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 MCCARTHY, D. C. Carolina Power & Light Co.  
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SUBJECT: Forwards semiannual fitness-for-duty program performance data for Jan-June 1992.

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NOTES: Application withdrawn 10/20/72. 05000342/  
 Application for permit renewal filed. 05000400

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Carolina Power & Light Company

AUG 28 1992

SERIAL: NLS-92-228  
10CFR26

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

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

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

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

SEMIANNUAL 10CFR26 FITNESS FOR DUTY PROGRAM DATA

Gentlemen:

Pursuant to 10CFR26.71(d), Carolina Power & Light Company (CP&L) hereby provides the required semiannual Fitness For Duty Program performance data.

The enclosed report, submitted on standardized Nuclear Management and Resources Council (NUMARC) forms, provides Fitness For Duty Program performance data for CP&L and contractor personnel subject to 10CFR26. This report covers the period January 1, 1992 through June 30, 1992.

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

Yours very truly,

David C. McCarthy  
Manager

Nuclear Licensing Section

040051

DBB/jbw

Enclosures

cc: Mr. S. D. Ebnetter      Ms. B. L. Mozafari  
     Mr. L. W. Garner      Mr. R. L. Prevatte  
     Mr. N. B. Le          Mr. J. E. Tedrow  
     Mr. R. H. Lo

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PDR ADDCK 05000364  
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AD21

**CAROLINA POWER & LIGHT COMPANY**

**Fitness For Duty Program**

**(January 1, 1992 - June 30, 1992)**

**PERFORMANCE DATA**

Approved: \_\_\_\_\_

*Fred Underwood*

Director, Fitness For Duty

## **CAROLINA POWER & LIGHT COMPANY**

**Fitness for Duty Program  
(January 1, 1992 - June 30, 1992)**

### **SUMMARY OF MANAGEMENT ACTIONS**

#### **Lessons Learned & Actions Taken**

None.

#### **Actions Taken to Correct Program Weaknesses**

None.

#### **Events Reported by Telephone Under 10 CFR 26.73**

None.

#### **Effectiveness Evaluation**

- The rate of random testing during this reporting period was 55% (2,644 random tests conducted with 4,738 workers eligible for testing).
- There were no abuses of over the counter or prescription medicines during this reporting period.
- There were no FFD Appeals during this reporting period.

## **CAROLINA POWER & LIGHT COMPANY**

**Fitness For Duty Program  
January 1, 1992 - June 30, 1992**

### **Effectiveness Evaluation**

#### **REPORT OF BLIND PROFICIENCY SAMPLE ANALYSIS EVENT**

A blind proficiency test sample was prepared positive for codeine, positive for morphine and negative for 6-Monoacetylmorphine (MAM), and was submitted to Compuchem Laboratory for analysis under 10 CFR Part 26. Compuchem reported this sample as positive for codeine, morphine and MAM.

As part of the investigation into this false positive report for MAM, an aliquot of the original sample was analyzed by another laboratory which reported the aliquot positive for codeine and morphine and negative for MAM.

Compounding the problem at Compuchem was the fact that they were unable to locate the original sample in its long term storage.

The cause, impact and preventive action was as follows:

#### **CAUSE OF FALSE POSITIVE REPORT FOR MAM**

The laboratory's investigation revealed that the most probable cause of the false positive MAM report was inadvertent spiking of the blind proficiency sample with MAM in addition to spiking the batch calibrator sample. The circumstantial evidence for this theory includes:

1. The last two digits of the laboratory's accession number for the batch calibrator sample and the blind proficiency test sample are the same, 46;
2. Similar levels of MAM were detected in the calibrator sample and the blind proficiency test sample, 10.0 and 10.4 ng/ml, respectively; and
3. Other blind proficiency test samples for the supplier's same lot were reported as negative for MAM.

The false positive report for MAM appears to have been caused by the preparation of the MAM batch calibrator sample at the time of extraction of all samples in the batch being prepared for gas chromatography/mass spectrometry (GC/MS) analysis. This preparation of MAM batch calibrator samples by the extractor is unique to MAM samples. The batch calibrator sample and other quality control samples for all other drug groups are prepared by internal quality control, not by the extractor during batch preparation. These calibrator and other quality control samples are added to the batch by receiving/accessing personnel, not the extractor.

#### **IMPACT OF FALSE POSITIVE REPORT FOR MAM**

The laboratory's investigation revealed that the false positive report was limited to the single proficiency testing sample in question. The laboratory reviewed the data records and performed re-analyses for each of the 16 samples positive for MAM during the period of July 1 through December 31, 1991. Each sample was confirmed as positive for MAM. There was no correlation between the concentration of MAM in these samples and the concentration of the batch calibrator samples used for these analyses.

#### **PREVENTIVE ACTION FOR FALSE POSITIVE REPORT FOR MAM**

The laboratory changed its Standard Operating Procedures (SOP) to prevent a recurrence of the type of error and to strengthen their review of MAM data. The preparation of calibrator quality control samples will be performed daily by the Quality Control group and supplied to the Receiving/Accessing group which makes up a batch of sample aliquots for extraction and GC/MS analysis. This change not only deletes preparation of the calibrator from the Extractor's duties, it also introduces the calibrator sample at a different point in the process.

The SOP also requires specific review by the Technical Director (or his designee) of data for any sample that is positive MAM and the concentration of morphine is less the 5,000 ng/ml. This change will trigger the detailed data review when the results could be pharmacologically implausible.

#### **CAUSE OF LOSS OF A STORED SAMPLE**

The specific cause of the lost sample could not be determined. While the chain of custody documentation was complete, the laboratory's investigation could not reveal a specific event that could have resulted in the loss.

## **IMPACT OF LOSS OF A STORED SAMPLE**

Since the last known presence of the sample was during the preparation of a aliquot for shipment to another laboratory, the investigation focused on this aspect of sample handling. The availability of all samples that were aliquoted for shipment to another laboratory during the month of December 1991, was confirmed in January, 1992. The impact of sample loss is limited to the single sample in question.

## **PREVENTIVE ACTIONS FOR LOSS OF A STORED SAMPLE**

The retrieval and replacement of a sample in long term storage is the only step in sample handling that did not require independent verification. The laboratory has changed its SOP to require independent verification during the retrieval and replacement of samples in long term storage.

This event was reported to Mr. Bill Tobin by telephone on January 21, 1992 and was followed-up by a written report dated February 5, 1992.

**Fitness for Duty Program  
Performance Data  
Personnel Subject to 10CFR 26**

Carolina Power & Light Company		January 1- June 30, 1992
<small>Company</small>		<small>6 Months Ending</small>
General Office		
<small>Location</small>		
Fred Underwood		919-546-6180
<small>Contact Name</small>		<small>Phone (include area code)</small>
Cutoffs: Screen/Confirmation (ng/ml) <input checked="" type="checkbox"/> Appendix A to 10CFR 26		
Marijuana	/	Amphetamines    /    _____
Cocaine	/	Phencyclidine    /    _____
Opiates	/	Alcohol (% BAC)    /    _____

Testing Results		Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		412		N/A		0*	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		52	0	N/A	N/A	25	0
For Cause	Post accident	0	0	N/A	N/A	0	0
	Observed behavior	1	1	N/A	N/A	0	0
Random		220	0	N/A	N/A	80	1
Follow-up		0	0	N/A	N/A	0	0
Other		0	0	N/A	N/A	0	0
Total		325	1	N/A	N/A	105	1

\*All General Office Contractors are included in the Plant averages where they are badged.

**REV. 1/92**

# Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphe- tamines	Phency- clidine	Alcohol	Refusal to Test	1	2	3	4	5	
Licensee Employees						1							
Long-Term Contractors													
Short-Term Contractors	1												A
Total	1	0	0	0	0	1	0						430

**Fitness for Duty Program  
Performance Data  
Personnel Subject to 10CFR 26**

Carolina Power & Light Company		January 1- June 30, 1992
<small>Company</small>		<small>6 Months Ending</small>
Robinson Plant		
<small>Location</small>		
Greg Newsome	803-383-1207	
<small>Contact Name</small>		<small>Phone (include area code)</small>
Cutoffs: Screen/Confirmation (ng/ml) <input checked="" type="checkbox"/> Appendix A to 10CFR 26		
Marijuana                    /	Amphetamines                    /	/
Cocaine                    /	Phencyclidine                    /	/
Opiates                    /	Alcohol (% BAC)	/

Testing Results		Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		604		N/A		692	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		43	0	N/A	N/A	937	4
For Cause	Post accident	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	3	1
Random		330	1	N/A	N/A	349	1
Follow-up		1	0	N/A	N/A	0	0
Other		0	0	N/A	N/A	0	0
Total		374	1	N/A	N/A	1289	6

# Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to Test	1	2	3	4	5	
Licensee Employees		1											
Long-Term Contractors													
Short-Term Contractors	5	1				1	1						A
Total	5	2	0	0	0	1	1						1670

**Fitness for Duty Program  
Performance Data  
Personnel Subject to 10CFR 26**

Carolina Power & Light Company		January 1- June 30, 1992	
<b>Company</b>		<b>6 Months Ending</b>	
Harris Plant			
<b>Location</b>			
Steve Allen		919-362-3546	
<b>Contact Name</b>		<b>Phone (include area code)</b>	
Cutoffs: Screen/Confirmation (ng/ml) <input checked="" type="checkbox"/> Appendix A to 10CFR 26			
Marijuana	/	Amphetamines	/
Cocaine	/	Phencyclidine	/
Opiates	/	Alcohol (% BAC)	/

Testing Results		Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		798		N/A		372	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		10	0	N/A	N/A	64	0
For Cause	Post accident	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	1	0
Random		447	0	N/A	N/A	242	0
Follow-up		2	0	N/A	N/A	0	0
Other		0	0	N/A	N/A	0	0
Total		459	0	N/A	N/A	307	0

# Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamine	Phencyclidine	Alcohol	Refusal to Test	1	2	3	4	5	
Licensee Employees													
Long-Term Contractors													
Short-Term Contractors													A
Total	0	0	0	0	0	0	0						766

**Fitness for Duty Program  
Performance Data  
Personnel Subject to 10CFR 26**

Carolina Power & Light Company		January 1- June 30, 1992	
<b>Company</b>		<b>6 Months Ending</b>	
Brunswick Plant			
<b>Location</b>			
Vic Grose		919-457-2138	
<b>Contact Name</b>		<b>Phone (include area code)</b>	
Cutoffs: Screen/Confirmation (ng/ml) <input checked="" type="checkbox"/> Appendix A to 10CFR 26			
Marijuana	/	Amphetamines	/
Cocaine	/	Phencyclidine	/
Opiates	/	Alcohol (% BAC)	/

Testing Results		Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		1064		N/A		796	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		98	0	N/A	N/A	775	3
For Cause	Post accident	0	0	N/A	N/A	0	0
	Observed behavior	1	0	N/A	N/A	1	1
Random		582	3	N/A	N/A	394	1
Follow-up		0	0	N/A	N/A	0	0
Other		0	0	N/A	N/A	0	0
Total		681	3	N/A	N/A	1170	5

## Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamine	Phencyclidine	Alcohol	Refusal to Test	1	2	3	4	5	
Licensee Employees	2	1											
Long-Term Contractors													
Short-Term Contractors	3	1				1							A
Total	5	2	0	0	0	1	0						1859