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U. S. Nuclear Regulatory Commission  
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Gentlemen:

Subject: VIRGIL C. SUMMER NUCLEAR STATION  
DOCKET NO. 50/395  
OPERATING LICENSE NO. NPF-12  
FITNESS FOR DUTY - SEMIANNUAL REPORT

As required by 10CFR26.71(d), attached is the Virgil C. Summer Nuclear Station's Fitness for Duty Report for the period from July 1, 2000 to December 31, 2000. This report includes the required test results, data analyses and a summary of management actions taken as a result of the testing.

Should you have any questions, please call Ms. Janet Thiel (803-345-4272) at your convenience.

Very truly yours,



Kenneth W. Nettles

SBR/KWN/sr  
Attachment

c: N. O. Lorick  
S. A. Byrne  
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RTS (RR 2000, OL-99-402)  
File (818.02-20)  
DMS (RC-01-0040)

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**V. C. SUMMER NUCLEAR STATION FITNESS FOR DUTY SUMMARY  
10 CFR 26.71(d) REQUIREMENTS  
FOR  
JULY 01, 2000 – DECEMBER 31, 2000**

**MANAGEMENT ACTIONS**

**A. Positive Test Results:**

**There were a total of eleven confirmed positive test results during this reporting period. These results and subsequent management actions can be categorized as follows:**

**1. Pre-access Tests:**

**There were nine confirmed positive pre-access tests during this reporting period. Specific actions taken were as follows:**

**One test involved a long-term contractor who tested confirmed positive for drugs. Appropriate management personnel were notified that this individual would not be granted unescorted access and would not be eligible for retesting.**

**There were six short-term contractors who tested confirmed positive for drugs and two short-term contractors who tested confirmed positive for alcohol. In all cases, appropriate management personnel were notified that these individuals would not be granted unescorted access authorization and would not be eligible for retesting.**

**2. Other Tests:**

**There were two confirmed positive “other” category tests for drugs during this reporting period. Specific actions taken were as follows:**

**Both tests involved short-term contractors. The Medical Review Officer requested direct observations as a result of each contractor’s pre-access test. Appropriate management personnel were notified that these individuals would not be eligible for employment or future unescorted access at V. C. Summer Nuclear Station.**

**B. Split Samples:**

**There were three split samples shipped to the back-up laboratory for testing during this reporting period. In all three cases, the split samples tested positive and were declared confirmed positive by the Medical Review Officer.**

**C. Direct Observations:**

**There were four direct observations collections performed at the request of the Medical Review Officer. As a result, two tested confirmed positive for drugs and two showed no unusual findings.**

## **DATA ANALYSIS**

**A. Random Testing:**

**There were 284 random tests conducted during this reporting period, with no confirmed positive results. This constitutes a positive random test rate of 0%. There were 518 random tests conducted in 2000 with an average population of 985, resulting in an annual random testing rate of 52.59%.**

**There were 65 random collections performed on back shift, weekends, and holidays during this reporting period.**

**B. Lower Cut-off Levels:**

**The lower cut-off level for marijuana resulted in no additional confirmed positive tests.**

**C. Blind Performance Testing:**

**During the third quarter of 2000, there were 398 genuine specimens and 50 blind performance test specimens submitted to the primary testing laboratory, which constitutes a blind performance rate of 12.56%. In the fourth quarter of 2000, there were 458 genuine specimens and 55 blind performance test specimens submitted to the primary testing laboratory, which constitutes a blind performance test rate of 12.01%.**

**During the third quarter of 2000, there were 66 genuine specimens and 15 blind performance test specimens submitted to the back-up laboratory, which constitutes a blind performance test rate of 22.73%. In the fourth quarter of 2000, there were 0 genuine specimens and 5 blind performance test specimens submitted to the back-up testing laboratory.**

**In both quarters, the percentage of positive and negative blind performance specimens submitted was 20% and 80%, respectively. All drugs tested by our program were included in the positive specimens.**

**There was one discrepant test result during the third quarter from the back-up laboratory (Pharmchem). A false negative was reported for amphetamines on a blind performance test specimen. SCE&G and the Medical Review Officer initiated an immediate investigation. A new reagent product was being used (EMIT II Plus) by the laboratory for the testing of amphetamines. As part of the initial validation of these new reagents, the reagents were capable of distinguishing positive specimens from negative specimens for both methamphetamine and amphetamine at the cutoff concentration. When a new lot of these reagents was received subsequently, it was validated only for methamphetamine, the target compound. The results were not indicative of any change. The investigation concluded that although there was no problem with the sensitivity to methamphetamine, there was a significant change in the response to amphetamine. As a corrective action, Pharmchem Laboratories has returned to using the reagents that have previously been proven to be satisfactorily responsive to both drugs.**

**D. Population Groups:**

**There were eight short-term contractors responsible for confirmed positive test results for drugs and two short-term contractors responsible for confirmed positive test results for alcohol. These individuals did not have unescorted access authorization at the time of testing.**

**There was one long-term contractor responsible for a confirmed positive test for drugs during this reporting period. This individual did not have unescorted access authorization at the time of testing.**

### **REPORTABLE EVENTS**

**There was one reportable event during this reporting period. It involved a false negative test result for amphetamines from our back-up laboratory. An investigation was conducted and corrective actions were taken.**

### **SUMMARY**

**The absence of any confirmed positive random tests during this reporting period is indicative of a low rate of substance abuse among personnel enrolled in V.C. Summer Nuclear Station Fitness for Duty Program. Maintaining an effective Fitness for Duty program in order to provide a work environment free from the effects of drugs and alcohol remains a high priority for SCE&G.**

**FITNESS FOR DUTY PROGRAM  
 PERFORMANCE DATA  
 PERSONNEL SUBJECT TO 10CFR 26**

<u>South Carolina Electric &amp; Gas Company</u> Company	<u>December 31, 2000</u> 6 Months Ending
<u>V. C. Summer Nuclear Station, Jenkinsville, SC</u> Location	
<u>Leslie Hipp/Janet Thiel</u> Contact Name	<u>(803) 345-4705/345-4272</u> Phone (include area code)
Cutoffs:    Screen/Confirmation (ng/ml) <input type="checkbox"/> Appendix A to 10CFR 26	
Marijuana 50 / 10	Amphetamines 1000 / 500
Cocaine 300 / 150	Phencyclidine 25 / 25
Opiates 300 / 300	Alcohol (% BAC) .04

Testing Results	Licensee Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Average Number with Unescorted Access	700		161		123	
Pre-Access	29	0	24	1	556	8
For Cause	Post accident	1	0	0	0	0
	Observed behavior	0	0	2	0	0
Random	183	0	49	0	52	0
Follow-up	5	0	0	0	4	0
Other	1	0	0	0	7	2
<b>Total</b>	<b>219</b>	<b>0</b>	<b>75</b>	<b>1</b>	<b>619</b>	<b>10</b>

**BREAKDOWN OF CONFIRMED POSITIVE TESTS FOR SPECIFIC SUBSTANCES**

	Marijuana*	Cocaine	Opiates	Amphe- tamines	Phency- clidine	Alcohol	Refusal to Test	
Licensee Employees	<del>0</del> 0	0	0	0	0	0	0	
Long-Term Contractors	<del>1</del> 0	0	0	0	0	0	0	
Short-Term Contractors	<del>7</del> 0	2	0	0	0	2	0	<b>A</b>
<b>Total</b>	<del>8</del> 0	2	0	0	0	2	0	12

\*Lower cut off levels than Appendix A to 10 CFR26 required. Upper number represents total number of confirmed positives per population group while the lower number indicates how many of these positives were detected due to lower cut off level.

Note: One individual tested positive for multiple drugs.