

RECEIVED

OCT 13 2003

October 8, 2003

BUREAU OF AIR REGULATION

Mr. Bruce Mitchell Bureau of Air Regulation Department of Environmental Protection 2600 Blair Stone Rd. Tallahassee, Florida 32399-2400

Re: Title V Permit No. 1270009-010-AV FPL Sanford Plant Comments

Dear Mr.Mitchell:

Pursuant to our conversation of September 26, 2003, comments on the above listed Title V air operating permit are listed below. It is our opinion that these are administrative corrections. Corrections are in blue.

Page 39 Subsection C. This section addresses the following emissions units.

E.U. ID	Brief Description							
No.								
	Repowered Unit 4: 4 (four) combined cycle only combustion turbines							
	Combustion curbines							
005	Combined Cycle Combustion Turbine (CCCT) Generator PSNCT4A with an unfired Heat Recovery Steam							
	Generator (HRSG)							
006	CCCT PSNCT4B with an unfired HRSG							
007	CCCT PSNCT4C with an unfired HRSG							
800	CCCT PSNCT4D with an unfired HRSG							

Page 45 Compliance Determination

Page 2
Title V Permit No. <u>1270009-010-AV</u>
FPL Sanford Plant Administrative Change

Page 53 C.51. The summary report form shall contain the information and be in the format shown in Figure 1 (attached)... Figure 1 was not attached.

Summary of Compliance Table 2-1: Changes are requested to avoid confusion: Even though this table is not for compliance we want to address the reference to the number of runs for visible emission testing & PM for Emission Units 005 through 012. Please change the reference to number of test runs to "duration of test method".

- Appendix I-1, List of Insignificant Emissions Units and/or Activities
 Please add the following Emission Units.
 - 20. CT4A through CT4D: primary steam and water vents/drains
 - 21. CT4A through CT4D: associated HRSGs: primary steam and water vents/drains
 - 22. CT4A through CT4D: common piping area: primary steam and water vents/drains
 - 23. CT4A through CT4D: common feedwater: primary steam and water vents/drains
- Appendix U-1, List of Unregulated Emissions Units and/or Activities Please add the following Emission Units.
- 11. Evaporative equipment cooler for Repowered Unit 4
- 12. Day tank for no. 2 fuel oil: 2000 gallons: for Emergency diesel generator

Thank you for your attention to the issues raised in this correspondence. Please do not hesitate to contact me at (561) 691-7057 regarding these issues.

Sincerely,

Mary J. Archer, QEP

Florida Power & Light Company

Cc: Leonard Kozlov - FDEP Central District

10/9/03

Dear Mary,

Thanks.

Bruce

----Original Message----

From: Mary_Archer@fpl.com [mailto:Mary_Archer@fpl.com]

Sent: Wednesday, October 08, 2003 3:49 PM

To: Mitchell, Bruce Cc: Mary_Archer@fpl.com

Subject: Re: DRAFT Comments letter; Sanford Power Plant, 1270009-0010-AV

Bruce

Attached are the comments we discussed pertaining to the FPL Sanford Power Plant Title V permit.

Thank you for your help in resolving these issues & don't hesitate to contact me with any questions. - Mary

office: 561-691-7057 cell: 561-758-3760

(See attached file: title V PSN comments10-8-03.doc)

October 8, 2003

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Sincerely,

Mary J. Archer, QEP Florida Power & Light Company

Cc: Leonard Kozlov - FDEP Central District

bcc: Roxane Kennedy PSN Randy Hopkins PSN

M.Archer JES/JB

File PSN Title V (JES/JB)

Mr. Scott M. Sheplak, P. E. State of Florida Department of Environmental Protection Division of Air Resources Management 2600 Blair Stone Road Tallahassee, FL 32399-2400

Copy FDEP district: Leonard Kozlov FDEP Central District 3319 Maguire Blvd., Suite 232 Orlando, FL 32803-3767

Mitchell, Bruce

From:

Mary_Archer@fpl.com

Sent:

Monday, October 06, 2003 1:30 PM

To:

Mitchell, Bruce

Cc:

Mary Archer@fpl.com

Subject:

DRAFT Comments to Table 2-1; Sanford Power Plant, 1270009-0010-AV

Bruce

Please give me a call at your convenience to discuss the issue concerning the visible emission tests on the Sanford CTs. Referenced below are conditions that I used in an effort to identify the test duration and number of runs for opacity. Also, the same issues are considered for PM requirements. I'd like to ensure that you are in agreement with our testing needs for these two parameters. Thank you & talk to you soon.

Mary 561-691-7057

Summary of Compliance Table 2-1: Changes are requested to avoid confusion: Even though this table is not for compliance we want to address the reference to the number of runs for visible emission testing for Emission Units 005 through 012. The following conditions from the permit support our understanding that a one run VE observation of one half hour is required for opacity and no test is required for PM beyond the initial test requirement. Unlike a steam unit - opacity is a constant during testing and does not vary through a three run test.

Page 27, Specific Condition No. B.24, Compliance with the SO2 and PM/PM10 emission limits: a. Natural Gas. The use of pipeline natural gas is the method for determining compliance for SO2 and PM/PM10, when firing natural gas. b. Fuel Oil. The use of very low sulfur fuel oil (0.05% content, by weight, or less) is the method of compliance for SO2 and PM/PM10, when firing distillate oil.

Page 28, Specific Condition No. B.29 and Page 28, Specific Condition No

Mitchell, Bruce

From:

Sheplak, Scott

Sent:

Friday, September 05, 2003 1:48 PM

To:

Mitchell, Bruce

Subject: RE: FPL Sanford Power Plant: 1270009-009-AC issued for the High-Temperature Peaking Mode for

repowered Units 4 and 5.

Al provided technical info. to me on this from GE. I would expect VOC and CO to be lower at the higher temperature.

Let's put into the permit something like this in either a condition or permitting note with regard to the VOC and CO peaking mode emission limits - "Testing under normal conditions for VOC and CO provides reasonable assurance of compliance under peaking mode operation."

----Original Message-----

From: Mitchell, Bruce

Sent: Friday, September 05, 2003 11:36 AM

To: Sheplak, Scott

Subject: FPL Sanford Power Plant: 1270009-009-AC issued for the High-Temperature Peaking Mode for

repowered Units 4 and 5.

9/5/03

Scott,

I have run into a potential problem with the above referenced permit modification that was issued yesterday. The permit contains emissions limiting standards for NO_x, CO, VOC and visible emissions (VE), but only requires a compliance test for NO_x and VE. Rule 62-297.310(7)(a)1., F.A.C., states that "The owner or operator of a new or modified emissions unit that is subject to an emissions limiting standardshall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit". I am trying to incorporate the terms and conditions of the permit modification into the Title V Permit through a revision and have not been able to resolve this issue. Your assistance is appreciated.

Thanks.

Bruce

BEST AVAILABLE COPY

TRANSMISSION VERIFICATION REPORT

09/04/2003 05:04 FDEP DIVISION OF AIR 8509226979 8504880114 BROG2J568046 TIME NAME

FAX

DATE, TIME FAX NO./NAME DURATION PAGE(\$)

09/04 05:03 615616917070 00:00:33 STANDARD ECM



Florida Department of **Environmental Protection**

Jeb Bush Governor

Twin Towers Office Building 2600 Blair Stone Road Taliahassee, Florida 32399-2400

David Struhs Secretary

FAX TRANSMITTAL SHEET

DATE:	9-4-03		
	Man- Archer 561/691-7057		,
PHONE	: 6 1 7057	FAX:	561/691-7070
FROM:	Bence Mitchell	PHONE:	850/413-9198
	Division of Air Resources Management	FAX:	850.922.6979
	1270009-010-AV		Extension of Time
CC:			
Total n	umber of pages including cover sheet:		
Mess	age		



Florida Department of Environmental Protection

Jeb Bush Governor

Twin Towers Office Building

2600 Blair Stone Road Tallahassee, Florida 32399-2400 David Struhs -Secretary

FAX TRANSMITTAL SHEET

DATE:	9-4-03
TO:	Mary Archer 561/691-7057 FAX: \$61/691-7070
PHONE:	FAX: \$61/691-7070
FROM:	Bruce Mitchell PHONE: 850/413-9198
	Division of Air Resources Management FAX: 850.922.6979
RE:	1270009-010-AV
CC:	<u>. </u>
Total n	umber of pages including cover sheet:
Mess	eage
	Thanks Many Sor your time and consideration, I'll stand-b
	Sor the return Saa. Take care,
	Bun With
	<u> </u>

If there are any problems with this fax transmittal, please call the above phone number.

"Protect, Conserve, and Manage Florida's Environmental and Natural Resources"

Golder Associates Inc.

6241 NW 23rd Street, Suite 500 Gainesville, FL 32653-1500 Telephone (352) 336-5600 Fax (352) 336-6603



1



JUN 09 2003

June 6, 2003

0237560

BUREAU OF AIR REGULATION

Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399

RE:

FPL SANFORD PLANT

TITLE V - SANFORD REPOWERING PROJECT - SANFORD UNIT 4

DEP FILE NO. 120009-004-AC AND 120009-007-AV

Attention: Mr. Scott M. Sheplak, P.E. Administrator, Title V Section

Dear Scott:

On behalf of Ms. Roxane Kennedy, Plant General Manager of Florida Power & Light Company's Sanford Plant, I am submitting the Title V permit application for Unit 4 of the Sanford Repowering Project. Enclosed you will find four copies of the application, one with the original signatures.

Please contact Ms. Mary Archer, the FPL application contact [phone (561) 691-7057], or myself if there are any questions.

Sincerely,

GOLDER ASSOCIATES INC.

Kennard F. Kosky, P.E.

Principal

KFK/jkw

Enclosures

cc: Ms. Roxane Kennedy, FPL Sanford Plant

Ms. Mary Archer, FPL Environmental Services w/enclosures

Mr. Randy Hopkins, FPL Sanford Plant w/enclosures

Mr. Leonard Kozlof, P.E., FDEP Central District w/enclosures

P:\Projects\2002\0237560 FPL Title V\4\4.1\L060603-Sanford.doc



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AUG 25 2003

BUREAU OF AIR REGULATION

March 19, 2003

Mr. Lynn Haynes Air and Radiation Technology Branch Air, Pesticides and Toxics Management USEPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303-8909

Re: Florida Power & Light Company (FPL)
Sanford Unit 4 Combined Cycle Plant
Submission of Manufacturer's Curves

Dear Mr. Haynes:

Pursuant to the requirements of Sanford's Combined Cycle Re-powering Project Unit 4 Air Construction Permit, Section III, Item No. 9, Emission Unit(s) Specific Conditions, attached for your use are the General Electric's Model PG7241(FA) Gas Turbine Manufacturer's Curves based on varying compressor inlet temperatures conditions.

If you should have any questions regarding the attachments, please do not hesitate to contact me at (561) 691-2930 or Michael Szybinski at (561) 691-2898.

Very truly yours,

Nancy Kierspe

Designated Representative

Florida Power & Light Company

cc:

Errin Pichard - FDEP Division of Air Resource Management Leonard T. Kozlov, Manager - FDEP Central Florida District John B. Turner - FDEP Central District Office Garry Kuberski - FDEP Central District Office Roxane Kennedy - Plant General Manager Ken Simmons - JES/FPL Randy Hopkins - Plant Environmental Specialist Augie de la Vega - PGD Emission Crew Supervisor Tom Young - Construction Site Manager Brian Hill - Black & Veatch File

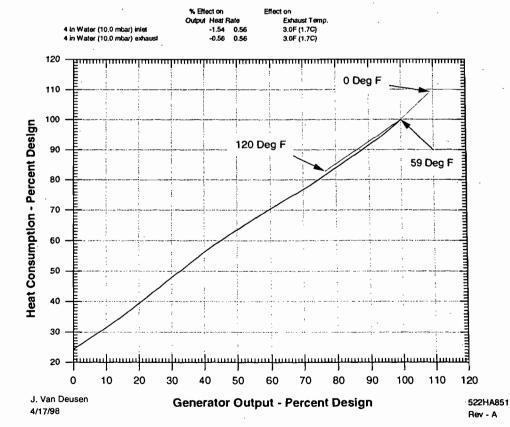
General Electric Model PG7241(FA) Gas Turbine

Estimated Performance - Configuration: DLN Combustor

Compressor Inlet Conditions 59 F (15 C), 60% Relative Humidity Atmospheric Pressure 14.7 psia (1.013 bar)

Fuel:			Natural Gas	3	
Design Output	kW		171700		
Design Heat Rate (LHV)	BłukWh	(kJ/kWh)	9360	(9870)	
Design Heat Cons (LHV)	Blufti	(kJ/h)x10^6	1607.1	(1695.2)	
Design Exhaust Flow	lb/h	(kg/h)x10^3	3542.0	(1607)	
Exhaust Temperature	deg. F	(deg. C)	1116	(602.2)	
Load			Base		

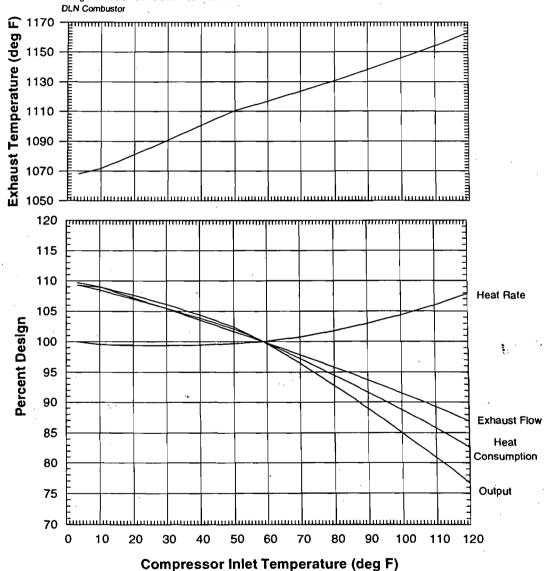
- correction on curve 416HA662 Rev A
- 2. Ambient temperature correction on curve 522HA852 Rev A.
- 3. Effect of modulating IGV's on exhaust temperature and flow on curve 522HA853 Rev A.
- 4. Humidity effects on curve 498HA697 Rev. B all performance calculated
- with a constant specific humidity of ,0064 or less as not to exceed 100% relative humidity.
- 5. Plant Performance is measured at the generator terminals and includes allowances for the effects of inlet bleed heating, exitation power, shaft driven auxiliaries, and 3.04 in H2O (6.33 mbar) inlet and 5.5 in H2O (13.70 mbar) exhaust pressure drops and a DLN Combustor. 6. Additional inlet and exhaust pressure loss effects:



GENERAL ELECTRIC MODEL PG7241(FA) GAS TURBINE

Effect of Compressor Inlet Temperature on Output, Heat Rate, Heat Consumption, Exhaust Flow And Exhaust Temperature at Baseload

Fuel: Natural Gas Design Values on Curve 522HA851 Rev A



J. Van Deusen 4/17/98

522HA852 Rev - A

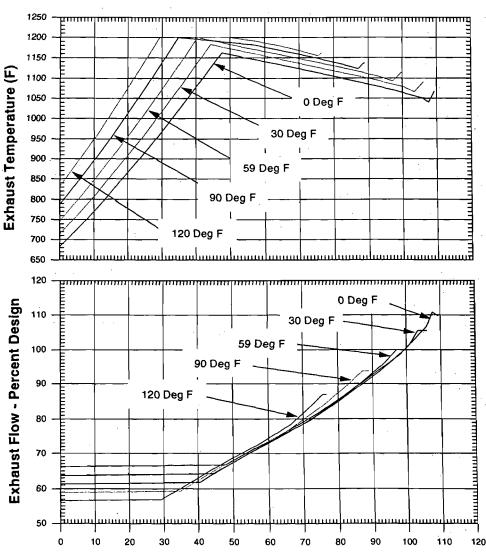
GENERAL ELECTRIC MODEL PG7241(FA) GAS TURBINE

Effect of Inlet Guide Vane on Exhaust Flow and Temperature As a Function of Output and Compressor Inlet Temperature

Fuel: Natural Gas

Design Values on Curve 522HA851 Rev A

DLN Combustor



Generator Output - Percent

J. Van Deusen 4/17/98 522HA853 Rev - A

Mitchell, Bruce

From:

Mary_Archer@fpl.com

Sent:

Wednesday, August 20, 2003 11:46 PM

To:

Mitchell, Bruce

Cc:

Randy_Hopkins@fpl.com; Mary_Archer@fpl.com

Subject:

FPL Sanford Testing on oil

Bruce

Sanford 4 CTs [PSR 4] are not permitted to burn oil in the repowering plan. Only the Unit 5 CTs [PSR 5] and Unit 3 [PSN 3] are permitted to burn oil. PSR 5 has not burned any oil or tested on oil at this time.

If you need additional information please contact me. Thanks, Mary

561-691-7057

Mitchell, Bruce

From:

Mary_Archer@fpl.com

Sent:

Friday, July 18, 2003 4:21 PM

To:

Mitchell, Bruce

Subject:

Item to add to Sanford permit

Bruce

I went back through my phone log & found we had agreed the peaking language could wait for the Unit 4 changes to be included in the permit for both Unit 4 & 5.

The latest application adding unit 4 should also address this issue.

You should receive proof of the Putnam public notice soon.

- Mary

(FOR INTERNAL USE ONLY) State of Florida summary checklist for Title V permit applications (cont'd)

III. Initial distribution of application.
 a. Disposition of 4 paper/electronic copies submitted: 1- Clean originals to file? YN
1- CO District Y N N N N N N N N N N N N N N N N N N
b. Disposition of electronic files submitted: copy placed onto PC? Y N
c. Disposition of ELSA submitted: version used [circle]: 1.0 1.1 1.2.1 1.3 1.3a 1.3b Uploaded to EARS? Y N by date/_/
d. Electronic information submitted previewed? Y N N/A
Comment(s):
•. •
·

(FOR INTERNAL USE ONLY) State of Florida summary checklist for Title V permit applications

Facility Owner/Operator Name: FPL
Facility ID No.: 1270009 Site Name: Sinford Plat
County: Volusia
application receipt date 06/09/03
I. Preliminary scanning of application submitted.
a. Was application submitted to correct permitting authority? b. Was an application filed? c. Was the application filed timely? Y V N Y* N N
b. Was an application filed? Y* N
· · · · · · · · · · · · · · · · · · ·
d. Application format filed [check one].
Hard copy of official version of form?
A facsimile of official version of form? Some combination?
e. 4 copies (paper/electronic) submitted? Y N
e. 4 copies (paper/electronic) submitted? f. Electronic diskettes protected/virus scanned/marked? Y N N/A by date / / /
by date//
g. Entire hard copy of Section I. provided (Pages 1-11 of form)? Y N
Facility identified (Page 1)? [if not complete a Page 1] R.O. certification signed and dated (Page 2)? P.E. certification signed and dated (Page 7)? Y* Attached Y* N N
R.O. certification signed and dated (Page 2)? Y* N N
P.E. certification signed and dated (Page 7)? Y* N
h. Any confidential information submitted?
h. Any confidential information submitted? If yes, R.O. provided hard copy to us and EPA? Y N N
If yes, hard copy locked up and note filed with application? Y* N
If yes, hard copy locked up and note med with application:
i. Type of application filed.
TV renewal application only? Y N
Initial TV application only? All units demonstrated initial compliance? If, not included compliance plan? Y N N N N
If, not included compliance plan? Y N
Any units subject to acid rain? N
`
j. CAM Plan submitted? Y N
Nato(a) [*] - man datam
Note(s): [*] = mandatory.
Comment(s):
Reviewer's initials 2% date $36/10/3$. Concurrence initials date $1/10$

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State Plant Name Boiler1 Auction Reserve Ing Anoual Auction Reserve Ing Anoual Auction Reserve Ing Anoual Auction Anoual Auction Anoual Auction Reserve Ing Anoual Auction Anoual Auction Reserve Ing Anoual Auction Anoual Auction Reserve Ing Anoual Auction Anoual Auction Reserve Ing		Table 2 - Phase II Allowance Allocations								
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FIL		FL	P L Bartow	2	70	-11	2961	370	and and the	2
Fig. Port Everglades PPE2 70		FEF	P.L. Bartow	3	157	. 2	5428	157	157	
FL	-	FL-	Port Everglades	PPE1	:	1	2339	68	68	3.5
FU	-	FL	Port Everglades ::	PPE2	70	1	2413	- 70	270	24
Fig. Putnam	1	FL	Port Everglades	PPE3	171	2	5880	: 170	170	V 7 5801
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Florida Department of Environmental Protection

TO:

Michael G. Cooke M

THRU:

Trina L. Vielhauer

A.Linero

FROM:

Teresa Heron

DATE:

August 25, 2003

SUBJECT:

Peaking Mode of Operation for the Eight Combined Cycle Combustion Turbines.

FPL Sanford 2200 MW Project

DEP File No. 1270009-009-AC and PSD-FL-270D

Attached is the final permit package for the above facility.

The application is for a permit modification to allow peak operation mode up to 400 hours per year for each of the existing eight combined cycle turbines. Peaking is expected to increase short term NOx emissions from 9 to 15 ppmvd for each turbine and 68 TPY for all eight turbines due to higher temperatures during this mode. However, due to the substantial emissions decrease of this pollutant during the permitting of the repowering project, this project will not result in a net increase of NO_X emissions or any other criteria pollutants.

We have determined that the project nets out of PSD for all pollutants because of the very substantial emissions reductions resulting from the 1999 repowering project at the site.

We recommend your approval of the attached final permit package.

AAL/th

Attachments

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NOTICE OF PERMIT

In the Matter of an Application for Permit Modification by:

Ms. Roxane Kennedy, Plant General Manager FPL Sanford Plant 950 South Highway 17-92 DeBary, Florida 32713 DEP File No. 1270009-009-AC and PSD-FL-270D Peak Mode of Operation Project 2200 MW Combined Cycle Combustion Turbines Volusia County

Enclosed is the Final Permit Number 1270009-009-AC and PSD-FL-270D for an air construction permit to authorize peak mode operation for each 250 MW combined cycle turbine at the Sanford Power Plant in Volusia County. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

Trina L. Vielhauer, Chief Bureau of Air Regulation

Prince I Violhaur

CERTIFICATE OF SERVICE

Roxane Kennedy, FPL*
Len Kozlov, DEP CD
Gregg Worley, EPA
John Bunyak, NPS
Ken Kosky, P.E., Golder Associates

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk)

FINAL DETERMINATION

Florida Power and Light Company (FPL)
Sanford Power Plant, Volusia County
2200 MW Combined Cycle Turbines Peak Mode of Operation
DEP File No. 1270009-009-AC and PSD-FL-270 D

An Intent to Issue an air construction permit authorizing peak operation mode up to 400 hours per year for each of the eight combined cycle turbines at the Sanford Power Plant in Volusia County was distributed on April 22, 2003. The applicant's name and address are Florida Power & Light, Sanford Plant, 950 South Highway 17-92, DeBary, Florida 32713.

The Public Notice of Intent to Issue Air Construction Permit was published in The News-Journal on July 31, 2003. Comments from FPL and the DEP Central District were received as a result of the Public Notice.

FPL requested to revise Specific Condition No. 50 to clarify that the lb/hr emissions are at ISO conditions and to revise Specific Condition No. 51 to include testing requirement for only two of the eight units. The Central District requested to define full load and peak load in terms of the heat input based on high or low heating value or in a manner that allows the field inspector to determine whether the turbine is operating at full or peak load. They also commented on the need for compliance stack testing for all eight units but are agreeable with representative testing for peak operation.

The Department considered FPL's request and revised Specific Conditions No. 50 and 51 as follows:

50. Peaking Mode Operation Limits:

The combined cycle gas turbines are subject to the following emission limits during peaking mode operation. Emissions limits are corrected to 15% O₂ (lb/hr at ISO Conditions).

Emission Unit ARMS 005-012	NO _X	СО	voc	PM/Visibility (% Opacity)	Technology and Comments
Combustion	15 ppmvd (24-hr block avg)	9 ppmvd	1.4 ppmvd	10	Dry Low NO _X Combustors
Turbines (each)	102 lb/hr	29 lb/hr	3 lb/hr		Natural Gas, Good Combustion

Averaging Time: A 24-hour block shall begin at midnight of each operating day and shall be calculated from 24 consecutive hourly average emission rate values. If a unit operates less than 24 hours during the block, the 24-hour block average shall be the average of available valid hourly average emission rate values for the 24-hour block. For purposes of determining compliance with the 24-hour CEMS standards, missing (or excluded) data shall not be substituted. Instead, the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block. CEMS data collected during peaking mode operation shall be excluded from the demonstration of compliance with the NOx standards during normal gas firing.

[Applicant Request, Rules 62-210.200 (Definitions-Potential Emissions), and 62-4.070(3), F.A.C.].

51. <u>Compliance Procedures</u>: Compliance with the allowable emission limiting standards shall be determined within 60 days after achieving the maximum production rate at which each unit will

be operated, but not later than 180 days following initial operation of the unit in the *peaking* mode, by using the following reference methods as described in 40 CFR 60, Appendix A, and adopted by reference in Chapter 62-204.800, F.A.C.

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 7, "Determination of Nitrogen Oxides Emissions from Stationary Sources."

Compliance for each pollutant after the initial tests shall be the same as outlined in the original permit 0710002-004-AC issued on 11/25/98.

Testing for peak operation may be carried out on two of the units. The Department will consider testing of two of the units to be representative of all eight units.

[Application; Rules 62-210.200(PTE) and 62-4.070 (3), F.A.C.]

Regarding the Central District's comment, we refer to Specific Condition 49 (revised as shown below) that states the heat input based on the maximum heat input rate at high-temperature peak mode. This is, 1,838 million Btu per hour (HHV) which is equivalent to 1,656 million Btu per hour (LHV).

This condition is modified as follows:

49. Each gas turbine may operate in a high-temperature peaking mode when firing natural gas to generate additional direct, shaft-driven electrical power to respond to peak demands. During any consecutive 12 months, each combined cycle gas turbine shall operate in this peaking mode for no more than 400 hours of operation. The maximum heat input rate to each gas turbine is 1,838 MMBtu per hour in peak mode operation (based on a compressor inlet air temperature of 59° F and the lower-higher heating value (LHHV) of natural gas, and 100% load). [Applicant Request, Rules 62-210.200 (Definitions-Potential Emissions), and 62-4.070(3), F.A.C.].

In reference to the *full load*, Specific Condition No. 9 of the original PSD-Fl-270 permit states: "The design heat input rates for natural gas firing, based on the high heating value (HHV) of the fuel to *each* combustion turbine at compressor inlet conditions of 59°F, 60% relative humidity, 100% load, and 14.7 psia is 1,776 million Btu per hour (MMBtu/hr). The design heat input for oil firing is 1,930 MMBtu/hr (HHV, 60% relative humidity, 100% load, 59°F compressor inlet and 14.7 psia)". The 1,776 million Btu per hour (HHV) is equivalent to 1,600 million Btu per hour (LHV) for gas firing and the 1,930 million Btu per hour (HHV) is equivalent to 1,820 million Btu per hour (LHV) for oil firing.

Regarding testing, we consider testing of two units to be representative of all eight units. These units are identical. This facility did not trigger PSD review for NOx or CO due to the substantial contemporaneous decreases as a result of the repowering project.

The sequence of the permit numeration was revised to PSD-FL-270C **D**. The project modification No.1270009-008-AC/PSD-FL-270AC issued on 3/18/03 was added to the language in Specific Condition 48.

The final action of the Department will be to issue the permit with the changes noted above.



Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

David B. Struhs Secretary

PERMITTEE:

Florida Power & Light Company Sanford Power Plant 950 South Highway 17-92 DeBary, Florida 32713 Permit No. 1270009-009-AC (PSD-FL-270 D)
Project: 2200 MW Repowering Project

SIC No. 4911

Expires: July 1, 2004

Authorized Representative:

Roxane Kennedy Plant General Manager

PROJECT AND LOCATION:

This permit modification authorizes peak operation mode for up to 400 hours per year for each of the existing eight combined cycle combustion turbines that comprise the 2200 MW repowering project. The eight combined cycle units have been constructed, tested, and are in operation. Each unit is a 170 megawatt General Electric MS7241FA gas-fired combustion turbine-generator with an unfired heat recovery steam generator (HRSG) that raises sufficient steam to produce another 80 MW via the existing steam-driven electrical generators.

This facility is located at 950 South Highway 17-92, DeBary, Volusia County. UTM coordinates are: Zone 17, 468.3 km E and 3,190.3 km N.

STATEMENT OF BASIS:

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to modify the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Michael G. Cooke, Director Division of Air Resources

Mulul D. Coole

Management

AIR CONSTRUCTION PERMIT MODIFICATION 1270009-009-AC AND PSD-FL-270D SPECIFIC CONDITIONS

- 47. This permit modification (No.1270009-009-AC/PSD-FL-270D) regulates emissions during high temperature peaking mode operation and modifies original Permit No.1270009-004-AC/PSD-FL-270 issued on 9/14/99.
- 48. The provisions of the original air construction permit No.1270009-004-AC/PSD-FL-270 issued on 9/14/99, the administrative correction (No.1270009-004-AC/PSD-FL-270A) issued on 5/2/00, the authorization for excess emissions following a rotor blade change-out (No.1270009-004-AC/PSD-FL-270B) issued on 3/18/03 and the modification of Specific Conditions 24, 33 and 46 (No.1270009-008-AC/PSD-FL-270C) issued on 3/18/03 remain as originally issued except for these additional new specific conditions.
- 49. Each gas turbine may operate in a high-temperature peaking mode when firing natural gas to generate additional direct, shaft-driven electrical power to respond to peak demands. During gas any consecutive 12 months, each combined cycle gas turbine shall operate in this peaking mode for no more than 400 hours of operation. The maximum heat input rate to each gas turbine is 1838 MMBtu per hour in peak mode operation (based on a compressor inlet air temperature of 59° F and the higher heating value (HHV) of natural gas).

[Applicant Request, Rules 62-210.200 (Definitions-Potential Emissions), and 62-4.070(3), F.A.C.].

50. Peaking Mode Operation Limits:

The combined cycle gas turbines are subject to the following emission limits during peaking mode operation. Emissions limits are corrected to 15% O_2 (lb/hr at ISO Conditions).

	Emission Unit ARMS 005-012	NO _X	СО	voc	PM/Visibility (% Opacity)	Technology and Comments
!	Combustion Turbines (each)	15 ppmvd (24-hr block avg) 102 lb/hr	9 ppmvd 29 lb/hr	1.4 ppmvd 3 lb/hr	10	Dry Low NO _X Combustors Natural Gas, Good Combustion

Averaging Time: A 24-hour block shall begin at midnight of each operating day and shall be calculated from 24 consecutive hourly average emission rate values. If a unit operates less than 24 hours during the block, the 24-hour block average shall be the average of available valid hourly average emission rate values for the 24-hour block. For purposes of determining compliance with the 24-hour CEMS standards, missing (or excluded) data shall not be substituted. Instead, the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block. CEMS data collected during peaking mode operation shall be excluded from the demonstration of compliance with the NOx standards during normal gas firing.

[Applicant Request, Rules 62-210.200 (Definitions-Potential Emissions), and 62-4.070(3), F.A.C.].

51. Compliance Procedures: Compliance with the allowable emission limiting standards shall be determined within 60 days after achieving the maximum production rate at which each unit will be operated, but not later than 180 days following initial operation of the unit in the peaking mode, by using the following reference methods as described in 40 CFR 60, Appendix A, and adopted by reference in Chapter 62-204.800, F.A.C.



2200 MW Combined Cycle Turbines Peak Mode Operation

Sanford Power Plant Volusia County

AIR CONSTRUCTION PERMIT MODIFICATION 1270009-009-AC AND PSD-FL-270D SPECIFIC CONDITIONS

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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 7, "Determination of Nitrogen Oxides Emissions from Stationary Sources."

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Compliance for each pollutant after the initial tests shall be the same as outlined in the original permit 0710002-004-AC issued on 11/25/98.

Testing for peak operation may be carried out on two of the units. The Department will consider testing of two of the units to be representative of all eight units.

[Application; Rules 62-210.200(PTE) and 62-4.070 (3), F.A.C.]

- 52. <u>Title V Permit</u>: This permit authorizes modification of the emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]
- 53. Expiration Date: The expiration date of original permit No.1270009-004-AC/PSD-FL-270 is extended from December 31, 2003 to July 1, 2004.

FT. PY AP

U.S. Postal Service
CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) Roxane Kennedy Plant General Manager S 1578 Postage Certified Fee **Postmark** 2000 Return Receipt Fee (Endorsement Required) Here Restricted Delivery Fee (Endorsement Required) 1140 Total Postage & Fees Ms. Roxane Kennedy, Plant General Manager Street, Apt. No.; or PO Box No. 950 South Highway 17-92 950 South Highway 17-92 City, State, ZIP+ 4 Debary, Florida 32713 PS Form 3800, January 2001

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X A. Signature X A. Signature X A. Signature X A. Signature C. Date of Delivery A. Signature A. Signatur
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Ms. Roxane Kennedy Plant General Manager FPL:Sanford Power Plant 950 South Highway 17-92	SPS - 32113
Debary, Florida 32713	3. Service Type
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	4. Restricted Delivery? (Extra Fee) ☐ Yes
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PS Form 3811, August 2001 Domestic Retu	urn Receipt 102595-02-M-19#0