



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

August 29, 2007

10 CFR 26.71(d)

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of)
Tennessee Valley Authority)

50-259 50-327
50-260 50-328
50-296 50-390
50-391

TENNESSEE VALLEY AUTHORITY (TVA) - FITNESS FOR DUTY (FFD) PROGRAM
PERFORMANCE DATA: JANUARY - JUNE 2007

In accordance with 10 CFR 26.71(d), enclosed is TVA's FFD Program Performance Data for the six-month period of January 1 - June 30, 2007. Enclosure 1 summarizes the testing results under TVA's FFD Program that occurred during this reporting period. Enclosures 2 - 4 contain the performance data and summary of TVA management actions for TVA's nuclear plant sites (Browns Ferry, Sequoyah, and Watts Bar, respectively). Enclosure 5 consolidates the data for TVA's nuclear corporate organization (primarily Chattanooga and Knoxville Corporate offices). One FFD event reported to the NRC pursuant to 10 CFR 26.73 during the six-month period is described in Enclosure 6.

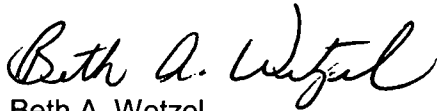
The random testing rate of drug and alcohol use is in accordance with the requirements prescribed in 10 CFR 26.24(a)(2).

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If you have any questions concerning this information, please contact
Russell Thompson at (423) 751-7737.

Sincerely,



Beth A. Wetzel
Manager, Corporate Nuclear Licensing
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RRT:RPS

Enclosures

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cc: Continued on page 3

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Athens, Alabama 35611-6970

NRC Senior Resident Inspector
Sequoyah Nuclear Plant
2600 Igou Ferry Road
Soddy Daisy, Tennessee 37379-3624

NRC Senior Resident Inspector
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381-4696

ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY (TVA) FITNESS FOR DUTY (FFD) PERFORMANCE DATA JANUARY 1 – JUNE 30, 2007

The following summarizes testing results under TVA's FFD Program that occurred during this reporting period:

I. TVA's "Re-screening of Specimens"

Reference: TVA's policy for re-screening was addressed in the February 28, 1997, FFD Performance Report.

Summary

During this reporting period, TVA Nuclear Power Group (NPG) screened 143 specimens at the lower cutoff for marijuana. There were three positive tests identified from this group.

II. TRENDS

The confirmed positive test rate for all categories (pre-employment, pre-access, for-cause, post-accident, random, follow-up, and other) for this reporting period was 0.44 percent (19 positive tests) which is 0.17 percent lower than the last reporting period. The rate of random confirmed positives was 0.21 percent (4 positive tests) which is 0.07 percent lower than the last reporting period.

ENCLOSURE 2

SUMMARY OF MANAGEMENT ACTIONS FOR
BROWNS FERRY NUCLEAR PLANT

In the **pre-access** test category, one licensee employee (LE) and eight contract employees (CEs) tested positive. The LE was denied access, removed from site, and restricted from TVA NPG work for three years. Five of the eight CEs were denied access, removed from site, returned to the contract company, and restricted from TVA NPG work for three years. Three of the eight CEs were also detected attempting to subvert the Fitness for Duty testing process by substitution. These CEs presented out-of-temperature specimens that tested negative and subsequent observed specimens that tested positive. These three CEs were denied access, removed from site, returned to the contract company, and permanently restricted from TVA NPG work. The LE requested that split specimen testing be performed. The split specimen test reconfirmed the LE's positive test results. Six CEs requested that split-specimen testing be performed. The split specimen tests reconfirmed the CE's positive test results. One of the CEs requested an appeal. The appeal upheld the positive test results.

Also in the **pre-access** category, one CE's initial positive test results failed to reconfirm upon the CE's requested split specimen testing. The TVA Medical Review Officer investigated all associated test results, verified the split specimen test as "Failure to Reconfirm," and reported the original urine drug test as "Test Cancelled." The CE did not return to work during this reporting period, but is eligible for consideration upon applying for unescorted access.

In the **for-cause (observed behavior)** test category, one CE tested positive. The CE's unescorted access was revoked. The CE was removed from site, returned to the contract company, and restricted from TVA NPG work for three years. A review of the CE's work did not identify any deficiencies.

In the **random** test category, three CEs tested positive. The CEs' unescorted access was revoked. The CEs were removed from site, returned to the contract company, and restricted from TVA NPG work for three years. Two of the CEs requested that split specimen testing be performed. The split-specimen test reconfirmed the positive test results. Reviews of the CEs' work did not identify any deficiencies.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2007	
Company		6 Months Ending	
BROWNS FERRY NUCLEAR PLANT			
Location			
REBECCA A. CHRISTNER		(423) 751-8822	
Contact Name		Phone (include area code)	
Cut-offs: Screen/Confirmation		<input checked="" type="checkbox"/> Appendix A to 10 CFR 26 * 50 ng/ml initial cut-off	
Marijuana*	/	Amphetamines	/
Cocaine	/	Phencyclidine	/
Opiates	/	Alcohol(%BAC)	/

*Specimens with a creatinine level less than 20 mg/dl are evaluated using a 20 ng/ml cutoff on the initial marijuana screen and the limit of quantitation as a cutoff on the GC/MS for marijuana metabolite.

Testing Results		Licensee Employees		Long-Term *** Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		1,358				1,964	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		91	1	N/A	N/A	1,624	8
For Cause	Post-accident	0	0	N/A	N/A	5	0
	Observed behavior	1	0	N/A	N/A	3	1
Random		361	0	N/A	N/A	684	3
Follow-up		44	0	N/A	N/A	35	0
Other **		2	0	N/A	N/A	1	0
Total		499	1	N/A	N/A	2,352	12

**The other test category includes: return-to-work-(2) TVA; program integrity clearance (FFD Program Administration)-(1) contract.

***Both long-term and short-term contractors are included in the "Short-Term Contractor Personnel" category.

Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	1	2	3	4
Licensee Employees	1	0	0	0	0	0	0	0	0	0	0
Long-Term Contractors	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Short-Term Contractors	6	4	0	0	0	2	0	0	0	0	0
Total	7 *	4	0	0	0	2	0	0	0	0	0

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* Two specimens from this category tested negative at the 50 ng/ml cutoff limit; but positive using the 20 ng/ml cutoff limit.

Cutoff Levels of Additional Drugs

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	300
2	Benzodiazepines	300	300
3	Methadone	300	300
4	Propoxyphene	300	300

ENCLOSURE 3

SUMMARY OF MANAGEMENT ACTIONS FOR SEQUOYAH NUCLEAR PLANT

In the **pre-access** test category, five CEs tested positive. The CEs were denied access, removed from site, returned to the contract company, and restricted from TVA NPG work for three years. One CE requested that a confirmatory blood alcohol test be performed. The blood alcohol test reconfirmed the positive test results. Two CEs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.

In the **random** test category, one LE tested positive. The LE's unescorted access was revoked. The LE was removed from site, suspended for a minimum of 14 days, referred to the Employee Assistance Program, returned to work during this reporting period, and was placed in the follow-up alcohol and drug testing program. The LE requested that a confirmatory blood alcohol test be performed. The blood alcohol test reconfirmed the positive test results. A review of the LE's work did not identify any deficiencies.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2007	
Company		6 Months Ending	
SEQUOYAH NUCLEAR PLANT			
Location			
REBECCA A. CHRISTNER		(423) 751-8822	
Contact Name		Phone (include area code)	
Cut-offs: Screen/Confirmation		<input checked="" type="checkbox"/> Appendix A to 10 CFR 26 * 50 ng/ml initial cut-off	
Marijuana*	/	Amphetamines	/
Cocaine	/	Phencyclidine	/
Opiates	/	Alcohol(%BAC)	/

*Specimens with a creatinine level less than 20 mg/dl are evaluated using a 20 ng/ml cutoff on the initial marijuana screen and the limit of quantitation as a cutoff on the GC/MS for marijuana metabolite.

Testing Results		Licensee Employees		Long-Term *** Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		1,130		N/A		390	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		34	0	N/A	N/A	190	5
For Cause	Post-accident	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	1	0
Random		295	1	N/A	N/A	127	0
Follow-up		14	0	N/A	N/A	8	0
Other **		2	0	N/A	N/A	1	0
Total		345	1	N/A	N/A	327	5

**The other test category includes: return-to-work-(2) TVA; program integrity clearance (FFD Program Administration)-(1) contract.

***Both long-term and short-term contractors are included in the "Short-Term Contractor Personnel" category.

Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	1	2	3	4
Licensee Employees	0	0	0	0	0	1	0	0	0	0	0
Long-Term Contractors	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Short-Term Contractors	2	0	0	0	0	3	0	0	0	0	0
Total	2 *	0	0	0	0	4	0	0	0	0	0

* One specimen from this category tested negative at the 50 ng/ml cutoff limit, but positive using the 20 ng/ml cutoff limit.

Cutoff Levels of Additional Drugs

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	300
2	Benzodiazepines	300	300
3	Methadone	300	300
4	Propoxyphene	300	300

ENCLOSURE 4

SUMMARY OF MANAGEMENT ACTIONS FOR
WATTS BAR NUCLEAR PLANT

There were no positive tests for Watts Bar Nuclear Plant during this reporting period.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2007	
Company		6 Months Ending	
WATTS BAR NUCLEAR PLANT			
Location			
REBECCA A. CHRISTNER		(423) 751-8822	
Contact Name		Phone (include area code)	
Cut-offs: Screen/Confirmation		<input checked="" type="checkbox"/> Appendix A to 10 CFR 26 * 50 ng/ml initial cut-off	
Marijuana*	/	Amphetamines	/
Cocaine	/	Phencyclidine	/
Opiates	/	Alcohol(%BAC)	/

*Specimens with a creatinine level less than 20 mg/dl are evaluated using a 20 ng/ml cutoff on the initial marijuana screen and the limit of quantitation as a cutoff on the GC/MS for marijuana metabolite.

Testing Results		Licensee Employees		Long-Term *** Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		855		N/A		439	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		27	0	N/A	N/A	237	0
For Cause	Post-accident	1	0	N/A	N/A	0	0
	Observed behavior	1	0	N/A	N/A	0	0
Random		191	0	N/A	N/A	127	0
Follow-up		6	0	N/A	N/A	1	0
Other**		2	0	N/A	N/A	1	0
Total		228	0	N/A	N/A	366	0

** The other test category includes: return-to-work-(1) TVA; program integrity clearance (FFD Program Administration)-(1) contract; specimen recollection – (1) TVA.

*** Both long-term and short-term contractors are included in the "Short-Term Contractor Personnel" category.

Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamine	Phencyclidine	Alcohol	Refusal to test	1	2	3	4
Licensee Employees	0	0	0	0	0	0	0	0	0	0	0
Long-Term Contractors	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Short-Term Contractors	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0

* One specimen from this category tested negative at the 50 ng/ml cutoff limit, but positive using the 20 ng/ml cutoff limit.

Cutoff Levels of Additional Drugs

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	300
2	Benzodiazepines	300	300
3	Methadone	300	300
4	Propoxyphene	300	300

ENCLOSURE 5

SUMMARY OF MANAGEMENT ACTIONS FOR
CORPORATE TVA NUCLEAR POWER GROUP (NPG) OFFICES

There were no positive tests in the Corporate TVA NPG offices during this reporting period.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2007	
Company		6 Months Ending	
CORPORATE OFFICES (CHATTANOOGA, KNOXVILLE, AND OTHER)			
Location			
REBECCA A. CHRISTNER		(423) 751-8822	
Contact Name		Phone (include area code)	
Cut-offs: Screen/Confirmation		<input checked="" type="checkbox"/> Appendix A to 10 CFR 26 * 50 ng/ml initial cut-off	
Marijuana*	/	Amphetamines	/
Cocaine	/	Phencyclidine	/
Opiates	/	Alcohol(%BAC)	/

*Specimens with a creatinine level less than 20 mg/dl are evaluated using a 20 ng/ml cutoff on the initial marijuana screen and the limit of quantitation as a cutoff on the GC/MS for marijuana metabolite.

Testing Results		Licensee Employees		Long-Term **** Contractor Personnel		Short-Term Contractor Personnel	
Average Number with Unescorted Access		N/A		N/A		N/A	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access **		N/A	N/A	N/A	N/A	N/A	N/A
For Cause	Post-accident	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	0	0
Random		152	0	N/A	N/A	12	0
Follow-up		14	0	N/A	N/A	0	0
Other ***		0	0	N/A	N/A	1	0
Total		166	0	N/A	N/A	13	0

** Persons assigned to corporate locations, but with unescorted access at a TVA nuclear power plant site, are included in the average for the site or sites where they hold the unescorted access authorization.

*** The other test category includes: assignment to emergency response duties - (1) contract.

**** Both long-term and short-term contractors are included in the "Short-Term Contractor Personnel" category.

Breakdown of Confirmed Positive Tests for Specific Substances

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

Cutoff Levels of Additional Drugs

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	300
2	Benzodiazepines	300	300
3	Methadone	300	300
4	Propoxyphene	300	300

ENCLOSURE 6

SUMMARY OF FITNESS FOR DUTY EVENTS
REPORTED TO THE NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER

EVENT	DATE OF NOTIFICATION	JOB TITLE	SUBSTANCE	METHOD DISCOVERED	ACTION TAKEN
07-001	February 12, 2007	Licensed Operator and Nuclear Unit Supervisor (Licensee Employee)	Alcohol	Random testing at Sequoyah Nuclear Plant	The individual's unescorted access was revoked. The individual was removed from site, suspended for a minimum of 14 days, referred to the Employee Assistance Program, returned to work during this reporting period, and was placed in the follow-up alcohol and drug testing program. An associated message/alert was posted in the Personnel Access Data System. A review of the individual's work was performed with no deficiencies identified.