000 lb/hour 4.5000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference VENDOR
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : 8 LBS/HR ON OIL,3 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : **SO2**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 104.3000000 lb/hour 40.3500000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTCHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : **PM**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 34.0000000 lb/hour 33.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : **PM10**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 34.0000000 lb/hour 33.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : **NOX**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 323.0000000 lb/hour 90.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference Manufacturer's Data
7. Emissions Method Code : 0
8. Calculations of Emissions : See Attachment 5
9. Pollutant Potential/Estimated Emissions Comment : 323 LBS/HR ON OIL, 60 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : **CO**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 70.0000000 lb/hour 54.3000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference VENDOR
7. Emissions Method Code : 0
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : CO LIMIT IS 36.2 LB/HR ON NATURAL GAS, 70 LB/HR ON FUEL OIL. 3000 HRS PER YEAR MAX ON NATURAL GAS AND 750 HRS PER YEAR ON OIL. Specified in Construction permit # 0970071-001-AC; See Attachment 5.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : **VOC**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.0000000 lb/hour 4.5000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference VENDOR
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : 8 LBS/HR ON OIL,3 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : **SO2**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 104.3000000 lb/hour 40.3500000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTCHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : **PM**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 34.0000000 lb/hour 33.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : **PM10**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 34.0000000 lb/hour 33.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Reference Units
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : **NOX**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 323.0000000 lb/hour 90.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference Manufacturer's Data
7. Emissions Method Code : 0
8. Calculations of Emissions : See Attachment 5
9. Pollutant Potential/Estimated Emissions Comment : 323 LBS/HR ON OIL, 60 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : **CO**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 70.0000000 lb/hour 54.3000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference VENDOR
7. Emissions Method Code : 0
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : CO LIMIT IS 36.2 LB/HR ON NATURAL GAS, 70 LB/HR ON FUEL OIL. 3000 HRS PER YEAR MAX ON NATURAL GAS AND 750 HRS PER YEAR ON OIL.Specified in Construction permit # 0970071-001-AC; See Attachment 5.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : **VOC**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.0000000 lb/hour 4.5000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference VENDOR
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : 8 LBS/HR ON OIL,3 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : **SO2**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 104.3000000 lb/hour 40.3500000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Reference Units
7. Emissions Method Code :
8. Calculations of Emissions : SEE ATTCHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : **PM**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 34.0000000 lb/hour 33.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : SEE ATTACHMENT 5
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : **PM10**	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	34.0000000 lb/hour — 33.0000000 tons/year
4. Synthetically Limited? [X] Yes [ ] No	
5. Range of Estimated Fugitive/Other Emissions:	to tons/year
6. Emissions Factor Reference	Units
7. Emissions Method Code :	
8. Calculations of Emissions : SEE ATTACHMENT 5	
9. Pollutant Potential/Estimated Emissions Comment : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3	

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	60.00	lb/hour	90.00	tons/year
5. Method of Compliance : CEM				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3				

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	70.00	lb/hour	66.98	tons/year
5. Method of Compliance : ANNUAL METHOD 10				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3				

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	8.00	lb/hour	4.50	tons/year
5. Method of Compliance : INITIAL STACK TEST				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3				

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	104.30	lb/hour	39.11	tons/year
5. Method of Compliance : FUEL SULFUR/HOURS LIMITS; SEE CONST. PER. COND. #31				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 104.3 LBS/HR ON OIL, 1.1 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC				

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	34.00	lb/hour	33.00	tons/year
5. Method of Compliance : VE; PIPELINE NATURAL GAS				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 34 LBS/HR ON OIL, 18 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC				

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance : VE; PIPELINE NATURAL GAS	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 34 LBS/HR ON OIL, 18 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC	

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	60.00	lb/hour	90.00	tons/year
5. Method of Compliance : CEM				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Specified in Construction permut # 0970071-001-AC				

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	70.00	lb/hour	66.98	tons/year
5. Method of Compliance : ANNUAL METHOD 10				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : RULE 62-212.400, FAC				

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	8.00	lb/hour	4.50	tons/year
5. Method of Compliance : INITIAL STACK TEST				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : RULE 62-212.400.				

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	104.30	lb/hour	39.11	tons/year
5. Method of Compliance : FUEL SULFUR/HOURS LIMITS; SEE CONST. PER. COND. #31				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 104.3 LBS/HR ON OIL, 1.1 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC				

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	34.00	lb/hour	33.00	tons/year
5. Method of Compliance : VE; PIPELINE NATURAL GAS				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 34 LBS/HR ON OIL, 18 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC				

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance : VE; PIPELINE NATURAL GAS
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 34 LBS/HR ON OIL, 18 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	60.00	lb/hour	90.00	tons/year
5. Method of Compliance : CEM				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3				

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	70.00	lb/hour	66.98	tons/year
5. Method of Compliance : ANNUAL METHOD 10				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Specified in Construction permit # 0970071-001-AC; See Attachment 5, Page 5-3				

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	8.00	lb/hour	4.50	tons/year
5. Method of Compliance : INITIAL STACK TEST				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : RULE 62-212.400.				

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	104.30	lb/hour	39.11	tons/year
5. Method of Compliance : FUEL SULFUR/HOURS LIMITS; SEE CONST. PER. COND. #31				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 104.3 LBS/HR ON OIL, 1.1 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC				

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	34.00	lb/hour	33.00	tons/year
5. Method of Compliance : VE; PIPELINE NATURAL GAS				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 34 LBS/HR ON OIL, 18 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC				

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units :
4. Equivalent Allowable Emissions : lb/hour tons/year
5. Method of Compliance : VE; PIPELINE NATURAL GAS
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : 34 LBS/HR ON OIL, 18 LB/HR ON NATURAL GAS AS DESCRIBED IN CONSTRUCTION PERMIT 0970071-001-AC

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	
Normal Conditions :	10 %
Exceptional Conditions :	%
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
ANNUAL EPA Method 9	
5. Visible Emissions Comment :	
VE will also be used as a surrogate measure of PM/PM10 as described in Construction Permit No. 0970071-001-AC	

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	
Normal Conditions :	10 %
Exceptional Conditions :	%
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
Annual EPA Method 9	
5. Visible Emissions Comment :	
VE will also be used as a surrogate measure of PM/PM10 as described in Construction Permit No. 0970071-001-AC	

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	
Normal Conditions :	10 %
Exceptional Conditions :	%
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
Annual EPA Method 9	
5. Visible Emissions Comment :	
VE will also be used as a surrogate measure of PM/PM10 as described in Construction Permit No. 0970071-001-AC	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant(s): NOX
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : TECO Model Number : 42C Serial Number : 42CHL-68197-359	
5. Installation Date :	
6. Performance Specification Test Date : 05-Nov-2001	
7. Continuous Monitor Comment : CONSTRUCTION PERMIT CONDITIONS 30 AND 41.	

Continuous Monitoring System Continuous Monitor 2

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : AMETEK Model Number : CEM/O2 Serial Number : 10203792-1	
5. Installation Date :	
6. Performance Specification Test Date : 05-Nov-2001	
7. Continuous Monitor Comment : CONSTRUCTION PERMIT CONDITIONS 30 AND 41.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant(s): NOX
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : TECO Model Number : 42C Serial Number : 42CHL-68197-362	
5. Installation Date :	
6. Performance Specification Test Date : 07-Nov-2001	
7. Continuous Monitor Comment : CONSTRUCTION PERMIT CONDITIONS 30 AND 41.	

Continuous Monitoring System Continuous Monitor 2

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : AMETEK Model Number : CEM/O2 Serial Number : 10203792-2	
5. Installation Date :	
6. Performance Specification Test Date : 07-Nov-2001	
7. Continuous Monitor Comment : CONSTRUCTION PERMIT CONDITIONS 30 AND 41.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant(s): NOX
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : TECO Model Number : 42C Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date : 30-Apr-2002	
7. Continuous Monitor Comment : SEE COMPLIANCE PLAN FOR DETAILS. PERFORMANCE TEST DATE IS ESTIMATE ONLY.	

Continuous Monitoring System Continuous Monitor 2

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : AMETEK Model Number : CEM/O2 Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date : 30-Apr-2002	
7. Continuous Monitor Comment : SEE COMPLIANCE PLAN FOR DETAILS. PERFORMANCE TEST DATE IS ESTIMATE ONLY.	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

SEE PSD ANALYSIS SUBMITTED WITH CONSTRUCTION PERMIT

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

SEE PSD ANALYSIS SUBMITTED WITH CONSTRUCTION PERMIT

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

SEE PSD ANALYSIS SUBMITTED WITH CONSTRUCTION PERMIT

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

Unit 1 - 170 MW Nominal Simple Cycle Combustion Turbine

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Attachment 3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	12/21/2001
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	NA
13. Compliance Assurance Monitoring Plan :	NA

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

Unit 2 - 170 MW Nominal Simple Cycle Combustion Turbine

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Attachment 3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	12/21/2001
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	NA
13. Compliance Assurance Monitoring Plan :	NA

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3

Unit 3 - 170 MW Nominal Simple Cycle Combustion Turbine

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Attachment 3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	SEE ATT. 7
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

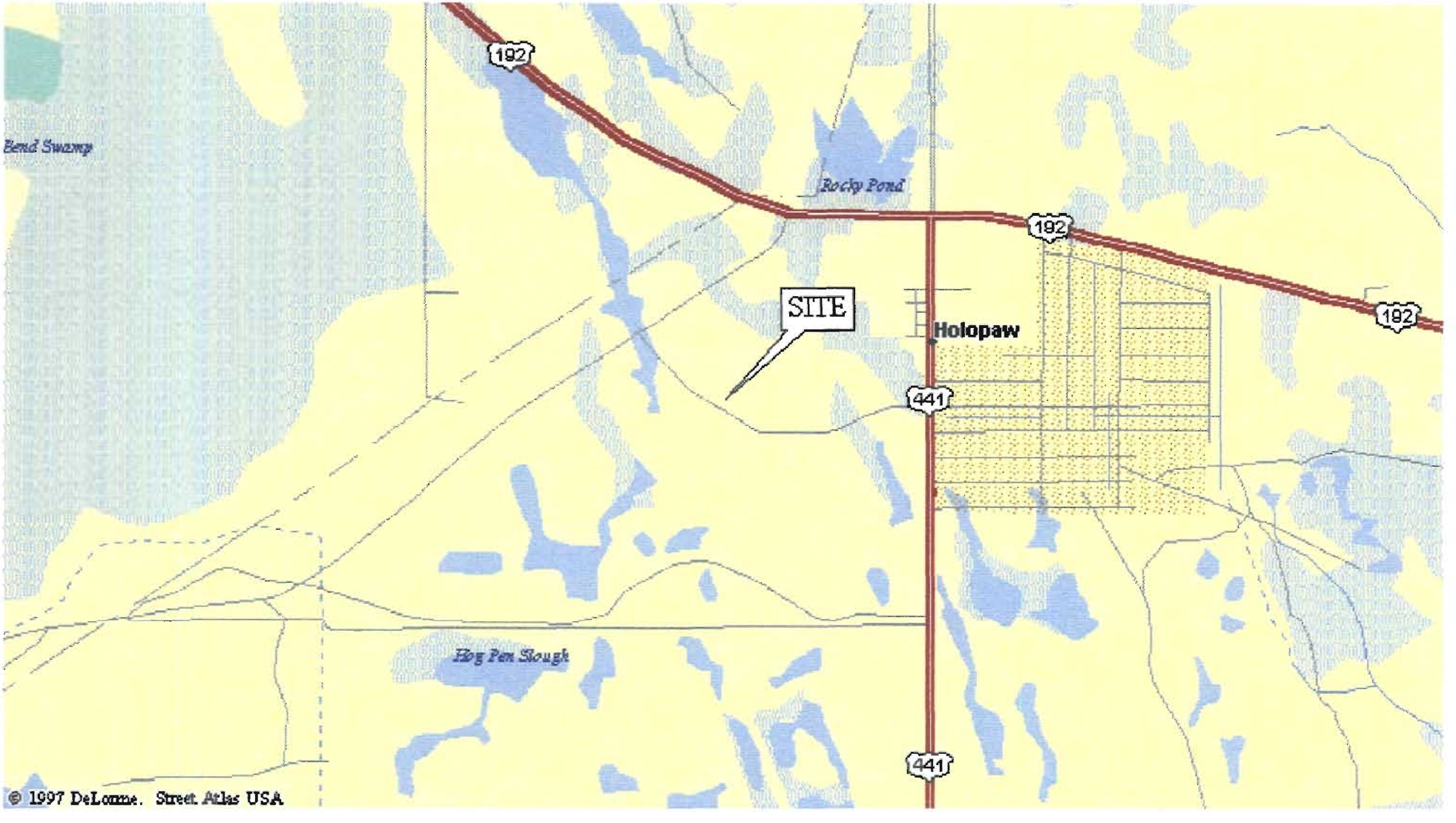
10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	NA
13. Compliance Assurance Monitoring Plan :	NA

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

ATTACHMENT 1. SITE LOCATION



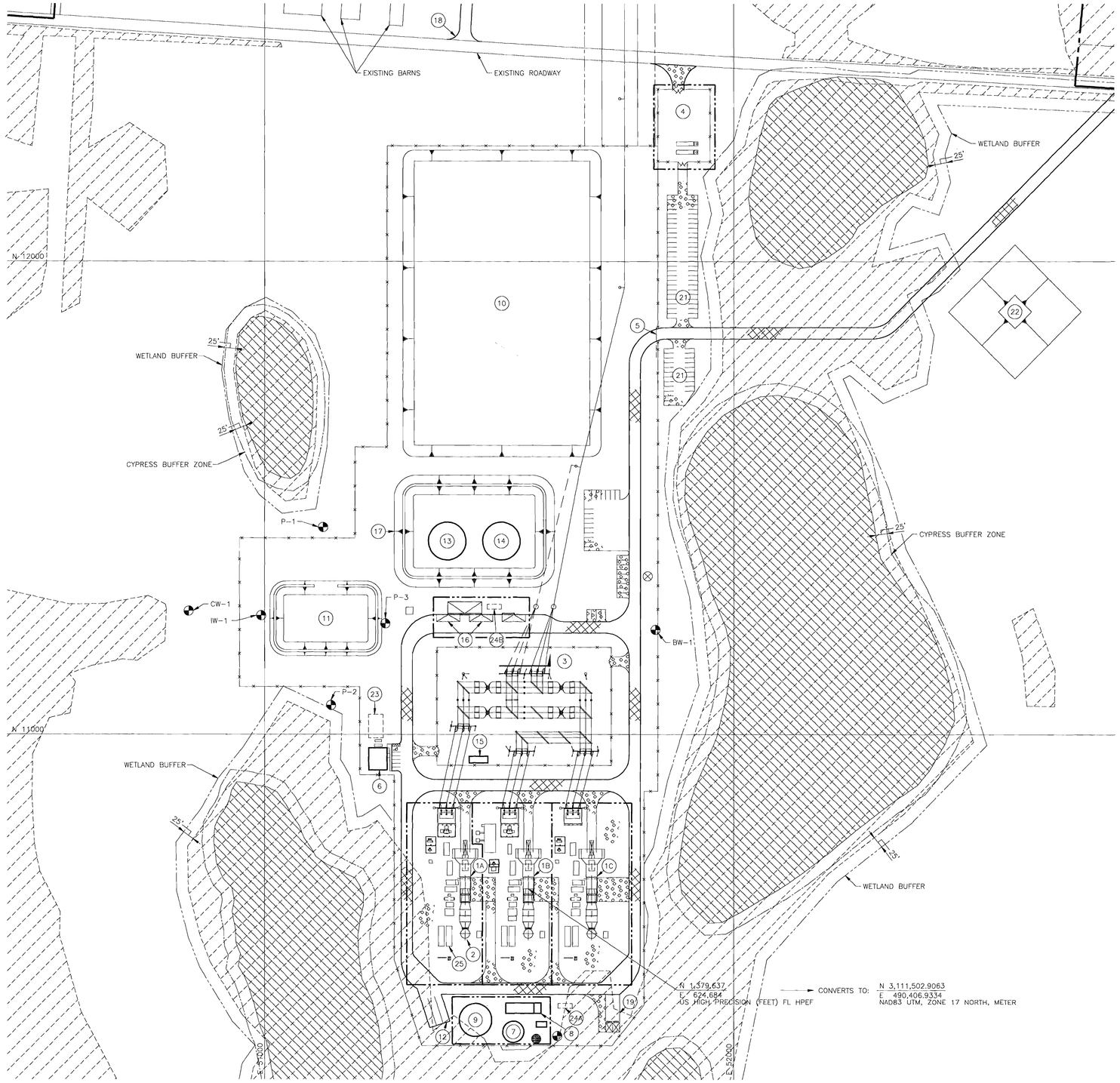
ERM Environmental Resources Management

SITE LOCATION MAP
RELIANT ENERGY
HOLOPAW, FLORIDA

FIGURE
1

2

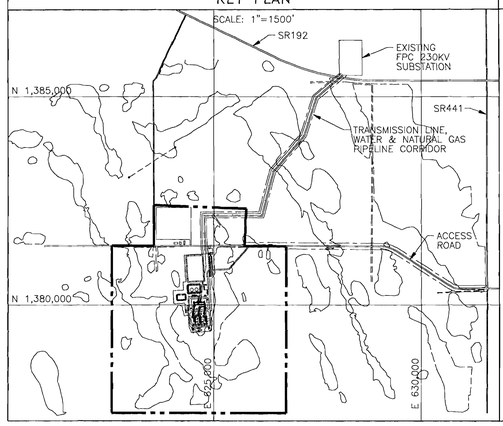
ATTACHMENT 2. FACILITY PLOT PLAN



FACILITY LEGEND

ID	FACILITY
1A	UNIT 1 COMBUSTION TURBINE
1B	UNIT 2 COMBUSTION TURBINE
1C	UNIT 3 COMBUSTION TURBINE
2	UNIT 1, 2, & 3 COMBUSTION TURBINE EXHAUST STACK
3	SUBSTATION
4	FUEL GAS RECEIVING AREA
5	REMOTE OPERATED GATE/SURVEILLANCE CAMERA AND INTERCOM
6	GENERAL SERVICES BUILDING
7	SERVICE/FIRE WATER STORAGE TANK
8	FIRE PUMP / COMPRESSED AIR BUILDING
9	DEMINERALIZED WATER STORAGE TANK
10	STORM WATER DETENTION POND
11	PERCOLATION POND
12	PORTABLE DEMINERALIZER TRAILER AREA
13	FUEL OIL STORAGE TANK 1A
14	FUEL OIL STORAGE TANK 1B
15	EQUIPMENT ENCLOSURE
16	FUEL OIL UNLOADING AREA
17	FUEL OIL SECONDARY CONTAINMENT BERM
18	CONSTRUCTION LAYDOWN ENTRANCE
19	INDUSTRIAL GAS STORAGE AREA
21	CONSTRUCTION PARKING
22	SOIL STOCKPILE
23	SEPTIC TANK AND LATERAL FIELD
24A	OIL/WATER SEPARATOR NO. 1
24B	OIL/WATER SEPARATOR NO. 2
25	UNIT 1, 2, & 3 COOLING WATER MODULE

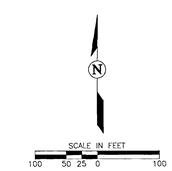
KEY PLAN



LEGEND

- ASPHALT
- AGGREGATE SURFACING
- CONCRETE
- PASTURE WETLAND
- CYPRESS WETLAND AREAS
- PLANT SITE FENCING
- SWING GATE
- SLIDE GATE
- PROPERTY LINE
- BELOW GRADE STRUCTURE
- FUTURE TRANSMISSION LINES
- THREE PHASE 1100 AMP SERVICE FOR CONSTRUCTION POWER – FIELD LOCATE
- SINGLE PHASE 400 AMP SERVICE FOR CONSTRUCTION POWER – FIELD LOCATE
- WELL OR PIEZOMETER

FOR AIR PERMITTING ONLY



NO.	DATE	APPR.	REVISION

NO.	DATE	APPR.	REVISION

JOB NAME/DESCRIPTION

RELIANT ENERGY — HOLOPAW, FLORIDA

DRAWN BY XXXX	LAST REVIEWED MM-DD-YY	PROJECT ENGINEER XXXX	LAST REVIEWED MM-DD-YY
DESIGN ENGINEER XXXX	LAST REVIEWED MM-DD-YY	PROJECT MANAGER XXXX	LAST REVIEWED MM-DD-YY

ERM

NOT FOR CONST-RUCTION

SITE PLAN

SCALE 1"=100'	DATE MARCH 20, 2002	CLIENT APPROVAL
PROJECT NO. 47889ERMINC	AutoCAD R-14 7889SITEPL	ISSUED FOR XXXXX DATE MM-DD-YY

FIGURE NO. 2

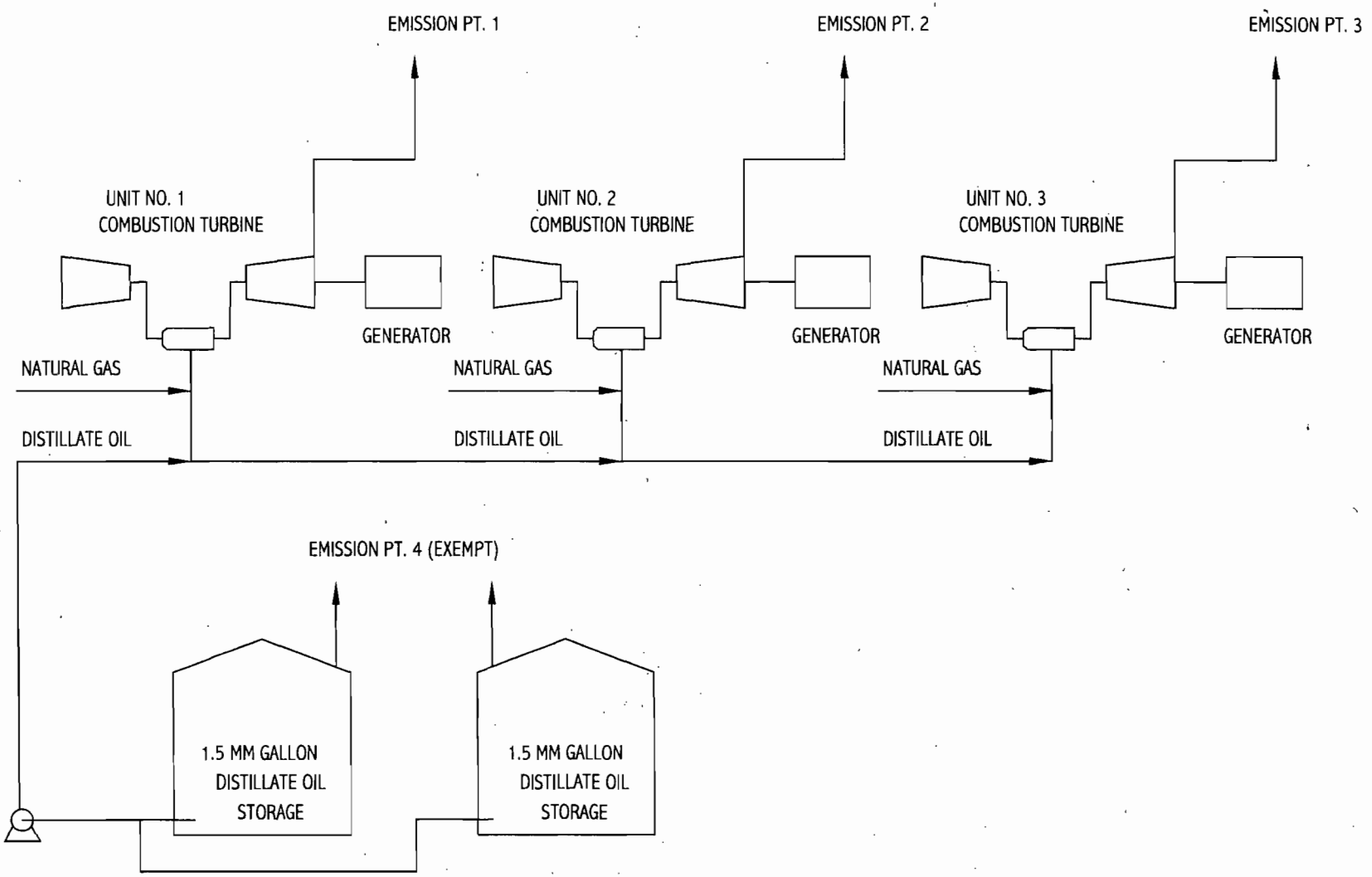
REV. NO.

SHEET 1 OF 1

7889SITEPL.DWG 3/20/02 1=100 CH/SA

ATTACHMENT 3. PROCESS FLOW DIAGRAM

7889FLOWDIA.DWG 3/20/02 1=1 CH/SA



Environmental Resources Management

ERM

PROCESS FLOW DIAGRAM

RELIANT ENERGY
HOLOPAW, FLORIDA

FIGURE
3

ATTACHMENT 4. PROJECT DESCRIPTION AND REGULATORY ANALYSIS

1.0 EXECUTIVE SUMMARY

Reliant Energy Osceola has constructed a power generating plant about 20 miles south-east of Orlando that consists of three simple-cycle combustion turbines, rated at a nominal 170 MW each. The turbines use low NOx technologies and burn primarily natural gas with distillate fuel backup. The units operate in intermittent duty.

The facility is located in Osceola County at UTM coordinates: Zone 17; 490.429Km E; 3111.307 km N. This is on the south edge of a local road, approximately 7,000 feet west of U.S. 441 about 0.9 miles south of the intersection of U.S. 192 and U.S.441.

Reliant Energy Osceola is a PSD/NSR (Prevention of Significant Deterioration/New Source Review) major facility. In order to obtain Air Construction Permit No. 0970071-001-AC, the project has already undergone a PSD review and a BACT (Best Available Control Technology) analysis.

2.0 PROCESS DESCRIPTION

Three simple cycle dual fuel combustion turbines have been constructed near Holopaw, Florida. Each unit is rated at a nominal 170 megawatts and will fire pipeline natural gas with distillate fuel as a backup.

Natural gas combustion will meet BACT standards through the use of low NOx burners. The combustor uses a two-stage design that premixes a portion of the air and fuel in the first stage and the remaining air and fuel are injected into the second stage. Sulfur dioxide emissions will be minimal, derived only from the sulfur content of the pipeline gas where sulfur is used primarily as an odorant at very low levels.

During distillate oil firing, water injection will be used to control NOx. Water injection lowers the flame temperature and thus the production of nitrogen oxides. Sulfur dioxide emissions will be derived from the sulfur content of the distillate oil, which will be limited to 0.05% sulfur.

The facility will also operate a number of insignificant and unregulated emissions sources. The largest of these will be two distillate oil storage tanks, which hold 1.5 million gallons each and are calculated to emit about 0.84 tons/year of VOC each, for a total of 1.67 tons/year of VOC for both tanks. A diesel engine emergency firewater pump is also on site and is expected to run less than 400 hours per year, primarily during periodic test runs. The facility will also operate water and wastewater treatment facilities. There will also be incidental fugitive emissions (minor distillate oil pump and piping fitting leaks, etc.). Since none of these sources are expected to be significant emissions sources, it is requested that they be exempted from the permit.

2.1 EMISSIONS STACK PARAMETERS

Table 2-1. Emissions Stack Parameters -Reliant Energy Osceola

EU	Unit	Diameter (ft)	Area (ft^2)	Height (ft)	Flow (acfm)
001	No. 1	18.125	258.02	75	2,400,000
002	No. 2	18.125	258.02	75	2,400,000
003	No. 3	18.125	258.02	75	2,400,000

3.0 REGULATORY ANALYSIS

Since the facility potential to emit exceeds 100 tons per year of some criteria pollutants, it is a Title V Major Source. Because emissions of one or more criteria pollutants exceed

250 tons per year, it has undergone a PSD review and a BACT analysis as part of the construction permitting phase. As an NSPS emissions source, it is subject to all applicable requirements of 40 CFR 60, Subpart A, General Provisions.

New Source Performance Standards Subpart GG, *Standards of Performance for Stationary Gas Turbines*, applies to stationary gas turbines with a peak load heat input of at least 10.7 gigajoules per hour (10 MMBtu/hr or 2.97 MW), and therefore, applies to the new combustion turbines. Per 40 CFR 60 Subpart GG, NO_x emissions from gas turbines with a heat input at peak load equal to or greater than 100 MMBtu/hr based on lower heating value of the fuel fired, shall be limited by:

$$STD = 0.0075 \times (14.4/Y) + F$$

Where:
- STD = allowable NO_x emissions (percent by volume at 15% oxygen and on a dry basis)
- Y = manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual assured heat rate based on lower heating value of fuel as measured at actual peak load for the facility.
- F = NO_x emission allowance for fuel-bound nitrogen, 0.005 for a nitrogen content of more than 0.25 percent by weight.

Each new nominal 170 MW turbine with a maximum heat input rate of 1942 MMBtu/hr will be limited to nitrogen oxides emissions (at 15% oxygen) of 10.5 ppmvd firing natural gas and 42 ppmvd firing distillate oil which is less than the Subpart GG standard and is obtainable. Compliance with the standards for NO_x will be assured by continuous emissions monitoring (CEMs).

Subpart GG also limits the sulfur content of the fuel to 0.8 percent by weight. Pipeline natural gas is typically limited to 85 ppmv as S, which is less than 0.02 percent by weight. The BACT analysis performed prior to construction permit approval limited distillate oil to 0.05% S. Thus currently permitted fuels will not exceed Subpart GG sulfur limits.

Two 1,500,000 gallon bulk distillate fuel oil tanks are subject to the minor recordkeeping requirements of 40 CFR 60 Subpart Kb. It is requested that they be treated as exempted from the permit.

4.0 COMPLIANCE ASSURANCE

Prior to the submittal of this application, the initial stack tests for Units 1 and 2 were completed as required by the Air Construction Permit PSD-FL-273 (0970071-001-AC). Also as required by this construction permit, a NOx CEM was installed and a monitoring plan submitted. Unit 3 is addressed in the compliance plan, Attachment 7.

As described in the construction permit, compliance with the NOx limit will be monitored using the NOx CEM installed on each unit. Compliance with the SO_2 limit will be achieved through fuel sulfur monitoring and reporting. Annual Visible Emissions (VE) testing (and the use of pipeline natural gas) will serve as a surrogate for PM/PM10 testing compliance as described in the construction permit, with a limit of 10% opacity. Compliance with the CO standard was verified in the initial stack tests using Method 10, and will be tested annually thereafter. Compliance with the permitted VOC limit was demonstrated using an approved EPA method for volatile organic concentrations and will thereafter be verified by using the CO emission limit. Periodic tuning data will be employed as a surrogate and no annual testing will be required.

ATTACHMENT 5. CALCULATIONS: EMISSIONS

EMISSION INVENTORY WORKSHEET

NATURAL GAS COMBUSTION - CRITERIA POLLUTANTS

PROJECT INFORMATION

Project & Task #: 170MW COMBUSTION TURBINE EMISSIONS-NATURAL GAS	03/28/2002

FACILITY AND SOURCE DESCRIPTION

Facility Name:	RELIANT ENERGY OSCEOLA
Emission Source Description:	Combustion Turbine-Natural Gas (Typical for Each of Three Units)
Emission Control Method(s)/ID No.(s):	Low NOx Burner
Emission Point ID:	001-003

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtul/hr) x Pollutant Emission Factor (lb/MMBtu) x [(100 - Control Factor)/100]

Emission (ton/yr) = Heat Input (MMBtul/hr) x Operating Period (hrs/yr) x Pollutant Emission Factor (lb/MMBtu) x (1 ton/2,000 lb) x [(100 - Control Factor)/100]

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 3,000 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Uncontrolled Pollutant Emission Factor (lb/MMBtu)	Control Factor (pct.)	Potential Emission Rates (lb/hr)	Potential Emission Rates (tpy)
SO_2	1709.0	0.0006	0.0	1.03	1.54
NO_x	1709.0	0.0315	0.0	53.85	80.78
*PM	1709.0	0.0046	0.0	7.90	11.84
CO	1709.0	0.0179	0.0	30.56	45.84
VOC	1709.0	0.0021	0.0	3.59	5.38

SOURCES OF INPUT DATA

Variable	Data Source
Operating Hours	PERMIT 0970071-001-AC
Maximum Heat Input	PERMIT 0970071-001-AC
"NOx,	STACK TEST DATA
CO, VOC & PM Emission Factors	TURBINE VENDOR DATA
SOx Emission Factor	CONSISTENT WITH ACID RAIN REPORTING

NOTES AND OBSERVATIONS

*PM emission factor includes both condensable and filterable PM.

EMISSION INVENTORY WORKSHEET

NATURAL GAS COMBUSTION - CRITERIA POLLUTANTS

PROJECT INFORMATION

Project & Task #: 170MW COMBUSTION TURBINE EMISSIONS-DISTILLATE OIL | 03/28/2002

FACILITY AND SOURCE DESCRIPTION

Facility Name:	RELIANT ENERGY OSCEOLA
Emission Source Description:	Combustion Turbine-Distillate Oil
Emission Control Method(s)/ID No.(s):	None
Emission Point ID:	001-003

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtul/hr) x Pollutant Emission Factor (lb/MMBtu) x [(100 - Control Factor)/100]

Emission (ton/yr) = Heat Input (MMBtul/hr) x Operating Period (hrs/yr) x Pollutant Emission Factor (lb/MMBtu) x (1 ton/2,000 lb) x [(100 - Control Factor)/100]

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 750 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Uncontrolled Pollutant Emission Factor (lb/MMBtu)	Control Factor (pct.)	Potential Emission Rates (lb/hr)	Potential Emission Rates (tpy)
SO_2	1942.0	0.0546	0.0	106.11	39.79
NO_x	1942.0	0.1412	0.0	274.19	102.82
*PM	1942.0	0.0094	0.0	18.24	6.84
CO	1942.0	0.0359	0.0	69.78	26.17
VOC	1942.0	0.0041	0.0	8.04	3.01

SOURCES OF INPUT DATA

Variable	Data Source
Operating Hours	PERMIT 0970071-001-AC
Maximum Heat Input	PERMIT 0970071-001-AC
"NOx,	STACK TEST DATA
CO, VOC & PM Emission Factors	TURBINE VENDOR DATA
SOx Emission Factor	MATERIAL BALANCE

NOTES AND OBSERVATIONS

*PM emission factor includes both condensable and filterable PM.

EMISSION INVENTORY WORKSHEET

NATURAL GAS COMBUSTION - CRITERIA POLLUTANTS

Page 5-3

PROJECT INFORMATION

Project & Task #: 170MW COMBUSTION TURBINE EMISSIONS-SUMMARY

FACILITY AND SOURCE DESCRIPTION

Facility Name:	RELIANT ENERGY OSCEOLA
Emission Source Description:	Combustion Turbine
Emission Control Method(s)/ID No.(s):	Low NOx burners/ Water Injection for Distillate Oil
Emission Point ID:	001-003

Operating Hours	All Fuels Combined	3000
	Natural Gas Maximum	3000
	Distillate Oil Maximum	750

Criteria Pollutant	UNIT ALLOWABLE EMISSIONS					FACILITY
	NATURAL GAS Allowable Emission Rates		DISTILLATE OIL Allowable Emission Rates		COMBINED FUEL Allowable Emission Rates	COMBINED FUEL Allowable Emission Rates
	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(tpy)	(tpy)
SO_2	1.10	1.65	104.30	39.11	40.35	121.05
NO_x	60.00	90.00	323.00	121.13	90.00	270.00
*PM	18.00	27.00	34.00	12.75	33.00	99.00
CO	36.20	54.30	70.00	26.25	66.98	200.93
VOC	3.00	4.50	8.00	3.00	6.38	19.13

ATTACHMENT 6. LIST OF PROPOSED EXEMPT ACTIVITIES

LIST OF PROPOSED EXEMPT ACTIVITIES

Title V Permit Application

Holopaw Peaking Units

Reliant Energy Osceola, LLC

1. Pipeline natural gas heaters (2).
2. Emergency diesel fire water pump.
3. Distillate fuel oil truck delivery unloading.
4. Two (2) 1.5 million gallon distillate fuel oil tanks (emissions below 5 TPY VOC and no substantive emissions limiting standards).
5. Oil/water separators (2).
6. Percolation pond.
7. Underground storage tanks for turbine water wash (3).
8. Underground storage tanks for distillate fuel oil, turbine cold start/trip out (3).
9. Unconfined particulate matter from truck traffic, soil stockpile.
10. Cooling towers (3)
11. Miscellaneous oil-filled power transformers.

ATTACHMENT 7. COMPLIANCE REPORT AND PLAN (UNIT 3)

COMPLIANCE REPORT AND PLAN (UNIT 3)

Title V Permit Application

Holopaw Peaking Units

Reliant Energy Osceola, LLC

Unit 3 had not fully completed construction, been test fired, and tested prior to the submittal of this Title V application. As required in the construction permit 0970071-001-AC, compliance with the allowable emission limiting standards will be determined within 60 days of achieving maximum production rate, but not later than 180 days after initial operation of Unit 3. Refer to Specific Conditions 28, 29,30, 31, 32, 33, and 34 for required testing details for each required pollutant.

The DEP will be notified as required by the construction permit at least 30 days prior to the initial performance tests. Compliance test results will be submitted to the DEP no later than 45 days after completion of the last test run.

A Continuous Emissions Monitoring (CEM) plan has been submitted for all three units as required. Unit 3 will have an initial CEM certification application submitted no later than 45 days prior to the first scheduled certification test as required by 40 CFR75.

Unit 3 will be in compliance with the requirements of the Title V permit once it has been completed, started, a CEM plan submitted to DEP, and stack testing required by the referenced construction permit has been completed.

ATTACHMENT 8. COMPLIANCE CERTIFICATION

COMPLIANCE CERTIFICATION

Title V Permit Application

Holopaw Peaking Units

Reliant Energy Osceola, LLC

"I, the undersigned, am the responsible official as defined in Chapter 62-210.200, 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."

T E Gish

Terry E. Gish
Managing Director, SE Operations

3-29-02

Date