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Serial: PE&RAS-07-037  
August 27, 2007

United States Nuclear Regulatory Commission  
ATTENTION: Document Control Desk  
Washington, DC 20555-0001

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 AND 50-324 / LICENSE NOS. DPR-71 AND DPR-62

CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT  
DOCKET NO. 50-302 / LICENSE NO. DPR-72

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1  
DOCKET NO. 50-400 / LICENSE NO. NPF-63

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261 / LICENSE NO. DPR-23

**SEMIANNUAL 10 CFR 26 FITNESS FOR DUTY PROGRAM DATA**

Ladies and Gentlemen:

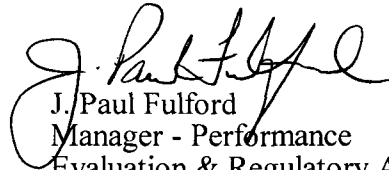
Pursuant to 10 CFR 26.71(d), enclosed is the semiannual Fitness For Duty (FFD) Program performance data for the above listed plants belonging to Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc. (PEC), and Florida Power Corporation, now doing business as Progress Energy Florida, Inc. (PEF).

The enclosed report provides FFD Program performance data for personnel subject to the requirements of 10 CFR 26, for the period January 1, 2007 through June 30, 2007.

This document contains no new regulatory commitment.

Please contact me at (919) 546-6901 if you need additional information concerning this report.

Sincerely,

  
J. Paul Fulford  
Manager - Performance  
Evaluation & Regulatory Affairs

HAS  
Enclosure

c: W. D. Travers, Regional Administrator – Region II  
USNRC Resident Inspector – BSEP, Unit Nos. 1 and 2  
USNRC Resident Inspector – CR3  
USNRC Resident Inspector – SHNPP, Unit No. 1  
USNRC Resident Inspector – HBRSEP, Unit No. 2  
S. N. Bailey, NRR Project Manager – BSEP, Unit Nos. 1 and 2; CR3  
M. G. Vaaler, NRR Project Manager – SHNPP, Unit No. 1; HBRSEP, Unit No. 2  
E. S. Finley – North Carolina Utilities Commission  
R. Vance – North Carolina Utilities Commission  
S. Watson – North Carolina Utilities Commission  
B. Hall – North Carolina Department of Environmental and Natural Resources

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# **Fitness For Duty Program**

**(January 1, 2007 – June 30, 2007)**

## **PERFORMANCE DATA**

## SUMMARY DATA AND ANALYSIS

Description			Carolina Power & Light Company (Progress Energy Carolinas, Inc.)			Florida Power Corporation (Progress Energy Florida, Inc.)	
6-Month Reporting Period: January – June / 2007	Random Testing Results	Data Analysis		Brunswick	Harris	Robinson	Crystal River
		By Site *	Number of Random Tests Conducted	420	282	243	209
			Average Population Eligible for Testing	1441	944	868	869
			Random Testing Rate	29%	30%	28%	24%
		By Licensee	Number of Random Tests Conducted	945			209
			Average Population Eligible for Testing	3253			869
			Random Testing Rate	29%			24%

\* Data for corporate and other support staff are included with site data, as appropriate.  
Analysis of the data indicates no program weakness requiring management action.

## SUMMARY OF MANAGEMENT ACTIONS

Unescorted access for the individuals with confirmed positive tests was denied or revoked as applicable.

## EVENTS REPORTED BY TELEPHONE UNDER 10 CFR 26.73

No significant fitness-for-duty event was reported under 10 CFR 26.73.

**FITNESS FOR DUTY PROGRAM  
PERFORMANCE DATA  
Personnel Subject to 10 CFR 26**

Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., (PEC)		June 30, 2007
Company		6 Months Ending
Brunswick Steam Electric Plant		
Location		
Cindy Cunningham		919-546-5360
Contact Name		Phone (include area code)

Cutoffs: Screen/Confirmation (ng/ml)      ☐ Appendix A to 10 CFR 26  

Marijuana	50/15	Amphetamines	1000/500	_____ /
Cocaine	300/150	Phencyclidine	25/25	_____ /
Opiates	300/300	Alcohol (% BAC)	0.04%/0.04%	_____ /

Testing Results	Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access	846		N/A		595	
CATEGORIES	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access	67	0	N/A	N/A	1080	7
<u>For Cause:</u>						
Post accident	2	0	N/A	N/A	1	0
Observed behavior	0	0	N/A	N/A	3	2
Random	243	0	N/A	N/A	177	2
Follow-Up	11	0	N/A	N/A	9	0
Other	0	0	N/A	N/A	1	0
Refusal to Participate	0	0	N/A	N/A	0	0
Total	323	0	N/A	N/A	1271	11

## Breakdown of Confirmed Positive Tests for Specific Substances

### BRUNSWICK

	Marijuana (NRC/PEC CUTOFF)	Cocaine	Opiates	Amphet- amines	Phency- clidine	Alcohol	Refusal to Test	Adulteration	2	3	4	5	
Licensee Employees	0	0	0	0	0	0	0	0					
Long-Term Contracts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Short-Term Contracts	3/2	2	1	0	0	4	0	0					A
Total	3/2	2	1	0	0	4	0	0					10/2

\*\*\*One individual tested positive for two drugs (THC and cocaine)

**FITNESS FOR DUTY PROGRAM  
PERFORMANCE DATA  
Personnel Subject to 10 CFR 26**

Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., (PEC)	June 30, 2007
Company	6 Months Ending
Shearon Harris Nuclear Power Plant	
Location	
Cindy Cunningham	919-546-5360
Contact Name	Phone (include area code)

Cutoffs: Screen/Confirmation (ng/ml)      ☐ Appendix A to 10 CFR 26  

Marijuana	50/15	Amphetamines	1000/500	/
Cocaine	300/150	Phencyclidine	25/25	/
Opiates	300/300	Alcohol (% BAC)	0.04%/0.04%	/

Testing Results	Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access	654		N/A		290	
CATEGORIES	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access	63	0	N/A	N/A	123	0
<u>For Cause:</u>						
Post accident	1*	0	N/A	N/A	0	0
Observed behavior	0	0	N/A	N/A	3	0
Random	202	0	N/A	N/A	80	2
Follow-Up	0	0	N/A	N/A	0	0
Other	0	0	N/A	N/A	0	0
Refusal to Participate	0	1*	N/A	N/A	0	0
Total	266	1	N/A	N/A	206	2

\*Employee refused to participate when subject to testing for cause.

## Breakdown of Confirmed Positive Tests for Specific Substances

### HARRIS

	Marijuana (NRC/PEC CUTOFF)	Cocaine	Opiates	Amphet- amines	Phency- clidine	Alcohol	Refusal to Test	Adulteration	2	3	4	5	
Licensee Employees	0	0	0	0	0	0	1	0					
Long-Term Contracts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Short-Term Contracts	0	1	0	0	0	1	0	0					A
Total	0	1	0	0	0	1	1	0					3/0

**FITNESS FOR DUTY PROGRAM  
PERFORMANCE DATA  
Personnel Subject to 10 CFR 26**

Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., (PEC)	June 30, 2007
_____ Company	_____ 6 Months Ending
H. B. Robinson Steam Electric Plant	
_____ Location	
Cindy Cunningham	919-546-5360
_____ Contact Name	_____ Phone (include area code)

Cutoffs: Screen/Confirmation (ng/ml)      ☐ Appendix A to 10 CFR 26  

Marijuana	50/15	Amphetamines	1000/500	_____ /
Cocaine	300/150	Phencyclidine	25/25	_____ /
Opiates	300/300	Alcohol (% BAC)	0.04%/0.04%	_____ /

Testing Results	Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access	514		N/A		354	
CATEGORIES	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access	28	0	N/A	N/A	430*	4
<u>For Cause:</u>						
Post accident	0	0	N/A	N/A	0	0
Observed behavior	0	0	N/A	N/A	1	1
Random	145	0	N/A	N/A	98	1
Follow-Up	0	0	N/A	N/A	3	0
Other	0	0	N/A	N/A	0	0
Refusal to Participate	0	0	N/A	N/A	0	1*
<b>Total</b>	<b>173</b>	<b>0</b>	<b>N/A</b>	<b>N/A</b>	<b>532</b>	<b>7</b>

\*Contractor refused to participate when subject to pre-access testing.



## Breakdown of Confirmed Positive Tests for Specific Substances

### ROBINSON

	Marijuana (NRC/PEC CUTOFF)	Cocaine	Opiates	Amphet- amines	Phency- clidine	Alcohol	Refusal to Test	Adulteration	2	3	4	5	
Licensee Employees	0	0	0	0	0	0	0	0					
Long-Term Contracts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Short-Term Contracts	1/0	3	0	0	0	2	1	0					A
Total	1/0	3	0	0	0	2	1	0					7/0

**FITNESS FOR DUTY PROGRAM  
PERFORMANCE DATA  
Personnel Subject to 10 CFR 26**

Florida Power Corporation, now doing business as Progress Energy Florida, Inc., (PEF)		June 30, 2007
Company		6 Months Ending
Crystal River Nuclear Plant		
Location		
Cindy Cunningham		919-546-5360
Contact Name		Phone (include area code)

Cutoffs: Screen/Confirmation (ng/ml)      ☐ Appendix A to 10 CFR 26  

Marijuana	50/15	Amphetamines	1000/500	/
Cocaine	300/150	Phencyclidine	25/25	/
Opiates	300/300	Alcohol (% BAC)	0.04%/0.04%	/

Testing Results	Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access	585		N/A		284	
CATEGORIES	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access	67	0	N/A	N/A	123	0
<u>For Cause:</u>						
Post accident	0	0	N/A	N/A	0	0
Observed behavior	0	0	N/A	N/A	2	0
Random	147	0	N/A	N/A	62	0
Follow-Up	4	0	N/A	N/A	0	0
Other	0	0	N/A	N/A	0	0
Refusal to Participate	0	0	N/A	N/A	0	0
Total	218	0	N/A	N/A	187	0

## Breakdown of Confirmed Positive Tests for Specific Substances

### CRYSTAL RIVER

	Marijuana (NRC/PEF CUTOFF)	Cocaine	Opiates	Amphet- amines	Phency- clidine	Alcohol	Refusal to Test	Adulteration	2	3	4	5	
Licensee Employees	0	0	0	0	0	0	0	0					
Long-Term Contracts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Short-Term Contracts	0	0	0	0	0	0	0	0					A
Total	0	0	0	0	0	0	0	0					0/0