

# APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

## I. APPLICATION INFORMATION

### Identification of Facility

1. Facility Owner/Company Name: Florida Power	
2. Site Name: Intercession City Plant	
3. Facility Identification Number: 0970014 [ ] Unknown	
4. Facility Location: Intercession City  Street Address or Other Locator: 6525 Osceola Polk Co. Line Rd. City: Intercession City County: Osceola Zip Code: 33848	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

### Application Contact

1. Name and Title of Application Contact: Jamie Hunter, Project Technical Specialist	
2. Application Contact Mailing Address: Organization/Firm: Florida Power Street Address: 263 13 <sup>th</sup> Avenue South, MAC BB1A City: St. Petersburg State: FL Zip Code: 33707-5511	
3. Application Contact Telephone Numbers: Telephone: (727 ) 826-4363 Fax: (727 ) 826-4216	

### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	11-26-01
2. Permit Number:	0970014-006-AC
3. PSD Number (if applicable):	PSD-FL-268A
4. Siting Number (if applicable):	

**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

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

**Air Construction Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official: Name: M. J. Drango Title: Plant Manager
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Florida Power Corporation Street Address: PO Box 368 : 6525 Osceola/Polk Line Road City: Intercession City State: FL Zip Code: 33848
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (407) 396-2111 Fax: (863)678-4453
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [ ], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  Signature <u>Martin J. Drango</u> Date <u>11/20/01</u>

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: Scott Osbourn Registration Number: 57557
2. Professional Engineer Mailing Address: Organization/Firm: ENSR International Street Address: 150 Second Ave. N., Suite 1500 City: St. Petersburg State: FL Zip Code: 33701
3. Professional Engineer Telephone Numbers: Telephone: (727)898-9591 Fax: (727)-898-9582

4. Professional Engineer Statement:

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


*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

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

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

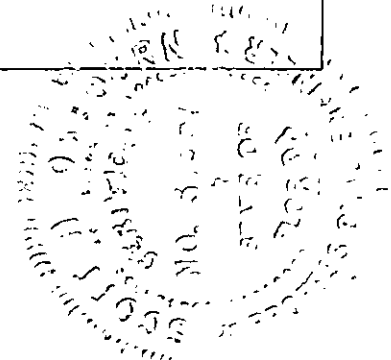
*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [  ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such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

  
\_\_\_\_\_  
Signature

11/20/01  
\_\_\_\_\_  
Date

(seal)

\* Attach any exception to certification statement.



**Scope of Application**

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
018	GE Frame 7EA CT Peaking Unit Number 12	AC1A	
019	GE Frame 7EA CT Peaking Unit Number 13	AC1A	
020	GE Frame 7EA CT Peaking Unit Number 14	AC1A	

**Application Processing Fee**

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

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

Currently, peaking units P12, P13 and P14 (GE 7EA CTs) each have a nominal hourly power production capacity of 87 MW and maximum heat input ratings of 885 MMBtu/hr on natural gas and 954 MMBtu/hr while firing low sulfur distillate oil. These maximum heat input ratings are based on the lower heating value (LHV) of each fuel, an inlet air temperature of 59F, a relative humidity of 60 percent, an ambient air pressure of 14.7 psi, and 100 percent of base load. Florida Power proposes to incorporate an upgrade to these units in conjunction with routine warranty work that is planned. This upgrade results in an increase in the firing temperature of these peaking units in order to maximize output and optimize efficiency. The proposed change in operation will result in an increase in the heat input ratings on oil and gas, and a corresponding increase in potential emissions of NO<sub>x</sub>, VOC, SO<sub>2</sub> and SAM. The proposed allowable heat input ratings for the units on natural gas and distillate oil will be 905 MMBtu/hr and 978 MMBtu/hr, respectively (using the same assumptions and reference conditions indicated above). The nominal rating of output will increase to approximately 87.8 MW for gas firing and 90.9 MW for oil firing, under ISO conditions. This is expected to result in a slight increase in NO<sub>x</sub> hourly emission rates (1 lb/hr increase on gas; 2 lb/hr increase on oil; see Attachment 1). This increase in annual emissions (TPY) is less than any applicable significant increase threshold levels that would trigger PSD review.

In addition, during the short period of time that units P12-P14 have been in operation, it's become apparent that permit language regarding compliance with the NO<sub>x</sub> CEM standards is, in some respects, unclear. As a result of the issues discussed at the meeting among Florida Power, the DEP Bureau of Air Regulation and the DEP Central District held on August 28, 2001, FPC is submitting this application to modify the current language regarding compliance with the NO<sub>x</sub> CEMS standards. Additional information regarding this issue is provided directly below in the "Application Comment" section and the most recent quarterly excess emissions report is included with application (see Attachment 2).

2. Projected or Actual Date of Commencement of Construction: March 1, 2002

3. Projected Date of Completion of Construction: June 1, 2002

### Application Comment

The current permit language states that “during startup, shutdown, and malfunction, the NOx CEM shall monitor and record NOx emissions. However, up to 2 hours of monitoring data during any 24 hour period may be excluded from the continuous NOx compliance demonstration as a result of startup, shutdown and documented malfunctions.”

During certain operating scenarios, FPC has difficulty demonstrating compliance with the above language. Units P12-P14 at the Intercession City facility routinely see multiple startup cycles, as well as fuel switches during the same day. This creates difficulties when determining compliance with the 3-hour averaging period specified in the permit. For example, if a unit commences startup, is required to fuel switch, and then initiates shutdown within a 24-hour period, it's conceivable that as many as 3 hours of excess emissions will be recorded. This would be in excess of the 2 hours allowed.

FPC requests the following language: “ NOx emissions shall be continuously recorded by the CEMS during all episodes of startup (SU), shutdown (SD) and malfunction. Individual hourly NOx emission rate values recorded during these episodes may be excluded from the continuous NOx compliance determination. No more than 3 hourly average emission rate values per operating cycle (maximum of 2 cycles or 6 hours) shall be excluded in any 24-hour block period (calendar day) due to unit SU/SDs. A fuel switch is characterized as a SU/SD in this context, as the unit is physically shutting down on one fuel and starting up on another. In addition, no more than 2 hourly average emission rate values shall be excluded in any 24-hour block period (calendar day) due to unavoidable malfunctions. If an hourly average emission rate value is excluded, the next valid hourly emission rate value shall be used to complete the 3-hour **block** average.”

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates:			
Zone: 17		East (km): 446.30	North (km): 3126.00
2. Facility Latitude/Longitude:			
Latitude (DD/MM/SS): 28/15/38		Longitude (DD/MM/SS): 81/32/51	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s):
7. Facility Comment (limit to 500 characters): Project currently consists of 3 nominal 87.2 MW (at 59 deg. F) dual fuel, Frame 7EA combustion turbines that will use dry low-NOx (DLN) combustion technology when firing natural gas and water injection for NOx control when firing fuel oil. Total CT operation is limited to an average of 3,390 hr/yr/CT. Fuel oil use is limited to 1,000 hr/yr/CT and no more than 2,500 hours combined.			

#### Facility Contact

1. Name and Title of Facility Contact: M. J. Drango Plant Manager		
2. Facility Contact Mailing Address: Organization/Firm: Florida Power Street Address: 6525 Osceola Polk Co. Line Rd. City: Intercession City                      State: FL                      Zip Code: 33848		
3. Facility Contact Telephone Numbers: Telephone: (407)-396-2111                      Fax: (863)-678-4453		



**ATTACHMENT 1**

**Estimated Performance / Emissions Information**

### ESTIMATED PERFORMANCE PG7121(EA)

Load Condition		BASE	139%	123%	105%
Exhaust Pressure Loss	in H2O	5.5	5.5	5.5	5.5
Ambient Temperature	deg F	110.	20.	59.	100.
Fuel Type		Cust Gas	Cust Gas	Cust Gas	Cust Gas
Fuel LHV	Btu/lb	20,832	20,832	20,832	20,832
Fuel Temperature	deg F	60	60	60	60
Output	kW	71,290.	99,340.	87,780.	75,030.
Heat Rate (LHV)	Btu/kWh	11,000.	10,030.	10,310.	10,820.
Heat Cons. (LHV)	MBtu/hr	784.2	996.4	905.	811.8
Exhaust Flow x10 <sup>3</sup>	lb/hr	2076.	2595.	2377.	2138.
Exhaust Temperature	deg F	1031.	973.	1000.	1029.
Exhaust Energy	MBtu/hr	501.4	627.1	571.3	516.9

### EMISSIONS

NOx	ppmvd @ 15% O2	9.	9.	9.	9.
NOx AS NO2	lb/hr	28.	36.	33.	29.
CO	ppmvd	25.	25.	25.	25.
CO	lb/hr	46.	60.	54.	48.
UHC	ppmvw	7.	7.	7.	7.
UHC	lb/hr	8.	10.	9.	8.
Particulates (PM10 Front-half Filterable Only)	lb/hr	5.0	5.0	5.0	5.0
Particulates (PM/PM10)	lb/hr	10.0	10.0	10.0	10.0

### EXHAUST ANALYSIS % VOL.

Argon		0.86	0.91	0.89	0.87
Nitrogen		71.82	75.49	74.93	72.80
Oxygen		13.24	13.92	13.87	13.43
Carbon Dioxide		3.11	3.27	3.21	3.15
Water		10.98	6.42	7.10	9.76

### SITE CONDITIONS

Elevation	ft	74.0
Site Pressure	psia	14.66
Inlet Loss	in H2O	3.5
Exhaust Loss	in H2O	5.5 @ ISO Conditions
Relative Humidity	%	60
Application		Air-Cooled Generator
Combustion System		9/42 DLN Combustor

Emission information based on GE recommended measurement methods. NOx emissions are corrected to 15% O2 without heat rate correction and are not corrected to ISO reference condition per 40CFR 60.335(c)(1). NOx levels shown will be controlled by algorithms within the SPEEDTRONIC control system.

IPS- Version Code - 3.1.1/29D0/2.2.8/PG7121-0696  
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*General Electric Proprietary Information*

**ESTIMATED PERFORMANCE PG7121(EA)**

Load Condition		BASE	BASE	BASE	BASE
Exhaust Pressure Loss	in H2O	5.5	5.5	5.5	5.5
Ambient Temperature	deg F	110.	20.	59.	100.
Fuel Type		Distillate	Distillate	Distillate	Distillate
Fuel LHV	Btu/lb	18,300	18,300	18,300	18,300
Fuel Temperature	deg F	80	80	80	80
Liquid Fuel H/C Ratio		1.8	1.8	1.8	1.8
Output	kW	73,270.	102,800.	90,850.	76,910.
Heat Rate (LHV)	Btu/kWh	11,200.	10,570.	10,760.	11,090.
Heat Cons. (LHV)	MBtu/hr	820.6	1,086.6	977.5	852.9
Exhaust Flow x10 <sup>3</sup>	lb/hr	2107.	2657.	2430.	2174.
Exhaust Temperature	deg F	1035.	968.	996.	1026.
Exhaust Energy	MBtu/hr	510.3	641.6	583.6	524.2
Water Flow	lb/hr	25,120.	52,620.	44,740.	30,310.

**EMISSIONS**

NOx	ppmvd @ 15% O2	42.	42.	42.	42.
NOx AS NO2	lb/hr	142.	188.	169.	147.
CO	ppmvd	20.	20.	20.	20.
CO	lb/hr	37.	48.	44.	39.
UHC	ppmvw	7.	7.	7.	7.
UHC	lb/hr	8.	10.	10.	9.
Particulates (PM10 Front-half Filterable Only)	lb/hr	10.0	10.0	10.0	10.0
Particulates (PM/PM10)	lb/hr	20.0	20.0	20.0	20.0

**EXHAUST ANALYSIS % VOL.**

Argon	0.85	0.88	0.87	0.87
Nitrogen	71.20	73.87	73.48	71.94
Oxygen	12.86	13.17	13.19	12.98
Carbon Dioxide	4.33	4.61	4.53	4.38
Water	10.76	7.47	7.93	9.84

**SITE CONDITIONS**

Elevation	ft	74.0
Site Pressure	psia	14.66
Inlet Loss	in H2O	3.5
Exhaust Loss	in H2O	5.5 @ ISO Conditions
Relative Humidity	%	60
Application		Air-Cooled Generator
Combustion System		9/42 DLN Combustor

Emission information based on GE recommended measurement methods. NOx emissions are corrected to 15% O2 without heat rate correction and are not corrected to ISO reference condition per 40CFR 60.335(c)(1). NOx levels shown will be controlled by algorithms within the SPEEDTRONIC control system.

Distillate Fuel is assumed to have 0.015% Fuel-Bound Nitrogen, or less.  
FBN amounts greater than 0.015% will add to the reported NOx value.

IPS- Version Code - 3.1.1/29D0/2.2.8/PG7121-0696  
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*General Electric Proprietary Information*

**ATTACHMENT 2**

**Excess Emissions Report  
Quarter III, 2001**



**Florida Power**

A Progress Energy Company

October 25, 2001

Mr. Garry Kuberski  
Florida Department of Environmental Protection  
Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, FL 32803-3767

Dear Mr. Kuberski:

Re: Intercession City Facility  
Combustion Turbine Units P7 - P14  
Quarterly Excess Emissions Report

Florida Power submits the enclosed excess emission report for the third quarter of 2001 for the above-referenced units. This report is based on the water to fuel ratio data for Units 7 through 11. A comparison set of excess emissions data based on CEM readings for Units 7 through 10 has been sent under separate cover.

Please contact Jamie Hunter at (727) 826-4363 if you have any questions.

Sincerely,

Martin J. Drango  
Plant Manager

Enclosure

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> / NOX / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 182 lbs/hr

Address: P. O. Box 14042  
St. Petersburg, FL 33733 Monitor Manufacturer and Model No.: N / A


Process unit Description: Intercession City Facility  
Combustion Turbine Unit P - 7  
Osceola County Date of latest CMS Certification or Audit: N / A

Permit No: 0970014-001-AV Total source operating time in reporting period: 541 (1)

Emission Data Summary (1)	CMS Performance Summary (1)
<p>1. Duration of excess emissions in reporting period due to:</p> <p>a. Startup/shutdown <u>0</u></p> <p>b. Control equipment Problems <u>3</u></p> <p>c. Process problems <u>0</u></p> <p>d. Other known causes <u>0</u></p> <p>e. Unknown causes <u>0</u></p> <p>2. Total duration of excess emissions: <u>3</u></p> <p>3. Total duration of excess emissions X (100) = <u>0.55%</u> (2) [Total source operating time]</p>	<p>1. CMS downtime in reporting period due to:</p> <p>a. Monitor equipment malfunctions <u>0</u></p> <p>b. Non-Monitor equipment malfunctions <u>0</u></p> <p>c. Quality assurance calibration <u>0</u></p> <p>d. Other known causes <u>0</u></p> <p>e. Unknown causes <u>0</u></p> <p>2. Total CMS downtime <u>0</u></p> <p>3. [total CMS downtime] X (100) = <u>0.00%</u> (2) [Total source operating time]</p>

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango  Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one) SO<sub>2</sub> / NOX / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 222 Lbs / Hr.

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 7  
Osceola County

Total source operating time in reporting period: 541 (1)

Emission Data Summary (1)	CMS Performance Summary (1)
1. Duration of excess emissions in reporting period due to: a. Startup/shutdown <u>0</u> b. Control equipment Problems <u>0</u> c. Process problems <u>0</u> d. Other known causes <u>0</u> e. Unknown causes <u>0</u> 2. Total duration of excess emissions: <u>0</u> 3. Total duration of excess emissions X (100) = <u>0.00%</u> (2) [Total source operating time]	1. CMS downtime in reporting period due to: a. Monitor equipment malfunctions <u>0</u> b. Non-Monitor equipment malfunctions <u>0</u> c. Quality assurance calibration <u>0</u> d. Other known causes <u>0</u> e. Unknown causes <u>0</u> 2. Total CMS downtime <u>0</u> 3. [total CMS downtime] X (100) = <u>0.00%</u> (2) [Total source operating time]

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango *Martin J. Drango* Plant Manager 10/26/01  
 NAME: SIGNATURE TITLE: DATE:

- (1) For opacity, record all times in minutes. For gases, record all times in hours.
- (2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> / NO<sub>x</sub> / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 182 lbs/hr

Address: P. O. Box 14042  
St. Petersburg, FL 33733 Monitor Manufacturer and Model No.: N / A


Process unit Description: Intercession City Facility  
Combustion Turbine Unit P - 8  
Osceola County Date of latest CMS Certification or Audit: N / A

Permit No: 0970014-001-AV Total source operating time in reporting period: 596 (1)

Emission Data Summary (1)	CMS Performance Summary (1)
<p>1. Duration of excess emissions in reporting period due to:</p> <p>a. Startup/shutdown <u>0</u></p> <p>b. Control equipment Problems <u>0</u></p> <p>c. Process problems <u>0</u></p> <p>d. Other known causes <u>0</u></p> <p>e. Unknown causes <u>0</u></p> <p>2. Total duration of excess emissions: <u>0</u></p> <p>3. Total duration of excess emissions X (100) = <u>0.00%</u> (2) [Total source operating time]</p>	<p>1. CMS downtime in reporting period due to:</p> <p>a. Monitor equipment malfunctions <u>0</u></p> <p>b. Non-Monitor equipment malfunctions <u>0</u></p> <p>c. Quality assurance calibration <u>0</u></p> <p>d. Other known causes <u>0</u></p> <p>e. Unknown causes <u>0</u></p> <p>2. Total CMS downtime <u>0</u></p> <p>3. [total CMS downtime] X (100) = <u>0.00%</u> (2) [Total source operating time]</p>

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango  Plant Manager  
 NAME: SIGNATURE: TITLE: DATE: 10/26/01

- (1) For opacity, record all times in minutes. For gases, record all times in hours.
- (2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.



SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one) SO2 / NOX / TRS / H2S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 222 Lbs / Hr.

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 8  
Osceola County

Permit No: 0970014-001-AV Total source operating time in reporting period: 596 (1)

Emission Data Summary (1)	CMS Performance Summary (1)
1. Duration of excess emissions in reporting period due to: a. Startup/shutdown <u>0</u> b. Control equipment Problems <u>0</u> c. Process problems <u>0</u> d. Other known causes <u>0</u> e. Unknown causes <u>0</u> 2. Total duration of excess emissions: <u>0</u> 3. Total duration of excess emissions X (100) = <u>0.00%</u> (2) [Total source operating time]	1. CMS downtime in reporting period due to: a. Monitor equipment malfunctions <u>0</u> b. Non-Monitor equipment malfunctions <u>0</u> c. Quality assurance calibration <u>0</u> d. Other known causes <u>0</u> e. Unknown causes <u>0</u> 2. Total CMS downtime <u>0</u> 3. [total CMS downtime] X (100) = <u>0.00%</u> (2) [Total source operating time]

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango *Martin J. Drango* Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> / NOX / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 182 lbs/hr

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 9  
Osceola County

Permit No: 0970014-001-AV Total source operating time in reporting period: 554 (1)

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/shutdown	<u>0</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment Problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emissions:	<u>0</u>	2. Total CMS downtime	<u>0</u>
3. Total duration of excess emissions X (100) = [Total source operating time]	<u>0.00% (2)</u>	3. [total CMS downtime] X (100) = [Total source operating time]	<u>0.00% (2)</u>

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango *Martin J. Drango* Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one SO<sub>2</sub> / NOX / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 222 Lbs / Hr.

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 9  
Osceola County

Permit No: 0970014-001-AV Total source operating time in reporting period: 554 (1)

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/shutdown	<u>0</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment Problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emissions:	<u>0</u>	2. Total CMS downtime	<u>0</u>
3. Total duration of excess emissions X (100) = [Total source operating time]	<u>0.00%</u> (2)	3. [total CMS downtime] X (100) = [Total source operating time]	<u>0.00%</u> (2)

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango NAME: Martin J. Drango SIGNATURE: [Signature] Plant Manager TITLE: Plant Manager DATE: 10/26/01

- (1) For opacity, record all times in minutes. For gases, record all times in hours.
- (2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> / NOX / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 182 lbs/hr

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 10

Osceola County Total source operating time in reporting period: 541 (1)  
Permit No: 0970014-001-AV

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/shutdown	<u>0</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment Problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emissions:	<u>0</u>	2. Total CMS downtime	<u>0</u>
3. Total duration of excess emissions X (100) = [Total source operating time]	<u>0.00% (2)</u>	3. [total CMS downtime] X (100) = [Total source operating time]	<u>0.00% (2)</u>

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango  Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one) SO<sub>2</sub> / NOX / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 222 Lbs / Hr.

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 10  
Osceola County

Permit No: 0970014-001-AV Total source operating time in reporting period: 541 (1)

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/shutdown	<u>0</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment Problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emissions:	<u>0</u>	2. Total CMS downtime	<u>0</u>
3. Total duration of excess emissions X (100) = [Total source operating time]	<u>0.00% (2)</u>	3. [total CMS downtime] X (100) = [Total source operating time]	<u>0.00% (2)</u>

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango  
NAME:

*Martin J. Drango*  
SIGNATURE

Plant Manager  
TITLE:

10/26/01  
DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> / **NOX** / TRS / H<sub>2</sub>S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 334 lbs/hr

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 11  
Osceola County

Permit No: 0970014-001-AV Total source operating time in reporting period: 43 (1)

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/shutdown	<u>0</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment Problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>0</u>	c. Quality assurance calibration	<u>0</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emissions:	<u>0</u>	2. Total CMS downtime	<u>0</u>
3. Total duration of excess emissions X (100) = [Total source operating time]	<u>0.00%</u> (2)	3. [total CMS downtime] X (100) = [Total source operating time]	<u>0.00%</u> (2)

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango  
NAME:

*Martin J. Drango*  
SIGNATURE:

Plant Manager  
TITLE:

10/26/01  
DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one) SO2 / NOX / TRS / H2S / CO / Opacity )

Reporting Period dates: From: 7/1/01 To: 9/30/01

Company: Florida Power Corporation Emission Limit: 407 lb/hr

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: N / A  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: N / A  
Combustion Turbine Unit P - 11

Osceola County Total source operating time in reporting period: 43 (1)  
Permit No: 0970014-001-AV

Emission Data Summary (1)	CMS Performance Summary (1)
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/shutdown <u>0</u>	a. Monitor equipment malfunctions <u>0</u>
b. Control equipment Problems <u>0</u>	b. Non-Monitor equipment malfunctions <u>0</u>
c. Process problems <u>0</u>	c. Quality assurance calibration <u>0</u>
d. Other known causes <u>0</u>	d. Other known causes <u>0</u>
e. Unknown causes <u>0</u>	e. Unknown causes <u>0</u>
2. Total duration of excess emissions: <u>0</u>	2. Total CMS downtime <u>0</u>
3. Total duration of excess emissions X (100) = <u>0.00%</u> (2) [Total source operating time]	3. [total CMS downtime] X (100) = <u>0.00%</u> (2) [Total source operating time]

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango Martin J. Drango Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

**Intercession City  
Units P12 – P14  
3-Hour Rolling Average NOx Limit  
Summary Report  
Quarter III, 2001**

**Unit P12**

<u>DATE</u>	<u>HOURS</u>	<u>3-HOUR AVERAGE</u>	<u>3-HOUR LIMIT</u>
08-14-2001	14,15 & 16	20.87	20.67

**Unit P13**

<u>DATE</u>	<u>HOURS</u>	<u>3-HOUR AVERAGE</u>	<u>3-HOUR LIMIT</u>
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NONE

**Unit P14**

<u>DATE</u>	<u>HOURS</u>	<u>3-HOUR AVERAGE</u>	<u>3-HOUR LIMIT</u>
08-06-2001	15,16 & 17	44.57	42.0



**Intercession City - Unit P12**  
**3-Hour Rolling Average Calculation**  
**08/14/2001**

Date	Hour	MUL_FUEL_U	DRY_NOXOIL	DRY_NOXGAS	SRC_CO2	SRC_NOX	BOILER_ON	BOILER Quarter Hours	Hourly Average NOx Value	Hour Removed from Calculation	Reason	Remaining Hourly Average NOx Value	Gas/Oil 3-Hour NOx LIMIT	3-Hour Rolling Avg. NOx Value	3-Hour Rolling Avg. NOx Limit	3-Hour Limit EXCEEDANCE
08/14/2001	0	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	1	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	2	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	3	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	4	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	5	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	6	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	7	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	8	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	9	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	10	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	11	FALSE	0	21.3	1	1	TRUE	3	21.3	yes	Startup/Shutdown	0	0	0	0	
08/14/2001	12	FALSE	0	6.3	1	1	TRUE	4	6.3			6.3	10	0	0	
08/14/2001	13	FALSE	0	7	1	1	TRUE	4	7			7	10	0	0	
08/14/2001	14	FALSE	0	7.4	1	1	TRUE	4	7.4			7.4	10	6.90	10.00	
08/14/2001	15	FALSE	0	7.7	1	1	TRUE	4	7.7			7.7	10	7.37	10.00	
08/14/2001	16	TRUE	47.5	36.7	1	1	TRUE	4	47.5			47.5	42	20.87	20.67	YES
08/14/2001	17	FALSE	68.9	0	1	1	TRUE	2	68.9	yes	Startup/Shutdown	0	0	0.00	0.00	
08/14/2001	18	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	19	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	20	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	21	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	22	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/14/2001	23	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	

**Intercession City - Unit P14**  
**3-Hour Rolling Average Calculation**  
**08/06/2001**

Date	Hour	MUL_FUEL_U	DRY_NOXOIL	DRY_NOXGAS	SRC_CO2	SRC_NOX	BOILER_ON	BOILER Quarter Hours	Hourly Average NOx Value	Hour Removed from Calculation	Reason	Remaining Hourly Average NOx Value	Gas/Oil 3-Hour NOx LIMIT	3-Hour Rolling Avg NOx Value	3-Hour Rolling Avg NOx Limit	3-Hour Limit EXCEEDANCE
08/06/2001	0	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	1	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	2	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	3	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	4	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	5	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	6	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	7	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	8	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	9	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	10	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	11	FALSE	0	19	1	1	TRUE	4	19	yes	Startup/Shutdown	0	0	0	0	
08/06/2001	12	FALSE	0	5.9	1	1	TRUE	4	5.9			0	0	0	0	
08/06/2001	13	FALSE	0	6.3	1	1	TRUE	4	6.3			5.9	10	0	0	
08/06/2001	14	TRUE	47.3	36.5	1	1	TRUE	4	6.3			6.3	10	0	0	
08/06/2001	15	FALSE	43.9	0	1	1	TRUE	4	47.3	yes	Startup/Shutdown	0	0	0.00	0.00	
08/06/2001	16	FALSE	41.9	0	1	1	TRUE	4	43.9			43.9	42	18.70	20.67	
08/06/2001	17	FALSE	47.9	0	1	1	TRUE	4	41.9			41.9	42	30.70	31.33	
08/06/2001	18	FALSE	0	0	1	1	TRUE	2	47.9			47.9	42	44.57	42.00	YES
08/06/2001	19	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	20	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	21	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	22	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	
08/06/2001	23	FALSE	0	0	1	1	FALSE	0	0			0	0	0	0	

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> **NOX** / TRS / H<sub>2</sub>S / CO / Opacity)

Reporting Period dates: From: 07/01/2001 To: 09/30/2001

Company: Florida Power Corporation Emission Limit: 10 ppmvd @ 15%O<sub>2</sub>

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: TECO 42  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: 2/1/01  
Combustion Turbine Unit P - 12

Osceola County Total source operating time in reporting period: 680 (1)

Emission Data Summary (1)	CMS Performance Summary (1)
<p>1. Duration of excess emissions in reporting period due to:</p> <p>a. Startup/shutdown <u>107</u></p> <p>b. Control equipment Problems <u>0</u></p> <p>c. Process problems <u>1</u></p> <p>d. Other known causes <u>0</u></p> <p>e. Unknown causes <u>0</u></p> <p>2. Total duration of excess emissions: <u>108</u></p> <p>3. Total duration of excess emissions X (100) - <u>15.88%</u> (2)                      [Total source operating time]</p>	<p>1. CMS downtime in reporting period due to:</p> <p>a. Monitor equipment malfunctions <u>0</u></p> <p>b. Non-Monitor equipment malfunctions <u>0</u></p> <p>c. Quality assurance calibration <u>26</u></p> <p>d. Other known causes <u>0</u></p> <p>e. Unknown causes <u>0</u></p> <p>2. Total CMS downtime <u>26</u></p> <p>3. [total CMS downtime] X (100) - <u>3.82%</u> (2)                      [Total source operating time]</p>

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango Martin J. Drango Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

=====  
=====  
Quarterly Excess Emissions Report  
Florida Power Corp  
Unit P12  
Orlando, Florida  
=====

=====  
Today's Date: 10/10/2001

Reporting Perio

d  
Time: 10:27:07  
/30/2001

07/01/2001 - 09

-----  
-----  
Date/        NOx        Fuel        ID        Reason  
Time        ppmvd

Hourly Exceedance

07/04/2001

130000    22.2   Gas        CT6NOXG   STARTUP

Hourly Exceedance

07/04/2001

170000    19.1   Gas        CT6NOXG   SHUTDOWN

Hourly Exceedance

07/07/2001

110000    23.0   Gas        CT6NOXG   STARTUP

Hourly Exceedance

07/08/2001

110000    19.1   Gas        CT6NOXG   STARTUP

Hourly Exceedance

07/09/2001

130000    31.2   Gas        CT6NOXG   STARTUP

Hourly Exceedance

07/09/2001

190000    14.4   Gas        CT6NOXG   SHUTDOWN

Hourly Exceedance

07/10/2001

90000 21.7 Gas CT6NOXG STARTUP

Hourly Exceedance

07/12/2001

100000 37.0 Gas CT6NOXG STARTUP

Hourly Exceedance

07/14/2001

110000 30.7 Gas CT6NOXG STARTUP

Hourly Exceedance

07/14/2001

140000 11.1 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/16/2001

180000 10.5 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/17/2001

170000 11.4 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/18/2001

90000 14.8 Gas CT6NOXG STARTUP

Hourly Exceedance

07/18/2001

200000 12.1 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/19/2001

80000 14.4 Gas CT6NOXG STARTUP

Hourly Exceedance

07/19/2001

Q3 ic pl2 excess jjh.txt  
CT6NOXG SHUTDOWN

210000 13.6 Gas

Hourly Exceedance  
07/20/2001

80000 27.8 Gas CT6NOXG STARTUP

Hourly Exceedance  
07/20/2001

170000 10.5 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
07/21/2001

80000 25.4 Gas CT6NOXG STARTUP

Hourly Exceedance  
07/21/2001

170000 17.8 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
07/22/2001

90000 28.3 Gas CT6NOXG STARTUP

Hourly Exceedance  
07/22/2001

180000 19.1 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
07/24/2001

110000 24.6 Gas CT6NOXG STARTUP

Hourly Exceedance  
07/24/2001

200000 13.5 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
07/25/2001

80000 19.1 Gas CT6NOXG STARTUP

Hourly Exceedance

07/26/2001

90000 24.2 Gas CT6NOXG STARTUP

Hourly Exceedance

07/26/2001

180000 12.2 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/27/2001

80000 42.2 Gas CT6NOXG STARTUP

Hourly Exceedance

07/27/2001

160000 12.3 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/28/2001

80000 24.5 Gas CT6NOXG STARTUP

Hourly Exceedance

07/30/2001

70000 15.7 Gas CT6NOXG STARTUP

Hourly Exceedance

07/30/2001

210000 11.9 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

07/31/2001

50000 75.7 Oil CT6NOXG MONITOR MALFUNCTION

Hourly Exceedance

07/31/2001

180000 12.2 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/01/2001

90000 24.7 Gas CT6NOXG STARTUP

Hourly Exceedance

08/01/2001

170000 12.8 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/06/2001

110000 36.4 Gas CT6NOXG STARTUP

Hourly Exceedance

08/06/2001

170000 48.7 Oil CT6NOXO SHUTDOWN

Hourly Exceedance

08/07/2001

110000 15.0 Gas CT6NOXG STARTUP

Hourly Exceedance

08/07/2001

120000 13.3 Gas CT6NOXG STARTUP

Hourly Exceedance

08/08/2001

90000 38.0 Gas CT6NOXG STARTUP

Hourly Exceedance

08/08/2001

210000 44.3 Oil CT6NOXO SHUTDOWN

Hourly Exceedance

08/09/2001

90000 17.4 Gas CT6NOXG STARTUP

Hourly Exceedance

08/10/2001

90000 39.1 Gas CT6NOXG STARTUP

Hourly Exceedance



Q3 ic p12 excess jjh.txt

08/10/2001

190000 21.8 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/11/2001

90000 25.0 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/11/2001

180000 12.1 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/12/2001

200000 43.3 Oil/Gas CT6NOXO SHUTDOWN

Hourly Exceedance

08/13/2001

80000 32.5 Gas CT6NOXG STARTUP

Hourly Exceedance

08/14/2001

110000 21.2 Gas CT6NOXG STARTUP

Hourly Exceedance

08/14/2001

160000 47.4 Oil/Gas CT6NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance

08/14/2001

170000 68.8 Oil CT6NOXO SHUTDOWN

Hourly Exceedance

08/15/2001

140000 18.3 Gas CT6NOXG STARTUP

Hourly Exceedance

08/15/2001

180000 10.3 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/16/2001

90000 24.0 Gas CT6NOXG STARTUP

Hourly Exceedance

08/16/2001

120000 12.0 Gas CT6NOXG SHUTDOWN  
gave unit a start before breaker opened to restore

Hourly Exceedance

08/16/2001

200000 21.6 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/17/2001

110000 56.8 Gas CT6NOXG STARTUP

Hourly Exceedance

08/18/2001

90000 16.4 Gas CT6NOXG STARTUP

Hourly Exceedance

08/18/2001

180000 11.2 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/19/2001

90000 42.5 Gas CT6NOXG STARTUP

Hourly Exceedance

08/19/2001

200000 12.9 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/20/2001

80000 23.8 Gas CT6NOXG STARTUP

Hourly Exceedance

08/21/2001

Q3 ic p12 excess jjh.txt  
CT6NOXG STARTUP

100000 31.5 Gas

Hourly Exceedance  
08/22/2001

110000 12.9 Gas CT6NOXG STARTUP

Hourly Exceedance  
08/22/2001

200000 12.0 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
08/23/2001

90000 40.2 Gas CT6NOXG STARTUP

Hourly Exceedance  
08/23/2001

200000 12.7 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
08/24/2001

100000 19.2 Gas CT6NOXG STARTUP

Hourly Exceedance  
08/24/2001

200000 12.0 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
08/25/2001

100000 36.0 Gas CT6NOXG STARTUP

Hourly Exceedance  
08/25/2001

190000 10.5 Gas CT6NOXG SHUTDOWN

Hourly Exceedance  
08/26/2001

110000 24.4 Gas CT6NOXG STARTUP

Q3 ic p12 excess jjh.txt

Hourly Exceedance

08/26/2001

200000 12.5 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/27/2001

110000 29.0 Gas CT6NOXG STARTUP

Hourly Exceedance

08/27/2001

200000 11.5 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/28/2001

90000 20.8 Gas CT6NOXG STARTUP

Hourly Exceedance

08/28/2001

110000 19.6 Gas CT6NOXG STARTUP  
Unit Tripped

Hourly Exceedance

08/28/2001

190000 11.1 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/29/2001

90000 55.0 Gas CT6NOXG STARTUP

Hourly Exceedance

08/29/2001

200000 27.6 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

08/30/2001

80000 21.2 Gas CT6NOXG STARTUP

Hourly Exceedance

08/31/2001

200000 10.6 Gas CT6NOXG SHUTDOWN

Q3 ic pl2 excess jjh.txt

Hourly Exceedance

09/01/2001

80000 19.6 Gas CT6NOXG STARTUP

Hourly Exceedance

09/02/2001

120000 16.7 Gas CT6NOXG STARTUP

Hourly Exceedance

09/02/2001

170000 15.2 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

09/03/2001

110000 17.5 Gas CT6NOXG STARTUP

Hourly Exceedance

09/04/2001

90000 22.1 Gas CT6NOXG STARTUP

Hourly Exceedance

09/04/2001

190000 17.6 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

09/05/2001

90000 49.9 Gas CT6NOXG STARTUP

Hourly Exceedance

09/06/2001

100000 17.9 Gas CT6NOXG STARTUP

Hourly Exceedance

09/06/2001

190000 13.6 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

Q3 ic p12 excess jjh.txt

09/07/2001

100000 55.3 Gas CT6NOXG PROCESS EQUIPMENT MALFUNCTION

Hourly Exceedance

09/08/2001

120000 24.4 Gas CT6NOXG STARTUP

Hourly Exceedance

09/11/2001

160000 10.8 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

09/16/2001

130000 28.0 Gas CT6NOXG STARTUP

Hourly Exceedance

09/17/2001

120000 54.1 Oil CT6NOXO STARTUP

Hourly Exceedance

09/17/2001

130000 47.4 Oil/Gas CT6NOXO FUEL SWITCH (OIL TO GAS)

Hourly Exceedance

09/17/2001

190000 13.0 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

09/18/2001

110000 26.3 Gas CT6NOXG STARTUP

Hourly Exceedance

09/19/2001

120000 18.8 Gas CT6NOXG STARTUP

Hourly Exceedance

09/20/2001

110000 21.5 Gas CT6NOXG STARTUP

Q3 ic.p12 excess jjh.txt

Hourly Exceedance

09/20/2001

170000 17.6 Gas CT6NOXG SHUTDOWN

Hourly Exceedance

09/21/2001

110000 26.4 Gas CT6NOXG STARTUP

Hourly Exceedance

09/22/2001

90000 16.1 Gas CT6NOXG STARTUP

Hourly Exceedance

09/22/2001

170000 46.2 Oil CT6NOXO SHUTDOWN

Hourly Exceedance

09/23/2001

90000 30.8 Gas CT6NOXG STARTUP

Hourly Exceedance

09/24/2001

80000 33.1 Gas CT6NOXG STARTUP

Hourly Exceedance

09/24/2001

180000 17.0 Gas CT6NOXG SHUTDOWN

**SUMMARY REPORT**

**GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE**

Pollutant (circle one - SO<sub>2</sub> / **NO<sub>x</sub>** / TRS / H<sub>2</sub>S / CO / Opacity)

Reporting Period dates: From: 07/01/2001 To: 09/30/2001

Company: Florida Power Corporation Emission Limit: 10 ppmvd @ 15%O<sub>2</sub>

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: TECO 42  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: 2/1/01  
Combustion Turbine Unit P- 13  
Osceola County  
 Total source operating time in reporting period: 714 (1)

Emission Data Summary (1)	CMS Performance Summary (1)
1. Duration of excess emissions in reporting period due to: a. Startup/shutdown <u>103</u> b. Control equipment Problems <u>0</u> c. Process problems <u>3</u> d. Other known causes <u>0</u> e. Unknown causes <u>0</u> 2. Total duration of excess emissions: <u>106</u> 3. Total duration of excess emissions X (100) - <u>14.85%</u> (2) [Total source operating time]	1. CMS downtime in reporting period due to: a. Monitor equipment malfunctions <u>0</u> b. Non-Monitor equipment malfunctions <u>0</u> c. Quality assurance calibration <u>13</u> d. Other known causes <u>0</u> e. Unknown causes <u>0</u> 2. Total CMS downtime <u>13</u> 3. [total CMS downtime] X (100) - <u>1.82%</u> (2) [Total source operating time]

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango *Martin J. Drango* Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.



=====  
=====  
Quarterly Excess Emissions Report  
Florida Power Corp  
Unit P13  
Orlando, Florida  
=====

=====  
Today's Date: 10/10/2001

Reporting Perio

d  
Time: 15:27:19  
/30/2001

07/01/2001 - 09

-----  
-----  
Date/ NOx Fuel ID Reason  
Time ppmvd  
-----  
-----

Hourly Exceedance

07/01/2001

120000 13.6 Gas CT7NOXG STARTUP

Hourly Exceedance

07/02/2001

120000 21.2 Gas CT7NOXG STARTUP

Hourly Exceedance

07/03/2001

90000 19.1 Gas CT7NOXG STARTUP

Hourly Exceedance

07/03/2001

200000 16.3 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/04/2001

100000 30.3 Gas CT7NOXG STARTUP

Hourly Exceedance

07/05/2001

90000 28.6 Gas CT7NOXG STARTUP

Hourly Exceedance

07/06/2001

120000 10.5 Gas CT7NOXG STARTUP

Hourly Exceedance

07/06/2001

180000 11.7 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/07/2001

80000 27.9 Gas CT7NOXG STARTUP

Hourly Exceedance

07/08/2001

110000 30.6 Gas CT7NOXG STARTUP

Hourly Exceedance

07/08/2001

160000 10.5 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/09/2001

130000 29.7 Gas CT7NOXG STARTUP

Hourly Exceedance

07/10/2001

90000 18.3 Gas CT7NOXG STARTUP

Hourly Exceedance

07/10/2001

140000 17.5 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/11/2001

140000 16.9 Gas CT7NOXG STARTUP

Hourly Exceedance

07/11/2001

Q3 ic p13 excess jjh.txt  
CT7NOXG SHUTDOWN

170000 11.7 Gas

Hourly Exceedance  
07/12/2001

100000 23.6 Gas CT7NOXG STARTUP

Hourly Exceedance  
07/12/2001

140000 58.2 Oil/Gas CT7NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance  
07/14/2001

110000 26.1 Gas CT7NOXG STARTUP

Hourly Exceedance  
07/14/2001

140000 16.5 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
07/16/2001

150000 26.4 Gas CT7NOXG STARTUP

Hourly Exceedance  
07/17/2001

100000 16.4 Gas CT7NOXG STARTUP

Hourly Exceedance  
07/18/2001

90000 10.5 Gas CT7NOXG STARTUP

Hourly Exceedance  
07/19/2001

80000 11.2 Gas CT7NOXG STARTUP

Hourly Exceedance  
07/20/2001

80000 12.6 Gas CT7NOXG STARTUP

Hourly Exceedance

07/21/2001

80000 25.2 Gas CT7NOXG STARTUP

Hourly Exceedance

07/21/2001

170000 17.2 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/22/2001

80000 25.8 Gas CT7NOXG STARTUP

Hourly Exceedance

07/22/2001

180000 11.2 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/24/2001

110000 26.9 Gas CT7NOXG STARTUP

Hourly Exceedance

07/25/2001

80000 11.3 Gas CT7NOXG STARTUP

Hourly Exceedance

07/26/2001

90000 19.7 Gas CT7NOXG STARTUP

Hourly Exceedance

07/28/2001

80000 21.6 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

07/29/2001

80000 24.8 Gas CT7NOXG STARTUP

Hourly Exceedance

07/30/2001

50000 13.8 Gas CT7NOXG STARTUP

Q3 ic p13 excess jjh.txt

Hourly Exceedance  
07/31/2001

50000 48.5 Oil CT7NOXO STARTUP

Hourly Exceedance  
08/01/2001

70000 24.0 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/01/2001

170000 10.1 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
08/02/2001

130000 11.2 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
08/06/2001

110000 24.1 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/07/2001

110000 26.0 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/09/2001

90000 10.7 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/10/2001

90000 17.1 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/11/2001

90000 13.0 Gas CT7NOXG STARTUP

Hourly Exceedance

Q3 ic pl3 excess jjh.txt

08/11/2001  
180000 10.9 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
08/13/2001  
80000 23.5 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/14/2001  
110000 16.1 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/14/2001  
200000 48.8 Oil CT7NOXO SHUTDOWN

Hourly Exceedance  
08/15/2001  
130000 23.9 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/17/2001  
90000 15.9 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/17/2001  
190000 10.1 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
08/18/2001  
140000 13.9 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/19/2001  
100000 27.3 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/19/2001  
200000 10.9 Gas CT7NOXG SHUTDOWN

Q3 ic pl3 excess jjh.txt

Hourly Exceedance

08/20/2001

80000 28.3 Gas CT7NOXG STARTUP

Hourly Exceedance

08/20/2001

190000 47.8 Oil/Gas CT7NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance

08/20/2001

200000 43.3 Oil CT7NOXO SHUTDOWN

Hourly Exceedance

08/21/2001

120000 10.8 Gas CT7NOXG STARTUP

Hourly Exceedance

08/22/2001

110000 26.4 Gas CT7NOXG STARTUP

Hourly Exceedance

08/23/2001

90000 28.3 Gas CT7NOXG STARTUP

Hourly Exceedance

08/23/2001

120000 76.1 Oil/Gas CT7NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance

08/23/2001

200000 14.4 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

08/24/2001

100000 26.6 Gas CT7NOXG STARTUP

Hourly Exceedance

08/24/2001

Q3 ic p13 excess jjh.txt

120000 15.9 Gas CT7NOXG PROCESS EQUIPMENT MALFUNCTION  
lowered load to 30 MW to get lean-lean positive, then base

Hourly Exceedance  
08/25/2001

100000 29.0 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/26/2001

110000 29.8 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/26/2001

200000 13.1 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
08/27/2001

110000 14.1 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/28/2001

90000 20.3 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/29/2001

110000 11.5 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/29/2001

200000 23.3 Gas CT7NOXG SHUTDOWN

Hourly Exceedance  
08/30/2001

80000 25.1 Gas CT7NOXG STARTUP

Hourly Exceedance  
08/30/2001

110000 38.0 Gas CT7NOXG PROCESS EQUIPMENT MALFUNCTION



Q3 ic p13 excess jjh.txt

Hourly Exceedance

08/30/2001

200000 10.9 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

08/31/2001

90000 17.4 Gas CT7NOXG STARTUP

Hourly Exceedance

09/01/2001

90000 25.1 Gas CT7NOXG STARTUP

Hourly Exceedance

09/01/2001

180000 14.6 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/02/2001

120000 11.9 Gas CT7NOXG STARTUP

Hourly Exceedance

09/03/2001

110000 28.3 Gas CT7NOXG STARTUP

Hourly Exceedance

09/03/2001

180000 12.1 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/04/2001

90000 25.2 Gas CT7NOXG STARTUP

Hourly Exceedance

09/04/2001

180000 14.2 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/05/2001

90000 23.7 Gas CT7NOXG STARTUP

Q3 ic p13 excess jjh.txt

Hourly Exceedance

09/05/2001

120000 50.1 Oil/Gas CT7NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance

09/06/2001

90000 25.7 Gas CT7NOXG STARTUP

Hourly Exceedance

09/07/2001

200000 18.9 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/08/2001

120000 11.0 Gas CT7NOXG STARTUP

Hourly Exceedance

09/09/2001

130000 25.9 Gas CT7NOXG STARTUP

Hourly Exceedance

09/09/2001

170000 11.7 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/11/2001

100000 24.0 Gas CT7NOXG STARTUP

Hourly Exceedance

09/12/2001

120000 26.1 Gas CT7NOXG STARTUP

Hourly Exceedance

09/12/2001

170000 15.4 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

Q3 ic pl3 excess jjh.txt

09/16/2001

130000 24.2 Gas CT7NOXG STARTUP

Hourly Exceedance

09/16/2001

180000 10.2 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/17/2001

120000 52.3 Oil CT7NOXO STARTUP

Hourly Exceedance

09/17/2001

170000 43.9 Oil CT7NOXO SHUTDOWN

Hourly Exceedance

09/18/2001

100000 24.7 Gas CT7NOXG STARTUP

Hourly Exceedance

09/19/2001

100000 24.4 Gas CT7NOXG STARTUP

Hourly Exceedance

09/19/2001

200000 10.2 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/20/2001

110000 24.2 Gas CT7NOXG STARTUP

Hourly Exceedance

09/21/2001

110000 18.4 Gas CT7NOXG STARTUP

Hourly Exceedance

09/21/2001

130000 28.9 Gas CT7NOXG PROCESS EQUIPMENT MALFUNCTION

Q3 ic p13 excess jjh.txt

Hourly Exceedance

09/22/2001

90000 15.8 Gas CT7NOXG STARTUP

Hourly Exceedance

09/22/2001

180000 16.8 Gas CT7NOXG SHUTDOWN

Hourly Exceedance

09/23/2001

100000 12.0 Gas CT7NOXG STARTUP

Hourly Exceedance

09/25/2001

140000 15.9 Gas CT7NOXG STARTUP

SUMMARY REPORT

GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

Pollutant (circle one - SO<sub>2</sub> / **NO<sub>x</sub>** / TRS / H<sub>2</sub>S / CO / Opacity)

Reporting Period dates: From: 07/01/2001 To: 09/30/2001

Company: Florida Power Corporation Emission Limit: 10 ppmvd @ 15%O<sub>2</sub>

Address: P. O. Box 14042 Monitor Manufacturer and Model No.: TECO 42  
St. Petersburg, FL 33733

Process unit Description: Intercession City Facility Date of latest CMS Certification or Audit: 2/1/01  
Combustion Turbine Unit P - 14  
Osceola County Total source operating time in reporting period: 678 (1)

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to:		1. CMS downtime in reporting period due to:	
a. Startup/shutdown	<u>102</u>	a. Monitor equipment malfunctions	<u>0</u>
b. Control equipment Problems	<u>0</u>	b. Non-Monitor equipment malfunctions	<u>0</u>
c. Process problems	<u>2</u>	c. Quality assurance calibration	<u>20</u>
d. Other known causes	<u>0</u>	d. Other known causes	<u>0</u>
e. Unknown causes	<u>0</u>	e. Unknown causes	<u>0</u>
2. Total duration of excess emissions:	<u>104</u>	2. Total CMS downtime	<u>20</u>
3. Total duration of excess emissions X (100) - [Total source operating time]	<u>15.34%</u> (2)	3. [total CMS downtime] X (100) - [Total source operating time]	<u>2.95%</u> (2)

On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete to the best of my knowledge.

Martin J. Drango *Martin J. Drango* Plant Manager 10/26/01  
 NAME: SIGNATURE: TITLE: DATE:

(1) For opacity, record all times in minutes. For gases, record all times in hours.

(2) For the reporting period: if the total duration of excess emissions is 1 percent or greater of the total operating time, or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report and the excess emission report described in sec. 60.7(c) shall be submitted.

=====  
=====  
Quarterly Excess Emissions Report  
Florida Power Corp  
Unit P14  
Orlando, Florida  
=====

=====  
Today's Date: 10/10/2001 Reporting Period  
Time: 15:28:44 /30/2001 07/01/2001 - 09

-----  
-----  
Date/ NOx Fuel ID Reason  
Time ppmvd  
-----  
-----

Hourly Exceedance  
07/03/2001  
90000 18.8 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/03/2001  
200000 17.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
07/04/2001  
100000 26.9 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/04/2001  
170000 11.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
07/05/2001  
90000 31.6 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/05/2001  
140000 10.2 Gas CT8NOXG SHUTDOWN

Q3 ic pl4 excess jjh.txt

Hourly Exceedance

07/06/2001

120000 12.3 Gas CT8NOXG STARTUP

Hourly Exceedance

07/06/2001

180000 16.4 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

07/08/2001

110000 17.3 Gas CT8NOXG STARTUP

Hourly Exceedance

07/10/2001

100000 15.9 Gas CT8NOXG STARTUP

Hourly Exceedance

07/10/2001

140000 14.7 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

07/11/2001

130000 29.8 Gas CT8NOXG STARTUP

Hourly Exceedance

07/12/2001

100000 24.4 Gas CT8NOXG STARTUP

Hourly Exceedance

07/14/2001

110000 24.2 Gas CT8NOXG STARTUP

Hourly Exceedance

07/16/2001

110000 26.7 Gas CT8NOXG STARTUP

Hourly Exceedance

07/17/2001

Q3 ic p14 excess jjh.txt  
CT8NOXG STARTUP

100000 18.0 Gas

Hourly Exceedance  
07/18/2001

70000 23.7 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/19/2001

180000 10.8 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
07/20/2001

70000 13.5 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/20/2001

80000 13.5 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/21/2001

80000 28.3 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/21/2001

170000 22.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
07/22/2001

80000 26.2 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/23/2001

80000 28.3 Gas CT8NOXG STARTUP

Hourly Exceedance  
07/25/2001

110000 26.4 Gas CT8NOXG STARTUP



Q3 ic p14 excess jjh.txt

Hourly Exceedance

07/26/2001

90000 19.1 Gas CT8NOXG STARTUP

Hourly Exceedance

07/26/2001

200000 16.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

07/27/2001

160000 12.1 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

07/28/2001

80000 23.9 Gas CT8NOXG STARTUP

Hourly Exceedance

07/28/2001

210000 11.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

07/29/2001

80000 29.3 Gas CT8NOXG STARTUP

Hourly Exceedance

07/30/2001

50000 16.2 Gas CT8NOXG STARTUP

Hourly Exceedance

07/31/2001

50000 52.7 Oil CT8NOXO STARTUP

Hourly Exceedance

07/31/2001

180000 10.4 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/01/2001

90000 26.9 Gas CT8NOXG STARTUP

Hourly Exceedance

08/03/2001

80000 52.0 Oil CT8NOXO STARTUP

Hourly Exceedance

08/06/2001

110000 19.0 Gas CT8NOXG STARTUP

Hourly Exceedance

08/06/2001

140000 47.2 Oil/Gas CT8NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance

08/06/2001

150000 43.9 Oil CT8NOXO PROCESS EQUIPMENT MALFUNCTION

Hourly Exceedance

08/06/2001

170000 47.8 Oil CT8NOXO SHUTDOWN

Hourly Exceedance

08/07/2001

110000 29.8 Gas CT8NOXG STARTUP

Hourly Exceedance

08/07/2001

180000 10.1 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/08/2001

210000 45.2 Oil CT8NOXO SHUTDOWN

Hourly Exceedance

08/09/2001

90000 12.4 Gas CT8NOXG STARTUP

Hourly Exceedance

Q3 ic p14 excess jjh.txt

08/09/2001  
180000 12.4 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
08/10/2001  
90000 15.4 Gas CT8NOXG STARTUP

Hourly Exceedance  
08/11/2001  
90000 14.1 Gas CT8NOXG STARTUP

Hourly Exceedance  
08/12/2001  
100000 30.5 Gas CT8NOXG STARTUP

Hourly Exceedance  
08/12/2001  
200000 44.6 Oil/Gas CT8NOXO SHUTDOWN

Hourly Exceedance  
08/13/2001  
190000 12.5 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
08/14/2001  
110000 17.3 Gas CT8NOXG STARTUP

Hourly Exceedance  
08/15/2001  
130000 20.2 Gas CT8NOXG STARTUP

Hourly Exceedance  
08/16/2001  
90000 12.3 Gas CT8NOXG STARTUP

Hourly Exceedance  
08/16/2001  
200000 10.6 Gas CT8NOXG SHUTDOWN

Q3 ic pl4 excess jjh.txt

Hourly Exceedance

08/17/2001

90000 15.0 Gas CT8NOXG STARTUP

Hourly Exceedance

08/17/2001

200000 34.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/19/2001

90000 26.7 Gas CT8NOXG STARTUP

Hourly Exceedance

08/20/2001

80000 28.7 Gas CT8NOXG STARTUP

Hourly Exceedance

08/21/2001

100000 26.6 Gas CT8NOXG STARTUP

Hourly Exceedance

08/21/2001

180000 13.4 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/22/2001

110000 17.4 Gas CT8NOXG STARTUP

Hourly Exceedance

08/22/2001

210000 13.1 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/23/2001

100000 28.1 Gas CT8NOXG STARTUP

Hourly Exceedance

08/23/2001

Q3 ic pl4 excess jjh.txt

120000 64.6 Oil/Gas CT8NOXO FUEL SWITCH (GAS TO OIL)

Hourly Exceedance

08/23/2001

200000 14.9 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/24/2001

90000 19.1 Gas CT8NOXG STARTUP

Hourly Exceedance

08/24/2001

200000 23.3 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/25/2001

90000 28.0 Gas CT8NOXG STARTUP

Hourly Exceedance

08/25/2001

200000 31.3 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/26/2001

110000 22.7 Gas CT8NOXG STARTUP

Hourly Exceedance

08/26/2001

200000 18.9 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

08/29/2001

90000 27.3 Gas CT8NOXG STARTUP

Hourly Exceedance

08/29/2001

200000 17.3 Gas CT8NOXG SHUTDOWN

Q3 ic p14 excess jjh.txt

Hourly Exceedance

08/30/2001

80000 21.6 Gas

CT8NOXG STARTUP

Hourly Exceedance

08/31/2001

90000 15.5 Gas

CT8NOXG STARTUP

Hourly Exceedance

08/31/2001

200000 11.8 Gas

CT8NOXG SHUTDOWN

Hourly Exceedance

09/01/2001

80000 17.5 Gas

CT8NOXG STARTUP

Hourly Exceedance

09/01/2001

190000 27.7 Gas

CT8NOXG SHUTDOWN

Hourly Exceedance

09/02/2001

120000 12.8 Gas

CT8NOXG STARTUP

Hourly Exceedance

09/02/2001

170000 11.5 Gas

CT8NOXG SHUTDOWN

Hourly Exceedance

09/03/2001

110000 29.9 Gas

CT8NOXG STARTUP

Hourly Exceedance

09/04/2001

90000 27.3 Gas

CT8NOXG STARTUP

Hourly Exceedance

09/04/2001

160000 38.1 Gas

CT8NOXG PROCESS EQUIPMENT MALFUNCTION

Q3 ic p14 excess jjh.txt

Hourly Exceedance

09/06/2001

200000 18.7 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

09/07/2001

100000 19.5 Gas CT8NOXG STARTUP

Hourly Exceedance

09/09/2001

170000 11.6 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

09/10/2001

110000 10.0 Gas CT8NOXG STARTUP

Hourly Exceedance

09/10/2001

200000 22.5 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

09/11/2001

100000 23.5 Gas CT8NOXG STARTUP

Hourly Exceedance

09/11/2001

180000 16.2 Gas CT8NOXG SHUTDOWN

Hourly Exceedance

09/12/2001

120000 23.2 Gas CT8NOXG STARTUP

Hourly Exceedance

09/16/2001

130000 22.4 Gas CT8NOXG STARTUP

Hourly Exceedance

Q3 ic pl4 excess jjh.txt

09/16/2001  
180000 17.3 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
09/17/2001  
120000 51.8 Oil CT8NOXO STARTUP

Hourly Exceedance  
09/17/2001  
180000 13.0 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
09/19/2001  
100000 27.3 Gas CT8NOXG STARTUP

Hourly Exceedance  
09/19/2001  
200000 10.5 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
09/20/2001  
110000 29.9 Gas CT8NOXG STARTUP

Hourly Exceedance  
09/20/2001  
170000 14.7 Gas CT8NOXG SHUTDOWN

Hourly Exceedance  
09/21/2001  
110000 18.6 Gas CT8NOXG STARTUP

Hourly Exceedance  
09/22/2001  
90000 11.9 Gas CT8NOXG STARTUP

Hourly Exceedance  
09/22/2001  
170000 46.6 Oil CT8NOXO SHUTDOWN



Q3 ic p14 excess jjh.txt

Hourly Exceedance

09/23/2001

90000 28.9 Gas CT8NOXG STARTUP

Hourly Exceedance

09/24/2001

80000 24.2 Gas CT8NOXG STARTUP



RECEIVED

NOV 26 2001

November 21, 2001

BUREAU OF AIR REGULATION

Mr. Al Linero, P.E., Administrator  
New Source Review Section  
Division of Air Resources Management  
Florida Department of Environmental Protection  
2600 Blair Stone Road, MS 5505  
Tallahassee, Florida 32399-2400

Dear Mr. Linero:

Re: Intercession City Units P12 – P14  
Application to Modify Permit ~~097001-003-AC/PSD-FL-268~~  
*0970014*

Please find enclosed four copies of an application to modify the Intercession City PSD air permit. The main focus of this request is to incorporate an upgrade to these units in conjunction with routine warranty work that is planned. This upgrade results in an increase in the firing temperature of these peaking units in order to maximize output and optimize efficiency. In addition, modifications to the current permit language are requested to address concerns related to the NOx excess emissions requirements. The requested changes are necessary to address the somewhat unique operating scenarios demonstrated by these units, as well as clarify the interpretation of the NOx compliance demonstration methodology and associated reporting requirements.

Although the two issues above are the primary focus of this modification, there are also several minor issues that Florida Power would like to address at this time. These include a request to reduce the annual visible emissions test period from 60 minutes to 30 minutes, clarification that required fuel oil analysis may be provided by either the facility or the fuel vendor, and removal of language requiring that each of these units to be capable of accommodating both oil and gas fuels.

Please contact Jamie Hunter at (727) 826-4363 or me if you have any questions or need additional information.

Sincerely,

Martin Drango  
Plant Manager/Responsible Official  
Intercession City Plant

jjh/JJH019

Enclosures

c: Jeff Koerner, FDEP - Tallahassee  
Scott Osbourn, ENSR – St. Petersburg

*C. Holladay*  
*J. Kozlowski, CD*  
*G. W. Worley, EPA*  
*G. Bermingham, NPS*

PLANT OFFICE: 6525 Osceola Polk Line Road \* P.O. Box 368 \* Intercession City \* Florida 33848 \* 407-396-2111

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