



# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
September 8, 2003

David B. Struhs  
Secretary

Mr. A. K. Ben Sharma, P.E.  
Vice President of Power Supply  
Kissimmee Utility Authority  
P.O. Box 423219  
Kissimmee, FL 34742-3219

Re: PROPOSED Title V Permit Revision No. **0970043-010-AV**  
**Cane Island Power Park**

Dear Mr. Sharma:

One copy of the "PROPOSED PERMIT REVISION DETERMINATION" for the Cane Island Power Park, located at 6075 Old Tampa Highway, Intercession City, Osceola County, is enclosed. This letter is only a courtesy to inform you that the DRAFT permit revision has become a PROPOSED permit revision.

Pursuant to Section 403.0872(6), Florida Statutes, if no objection to the PROPOSED permit revision is made by the U.S.EPA within 45 days, the PROPOSED permit revision will become a FINAL permit revision no later than 55 days after the date on which the PROPOSED permit revision was mailed (posted) to U.S.EPA. If U.S.EPA has an objection to the PROPOSED permit revision, the FINAL permit revision will not be issued until the permitting authority receives written notice that the objection is resolved or withdrawn. If you have any questions, please contact Tom Cascio at 850/921-9526.

Sincerely,

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

TLV/tbc

Enclosures

copy furnished to:

Mr. Mark A. Wiitanen, P.E., Black & Veatch  
Mr. Len Kozlov, Central District Office  
U.S.EPA, Region 4 (INTERNET E-mail Memorandum)

*Posted 9/8/03*  
*Mailed 9/9/03*  
*9/9/03 cc: Tom Cascio*  
*Reading File*  
*Trina's File*

"More Protection, Less Process"

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PROPOSED Permit Revision Determination  
 Kissimmee Utility Authority  
**Cane Island Power Park**  
 Title V Permit Revision No. 0970043-010-AV

**I. Public Notice.**

An “INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION” to the Kissimmee Utility Authority for the Cane Island Power Park, located at 6075 Old Tampa Highway, Intercession City, Osceola County, was clerked on July 2, 2003. The “PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION” was published in the Orlando Sentinel on July 27, 2003. The DRAFT Title V Air Operation Permit Revision was available for public inspection at the Department’s Central District office in Orlando and the permitting authority’s office in Tallahassee. Proof of publication of the “PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION” was received on August 4, 2003.

**II. Public Comment(s).**

The only comments submitted concerning the DRAFT Title V Operation Permit Revision were from the applicant in a letter received on August 5, 2003. Department responses to the comments are noted below, in the same order as listed in the letter. The comments are not restated. The comments are not considered significant enough to require the issuance of a revised DRAFT permit.

<b>DRAFT Permit Reference</b>	<b>Department Response</b>
Subsection E. Description.	The Department agrees with the recommended change. The phrase “DLN to minimize carbon monoxide (CO) emissions” was added in error and it is therefore removed from the PROPOSED Permit.
Permitting note following Specific Condition E.2.	The Department agrees with the recommended change. The permitting note has been changed in the PROPOSED permit to be consistent with Specific Condition E.27.
Specific Condition E.24.	The Department agrees with the recommended change. Specific Condition E.24. has been changed in the PROPOSED Permit to reflect that a 24-hour block average shall be used to demonstrate compliance with the NO <sub>x</sub> limits when operating under Intermittent Simple-Cycle Operation or Continuous Simple-Cycle Operation to provide consistency with the requirements of Specific Condition E.13.
Specific Condition E.21.	The Department agrees with the recommended change. Specific Condition E.21. has been changed in the PROPOSED permit to require that the SCR equipment operate during all times that the turbine is operated in combined-cycle operation mode.

PROPOSED Permit Revision Determination  
Kissimmee Utility Authority  
**Cane Island Power Park**  
Title V Permit Revision No. **0970043-010-AV**

Subsections <b>A., B., C., D.,</b> and <b>E. Descriptions.</b>	The Department agrees with the recommended changes. The wording changes have been made in the PROPOSED permit.
Specific Condition <b>E.34.</b>	The Department agrees with the recommended change. The change from quarterly to semi-annual reporting has been made in the PROPOSED permit.

**III. Conclusion.**

The permitting authority hereby issues PROPOSED Permit Revision No. **0970043-010-AV**, with the changes noted above.

## STATEMENT OF BASIS

Kissimmee Utility Authority  
**Cane Island Power Park**  
Osceola County

Facility ID No. 0970043

Project No. 0970043-010-AV

Title V Permit Revision

This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work and operate the facility shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

This facility consists of three fossil fuel-fired combustion turbine electric generating units and three distillate oil storage tanks. Emissions Unit 001 is a 40 MW General Electric Model LM-6000PA simple-cycle combustion turbine with an electrical generator set. Emission Unit 002 is a General Electric Model PG7111(EA) combustion turbine with electrical generator set and an unfired heat recovery steam generator (HRSG) with a steam-electric generator. Unit 002 produces 80 MW during simple-cycle operation and 120 MW during in combined-cycle operation. Each combustion turbine fires natural gas as the primary fuel with very low sulfur distillate oil ( $\leq 0.05\%$  sulfur by weight) as a backup fuel. Both units have simple-cycle stacks. Unit 002 also has a separate HRSG stack for combined-cycle operation.

*This permit revision adds Unit 003, a nominal 250 MW combined-cycle plant, to the facility.* It includes a nominal 167 MW stationary gas combustion turbine-electrical generator burning natural gas with fuel oil as backup; a supplemental gas-fired heat recovery steam generator to raise sufficient steam to achieve 250 MW in combined-cycle operation; an 80-90 MW steam electric generator, a 44 mmBtu/hr heat input duct burner; a selective catalytic reduction unit and ancillary equipment; ammonia storage; a 130-foot stack; and a 100-foot bypass stack for simple-cycle operation. Support facilities for Unit 003 include a cooling tower, water and wastewater facilities, water storage tanks, storm water detention pond, 230 KV transmission line, and a 1.0 million gallon storage tank for back-up distillate fuel oil.

Emissions from Unit 003 are controlled by Dry Low NO<sub>x</sub> (DLN) combustors and wet injection under simple-cycle operation. Emissions are controlled by DLN and wet injection and selective catalytic reduction (SCR) when operating in combined-cycle mode. Inherently clean fuels and good combustion practices are employed to control all pollutants. Because a continuous emissions monitoring system (CEMS) is used to demonstrate compliance for NO<sub>x</sub>, a compliance assurance monitoring (CAM) plan is not required for the SCR system.

Site Certification for the KUA Cane Island Facility Unit 003 was approved on November 22, 1999.

Based on the Title V Air Permit Revision Application received on October 17, 2001, this facility is a major source of hazardous air pollutants (HAPs). It holds ORIS code **7238** under the federal Acid Rain Program.

Kissimmee Utility Authority  
**Cane Island Power Park**  
Facility ID No. **0970043**  
Osceola County

Title V Air Operation Permit Revision  
PROPOSED Permit No. **0970043-010-AV**

Permitting Authority:  
State of Florida  
Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation  
Title V Section

Mail Station #5505  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Telephone: 850/488-0114  
Fax: 850/922-6979

Title V Air Operation Permit Revision  
PROPOSED Permit No. 0970043-010-AV

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**Permittee:**  
Kissimmee Utility Authority  
1701 West Carroll Street  
Kissimmee, FL 34742

**PROPOSED Permit No.** 0970043-010-AV  
**Facility ID No.** 0970043  
**SIC No.:** 49  
**Project:** Title V Air Operation Permit Revision

This permit revision is for the operation of the Kissimmee Utility Authority's Cane Island Power Park. This facility is located at 6075 Old Tampa Highway, Intercession City, Osceola County. The UTM coordinates are Zone 17, 449.8 East, and 3127.9 North. The Latitude is 28 16' 40" North and the Longitude is 81 31' 01" West.

*This revision adds a new Combined-Cycle Combustion Turbine Unit 3 to the facility.*

This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work and operate the facility shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit. The facility holds ORIS code 7238 under Phase II of the federal Acid Rain Program.

**Referenced attachments made a part of this permit:**

Appendix U-1, List of Unregulated Emissions Units and/or Activities  
Appendix I-1, List of Insignificant Emissions Units and/or Activities  
Table 1-1, Summary of Air Pollutant Standards and Terms  
Table 2-1, Summary of Compliance Requirements  
Appendix TV-4, Title V Conditions (version dated 02/12/02)  
Appendix SS-1, Stack Sampling Facilities (version dated 10/07/96)  
Table 297.310-1, Calibration Schedule (version dated 10/07/96)  
Figure 1 - Summary Report-Gaseous And Opacity Excess Emission And Monitoring System  
Performance Report (version dated 7/96)  
Alternate Sampling Procedure, ASP No. 97-B-01  
BACT Determination dated April 7, 1993  
Order extending permits dated March 18, 1999

**Effective Date:** January 1, 2000  
**Revised Date:**  
**Renewal Application Due Date:** July 5, 2004  
**Expiration Date:** December 31, 2004

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Michael G. Cooke, Director  
Division of Air Resource  
Management

**Section I. Facility Information.**

**Subsection A. Facility Description.**

This facility is an electric power generating plant and consists of:

Simple-Cycle Combustion Turbine Unit 1 (Emissions Unit 001), rated at 40 MW,

Combined-Cycle Combustion Turbine Unit 2 (Emissions Unit 002), rated at 120 MW, and

Combined-Cycle Combustion Turbine Unit 3 (Emissions Unit 003), rated at 250 MW, with duct burner (Emissions Unit 005).

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V permit revision application received on October 17, 2001, this facility is a major source of hazardous air pollutants (HAPs).



**Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).**

E.U. ID No.	Brief Description
001	Simple-Cycle Combustion Turbine (Unit 001), rated at 40 MW, 367 mmBtu/hr for natural gas and 372 mmBtu/hr for number 2 fuel oil, capable of burning natural gas and number 2 fuel oil, with emissions exhausted through a 65 ft. stack .
002	Combined-Cycle Combustion Turbine (Unit 002), rated at 120 MW, 869 mmBtu/hr for natural gas and 928 mmBtu/hr for number 2 fuel oil, capable of burning natural gas and number 2 fuel oil, with emissions exhausted through a 75 ft. stack .
003 005	Combined-Cycle Combustion Turbine (Unit 003), with duct burner (Unit 005).
004	Fuel Storage Tank (one million gallon)(Unit 004).

Unregulated Emissions Units and/or Activities	
007	Distillate Fuel Oil Tank No. 2 (700,000 gal. capacity)
008	Distillate Fuel Oil Tank No. 1 (300,000 gal. capacity)
006	Cooling Tower

*Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.*

**Subsection C. Relevant Documents.**

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

- Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
- Appendix H-1, Permit History/ID Number Changes
- Table 1-1, Summary of Air Pollutant Standards and Terms
- Table 2-1, Summary of Compliance Requirements

These documents are on file with the permitting authority:

- Initial Title V Permit Application received June 14, 1996.
- Acid Rain Phase II Part Application received on January 14, 1998.
- Acid Rain Phase II Part Application Revision signed by the Designated Representative on June 7, 1999.
- Title V Permit Revision Application received October 17, 2001.
- DRAFT Title V Permit Revision clerked on July 2, 2003.

**Section II. Facility-wide Conditions.**

The following conditions apply facility-wide:

1. APPENDIX TV-4, TITLE V CONDITIONS, is a part of this permit.  
{Permitting note: APPENDIX TV-4, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

2. **Not Federally Enforceable. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited.** The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.  
[Rule 62-296.320(2), F.A.C.]

3. **General Particulate Emission Limiting Standards. General Visible Emissions Standard.** Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.  
[Rules 62-296.320(4)(b)1. & 4, F.A.C.]

4. **Prevention of Accidental Releases (Section 112(r) of CAA).**  
a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center  
Post Office Box 3346  
Merrifield, VA 22116-3346  
Telephone: 703/816-4434

and,

b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.  
[40 CFR 68]

5. **Unregulated Emissions Units and/or Activities.** Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.  
[Rule 62-213.440(1), F.A.C.]

6. **Insignificant Emissions Units and/or Activities.** Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.  
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]

7. [Reserved.]

8. General Pollutant Emission Limiting Standards. Volatile Organic Compounds Emissions or Organic Solvents Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

[Rule 62-296.320(1)(a), F.A.C.]

9. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility shall include the following activities. The following conditions are not federally enforceable.

- a. Maintenance of paved areas shall be performed as needed.
- b. Worker and site vehicle movements shall be conducted on paved roads.
- c. Delivery vehicle movements shall be conducted on paved roads.
- d. Fuel oil delivery by truck shall be conducted on paved roads.

[Rule 62-296.320(4)(c)2., F.A.C.; and proposed by applicant in the initial Title V permit application received June 14, 1996.]

10. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, F.A.C.]

11. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.

[Rules 62-213.440(3) and 62-213.900, F.A.C.]

12. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Central District office:

Central District Office  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Telephone: 407/894-7555  
Fax: 407/897-2966

13. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency, Region 4  
Air Pesticides & Toxics Management Division  
Air & EPCRA Enforcement Branch  
Air Enforcement Section  
61 Forsyth Street  
Atlanta, Georgia 30303-8960

Telephone: 404/562-9155  
Fax: 404/562-9163 or 404/562-9164

14. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.

[Rule 62-213.420(4), F.A.C.]

**Section III. Emissions Unit(s) and Conditions.**

**Subsection A. This section addresses the following emissions unit.**

E.U. ID No.	Brief Description
001	Simple-Cycle Combustion Turbine (Unit 001), rated at 40 MW, 367 mmBtu/hr for natural gas and 372 mmBtu/hr for number 2 fuel oil, capable of burning any combination of natural gas and number 2 fuel oil, with emissions exhausted through a 65 ft. stack .

{Permitting note(s): This emissions unit is regulated under Acid Rain, Phase II; Rule 62-210.300, F.A.C., Permits Required; and is subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. The affected facility to which this subpart applies is the simple-cycle gas turbine, Unit 001. This unit underwent a BACT Determination dated April 7, 1993. BACT Limits were incorporated into the subsequent air construction/PSD permits including AC 49-205703 (PSD-FL-182). Exhaust is vented through a 65 ft. stack. NO<sub>x</sub> emissions are controlled by low-NO<sub>x</sub> combustors, and by water injection, whereas SO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> emissions are controlled by firing .05%S oil, for only limited time periods. Fossil fuel fired combustion turbine Unit 001 began commercial operation in 1994.}

**The following specific conditions apply to the emissions units listed above:**

**Essential Potential to Emit (PTE) Parameters**

**A.1. Permitted Capacity.** The maximum operation heat input rates are as follows:

Unit No.	mmBtu/hr Heat Input	Fuel Type
001	367*	Natural Gas
	372*	Fuel Oil

\*Based on 101.3 kilopascals pressure, 288 Kelvin and 60% relative humidity (ISO standard day conditions), and lower heating value of the fuel fired.

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each emission unit for the purposes of confirming that emissions testing is conducted within 95 to 100 percent of the emission unit's rated capacity (or to limit future operation to 105 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability}

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; AC 49-205703 (PSD-FL-182); 0970043-007-AC (modification of PSD-FL-182A)]

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See Specific Condition C.8.

[Rule 62-297.310(2), F.A.C.]

**A.3. Methods of Operation - Fuels.** The only fuels allowed to be fired are pipeline-quality natural gas and low sulfur No. 2 distillate oil. The sulfur content of the No. 2 distillate oil shall not exceed 0.05% sulfur by weight. Operation of Unit No. 1 shall not exceed 5000 hours during any consecutive 12 months. Of the total allowable hours of operation, Unit No. 1 shall fire distillate oil for no more than:

- a. 800 hours during any consecutive 12 months if natural gas is available, or
- b. 1000 during any consecutive 12 months if natural gas is unavailable.

{Permitting Note: The limitations of specific conditions A.3 and A.6 are more stringent than the NSPS sulfur dioxide limitation and thus assure compliance with 40 CFR 60.333 and 60.334} [Rule 62-213.410, F.A.C., AC 49-205703 (PSD-FL-182); 0970043-007-AC (PSD-FL-182A); 0970043-009-AV, Revised on 10/13/00]

**Emission Limitations and Standards**

{Permitting note: Unless otherwise specified, the averaging times for Specific Conditions A.4. through A.5. are based on the specified averaging time of the applicable test method.}

**A.4. Visible Emissions.** Visible emissions shall not exceed 10 percent opacity, except for during startup, shutdown or periods of part load operation, at which time visible emissions shall not exceed 20 percent opacity.

[AC 49-205703 (PSD-FL-182)]

**A.5.** The maximum allowable emissions from Unit 001 shall not exceed the emission limitations listed below.

Pollutant	Emission Limits			Basis
	Gas	Number 2 Fuel Oil	Equivalent Emissions Tons/Year <sup>a, b</sup>	
NO <sub>x</sub> <sup>c</sup>	25 ppmvd at 15% oxygen on a dry basis	42 ppmvd at 15% oxygen on a dry basis	105.5 <sup>c</sup>	BACT
SO <sub>2</sub>	nil	20 lb/hr	10.0	BACT
PM	0.0245lb/mmBtu	0.0323 lb/mmBtu	24.0	BACT
H <sub>2</sub> SO <sub>4</sub>	nil	2.2 lb/hr	1.1	BACT
VOC	1.4 lb/hr	3 lb/hr	4.3	BACT
CO	30 ppmvd	63 ppmvd	118.0	BACT
Opacity	10% (see A.4.)	10% (see A.4.)		BACT
Be <sup>d</sup>	nil	2.5 E-6 lb/MMBtu	< 1	BACT
As <sup>d</sup>	nil	4.2 E-6 lb/MMBtu	< 1	AC 49-205703
Hg <sup>d</sup>	nil	3.1 E-6 lb/MMBtu	< 1	AC 49-205703
Pb <sup>d</sup>	nil	2.8 E-5 lb/MMBtu	< 1	AC 49-205703

- a. Tons per year based on 4000 hrs/yr for natural gas firing, 1000 hrs/yr for number 2 fuel oil firing.
- b. Based on 372 mmBtu/hr for number 2 fuel oil and 367 mmBtu/hr for natural gas.
- c. Original permit PSD-FL-182 limited NO<sub>x</sub> emissions to 25 ppmvd for gas firing to be reduced to 15 ppmvd. Project No. 0970043-007-AC (12/21/99) modified the PSD permit establishing the final NO<sub>x</sub> emission limit as 25 ppmvd when firing natural gas with a corresponding reduction in hours of operation (5000 hours per year) and a combined NO<sub>x</sub> emissions cap (366.1 TPY) with Unit No. 2.
- d. Limits based upon an approved emission factor, which is subject to change in the future.

[AC49-205703 (PSD-FL-182); 0970043-007-AC; 0970043-009-AV, Revised on 10/13/00]

### **Test Methods and Procedures**

**A.6. Annual Compliance Tests.** Emission testing for visible emissions and NO<sub>x</sub> shall be performed annually, in accordance with specific condition A.8., with the fuel(s) used for more than 400 hours in the preceding 12-month period. Tests shall be conducted using the following EPA reference methods in accordance with 40 CFR 60, Appendix A:

- a. Method 9 for VE;
- b. Method 20 for NO<sub>x</sub>.

Annual compliance with the NO<sub>x</sub> standard may be determined by using data collected as part of the annual Relative Accuracy Test Audit (RATA) testing as described in 40 CFR 60 Appendix B. Performance Specification 2. Section 7.1.2. instead of performing Methods 7E and 20 as separate tests. EPA Method 10 will be conducted simultaneously with the NO<sub>x</sub>/ O<sub>2</sub> RATA tests. The 20-30 minute tests conducted for the RATA testing will be strung together in a manner that fulfills additional requirements of EPA Methods 10 and 20 as to test run time (3 one hour runs) and O<sub>2</sub> stratification investigation. The collected data will be bias corrected to comply with the RATA test requirements, but will not be bias corrected for compliance with NSPS so as to meet the requirements of methods 10 and 20 (the NSPS test methods). No less than eight test points will be used for the RATA testing which will comply with both the RATA test requirements and the NSPS test requirements. The NO<sub>x</sub> span for methods 20 and 7E should not exceed 50 ppm instead of a span of 300 ppm as required by Subpart GG. Mass emissions of NO<sub>x</sub> and CO shall be determined pursuant to the procedures in 40 CFR 60, Appendix A. Method 19 or 40 CFR 75, Appendix F. If the unit is not operating because of scheduled maintenance outages and emergency repairs, it will be tested within thirty days of returning to service.

Note: Measured NO<sub>x</sub> emissions will be ISO corrected for comparison with NSPS, but will not be ISO corrected for comparison with the BACT standard.

[Rules 62-297.401 and 62-213.440, F.A.C., and AC 49-205703 (PSD-FL-182)]

**A.7. Testing for PM, CO, VOC.** Particulate matter tests shall be conducted using EPA test methods 5 or 17. Alternatively, the opacity emissions test may be used unless the 10% opacity limit is exceeded. Carbon monoxide tests shall be conducted using EPA test method 10. VOC tests shall be conducted using EPA test method 25A.

[Rule 62-297.401, F.A.C., and AC 49-205703 (PSD-FL-182).]

**A.8. Additional Test Requirements.** Test results shall be the average of three valid runs. Testing of emissions shall be conducted with the emissions unit operating at permitted capacity, which is defined as 95-100 percent of the maximum heat input rate allowed by this permit, achievable for the average ambient air temperature during the test. If it is impracticable to test at permitted capacity, the emissions unit may be tested at less than permitted capacity. In such cases, subsequent operation is limited by adjusting downward the entire heat input vs. inlet temperature curve by the increment equal to the difference between the maximum permitted heat input value and 105 percent of the value reached during the test. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. Data, curves, and calculations necessary to demonstrate the heat input rate correction at both design and test conditions shall be submitted to the Department with the compliance test report.

[AC 49-205703 (PSD-FL-182).]

**A.9. Sulfur Dioxide - Sulfur Content.** The permittee elected to use fuel sampling and analysis in lieu of installing a continuous monitoring system for SO<sub>2</sub> as required by the NSPS. This protocol is allowed because the emissions unit does not have an operating flue gas desulfurization

device. The permittee shall demonstrate compliance with the SO<sub>2</sub> limit by EPA test method 8 or fuel sampling and analysis. The permittee shall demonstrate compliance with the gaseous fuel sulfur limit via record keeping. Excess emissions shall be reported if the fuel being fired in the gas turbine exceeds 0.05% sulfur, by weight.

[AC 49-205703 (PSD-FL-182).]

**A.10. Fuel Sampling & Analysis - Sulfur/Nitrogen and Lower Heating Value.** The following fuel sampling and analysis program shall be used to demonstrate compliance with the sulfur dioxide standard:

a. Determine and record the as-fired fuel sulfur content, percent by weight, for liquid fuels using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest editions, to analyze a representative sample of the blended fuel following each fuel delivery. ASTM D3246-81, or its latest edition, shall be used for sulfur content of gaseous fuel.

b. Record daily the amount of each fuel fired, density of each fuel, heating value, nitrogen content and the percent sulfur content by weight of fuel oil as specified in 40 CFR 60.334.

[Rule 62-213.440, F.A.C.; and AC 49-205703 (PSD-FL-182).]

### **Monitoring of Operations**

**A.11. Continuous Monitoring Required.** A continuous monitoring system shall be maintained to record fuel consumption. A continuous monitoring system shall be maintained to record emissions of nitrogen oxides in accordance with the requirements of 40 CFR 75. Data collected from this system shall be used for periodic monitoring purposes. While water injection is being utilized for NO<sub>x</sub> control, water to fuel ratio and fuel bound nitrogen is not required to be continuously monitored as long as the permittee will report excess emissions using the data collected by the continuous monitoring system in accordance with the following conditions:

1. Each NO<sub>x</sub> CEMS must be capable of calculating NO<sub>x</sub> emissions concentrations corrected to 15% O<sub>2</sub> and ISO conditions.
2. Monitor data availability shall be no less than 95 percent on a quarterly basis.
3. NO<sub>x</sub> CEMS should provide at least 4 data points for each hour and calculate a one-hour average.

To implement condition 1, Kissimmee Utility Authority (KUA) shall use ambient data (temperature, relative humidity, pressure) to correct excess emissions data to ISO conditions if requested by the Department. If monitor availability drops below 95% on a quarterly basis as prescribed in condition 2, KUA shall use water to fuel ratio and fuel-bound nitrogen data to monitor excess emissions in subsequent quarters until the minimum CEMS monitor availability is above 95%. The use of CEMS to monitor excess emissions is more stringent than the surrogate parameter monitoring in 40 CFR 60.334 since the CEMS directly measures NO<sub>x</sub> emissions. The CEMS also provides monitoring when no water injection is used to control NO<sub>x</sub> emissions (i.e., when firing natural gas, dry low NO<sub>x</sub> burners are used).

[AC 49-205703 (PSD-FL-182).]



**A.12. Excess Emissions by CEMS.** The CEMS shall be used to determine periods of excess emissions as per 40 CFR 60.334. Excess emissions are defined for this emissions unit as any 60-minute period during which the average emissions exceed the emission limits of specific condition A.5. of this permit. Periods of startup, shutdown and malfunction shall be monitored, recorded and reported with excess emissions following the format and requirements of 40 CFR 60.7.

[AC 49-205703 (PSD-FL-182).]

#### **Recordkeeping and Reporting Requirements**

**A.13. Excess Emission Reports.** Semi-annual excess emission reports shall be submitted to the DEP's Central District Office. These reports shall be postmarked by the 30th day following the end of each calendar half. Each excess emission report shall include the information required in 40 CFR 60.7(c) and 60.334.

[AC 49-205703 (PSD-FL-182)]

**A.14. Natural Gas Sulfur Content Records Required.** The owner or operator shall receive and maintain records of sulfur content of natural gas provided by the natural gas supplier, as per 40 CFR 60.334. The records shall report total sulfur content in terms of grains of sulfur per hundred cubic feet (standard conditions).

[AC 49-205703 (PSD-FL-182)]

**A.15. Additional Reports Required.** The owner or operator shall report the following with the Annual Operating Report (AOR) by March 1 of each calendar year: sulfur and nitrogen contents, by weight, and lower heating value of the fuel oil being fired, annual fuel consumption of number 2 fuel oil and natural gas, hours of operation per fuel usage and air emission limits. As it may become available, the permittee shall also provide the Department with information regarding documented enhancements to the LM6000PA, dual-fuel class, combustion turbine machine, which have demonstrated in the field the ability to achieve a continuous NO<sub>x</sub> emission rate of 15 ppmvd while firing natural gas.

[Rule 62-210.370(3), F.A.C.; and AC49-205703 (PSD-FL-182); 0970043-007-AC; 0970043-009-AV, Revised on 10/13/00]

#### **Other Specific Conditions**

**A.16. Maintain Capability to install an SCR.** This emissions unit is permitted for maximum NO<sub>x</sub> emission levels of 15 (gas)/42 (oil) ppmv. The Department will revise permitted emission levels for NO<sub>x</sub> if the manufacturer achieves an even lower NO<sub>x</sub> emission, pursuant to F.A.C. Rule 62-4.080. The permittee shall maintain capability for future installation of a selective catalytic reduction (SCR) system. This is required in the event that the permittee is unable to comply with the permitted NO<sub>x</sub> levels and the Department requires an SCR to be installed. In the event an SCR system is required to be installed, the emission limitations shall be established at the time of installation by stack test results and through a revised determination of BACT.

[AC 49-205703 (PSD-FL-182)]

**A.17.** This emissions unit is also subject to conditions C.1. through C.13., contained in **Subsection C., Common Conditions.**

**A.18.** This emissions unit is also subject to conditions D.1. through D.6., contained in **Subsection D., NSPS Common Conditions.**

**Subsection B. This section addresses the following emissions unit.**

E.U. ID No.	Brief Description
002	Combined-Cycle Combustion Turbine (Unit 002), rated at 120 MW, 869 mmBtu/hr for natural gas and 928 mmBtu/hr for number 2 fuel oil, capable of burning any combination of natural gas and number 2 fuel oil, with emissions exhausted through a 75 ft. stack.

{Permitting Notes: This emissions unit is regulated under Acid Rain, Phase II; Rule 62-210.300, F.A.C., Permits Required; and, is subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. The affected facility to which this subpart applies is the combined-cycle gas turbine, Unit 2. This unit underwent a BACT Determination dated April 7, 1993. BACT Limits were incorporated into the subsequent air construction/PSD permits including AC 49-205703 (PSD-FL-182). Exhaust is vented through the heat recovery steam generator that is not equipped with duct burners and then through a 75 ft. stack. NO<sub>x</sub> emissions are controlled by low-NO<sub>x</sub> combustors, and by water injection, whereas SO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> emissions are controlled by firing 0.05%, by weight, sulfur oil for only limited time periods. The turbine exhaust may also be vented through a bypass stack for simple-cycle operation when the HRSG or steam turbine is down for maintenance and/or repair. The turbine began commercial operation in 1995.}

**The following specific conditions apply to the emissions unit listed above:**

**Essential Potential to Emit (PTE) Parameters**

**B.1. Permitted Capacity.** The maximum operation heat input rates are as follows:

Unit No.	mmBtu/hr Heat Input	Fuel Type
002	869*	Natural Gas
	928*	No. 2 Fuel Oil

\* Based on 101.3 kilopascals pressure, 288 Kelvin and 60% relative humidity (ISO standard day conditions), and lower heating value of the fuel fired.

{Permitting Note: The heat input limitations have been placed in each permit to identify the capacity of each emissions unit for the purposes of confirming that emissions testing is conducted within 95 to 100 percent of the emission unit's rated capacity (or to limit future operation to 105 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability.}

[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.; and AC 49-205703 (PSD-FL-182)]

**B.2. Emissions Unit Operating Rate Limitation After Testing.** See Specific Condition C.8.

[Rule 62-297.310(2), F.A.C.]

**B.3. Methods of Operation.**

a. Fuels: The only fuel(s) allowed to be burned are natural gas and number 2 fuel oil (0.05%), except that firing of number 2 fuel oil is limited to no more than 1000 hours per year if natural gas is unavailable, or no more than 800 hours per year if gas is available. The sulfur content of the fuel oil shall not exceed 0.05%, by weight. {Permitting Note: The limitations of specific conditions A.3 and A.6 are more stringent than the NSPS sulfur dioxide limitation and thus assure compliance with 40 CFR 60.333 and 60.334}

b. Inlet Air Fogging: The permittee is authorized to install and operate a high pressure, direct water spray fogging system. The proposed equipment will inject up to 26 gpm from spray nozzles to provide evaporative cooling of the compressor inlet air to Unit 2. Based on an inlet air mass flow rate of 2,077,077 pounds per hour, the inlet air fogging system shall be designed to achieve a 25° F cooling reduction from an ambient temperature of 95° F to cooled compressor inlet air

temperature of 70° F. {Permitting Note: The inlet air fogging system will typically operate during periods of peak power demand and high ambient temperatures. Fogging provides evaporative cooling of the inlet air to the compressor, which allows a higher mass flow rate with a corresponding increase in power production of up to 8 MW depending on initial ambient conditions. The increased power production is realized by firing additional fuel, which results in increased actual emissions. However, there are no increases in the maximum heat input rates, power production, or emissions levels, which are established under the coldest expected ambient temperatures. Fogging simply allows performance of the combustion turbine at a lower temperature than the existing ambient conditions.}

[Rule 62-213.410, F.A.C.; AC 49-205703 (PSD-FL-182); 0970043-008-AC (PSD-FL-182I); and 0970043-009-AV, Revised on 10/13/00]

**Emission Limitations and Standards**

{Permitting note: Unless otherwise specified, the averaging times for Specific Conditions B.4. through B.5. are based on the specified averaging time of the applicable test method.}

**B.4. Visible Emissions.** Visible emissions shall not exceed 10 percent opacity, except for during startup, shutdown or periods of part load operation, at which time visible emissions shall not exceed 20 percent opacity.

[AC 49-205703 (PSD-FL-182)]

**B.5.** The maximum allowable emissions from Unit 2 shall not exceed the emission limitations listed below.

Pollutant	Gas	Emission Limits		Basis
		Number 2 Fuel Oil	Equivalent Emissions Tons/Year <sup>a, b</sup>	
NO <sub>x</sub> <sup>c</sup>	15 ppmvd at 15% oxygen on a dry basis	42 ppmvd at 15% oxygen on a dry basis	290.6	BACT
SO <sub>2</sub>	nil	52 lb/hr	26	BACT
PM	0.010 lb/mmBtu	0.0162 lb/mmBtu	41.2	BACT
H <sub>2</sub> SO <sub>4</sub>	nil	5.72 lb/hr	2.86	BACT
VOC	2 lb/hr	5 lb/hr	10.26	BACT
CO	20 ppmvd	20 ppmvd	242	BACT
Opacity	10% (see B.4.)	10% (see B.4.)		BACT
Be <sup>d</sup>	nil	2.5e-6 lb/mmBtu	< 1	BACT
As <sup>d</sup>	nil	4.2e-6 lb/mmBtu	< 1	AC 49-205703
Hg <sup>d</sup>	nil	3.0e-6 lb/mmBtu	< 1	AC 49-205703
Pb <sup>d</sup>	nil	2.8e-5 lb/mmBtu	< 1	AC 49-205703

- a. Tons per year based on 7760 hrs/yr for natural gas firing, 1000 hrs/yr for number 2 fuel oil firing.
- b. Based on 928 mmBtu/hr for number 2 fuel oil and 869 mmBtu/hr for natural gas.
- c. NO<sub>x</sub> emission limits were permitted to be 25 ppmvd while firing natural gas until 1/1/98 via original application.
- d. Limits based upon an approved emission factor, which is subject to change in the future.

**B.6. Annual Compliance Tests.** Emission testing for visible emissions and NO<sub>x</sub> shall be performed annually, in accordance with specific condition **B.8.**, with the fuel(s) used for more than 400 hours in the preceding 12-month period. Tests shall be conducted using the following EPA reference methods in accordance with 40 CFR 60, Appendix A:

- a. Method 9 for VE;
- b. Method 20 for NO<sub>x</sub>.

Annual compliance with the NO<sub>x</sub> standard may be determined by using data collected as part of the annual Relative Accuracy Test Audit (RATA) testing as described in 40 CFR 60 Appendix B. Performance Specification 2. Section 7.1.2. instead of performing Methods 7E and 20 as separate tests. EPA Method 10 will be conducted simultaneously with the NO<sub>x</sub>/ O<sub>2</sub> RATA tests. The 20-30 minute tests conducted for the RATA testing will be strung together in a manner that fulfills additional requirements of EPA Methods 10 and 20 as to test run time (3 one hour runs) and O<sub>2</sub> stratification investigation. The collected data will be bias corrected to comply with the RATA test requirements, but will not be bias corrected for compliance with NSPS so as to meet the requirements of methods 10 and 20 (the NSPS test methods). No less than eight test points will be used for the RATA testing which will comply with both the RATA test requirements and the NSPS test requirements. The NO<sub>x</sub> span for methods 20 and 7E should not exceed 50 ppm instead of a span of 300 ppm as required by Subpart GG. Mass emissions of NO<sub>x</sub> and CO shall be determined pursuant to the procedures in 40 CFR 60, Appendix A. Method 19 or 40 CFR 75, Appendix F. If the unit is not operating because of scheduled maintenance outages and emergency repairs, it will be tested within thirty days of returning to service.

Note: Measured NO<sub>x</sub> emissions will be ISO corrected for comparison with NSPS, but will not be ISO corrected for comparison with the BACT standard.

[Rules 62-297.401 and 62-213.440, F.A.C.; and AC 49-205703 (PSD-FL-182)]

**B.7. Testing for PM, CO, VOC.** Particulate matter tests shall be conducted using EPA test methods 5 or 17. Alternatively, the opacity emissions test may be used unless the 10% opacity limit is exceeded. Carbon monoxide tests shall be conducted using EPA test method 10. VOC tests shall be conducted using EPA test method 25A.

[Rule 62-297.401, F.A.C.; and AC 49-205703 (PSD-FL-182)]

**B.8. Additional Test Requirements.** Test results shall be the average of three valid runs. Testing of emissions shall be conducted with the emissions unit operating at permitted capacity, which is defined as 95-100 percent of the maximum heat input rate allowed by this permit, achievable for the average ambient air temperature during the test.. If it is impracticable to test at permitted capacity, the emissions unit may be tested at less than permitted capacity. In such cases, subsequent operation is limited by adjusting downward the entire heat input vs. inlet temperature curve by the increment equal to the difference between the maximum permitted heat input value and 105 percent of the value reached during the test. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. Data, curves, and calculations necessary to demonstrate the heat input rate correction at both design and test conditions shall be submitted to the Dept. with the compliance test report.

[AC 49-205703 (PSD-FL-182)]

**B.9. Sulfur Dioxide - Sulfur Content.** **The permittee elected to use fuel sampling and analysis in lieu of installing a continuous monitoring system for SO<sub>2</sub> as required by the NSPS.** This protocol is allowed because the emissions unit does not have an operating flue gas desulfurization device. The permittee shall demonstrate compliance with the SO<sub>2</sub> limit by EPA test method 8 or fuel sampling and analysis. The permittee shall demonstrate compliance with the gaseous fuel

sulfur limit via record keeping. Excess emissions shall be reported if the fuel being fired in the gas turbine exceeds 0.05% sulfur by weight.  
[AC 49-205703 (PSD-FL-182)]

**B.10. Fuel Sampling & Analysis - Sulfur/Nitrogen and Lower Heating Value.** The following fuel sampling and analysis program shall be used to demonstrate compliance with the sulfur dioxide standard:

- a. Determine and record the as-fired fuel sulfur content, percent by weight, for liquid fuels using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest editions, to analyze a representative sample of the blended fuel following each fuel delivery. ASTM D3246-81, or its latest edition, shall be used for sulfur content of gaseous fuel.
- b. Record daily the amount of each fuel fired, density of each fuel, heating value, nitrogen content and the percent sulfur content by weight of fuel oil as specified in 40 CFR 60.334.  
[Rule 62-213.440, F.A.C.; and AC 49-205703 (PSD-FL-182)]

### **Monitoring of Operations**

**B.11 Continuous Monitoring Required.** A continuous monitoring system shall be maintained to record fuel consumption. A continuous monitoring system shall be maintained to record emissions of nitrogen oxides in accordance with the requirements of 40 CFR 75. Data collected from this system shall be used for periodic monitoring purposes. While water injection is being utilized for NO<sub>x</sub> control, water to fuel ratio and fuel bound nitrogen is not required to be continuously monitored as long as the permittee will report excess emissions using the data collected by the continuous monitoring system in accordance with the following conditions:

1. Each NO<sub>x</sub> CEMS must be capable of calculating NO<sub>x</sub> emissions concentrations corrected to 15% O<sub>2</sub> and ISO conditions.
2. Monitor data availability shall be no less than 95 percent on a quarterly basis.
3. NO<sub>x</sub> CEMS should provide at least 4 data points for each hour and calculate a one-hour average.

To implement condition 1, KUA shall use ambient data (temperature, relative humidity, pressure) to correct excess emissions data to ISO conditions if requested by the Department. If monitor availability drops below 95% on a quarterly basis as prescribed in condition 2, KUA shall use water to fuel ratio and fuel-bound nitrogen data to monitor excess emissions in subsequent quarters until the minimum CEMS monitor availability is above 95%. The use of CEMS to monitor excess emissions is more stringent than the surrogate parameter monitoring in 40 CFR 60.334 since the CEMS directly measures NO<sub>x</sub> emissions. The CEMS also provides monitoring when no water injection is used to control NO<sub>x</sub> emissions (i.e., when firing natural gas, dry low NO<sub>x</sub> burners are used).

[AC 49-205703 (PSD-FL-182)]

**B.12. Excess Emissions by CEMS.** The CEMS shall be used to determine periods of excess emissions as per 40 CFR 60.334. Excess emissions are defined for this emissions unit as any 60-minute period during which the average emissions exceed the emission limits of specific condition **B.5.** of this permit. Excess emissions from the combustion turbine caused entirely or in part by the operation of the inlet air fogging system shall also be prohibited. Periods of startup, shutdown and malfunction shall be monitored, recorded and reported with excess emissions following the format and requirements of 40 CFR 60.7.

[AC49-205703 (PSD-FL-182); 0970043-008-AC (PSD-FL-182I); and 0970043-009-AV, Revised on 10/13/00]

**Recordkeeping and Reporting Requirements**

**B.13. Excess Emission Reports.** Semi-annual excess emission reports shall be submitted to the DEP's Central District Office. These reports shall be postmarked by the 30th day following the last day of June and the last day of December. Each excess emission report shall include the information required in 40 CFR 60.7(c) and 60.334.

[AC 49-205703 (PSD-FL-182)]

**B.14. Natural Gas Sulfur Content Records Required.** The owner or operator shall receive and maintain records of sulfur content of natural gas provided by the natural gas supplier, as per 40 CFR 60.334. The records shall report total sulfur content in terms of grains of sulfur per hundred cubic feet (standard conditions).

[AC 49-205703 (PSD-FL-182)]

**B.15. Additional Reports Required.** The owner or operator shall report the following with the Annual Operating Report (AOR) by March 1 of each calendar year: sulfur and nitrogen contents, by weight, and lower heating value of the fuel oil being fired, annual fuel consumption of number 2 fuel oil and natural gas, hours of operation per fuel usage and air emission limits.

[Rule 62-210.370(3), F.A.C.; and AC 49-205703 (PSD-FL-182)]

**Other Conditions**

**B.16. Maintain Capability to install an SCR.** This emissions unit is permitted for maximum NO<sub>x</sub> emission levels of 15 (gas)/42 (oil) ppmv. The Department will revise permitted emission levels for NO<sub>x</sub> if the manufacturer achieves an even lower NO<sub>x</sub> emission, pursuant to F.A.C. Rule 62-4.080. The permittee shall maintain capability for future installation of a selective catalytic reduction (SCR) system. This is required in the event that the permittee is unable to comply with the permitted NO<sub>x</sub> levels and the Department requires an SCR to be installed. In the event an SCR system is required to be installed, the emission limitations shall be established at the time of installation by stack test results and through a revised determination of BACT.

[AC 49-205703 (PSD-FL-182)]

**B.17.** This emissions unit is also subject to conditions C.1. through C.13, contained in **Subsection C., Common Conditions.**

**B.18.** This emissions unit is also subject to conditions D.1. through D.6., contained in **Subsection D., NSPS Common Conditions.**

**Subsection C. Common Conditions.**

E.U. ID No.	Brief Description
001	Simple-Cycle Combustion Turbine (Unit 001), rated at 40 MW, 367 mmBtu/hr for natural gas and 372 mmBtu/hr for number 2 fuel oil, capable of burning any combination of natural gas and number 2 fuel oil, with emissions exhausted through a 65 ft. stack .
002	Combined-Cycle Combustion Turbine (Unit 002), rated at 120 MW, 869 mmBtu/hr for natural gas and 928 mmBtu/hr for number 2 fuel oil, capable of burning any combination of natural gas and number 2 fuel oil, with emissions exhausted through a 75 ft. stack .
003 005	Combined-Cycle Combustion Turbine (Unit 003), with duct burner (Unit 005), rated at 250 MW, 1696 mmBtu/hr for natural gas and 1910 mmBtu/hr for number 2 fuel oil, and capable of burning any combination of natural gas and number 2 fuel oil. Emissions are exhausted through a 100 ft. stack for simple-cycle operation, and a 130 ft. stack for combined-cycle operation.

**The following conditions apply to the emissions unit(s) listed above:**

**Essential Potential to Emit (PTE) Parameters**

**C.1. Restricted Operation.** Unit No. 1 shall operate no more than 5000 hours during any consecutive 12 months. Operation of Unit No. 2 is not restricted (8,760 hours/year). In addition, the combined NOx emissions of Unit Nos. 1 and 2 shall not exceed 366.1 tons during any consecutive 12 months. Compliance with this requirement shall be demonstrated each month with NOx emissions data collected from the installed CEMS. Records shall be maintained on site demonstrating compliance with this cap for each consecutive 12-month period. Additionally, the annual submittal of each Annual Operating Report shall include such data and calculations. {Permitting Note: Revised by Project No. 0970043-009-AV on 10/13/00 to incorporate previous Project No. 0970043-007-AC that modified original permit PSD-FL-182. This action set a final NOx limit for Unit No. 1 of 25 ppmvd with a corresponding reduction in annual hours of operation from 8760 to 5000 and established the NOx emissions cap.} [Rule 62-210.200(PTE), F.A.C.; 0970043-007-AC (PSD-FL-182A); 0970043-009-AV, Revised on 10/13/00.]

**Emission Limitations and Standards**

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**Excess Emissions**

{Permitting note: The excess emissions rule at 62-210.700, F.A.C., cannot vary any requirement of a NSPS, NESHAP, or Acid Rain program provision.}

**C.2. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing:**

- (1) best operational practices to minimize emissions are adhered to and
- (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

[Rule 62-210.700(1), F.A.C.]

**C.3. Excess emissions** which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.  
[Rule 62-210.700(4), F.A.C.]

#### **Monitoring of Operations**

##### **C.4. Determination of Process Variables.**

(a) **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.; and PSD-FL-254, Specific Condition 50.]

**C.5. Visible Emissions.** The test method for visible emissions for emissions units 001 (Unit 1), 002 (Unit 2), and 003 (Unit 3) shall be EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C.

[Rules 62-204.800 and 62-297.401, F.A.C.]

**C.6. Required Number of Test Runs.** For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

[Rule 62-297.310(1), F.A.C.]

**C.7. Calculation of Emission Rate.** The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

**C.8. Operating Rate During Testing.** Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 95 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 105 percent of the test load until a new



test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rule 62-297.310(2), F.A.C.]

**C.9. Applicable Test Procedures.**

**(a) Required Sampling Time.**

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

**(b) Minimum Sample Volume.** Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

**(c) Required Flow Rate Range.** For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

**(d) Calibration of Sampling Equipment.** Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.

**(e) Allowed Modification to EPA Method 5.** When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

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

**C.10. Required Stack Sampling Facilities.** When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit.

[Rule 62-297.310(6), F.A.C.]

**Recordkeeping and Reporting Requirements**

**C.11. Excess Emissions - Notification.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Central District Air Section in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a semi-annual report, if requested by the Central District Air Section.

[Rule 62-210.700(6), F.A.C.]

**C.12. Excess Emissions - Report.** Submit to the Central District Air Section a written report of emissions in excess of emission limiting standards as set forth in this permit, for each semi-annual period. The nature and cause of the excess emissions shall be explained. This report does not relieve the owner or operator of the legal liability for violations.

[Rule 62-213.440, F.A.C.; and AC 49-205703 (PSD-FL-182)]

**C.13. Test Reports.**

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Central District Air Section on the results of each such test.

(b) The required test report shall be filed with the Central District Air Section as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Central District Air Section to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

**C.14. Frequency of Compliance Tests.**

The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

a. Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

c. Each NESHAP pollutant, if there is an applicable emission standard.

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid fuel, other than during startup, for a total of more than 400 hours.

9. The owner or operator shall notify the Central District at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the DEP, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the DEP.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard

(d) of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.

[Rule 62-297.310(7), F.A.C.]

**C.15.** By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

- a. only gaseous fuel(s); or
- b. gaseous fuel(s) in combination with any amount of liquid fuel(s) for less than 400 hours per year; or
- c. only liquid fuel(s) for less than 400 hours per year.

[Rule 62-297.310(7)(a)4., F.A.C.]

**Subsection D. NSPS Common Conditions.**

E.U. ID No.	Brief Description
001	Simple-Cycle Combustion Turbine Unit 1, rated at 40 MW, 367 mmBtu/hr for natural gas and 372 mmBtu/hr for number 2 fuel oil, capable of burning any combination of natural gas and number 2 fuel oil, with emissions exhausted through a 65 ft. stack .
002	Combined-Cycle Combustion Turbine Unit 2, rated at 120 MW, 869 mmBtu/hr for natural gas and 928 mmBtu/hr for number 2 fuel oil, capable of burning any combination of natural gas and number 2 fuel oil, with emissions exhausted through a 75 ft. stack .
003 005	Combined-Cycle Combustion Turbine Unit 003 with duct burner (Unit 005), rated at 250 MW, 1696 mmBtu/hr for natural gas and 1910 mmBtu/hr for number 2 fuel oil, and capable of burning any combination of natural gas and number 2 fuel oil. Emissions are exhausted through a 100 ft. stack for simple-cycle operation, and a 130 ft. stack for combined-cycle operation.

{Permitting Note: The emissions units above are subject to the following conditions from 40 CFR 60 Subpart A, General Provisions. The affected units to which this subpart applies are the simple-cycle combustion turbine, Unit 001, the combined-cycle combustion turbine, Unit 002, and the combined-cycle combustion turbine, Unit 003.}

**The following conditions apply to the NSPS emissions units listed above:**

**D.1. Pursuant to 40 CFR 60.7 Notification And Record Keeping.**

(a) Any owner or operator subject to the provisions of this part shall furnish the Administrator written notification as follows:

(4) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

(b) The owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(c) The owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see 40 CFR 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case semi-annual reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

(d) The summary report form shall contain the information and be in the format shown in Figure 1 unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

*[See Attached Figure 1-Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance]*

(f) The owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7 and Rule 62-213.440(1)(b)2.b., F.A.C.]

#### **D.2. Pursuant to 40 CFR 60.8 Performance Tests.**

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart.

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining

compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

[40 CFR 60.8]

**D.3. Pursuant to 40 CFR 60.11 Compliance With Standards And Maintenance Requirements.**

(a) Compliance with standards in this part, other than opacity standards, shall be determined in accordance with performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.

(b) Compliance with opacity standards in this part shall be determined by conducting observations in accordance with Reference Method 9 in appendix A of this part, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).

(c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

(d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(e)(5) The owner or operator of an affected facility subject to an opacity standard may submit, for compliance purposes, continuous opacity monitoring system (COMS) data results produced during any performance test required under 40 CFR 60.8 in lieu of Method 9 observation data. If an owner or operator elects to submit COMS data for compliance with the opacity standard, he shall notify the Administrator of that decision, in writing, at least 30 days before any performance test required under 40 CFR 60.8 is conducted. Once the owner or operator of an affected facility has notified the Administrator to that effect, the COMS data results will be used to determine opacity compliance during subsequent tests required under 40 CFR 60.8 until the owner or operator notifies the Administrator, in writing, to the contrary. For the purpose of determining compliance with the opacity standard during a performance test required under 40 CFR 60.8 using COMS data, the minimum total time of COMS data collection shall be averages of all 6-minute continuous periods within the duration of the mass emission performance test. Results of the COMS opacity determinations shall be submitted along with the results of the performance test required under 60.8. The owner or operator of an affected facility using a COMS for compliance purposes is responsible for demonstrating that the COMS meets the requirements specified in 40 CFR 60.13(c), that the COMS has been properly maintained and operated, and that the resulting data have not been altered in any way. If COMS data results are submitted for compliance with the opacity standard for a period of time during which Method 9 data indicates noncompliance, the Method 9 data will be used to determine opacity compliance.

[40 CFR 60.11]

**D.4. Pursuant to 40 CFR 60.12 Circumvention.**

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

**D.5. Pursuant to 40 CFR 60.13 Monitoring Requirements.**

(a) For the purposes of this section, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.

(c) If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under 40 CFR 60.11(e)(5), he/she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40 CFR 60 before the performance test required under 40 CFR 60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under 40 CFR 60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40 CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under 40 CFR 60.8 and as described in 40 CFR 60.11(e)(5), shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40 CFR 60.13(c) at least 10 days before the performance test required under 40 CFR 60.8 is conducted.

(2) Except as provided in 40 CFR 60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

(d)(1) Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

(2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an



upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photo detector assembly.

(e) Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40 CFR 60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(f) All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of appendix B of 40 CFR 60 shall be used.

(g) When the effluents from a single affected facility or two or more affected facilities subject to the same emission standards are combined before being released to the atmosphere, the owner or operator may install applicable continuous monitoring systems on each effluent or on the combined effluent. When the affected facilities are not subject to the same emission standards, separate continuous monitoring systems shall be installed on each effluent. When the effluent from one affected facility is released to the atmosphere through more than one point, the owner or operator shall install an applicable continuous monitoring system on each separate effluent unless the installation of fewer systems is approved by the Administrator. When more than one continuous monitoring system is used to measure the emissions from one affected facility (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required from each continuous monitoring system.

(h) Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in 40 CFR 60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorder during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non-reduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).

[40 CFR 60.13]

#### **D.6. Pursuant to 40 CFR 60.17 Incorporations by Reference.**

The materials listed below are incorporated by reference in the corresponding sections noted.

[Note: The remainder of this section has not been reproduced in this permit for brevity. See 40 CFR 60.17 for materials incorporated by reference.]

[40 CFR 60.17]

**Subsection E. This section addresses the following emissions units.**

<b>E.U. ID Nos.</b>	<b>Brief Description</b>
003 005	These units are comprised of a combined-cycle combustion turbine plant that includes (a) a stationary gas turbine (Unit 003), (b) a supplementary gas-fired heat recovery steam generator (HRSG) with duct burner (Unit 005), and (c) a steam turbine. The plant is rated at 250 MW, 1696 mmBtu/hr for natural gas and 1910 mmBtu/hr for number 2 fuel oil, and capable of burning any combination of natural gas and number 2 fuel oil. Emissions are exhausted through a 100 ft. stack for simple-cycle operation, and a 130 ft. stack for combined-cycle operation.

{Permitting Notes: The combustion turbine is regulated under Phase II of the federal Acid Rain Program; Rule 62-210.300, F.A.C., Permits Required; and, is subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. The HRSG equipped with a natural gas fired 44 mmBTU/hr duct burner (HHV) and 80-90 MW steam electrical generator shall comply with all applicable provisions of 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial Commercial-Institutional Steam Generating Units Which Construction is Commenced After September June 9, 1989, adopted by reference in Rule 62-204.800(7), F.A.C.}

*Simple-cycle control technology* includes (a) dry low nitrogen oxides (NOx) (DLN) combustors to control NOx emissions during periods of natural gas use, and (b) a water injection system to control NOx emissions during periods of distillate fuel oil use.

*Combined-cycle control technology* includes (a) a selective catalytic reduction system (SCR) to control NOx emissions, (b) DLN combustors to control NOx emissions during periods of natural gas use, and (c) a water injection system to control NOx emissions during periods of distillate fuel oil use. Because a continuous emissions monitoring system (CEMS) is used to demonstrate compliance for NO<sub>x</sub>, a compliance assurance monitoring (CAM) plan is not required for the SCR system.

The turbine began commercial operation in 2001.

**The following specific conditions apply to the emissions unit listed above:**

**Essential Potential to Emit (PTE) Parameters**

**E.1. Combustion Turbine Capacity.** The maximum heat input rates, based on the lower heating value (LHV) of each fuel to this Unit at ambient conditions of 19°F temperature, 55% relative humidity, 100% load, and 14.7 psi pressure shall not exceed 1,696 million Btu per hour (mmBtu/hr) when firing natural gas, and not exceed 1,910 mmBtu/hr when firing No. 2 or superior grade of distillate fuel oil. These maximum heat input rates will vary depending upon ambient conditions and the combustion turbine characteristics. Manufacturer's curves corrected for site conditions or equations for correction to other ambient conditions were required to be provided to the Department of Environmental Protection (DEP) within 45 days of completing the initial compliance testing by the permittee.

[Rule 62-210.200, F.A.C. (Definitions - Potential Emissions); and PSD-FL-254, Specific Condition 10.]

**E.2. Heat Recovery Steam Generator equipped with Duct Burner.** The maximum heat input rate of the natural gas fired duct burner shall not exceed 44 mmBtu/hour (HHV).

[Rule 62-210.200, F.A.C. (Definitions - Potential Emissions); and PSD-FL-254, Specific Condition 11.]

{Permitting Note: The heat input limitations have been placed in each permit to identify the capacity of each emissions unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the emission unit's rated capacity (or to limit future operation to 105 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability.}

[Rules 62-4.160(2), 62-210.200(PTE), F.A.C.; and PSD-FL-254.]

**E.3. Emissions Unit Operating Rate Limitation After Testing.** See Specific Condition C.8.

[Rule 62-297.310(2), F.A.C.]

### **Methods of Operation**

**E.4. Operating Procedures.** Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment.

[Rule 62-4.070(3), F.A.C.; and PSD-FL-254, Specific Condition 14.]

**E.5. Circumvention.** The owner or operator shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly.

[Rule 62-210.650, F.A.C.; and PSD-FL-254, Specific Condition 15.]

**E.5.1. Maximum allowable hours** of operation for the 250 MW Combined-Cycle Unit are 8760 hours per year while firing natural gas. Fuel oil firing of the combustion turbine is permitted for a maximum of 720 hours per year.

[Rule 62-210.200, F.A.C. (Definitions - Potential Emissions); PSD-FL-254, Specific condition 16.]

**E.5.2. Simple-Cycle Operation.** The plant may be operated in simple-cycle mode. Different limits apply depending upon whether simple-cycle operation is of an intermittent nature (e.g., caused by maintenance of equipment following the combustion turbine, or temporary electrical demand fluctuations), or long-term electrical demand situations.

[PSD-FL-254, Specific Condition 17.]

**E.6. Fuels.** Only pipeline natural gas or a maximum of 0.05 percent, by weight, sulfur fuel oil (No. 2 or superior grade of distillate fuel oil) shall be fired in this unit.

[Rule 62-210.200, F.A.C. (Definitions - Potential Emissions); and PSD-FL-254, Specific Condition 9.]

### **Control Technology**

**E.7. Dry Low NO<sub>x</sub> (DLN) combustors** are installed on the stationary combustion turbine to comply with the simple-cycle NO<sub>x</sub> emissions limits listed in Specific Condition E.13.

[Rules 62-4.070 and 62-212.400, F.A.C.; and PSD-FL-254, Specific Condition 18.]

**E.8.** A water injection system is installed for use when firing No. 2 or superior grade distillate fuel oil for control of NO<sub>x</sub> emissions.  
[Rules 62-4.070 and 62-212.400, F.A.C.; and PSD-FL-254, Specific Condition 19.]

**E.9.** A selective catalytic reduction (SCR) system is installed to comply with the combined-cycle NO<sub>x</sub> limit listed in Specific Condition **E.13**.  
[PSD-FL-254, Specific Condition 20.]

**E.10.** These units are designed to accommodate adequate testing and sampling locations for compliance with the applicable emission limits (per each unit) listed in Specific Conditions **E.13** through **E.17**.  
[Rules 62-4.070 and 62-204.800, F.A.C.; 40 CFR60.40a(b); and PSD-FL-254, Specific Condition 21.]

**E.11.** The permittee shall provide manufacturer's emissions performance versus load diagrams for the DLN and wet injection systems prior to their installation. DLN systems shall each be tuned upon initial operation to optimize emissions reductions and shall be maintained to minimize simple-cycle NO<sub>x</sub> emissions and CO emissions.  
[Rules 62-4.070 and 62-210.650 F.A.C.; and PSD-FL-254, Specific Condition 22.]

**E.12.** Drift eliminators are installed on the cooling tower to reduce PM/PM<sub>10</sub> emissions.  
[PSD-FL-254, Specific Condition 23.]

### **Emission Limitations and Standards**

{Permitting note: Unless otherwise specified, the averaging times for Specific Conditions **E.13** through **E.17**. are based on the specified averaging time of the applicable test method.}

#### **E.13. Nitrogen Oxides.**

##### *A. Combined-Cycle Operation*

- The concentration of NO<sub>x</sub> in the stack exhaust gas, with the combustion turbine operating on gas (fuel oil) and the duct burner on or off, shall not exceed 3.5 (15) ppmvd @15% O<sub>2</sub> on a 3-hr block average. Compliance shall be determined by the continuous emission monitor (CEMS). Emissions of NO<sub>x</sub> calculated as NO<sub>2</sub> in the stack exhaust gas (at ISO conditions) with the combustion turbine operating shall not exceed 26 (108) pounds per hour (lb/hr) with the duct burner on or off to be demonstrated by *initial* stack test.
- The concentration of ammonia in the exhaust gas from each combustion turbine shall not exceed 5 ppmvd @15% O<sub>2</sub>. The compliance procedures are described in Specific Condition **E.21**. [Rules 62-212.400 and 62-4.070, F.A.C.]
- When NO<sub>x</sub> monitoring data are not available, substitution for missing data shall be handled as required by Title IV (40 CFR 75) to calculate any specified average time.

##### *B. Intermittent Simple-Cycle Operation*

The concentration of NO<sub>x</sub> in the stack exhaust gas, with the combustion turbine operating on gas (fuel oil) shall not exceed 12 (42) ppmvd at 15% O<sub>2</sub> (24-hr block average). Emissions of NO<sub>x</sub> in the stack exhaust gas (at ISO conditions) with the combustion turbine operating shall not exceed 86 (310) pounds per hour (lb/hr). [Rule 62-212.400, F.A.C.]

- Notwithstanding the applicable NO<sub>x</sub> limit during simple-cycle operation, reasonable measures shall be implemented to maintain the concentration of NO<sub>x</sub> in the exhaust gas at 9 ppmvd at 15% O<sub>2</sub> or lower. Any tuning of the combustors for Dry Low NO<sub>x</sub> operation while firing gas shall result in initial subsequent NO<sub>x</sub> concentrations of 9 ppmvd @15% O<sub>2</sub> or lower.  
[Rules 62-212.400 and 62-4.070, F.A.C.]
- When NO<sub>x</sub> monitoring data are not available, substitution for missing data shall be handled as required by Title IV (40 CFR 75) to calculate any specified average time.

**C. Continuous Simple-Cycle Operation**

- The concentration of NO<sub>x</sub> in the stack exhaust gas, with the combustion turbine operating on gas (fuel oil) shall not exceed 9 (42) ppmvd at 15% O<sub>2</sub> (24-hr block average). Emissions of NO<sub>x</sub> in the stack exhaust gas (at ISO conditions) with the combustion turbine operating shall not exceed 65 (310) pounds per hour (lb/hr). [Rules 62-212.400, F.A.C.]
- Notwithstanding the applicable NO<sub>x</sub> limit during simple-cycle operation, reasonable measures shall be implemented to maintain the concentration of NO<sub>x</sub> in the exhaust gas at 9 ppmvd at 15% O<sub>2</sub> or lower. Any tuning of the combustors for Dry Low NO<sub>x</sub> operation while firing gas shall result in initial subsequent NO<sub>x</sub> concentrations of 9 ppmvd @15% O<sub>2</sub> or lower. [Rules 62-212.400 and 62-4.070, F.A.C.]
- When NO<sub>x</sub> monitoring data is not available, substitution for missing data shall be handled as required by Title IV (40 CFR 75) to calculate any specified average time.  
[PSD-FL-254, Specific Condition 24.]

**E.14. Carbon Monoxide.** Emissions of CO in the stack exhaust gas (at ISO conditions) with the combustion turbine operating on gas (fuel oil) shall neither exceed 12 (20) ppm, nor exceed 43 (71) lb/hr, with the duct burner off, and neither exceed 20 (30) ppm, nor exceed 71 (108) lb/hr, with the duct burner on, to be demonstrated by stack test using EPA Method 10.  
[Rule 62-212.400, F.A.C.; and PSD-FL-254, Specific Condition 25.]

**E.15. Volatile Organic Compounds.** Emissions of VOC in the stack exhaust gas (at ISO conditions) with the combustion turbine operating on gas (fuel oil) shall neither exceed 1.4 (10) ppm, nor exceed 3 (21.4) lb/hr, with the duct burner off, and neither exceed 4 (10) ppm, nor exceed 8.5 (21.4) lb/hr, with the duct burner on, to be demonstrated by *initial* stack test using EPA Method 18, 25 or 25A. No annual testing is required.  
[Rule 62-212.400, F.A.C.; and PSD-FL-254, Specific Condition 26.]

**E.16. Sulfur Dioxide.** SO<sub>2</sub> emissions shall be limited by firing pipeline natural gas (sulfur content less than 20 grains per 100 standard cubic foot), or by firing No. 2 or superior grade distillate fuel oil with a maximum 0.05 percent sulfur, by weight, for 720 hours per year. Compliance with this requirement in conjunction with implementation of the Custom Fuel Monitoring Schedule in Specific Conditions **E.32.** and **E.33.** will demonstrate compliance with the applicable NSPS SO<sub>2</sub> emissions limitations from the duct burner or the combustion turbine. Emissions of SO<sub>2</sub> shall not exceed 38.1 tons per year.  
[40 CFR 60 Subpart GG and Rules 62-4.070, 62-212.400, and 62-204.800(7), F.A.C. to avoid PSD Review; and PSD-FL-254, Specific Condition 27.]

**E.17. Visible Emissions.** VE emissions shall serve as a surrogate for PM/PM<sub>10</sub> emissions from the combustion turbine operating with or without the duct burner, and shall not exceed 10 percent opacity from the stack in use.

[Rules 62-4.070, 62-212.400, and 62-204.800(7), F.A.C.; and PSD-FL-254, Specific Condition 28.]

**Excess Emissions**

**E.18.** Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized. Excess emissions occurrences shall in no case exceed two hours in any 24-hour period. During any calendar day in which a start-up or shutdown occurs with natural gas as the exclusively fired fuel, an alternative NO<sub>x</sub> limit of 86 lb/hr (310 lb/hr if fuel oil is fired during the calendar day) on the basis of a 24-hour average shall apply.

[Rule 62-210.700, F.A.C.; and PSD-FL-254, Specific Condition 29., as modified on November 26, 2002.]

**E.19. Excess emissions** entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction, shall be prohibited pursuant to Rule 62-210.700, F.A.C. These emissions shall be included in the 24-hr average for NO<sub>x</sub>.

[PSD-FL-254, Specific Condition 30.]

**E.20. Excess Emissions Report.** If excess emissions occur for more than two hours due to malfunction, the owner or operator shall notify DEP's Central District office within (1) working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident. Pursuant to the New Source Performance Standards, all excess emissions shall also be reported in accordance with 40 CFR 60.7, Subpart A. Following this format, 40 CFR 60.7, periods of startup, shutdown, malfunction, shall be monitored, recorded, and reported as excess emissions when emission levels exceed the permitted standards listed in Specific Condition **E.13**.

[Rules 62-4.130, 62-204.800, 62-210.700(6), F.A.C.; 40 CFR 60.7 (1998 version); and PSD-FL-254, Specific Condition 31.]

**Compliance Determination**

**E.21. Selective Catalytic Reduction System (SCR) Compliance Procedures.**

- An *initial* stack emission test for nitrogen oxides and ammonia from the CGT/HRGS pair was conducted: 1) for natural gas firing, and 2) for distillate fuel oil firing. The ammonia injection rate necessary to comply with the NO<sub>x</sub> standard was established during the initial performance tests.
- The SCR equipment shall operate at all times that the combustion turbine is operating in combined-cycle operation mode. The permittee shall, whenever possible, operate the facility in a manner so as to optimize the effectiveness of the SCR unit, while minimizing ammonia slip to below the emission limit.
- The permittee shall operate an ammonia flow meter to measure and record the ammonia injection rate to the SCR system of the CGT/HRSG

set. It shall be maintained and calibrated according to the manufacture's specifications. During the stack test, the permittee at each load condition shall determine the minimum ammonia flow rate required to meet the emissions limitations. During NO<sub>x</sub> CEM downtimes or malfunctions, the permittee shall operate at greater or equal to 100% of the ammonia injection rate determined during the stack test.

[PSD-FL-254, Specific Condition 52.]

**E.22.** Compliance with the allowable emission limiting standards shall be determined annually as indicated in this permit, by using the following reference methods as described in 40 CFR 60, Appendix A (1998 version), and adopted by reference in Chapter 62-204.800, F.A.C.

[PSD-FL-254, Specific Condition 32.]

**E.23.** Annual compliance tests shall be performed during every federal fiscal year (October 1 - September 30) pursuant to Rule 62-297.310(7), F.A.C., on these units as indicated. The following reference methods shall be used. No other test methods may be used for compliance testing unless prior DEP approval is received in writing.

- EPA Reference Method 9, "Visual Determination of the Opacity of Emissions from Stationary Sources".
- EPA Reference Method 10, "Determination of Carbon Monoxide Emissions from Stationary Sources".
- EPA Reference Method 20, "Determination of Oxides of Nitrogen Oxide, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines." Tests must be conducted with the duct burner on and with the duct burner off.
- EPA Method 26A (modified) for ammonia sample collection.
- EPA Draft Method 206 for ion chromatographic analysis for ammonia.

[PSD-FL-254, Specific Condition 33.]

**E.24.** Continuous compliance with the NO<sub>x</sub> emission limits. Continuous compliance with the NO<sub>x</sub> emission limits shall be demonstrated with the CEM system on a 3-hr average basis (a 24-hour block average shall be used to demonstrate compliance with the NO<sub>x</sub> limits when operating under Intermittent Simple-Cycle Operation or Continuous Simple-Cycle Operation). Based on CEMS data, a separate compliance determination is conducted at the end of each 3-hr period and a new average emission rate is calculated from the arithmetic average of all valid hourly emission rates from the previous 3-hr period. Valid hourly emission rates shall not include periods of start up, shutdown, or malfunction unless prohibited by 62-210.700, F.A.C. A valid hourly emission rate shall be calculated for each hour in which at least two NO<sub>x</sub> concentrations are obtained at least 15 minutes apart. These excess emissions periods shall be reported as required in Specific Condition **E.20**.

[Rules 62-4.070 F.A.C., 62-210.700, F.A.C., 40 CFR 75; and PSD-FL-254, Specific Condition 34.]

**E.25.** Compliance with the SO<sub>2</sub> and PM/PM<sub>10</sub> emission limits. Notwithstanding the requirements of Rule 62-297.340, F.A.C., the use of pipeline natural gas, is the method for determining compliance for SO<sub>2</sub> and PM<sub>10</sub>. For the purposes of demonstrating compliance with the 40 CFR 60.333 SO<sub>2</sub> standard, ASTM methods D4084-82 or D3246-81 (or equivalent) for sulfur content of gaseous fuel shall be utilized in accordance with the EPA-approved custom fuel monitoring schedule or natural gas supplier data may be submitted or the natural gas sulfur

content referenced in 40 CFR 75 Appendix D may be utilized. However, the applicant is responsible for ensuring that the procedures in 40 CFR 60.335 or 40 CFR 75 are used when determination of fuel sulfur content is made. Analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency pursuant to 40 CFR 60.335(e) (1998 version).  
[PSD-FL-254, Specific Condition 35.]

**E.26. Compliance with CO emission limit.** An *initial* test for CO, was conducted concurrently with the initial NO<sub>x</sub> test, as required. The initial NO<sub>x</sub> and CO test results shall be the average of three valid one-hour runs. Annual compliance testing for CO may be conducted at less than capacity when compliance testing is conducted concurrent with the annual RATA testing for the NO<sub>x</sub> CEMS required pursuant to 40 CFR 75. As an alternative to annual testing in a given year, periodic tuning data shall be provided to demonstrate compliance in the year the tuning is conducted.

[PSD-FL-254, Specific Condition 36.]

**E.26.1 Compliance with the VOC emission limit.** An *initial* test was required to demonstrate compliance with the VOC emission limit. Subsequently, the CO emission limit and periodic tuning data shall be employed as surrogate and no annual testing is required.

[PSD-FL-254, Specific Condition 37.]

**E.27. Testing procedures.** Testing of emissions shall be conducted with the combustion turbine operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum heat input rate allowed by the permit, corrected for the average ambient air temperature during the test (with 100 percent represented by a curve depicting heat input vs. ambient temperature). If it is impracticable to test at permitted capacity, the source may be tested at less than permitted capacity. In this case, subsequent operation is limited by adjusting the entire heat input vs. ambient temperature curve downward by an increment equal to the difference between the maximum permitted heat input (corrected for ambient temperature) and 105 percent of the value reached during the test until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity. Procedures for these tests shall meet all applicable requirements (i.e., testing time frequency, minimum compliance duration, etc.) of Chapters 62-204 and 62-297, F.A.C.

[PSD-FL-254, Specific Condition 38.]

### **Monitoring of Operations**

**E.28. Continuous Monitoring System.** The permittee shall calibrate, maintain, and operate a continuous emission monitor in the stack to measure and record the NO<sub>x</sub> from these units. Periods when NO<sub>x</sub> emissions (ppmvd @ 15% oxygen) are above the permitted limits, listed in Specific Condition E.13. (other than those allowed for in Specific Condition E.18.) shall be reported to the DEP Central District Office within one working day (verbally) followed up by a written explanation not later than three (3) working days (alternatively by facsimile within one working day).

[Rules 62-204.800, 62-210.700, 62-4.130, 62-4.160(8), F.A.C.; 40 CFR 60.7 (1998 version); and PSD-FL-254, Specific Condition 44., as modified on November 26, 2002.]



**E.29. CEMS for reporting excess emissions.** The NO<sub>x</sub> CEMS shall be used in lieu of the requirement for reporting excess emissions in accordance with 40 CFR 60.334(c)(1), Subpart GG (1998 version). Upon request from DEP, the CEMS emission rates for NO<sub>x</sub> on the CT shall be corrected to ISO conditions to demonstrate compliance with the NO<sub>x</sub> standard established in 40 CFR 60.332.

[EPA approval letter dated February 10, 1999; and PSD-FL-254, Specific Condition 45.]

**E.30. CEMS in lieu of Water to Fuel Ratio.** The NO<sub>x</sub> CEMS shall be used in lieu of the water/fuel monitoring system for reporting excess emissions in accordance with 40 CFR 60.334(c)(1), Subpart GG (1998 version). Subject to EPA approval, the calibration of the water/fuel monitoring device required in 40 CFR 60.335 (c)(2) (1998 version) will be replaced by the 40 CFR 75 certification tests of the NO<sub>x</sub> CEMS. Upon request from DEP, the CEMS emission rates for NO<sub>x</sub> on this Unit shall be corrected to ISO conditions to demonstrate compliance with the NO<sub>x</sub> standard established in 40 CFR 60.332.

[EPA Approval dated February 10, 1999; and PSD-FL-254, Specific Condition 46.]

**E.31. Continuous Monitoring System Reports.** The monitoring devices shall comply with the certification and quality assurance, and any other applicable requirements of Rule 62-297.520, F.A.C., 40 CFR 60.13, including certification of each device in accordance with 40 CFR 60, Appendix B, Performance Specifications and 40 CFR 60.7(a)(5) or 40 CFR 75. Quality assurance procedures must conform to all applicable sections of 40 CFR 60, Appendix F or 40 CFR 75. The monitoring plan, consisting of data on CEM equipment specifications, manufacturer, type, calibration and maintenance needs, and its proposed location shall be provided to the DEP Emissions Monitoring Section Administrator and EPA for review no later than 45 days prior to the first scheduled certification test pursuant to 40 CFR 75.62.

[PSD-FL-254, Specific Condition 47.]

**E.32. Natural Gas Monitoring Schedule.** A custom fuel monitoring schedule pursuant to 40 CFR 75 Appendix D for natural gas may be used in lieu of the daily sampling requirements of 40 CFR 60.334 (b)(2) provided the following requirements are met:

- The permittee shall submit a monitoring plan, certified by signature of the Designated Representative, that commits to using a primary fuel of pipeline supplied natural gas (sulfur content less than 20 gr/100 scf pursuant to 40 CFR 75.11(d)(2)).
- Each unit shall be monitored for SO<sub>2</sub> emissions using methods consistent with the requirements of 40 CFR 75, and certified by the USEPA.

This custom fuel monitoring schedule will only be valid when pipeline natural gas is used as a primary fuel. If the primary fuel for these units is changed to a higher sulfur fuel, SO<sub>2</sub> emissions must be accounted for as required pursuant to 40 CFR 75.11(d).

[PSD-FL-254, Specific Condition 48.]

**E.33. Fuel Oil Monitoring Schedule.** The following monitoring schedule for No. 2 or superior grade fuel oil shall be followed: For all bulk shipments of No. 2 fuel oil received at this facility an analysis which reports the sulfur content and nitrogen content of the fuel shall be provided by the fuel vendor. The analysis shall also specify the methods by which the analyses were conducted and shall comply with the requirements of 40 CFR 60.335(d).

[PSD-FL-254, Specific Condition 49.]

**Recordkeeping and Reporting Requirements**

**E.34. Semi-Annual Reports.** Semi-annual excess emission reports, in accordance with 40 CFR 60.7(a)(7)(c), shall be submitted to the DEP's Central District Office.  
[PSD-FL-254, Specific Condition 14., in Section II.]

**E.35. Test Notification.** The DEP's Central District office shall be notified, in writing, at least 30 days prior to the initial performance tests and at least 15 days before annual compliance test(s).  
[PSD-FL-254, Specific Condition 39.]

**E.36. Special Compliance Tests.** The DEP may request a special compliance test pursuant to Rule 62-297.310(7), F.A.C., when, after investigation (such as complaints, increased visible emissions, or questionable maintenance of control equipment), there is reason to believe that any applicable emission standard is being violated.  
[PSD-FL-254, Specific Condition 40.]

**E.37. Test Results.** Compliance test results shall be submitted to the DEP's Central District office no later than 45 days after completion of the last test run.  
[Rule 62-297.310(8), F.A.C.; and PSD-FL-254, Specific Condition 41:]

**E.38. Records.** All measurements, records, and other data required to be maintained by KUA shall be recorded in a permanent form and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These records shall be made available to DEP representatives upon request.  
[PSD-FL-254, Specific Condition 42.]

**E.39. Compliance Test Reports.** The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the Department to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report shall provide the applicable information listed in Rule 62-297.310(8), F.A.C.  
[PSD-FL-254, Specific Condition 43.]

**E.40. Subpart Dc Requirements.** The permittee shall comply with all applicable requirements of 40 CFR 60, Subpart Dc.  
[PSD-FL-254, Specific Condition 51.]

**Other Specific Conditions**

**E.41.** This emissions unit is also subject to conditions C.1. through C.13., contained in **Subsection C., Common Conditions.**

**E.42.** This emissions unit is also subject to conditions D.1. through D.6., contained in **Subsection D., NSPS Common Conditions.**

**Subsection F. This section addresses the following emissions unit.**

<b>E.U. ID No.</b>	<b>Brief Description</b>
004	Fuel Storage Tank

This fuel storage unit, consisting of a 1.0 million gallon distillate fuel oil storage tank (Unit 004), shall comply with all applicable provisions of 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels, adopted by reference in Rule 62-204.800, F.A.C. [PSD-FL-254, Specific Condition 5.]

**The following conditions apply to the emissions unit listed above:**

**Essential Potential to Emit (PTE) Parameters**

**F.1. Hours of Operation.** This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.  
[Rules 62-4.160(2) and 62-210.200, F.A.C., Definitions - (PTE).]

**Recordkeeping Requirements**

**F.2.** The permittee shall maintain records on site for storage vessel identification number 004 to include the date of construction, the material storage capacity, and type of material stored for the life of this storage vessel.  
[40 CFR 60.116b(b).]

**Section IV. This section is the Acid Rain Part.**

**Operated by:** Kissimmee Utility Authority  
**ORIS code:** 7233

**Subsection A. This subsection addresses Acid Rain, Phase II.**

The emissions units listed below are regulated under Phase II of the federal Acid Rain Program.

<b>E.U. ID No.</b>	<b>Brief Description</b>
001	Simple-Cycle Combustion Turbine (Unit 001)
002	Combined-Cycle Combustion Turbine (Unit 002)
003	Combined-Cycle Combustion Turbine (Unit 003)

**A.1.** The Phase II Part Application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain unit(s) must comply with the standard requirements and special provisions set forth in the application listed below:

**a.** DEP Form No. 62-210.900(1)(a), signed by the Designated Representative on June 7, 1999. [Chapter 62-213, F.A.C., and Rule 62-214.320, F.A.C.]

**A.2.** Sulfur dioxide (SO<sub>2</sub>) allowance allocations for each Acid Rain unit are as follows:

<b>E.U. ID No.</b>	<b>EPA ID</b>	<b>Year</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
001	1	SO <sub>2</sub> allowances to be determined by USEPA	0*	0*	0*	0*	0*
002	2	SO <sub>2</sub> allowances to be determined by USEPA	0*	0*	0*	0*	0*
003	3	SO <sub>2</sub> allowances to be determined by USEPA	N/A	N/A	N/A	0*	0*

\* The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by USEPA.

**A.3.** Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described at Rule 62- 214.370(4), F.A.C., may request such change as provided in Rule 62-213.413, F.A.C., Fast-Track Revisions of Acid Rain Parts. [Rules 62-213.413 and 62-214.370(4), F.A.C.]

**A.4.** Comments, notes, and justifications. None.

**Appendix U-1, List of Unregulated Emissions Units and/or Activities**

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Unregulated Emissions Units and/or Activities. An emissions unit which emits no “emissions-limited pollutant” and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither ‘regulated emissions units’ nor ‘exempt emissions units’.

<b>E.U. ID No.</b>	<b>Brief Description of Emissions Units and/or Activity</b>
007	Distillate Fuel Oil Tank No. 2 (700,000 gal. capacity)
008	Distillate Fuel Oil Tank No. 1 (300,000 gal. capacity)
006	Cooling Tower

Appendix I-1, List of Insignificant Emissions Units and/or Activities

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The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, or that meet the criteria specified in Rule 62-210.300(3)(b)1., F.A.C., Generic Emissions Unit Exemption, are exempt from the permitting requirements of Chapters 62-210, 62-212 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining the potential emissions of the facility containing such emissions units. Emissions units and pollutant-emitting activities exempt from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emissions units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emissions unit shall be entitled to an exemption from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., if its emissions, in combination with the emissions of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

<b>Brief Description of Emissions Units and/or Activities</b>
Natural Gas Fuel Gas Heater.

**Appendix H-1, Permit History/ID Number Changes**

**Permit History (for tracking purposes):**

E.U. ID No.	Description	Permit No.	Issue Date	Expiration Date	Extended Date <sup>1,2</sup>	Revised Date(s)
Unit 1	Simple-Cycle Comb. Turbine, Unit 1	AC49-205703 PSD-FL-182	4/9/93	11/1/96	9/16/94, 5/8/95	
		0970043-004-AC				5/19/97
		970043-003-AC				8/15/97
	Extension of time to lower NOx limit from 25 to 15 ppmvd	0970043-005-AC				12/17/98
	Set NOx limit for Unit 1 at 25 ppmvd, reduce Unit 1 to 5000 hr/yr, establish NOx cap for Units 1 and 2	0970043-007-AC				12/21/99
Unit 2	Combined-Cycle Gas Turbine, Unit 2	AC49-205703 PSD-FL-182	4/9/93	11/1/96	9/16/94, 5/8/95	
		0970043-004-AC				5/19/97
		0970043-003-AC				8/15/97
	Set NOx limit for Unit 1 at 25 ppmvd, reduce Unit 1 to 5000 hr/yr, establish NOx cap for Units 1 and 2	0970043-007-AC				12/21/99
	Added inlet air fogging for Unit 2	0970043-008-AC (PSD-FL-182I)				10/13/00
	Added inlet air fogging for Unit 2 in initial Title V permit	0970043-009-AV	10/13/00	12/31/04		10/13/00
Unit 3	Combined-Cycle Gas Turbine, Unit 3	PSD-FL-254 PA 98-38 0970043-011-AC 0970043-012-AV	11/22/99 11/27/02 Withdrawn	12/31/02		

**ID Number Changes (for tracking purposes):**

From: Facility ID No.: 30ORL490043

To: Facility ID No.: 0970043

Notes:

1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.

2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.

{Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}

{Permitting Note: Revised by Project No. 0970043-009-AV on 10/13/00.}

**Table 1-1, Summary of Air Pollutant Emission Standards**

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID	Brief Description
001	Simple-Cycle Gas Turbine, Unit 1, rated at 40 MW.

Pollutant	Fuel(s)	Hours	Allowable Emissions <sup>a</sup>			Equivalent		Regulatory	See Permit
			Standard(s)	lb/hr	TPY	lb/hr	TPY		
VE	No 2 Oil Nat Gas	5000	10 % opacity					AC 49-205703	A.4.
SO <sub>2</sub>	No 2 Oil Nat Gas	1000	0.05% S by weight, fuel oil	20			10	AC 49-205703	A.9., A.10., A.13.
NO <sub>x</sub> **	No. 2 Fuel Oil	1000	42 ppmvd at 15% oxygen on a dry	63			31.5	AC 49-205703	A.5., C.1
NO <sub>x</sub> **	Natural Gas	5000	25 ppmvd at 15% oxygen dry basis	37			74.0	AC 49-205703	A.5., C.1
PM	No. 2 Fuel Oil	1000	0.0323 lb/MMBtu				12.0	AC 49-205703	A.5., A.7.
PM	Natural Gas	5000	0.0245 lb/MMBtu				9	AC 49-205703	A.5., A.7.
VOC	No. 2 Fuel Oil	1000	3 lb/hour	3			1.5	AC 49-205703	A.5., A.7.
VOC	Natural Gas	5000	1.4 lb/hour	1.4			2.8	AC 49-205703	A.5., A.7.
CO	No. 2 Fuel Oil	1000	63 ppmvd at 15% oxygen on a dry	76			38	AC 49-205703	A.5., A.7.
CO	Natural Gas	5000	30 ppmvd at 15% oxygen on a dry	40			80.0	AC 49-205703	A.5., A.7.
Hg	No. 2 Fuel Oil	1000	3.1 E-6 lb/mmBtu				<1	AC 49-205703	A.5.
As	No. 2 Fuel Oil	1000	4.2 E-6 lb/mmBtu				<1	AC 49-205703	A.5.
Be	No. 2 Fuel Oil	1000	2.5 E-6 lb/mmBtu				<1	AC 49-205703	A.5.
Pb	No. 2 Fuel Oil	1000	2.8 E-5 lb/mmBtu				<1	AC 49-205703	A.5.

Notes for EU 001:

a No. 2 fuel oil firing is limited to 1000 hours per year. Total operation is limited to 5000 hours per year.

<sup>1</sup> The "Equivalent Emissions" listed are for informational purposes only. They are based upon 4000 hours per year of gas operation and 1000 hours per year of #2 oil operation. [Rule 62-213.205, F.A.C.]

\* Firing of number 2 fuel oil is limited to no more than 1000 hours per year to the unit for any reason.

\*\* {Permitting Note: Emissions Units 001 and 002 have a combined NO<sub>x</sub> emissions cap of 366.1 during any consecutive 12 months. Last revised by Project No. 0970043-009-AV on 10/13/00.}



E.U. ID	Brief Description
002	Combined-Cycle Gas Turbine, Unit 2, rated at 120 MW.

Pollutant	Fuel(s)	Hours	Allowable Emissions <sup>a</sup>			Equivalent		Regulatory	See Permit	
			Standard(s)	lb/hr	TPY	lb/hr	TPY			
VE	No 2 Oil Nat Gas	8760	10 % opacity					AC 49-205703	A.4.	
SO <sub>2</sub>	No 2 Oil Nat Gas	1000	0.05% S by weight, fuel oil	52			26	AC 49-205703	A.9., A.10., A.13.	
NO <sub>x</sub>	No. 2 Fuel Oil	1000	42 ppmvd at 15% oxygen on a dry	170			85.0	AC 49-205703	A.15.	
NO <sub>x</sub>	Natural Gas	8760	15 ppmvd at 15% oxygen on a dry	53			205.6	AC 49-205703	A.15.	
PM	No. 2 Fuel Oil	1000	0.0162 lb/MMBtu				15.0	7.5	AC 49-205703	A.5., A.7.
PM	Natural Gas	8760	0.0100 lb/MMBtu				8.7	33.7	AC 49-205703	A.5., A.7.
VOC	No. 2 Fuel Oil	1000	5.0 lb/hour	5			2.5	AC 49-205703	A.5., A.7.	
VOC	Natural Gas	8760	2.0 lb/hour	2			7.76	AC 49-205703	A.5., A.7.	
CO	No. 2 Fuel Oil	1000	20 ppmvd at 15% oxygen on a dry	65			32.5	AC 49-205703	A.5., A.7.	
CO	Natural Gas	8760	20 ppmvd at 15% oxygen on a dry	54			209.5	AC 49-205703	A.5., A.7.	
Hg	No. 2 Fuel Oil	1000	3.0e-6 lb/mmBtu				<1	<1	AC 49-205703	A.5.
As	No. 2 Fuel Oil	1000	4.2e-6 lb/mmBtu				<1	<1	AC 49-205703	A.5.
Be	No. 2 Fuel Oil	1000	2.5e-6 lb/mmBtu				<1	<1	AC 49-205703	A.5.
Pb	No. 2 Fuel Oil	1000	2.8e-5 lb/mmBtu				<1	<1	AC 49-205703	A.5.

Notes for EU 002:

a lb/hour and TPY values based on using number 2 fuel oil for 1000 hours per year; for natural gas using 7760 hours per year.

<sup>1</sup> The "Equivalent Emissions" listed are for informational purposes only. They are based upon 7760 hours per year of gas operation and 1000 hours per year of #2 oil operation. [Rule 62-213.205, F.A.C.]

\* Firing of number 2 fuel oil is limited to no more than 1000 hours per year to the unit for any reason.

{Permitting Note: Emissions Units 001 and 002 have a combined NO<sub>x</sub> emissions cap of 366.1 during any consecutive 12 months. Last revised by Project No. 0970043-009-AV on 10/13/00.}

E.U. ID	Brief Description
003	Combined-Cycle Gas Turbine, Unit 3, with HRSG and duct burner, rated at 250 MW.

Pollutant	Fuel(s)	Hours	Allowable Emissions			Equivalent		Regulatory	See Permit
			Standard(s)	lb/hr	TPY	lb/hr	TPY		
VE	No 2 Oil or Nat Gas		< 10 percent opacity					PSD-FL-254	E.17.
SO <sub>2</sub>	No. 2 Fuel Oil	720	Maximum .0005 sulfur by weight 20 grains per 100 scf		38.1				E.16.
	Natural Gas	8760							
NO <sub>x</sub>	No. 2 Fuel Oil	720	15 ppmvd	108					E.13.
	Natural Gas		3.5 ppmvd	26					
VOC	No. 2 Fuel Oil	720							
	(duct burner off)		10 ppm	21.4					E.15.
	(duct burner on)		10 ppm	21.4					E.15.
VOC	Natural Gas								
	(duct burner off)		1.4 ppm	3					E.15.
	(duct burner on)		4 ppm	8.5					E.15.
CO	No. 2 Fuel Oil	720							
	(duct burner off)		20 ppm	71					E.14.
	(duct burner on)		30 ppm	108					E.14.
CO	Natural Gas								
	(duct burner off)		12 ppm	43					E.14.
	(duct burner on)		20 ppm	71					E.14.

**Table 2-1, Summary of Compliance Requirements**

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Emissions Unit	Brief Description
001	Simple-Cycle Combustion Turbine, Unit 1, rated at 40 MW.

Pollutant or Parameter	Fuel(s)	Compliance Method	Testing Frequency	Frequency Base Date <sup>1</sup>	Minimum Compliance Test Duration	CMS <sup>2</sup>	See Permit Condition(s)
<b>VE</b>	No 2 Fuel Oil, Nat. Gas	EPA Method 9	Annual	August 1st	1 hour	No	A.6.
<b>SO<sub>2</sub></b>	"	Method 8 for Fuel oil firing only; Fuel Sampling & Analysis	As Fired			Yes*	A.9, A.10.
<b>NO<sub>x</sub></b>	"	EPA Test Method 20	Annual	August 1st	3 hours	Yes	A.6.
<b>PM</b>	"	EPA Test Methods 5 or 17	Only if 10% Opacity is exceeded		3 hours	No	A.7.
<b>VOC</b>	"	EPA Test Method 25A	Initial Compliance			No	A.7.
<b>CO</b>	"	EPA Test Method 10	Annual			No	A.7.
<b>Hg</b>	No.2 oil	EPA Method 101 or fuel sampling	Initial Compliance			No	A.5.
<b>As</b>	No.2 oil	Fuel sampling	Initial Compliance			No	A.5.
<b>Be</b>	No.2 oil	EPA Method 104 or fuel sampling	Initial Compliance			No	A.5.
<b>Pb</b>	No.2 oil	Fuel sampling	Initial Compliance			No	A.5.

Notes for EU 001:

\* Continuous monitoring of fuel consumption required.

<sup>1</sup> Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

<sup>2</sup> CMS = continuous monitoring system

See also Section C for general testing requirements

{Permitting Note: Emissions Units 001 and 002 have a combined NO<sub>x</sub> emissions cap of 366.1 during any consecutive 12 months. Compliance must be demonstrated monthly by CEMS data. Last revised by Project No. 0970043-009-AV on 10/13/00.}

Emissions Unit	Brief Description
002	Combined-Cycle Combustion Turbine, Unit 2, rated at 120 MW.

Pollutant or Parameter	Fuel(s)	Compliance Method	Testing Frequency	Frequency Base Date <sup>1</sup>	Minimum Compliance Test Duration	CMS <sup>2</sup>	See Permit Condition(s)
<b>VE</b>	No 2 Fuel Oil, Nat. Gas	EPA Method 9	Annual	August 1st	1 hour	No	B.6.
<b>SO<sub>2</sub></b>	"	Method 8 for Fuel oil firing only; Fuel Sampling & Analysis	As Fired			Yes*	B.9, B.10.
<b>NO<sub>x</sub></b>	"	EPA Test Method 20	Annual	August 1st	3 hours	Yes	B.6.
<b>PM</b>	"	EPA Test Methods 5 or 17	Only if 10% Opacity is exceeded		3 hours	No	B.7.
<b>VOC</b>	"	EPA Test Method 25A	Initial Compliance			No	B.7.
<b>CO</b>	"	EPA Test Method 10	Annual			No	B.7.
<b>Hg</b>	No.2 oil	EPA Method 101 or fuel sampling	Initial Compliance			No	B.5.
<b>As</b>	No.2 oil	Fuel sampling	Initial Compliance			No	B.5.
<b>Be</b>	No.2 oil	EPA Method 104 or fuel sampling	Initial Compliance			No	B.5.
<b>Pb</b>	No.2 oil	Fuel sampling	Initial Compliance			No	B.5.

Notes for EU 002:

\* Continuous monitoring of fuel consumption required.

<sup>1</sup> Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.

<sup>2</sup> CMS = continuous monitoring system

See also Section F for general testing requirements.

{Permitting Note: Emissions Units 001 and 002 have a combined NOx emissions cap of 366.1 during any consecutive 12 months. Compliance must be demonstrated monthly by CEMS data. Last revised by Project No. 0970043-009-AV on 10/13/00.}

Emissions Unit	Brief Description
003	Combined-Cycle Combustion Turbine, Unit 3, rated at 250 MW.

Pollutant or Parameter	Fuel(s)	Compliance Method	Testing Frequency	Frequency Base Date <sup>1</sup>	Minimum Compliance Test Duration	CMS	See Permit Condition(s)
<b>VE</b>	No 2 Fuel Oil, Nat. Gas	EPA Method 9	Annual	August 1st	1 hour		<b>E.23.</b>
<b>SO<sub>2</sub></b>	"	Fuel Sampling & Analysis	Daily				<b>E.16., E.25, E.32., E.33.</b>
<b>NO<sub>x</sub></b>	"	EPA Test Method 20	Annual	August 1st	3 hours	Yes	<b>E.23.</b>
<b>CO</b>	"	EPA Test Method 10	Annual				<b>E.23.</b>