



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

August 21, 2003

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

10 CFR 26.71(d)

Gentlemen:

In the Matter of	)	Docket Nos.	50-259	50-390
Tennessee Valley Authority	)		50-260	50-391
			50-296	50-438
			50-327	50-439
			50-328	

**FITNESS FOR DUTY (FFD) PROGRAM PERFORMANCE DATA: JANUARY - JUNE 2003**

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, 2003. Enclosure 1 contains a discussion of recent FFD Program developments and FFD trends since the last 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) and Bellefonte Nuclear Plant. There were no FFD events reported to NRC pursuant to 10 CFR 26.73 during this six month period.

The random testing rate of drug and alcohol use for the workforce that is subject to random testing 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 telephone Terry Knuettel at (423) 751-6673.

Sincerely,

  
Mark (J) Burzynski

Manager

Nuclear Licensing

Enclosures

cc (Enclosures):

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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

## ENCLOSURE 1

### TENNESSEE VALLEY AUTHORITY (TVA) FITNESS FOR DUTY (FFD) PERFORMANCE DATA JANUARY 1 - JUNE 30, 2003

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 to re-screen specimens with a creatinine level less than 20 mg/dl, which was addressed in the February 28, 1997 FFD Performance Report.

##### Summary

TVA Nuclear screened 127 specimens at the lower cutoff for marijuana during this reporting period. There were no 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 0.92 percent (55 positive tests) which is 0.45 percent higher than the last reporting period. The rate of random confirmed positives was 0.38 percent (10 positive tests) which is 0.18 percent higher than the last reporting period. This 0.45 increase in the positive test rate for "all" categories and 0.18 percent increase in the rate of "random" confirmed positives is primarily attributed to the increase in "pre-access" and "random" testing of contract employees (CEs) associated with the Browns Ferry Nuclear Plant Unit 1 restart work and Sequoyah Nuclear Plant's refueling outage, (which included a steam generator replacement project).

## ENCLOSURE 2

SUMMARY OF MANAGEMENT ACTIONS FOR  
BROWNS FERRY NUCLEAR PLANT

In the **pre-access** test category, 14 contract employees (CEs) and one licensee employee (LE) tested positive. The LE and six of the CEs requested that split specimen testing be performed. The split specimen tests on all seven specimens reconfirmed the positive test results. One CE requested an appeal which is in process at this time. The CEs were denied access, removed from site, returned to the contractor company, and restricted from TVA Nuclear (TVAN) work for three years. The LE was denied access, removed from site, and restricted from TVAN work for a period of three years.

In the **for-cause** test category, two CEs tested positive for drugs, and one CE tested positive for alcohol. The CE that tested positive for alcohol requested a blood alcohol test which confirmed the breath testing results. This CE as well as one of the CE's who tested positive for drugs were denied access, removed from site, returned to the contractor company, and restricted from TVAN work for three years. The third CE was found to be in possession of marijuana which was discovered during a random vehicle search conducted in the owner controlled area. Upon discovering marijuana in the vehicle, the CE, who was badged, tested positive for drugs during the subsequent "for-cause" test. This CE was denied access, removed from site, returned to the contractor company, and permanently restricted from TVAN work. A review of work was performed for two of the CEs with no deficiencies identified. No review of work was conducted for the third CE because the individual was not badged.

In the **random** test category, three CEs tested positive. Two of the CEs requested that split specimen testing be performed. The split specimen tests on both specimens reconfirmed the positive test results. The CEs were denied access, removed from site, returned to the contractor company, and restricted from TVAN work for three years. Additionally, a fourth CE was determined to have adulterated a random test specimen. This CE was denied access, removed from site, returned to the contractor company, and permanently restricted from TVAN work. A review of work was performed for all four CEs with no deficiencies identified.

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

TENNESSEE VALLEY AUTHORITY		June 30, 2003	
Company		6 Months Ending	
BROWNS FERRY NUCLEAR PLANT			
Location			
MONICA A. SMITH		(423) 751-8537	
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		1,275				2,137	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		140	1	N/A	N/A	1,295	14
For Cause	Post-accident	0	0	N/A	N/A	1	0
	Observed behavior	1	0	N/A	N/A	11	3
Random		419	0	N/A	N/A	846	3
Follow-up		17	0	N/A	N/A	0	0
Other **		4	0	N/A	N/A	0	0
Total		581	1	N/A	N/A	2,153	20

\*\*The other test category includes: program integrity clearance/update (1), return to work (2), and assignment to emergency response duties (1).

\*\*\*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	5	
Licensee Employees	1	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	N/A	
Short-Term Contractors	15	4	0	0	0	1	0	0	0	0	0	0	
Total	16	4	0	0	0	1	0	0	0	0	0	0	21

**Cutoff Levels of Additional Drugs**

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300

ENCLOSURE 3

SUMMARY OF MANAGEMENT ACTIONS FOR  
SEQUOYAH NUCLEAR PLANT

In the **pre-access** test category, 24 contract employees (CEs) tested positive. Twenty-one of the CEs were denied access, removed from site, returned to the contract company, and restricted from TVA Nuclear (TVAN) work for a minimum of three years. Because two of the CEs had previous positive test results they were denied access, removed from site, returned to the contract company, and permanently restricted from TVAN work. Another CE presented a low temperature specimen that tested negative and an observed specimen that tested positive. This was determined to be adulteration by substitution and the CE was denied access, removed from site, returned to the contract company, and permanently restricted from TVAN work. Twelve of the CEs requested that split specimen testing be performed. All 12 split specimen tests reconfirmed the positive test results. One of the CEs requested an appeal which upheld the positive test results.

In the **random** test category, six CEs tested positive. These CEs were denied access, removed from site, returned to the contract company, and restricted from TVAN work for a minimum of three years. A review of work was performed for each of the CEs, and no deficiencies were identified.



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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2003	
Company		6 Months Ending	
SEQUOYAH NUCLEAR PLANT			
Location			
MONICA A. SMITH		(423) 751-8537	
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		1,370		N/A		1316	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		46	0	N/A	N/A	1605	24
For Cause	Post-accident	0	0	N/A	N/A	6	0
	Observed behavior	0	0	N/A	N/A	5	0
Random		350	0	N/A	N/A	434	6
Follow-up		3	0	N/A	N/A	1	0
Other		0	0	N/A	N/A	0	0
Total		399	0	N/A	N/A	2051	30

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

REV. 1/92

**Breakdown of Confirmed Positive Tests for Specific Substances**

	Marijuana	Cocaine	Opiates	Amphetamine	Phencyclidine	Alcohol	Refusal to test	1	2	3	4	5	
Licensee Employees	0	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	N/A	
Short-Term Contractors	21	4	0	2	0	3	0	0	0	0	0	0	
Total	21	4	0	2	0	3	0	0	0	0	0	0	30

**Cutoff Levels of Additional Drugs**

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300

ENCLOSURE 4

SUMMARY OF MANAGEMENT ACTIONS FOR  
WATTS BAR NUCLEAR PLANT

In the **pre-access** test category, three contract employees (CEs) tested positive. The CEs were denied access, removed from site, returned to the contract company, and restricted from TVA Nuclear work for three years. Two CEs requested that a split specimen test be performed. The split specimen tests reconfirmed the positive test results. One of the CEs requested an appeal which upheld the results of the positive test.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2003	
Company		6 Months Ending	
WATTS BAR NUCLEAR PLANT			
Location			
MONICA A. SMITH		(423) 751-8537	
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		954		N/A		299	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		37	0	N/A	N/A	131	3
For Cause	Post-accident	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	0	0
Random		268	0	N/A	N/A	77	0
Follow-up		8	0	N/A	N/A	0	0
Other		0	0	N/A	N/A	0	0
Total		313	0	N/A	N/A	208	3

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

REV. 1/92

**Breakdown of Confirmed Positive Tests for Specific Substances**

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	1	2	3	4	5	
Licensee Employees	0	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	N/A	
Short-Term Contractors	2	1	0	0	0	0	0	0	0	0	0	0	
Total	2	1	0	0	0	0	0	0	0	0	0	0	3

**Cutoff Levels of Additional Drugs**

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300

ENCLOSURE 5

SUMMARY OF MANAGEMENT ACTIONS FOR  
CORPORATE TVA NUCLEAR (TVAN) OFFICES  
AND BELLEFONTE NUCLEAR PLANT (BLN)

In the random test category, one licensee employee (LE) tested positive in this reporting period. The LE was removed from site, suspended for 14 days, and referred to the Employee Assistance Program. The LE returned to work during this reporting period and was subsequently placed in the follow-up testing program. The LE did not request an appeal. A review of the LE's work was performed, and no deficiencies were identified.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 2003	
Company		6 Months Ending	
CORPORATE OFFICES (CHATTANOOGA, KNOXVILLE, BELLEFONTE, AND OTHER)			
Location			
MONICA A. SMITH		(423) 751-8537	
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		208	1	N/A	N/A	25	0
Follow-up		5	0	N/A	N/A	0	0
Other ***		16	0	N/A	N/A	20	0
Total		229	1	N/A	N/A	45	0

\*\* Persons assigned to the corporate organization or Bellefonte, but with unescorted access at a TVAN site, are included in the average for the site or sites where they hold the unescorted access authorization.

\*\*\*The other test category includes: TVAN employment (8), assignment to emergency response duties (6), return to work (2), FFD Test Administration (1), and contractor employment (19).

\*\*\*\*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	5	
Licensee Employees	0	0	0	0	0	1	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	N/A	
Short-Term Contractors	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	1	0	0	0	0	0	0	1

**Cutoff Levels of Additional Drugs**

DRUG NUMBER	SUBSTANCE	Cut-off Level (ng/ml)	
		Screen	Confirmation
1	Barbiturates	300	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300