



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

August 26, 1997

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

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 1997

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, 1997. Enclosure 1 contains a discussion of recent FFD Program developments and FFD trends since the last reporting period. Enclosures 2-5 contain the performance data and summary of TVA management actions for TVA's nuclear plant sites (Browns Ferry, Sequoyah, Watts Bar, and Bellefonte, respectively). The data for TVA's Nuclear (TVAN) corporate organization (primarily employees assigned to Chattanooga and Knoxville) is consolidated as Enclosure 6. There was one FFD event reported to the NRC pursuant to 10 CFR 26.73 during this six-month period that is included as Enclosure 7.

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).

If you have any questions concerning this information, please telephone Terry Knuettel at (423) 751-6673.

Sincerely,

Mark J. Burzynski

Mark J. Burzynski
Manager
Nuclear Licensing

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Enclosures
cc: See page 2



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**NRC Resident Inspector
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**NRC Resident Inspector
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381**

ENCLOSURE I

TENNESSEE VALLEY AUTHORITY (TVA)
FITNESS FOR DUTY (FFD) PERFORMANCE DATA
JANUARY 1-JUNE 30, 1997

FFD Developments

There were two matters associated with the FFD Program of which TVA would like to make the Nuclear Regulatory Commission (NRC) aware.

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

Summary

Implementation of 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, appears to be effective. 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 gas chromatography/mass spectrometry (GC/MS) for marijuana metabolite.

TVA screened 10s specimens at the lower cutoff for marijuana during this reporting period. Five of these specimens tested positive for a 4.6 percent positive rate. The five positive tests that were identified using this lower limit are annotated in the table entitled, "Breakdown of Confirmed Positive Tests for Specific Substances," contained in Enclosures 2 through 6. In accordance with 10 CFR 25, Appendix A, TVA will continue to include positive test results for the lower cutoff levels in future semi-annual performance reports.

II. Browns Ferry Nuclear (BFN) FFD Program

Summary

On May 23, 1997, random alcohol and drug testing was reset to an annual rate designed to equal approximately 52 percent of the BFN workforce that is subject to random testing. The interim measure of conducting random alcohol and drug testing at an annual rate designed to equal 100 percent of the workforce, as described in TVA's FFD Performance Data Report dated February 28, 1997, was discontinued following completion of FFD Program enhancements. These enhancements included providing additional training for the BFN supervisors on the Continual Behavioral Observation and Employee Assistance Programs.

JANUARY 1-JUNE 30, 1997

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 (20 positive tests) which is 0.01 percent lower than the last reporting period. The rate of random confirmed positives was 0.10 percent (2 positive tests) which is 0.38 percent lower than the last reporting period.

ENCLOSURE 2

**SUMMARY OF MANAGEMENT ACTIONS FOR
BROWNS FERRY NUCLEAR PLANT**

In the pre-access category, two contract employees tested positive. The contract employees were denied access, removed from the site, and returned to the contractor.

In the for-cause testing category, one licensee supervisor and one licensee employee tested positive. Unescorted access was revoked for both the licensee supervisor and the licensee employee. The licensee supervisor resigned effective February 25, 1997, after being given a notice of involuntary termination. The licensee employee's termination was effective July 15, 1997.

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

TENNESSEE VALLEY AUTHORITY		June 30, 1997
Company		6 Months Ending
BROWNS FERRY NUCLEAR PLANT		
Location		
REBECCA A. STANFIELD		(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	
		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Average Number with Unescorted Access		1,393				529	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		65	0	N/A	N/A	1,052	2
For Cause	Post-accident	0	0	N/A	N/A	0	0
	Observed behavior	4	2	N/A	N/A	0	0
Random		626	0	N/A	N/A	266	0
Follow-up		13	0	N/A	N/A	N/A	N/A
Other **		0	0	N/A	N/A	0	0
Total		708	2	N/A	N/A	1,318	2

** The other test category includes: transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update; assignment to emergency response duties.

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Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refused to test	1	2	3	4	5
License Employees	0	1	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	2*	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	0	0	0	1	0	0	0	0	0	0

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
6	N/A	N/A	N/A

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

ENCLOSURE 3

**SUMMARY OF MANAGEMENT ACTIONS FOR
SEQUOYAH NUCLEAR PLANT**

In the pre-access category, 12 contract employees tested positive. The contract employees were denied access, removed from the site, and returned to the contractor.

In the random testing category, one contract employee tested positive. The contract employee requested, and was administered, a blood alcohol test which also tested positive. The contract employee's unescorted access was revoked, and he was returned to the contractor.

In the follow-up testing category, one licensee employee tested positive. The licensee employee's unescorted access was revoked, and his termination was effective April 14, 1997.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 1997	
Company		6 Months Ending	
SEQUOYAH NUCLEAR PLANT			
Location			
REBECCA A. STANFIELD		(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		1,511		N/A		799	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		51	0	N/A	N/A	1,011	12
For Cause	Post-accident	1	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	0	0
Random		340	0	N/A	N/A	220	1
Follow-up		9	1	N/A	N/A	N/A	N/A
Other **		0	0	N/A	N/A	0	0
Total		401	1	N/A	N/A	1,231	13

** The other test category includes: transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update; assignment to emergency response duties.

Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opioids	Amphetamines	Phencyclidine	Alcohol	Refused 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	7**	3	0	1	0	2	0	0	0	0	0	0
Total	8	3	0	1	0	2	0	0	0	0	0	0

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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
6	N/A	N/A	N/A

- * This specimen tested negative at the 50 ng/ml cutoff limit, but positive using the 20 ng/ml cutoff limit.
- ** Two specimens tested negative at the 50 ng/ml cutoff limit, but positive using the 20 ng/ml cutoff limit.

ENCLOSURE 4

**SUMMARY OF MANAGEMENT ACTIONS FOR
WATTS BAR NUCLEAR PLANT**

In the pre-access category, one contract employee tested positive. The contract employee was denied access, removed from site, and returned to the contractor.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 1997	
Company		6 Months Ending	
WATTS BAR NUCLEAR PLANT			
Location			
REBECCA A. STANFIELD		(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	
		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Average Number with Unescorted Access		1,145		N/A		348	
Pre-Access		26	0	N/A	N/A	261	1
For Cause	Post-accident	0	0	N/A	N/A	0	0
	Observed behavior	2	0	N/A	N/A	0	0
Random		234	0	N/A	N/A	84	0
Follow-up		4	0	N/A	N/A	N/A	N/A
Other **		0	0	N/A	N/A	0	0
Total		266	0	N/A	N/A	345	1

** The other test category includes: transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update; assignment to emergency response duties.

Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refused 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	1	0	0	0	0	0	0	0	0	0	0	0
Total	1	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	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300
6	N/A	N/A	N/A

ENCLOSURE 5

**SUMMARY OF MANAGEMENT ACTIONS FOR
BELLEFONTE NUCLEAR PLANT**

There were no positive tests at Bellefonte during this reporting period.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 1997	
Company		6 Months Ending	
BELLEFONTE NUCLEAR PLANT			
Location			
REBECCA A. STANFIELD		(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	
		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Average Number with Unescorted Access **		N/A		N/A		N/A	
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		19	0	N/A	N/A	4	0
Follow-up		0	0	N/A	N/A	N/A	N/A
Other ***		0	0	N/A	N/A	0	0
Total		19	0	N/A	N/A	4	0

** This is a construction site at which unescorted access has not been established.

*** The other test category includes: employment; transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update.

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Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opioids	Amphetamines	Phencyclidine	Alcohol	Refused 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	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	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	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300
6	N/A	N/A	N/A

ENCLOSURE 6

**SUMMARY OF MANAGEMENT ACTIONS FOR
CORPORATE TVAN OFFICES**

In the random testing category, one licensee employee who was not badged tested positive. The licensee employee's emergency response clearance/designation was revoked and he was referred to EAP. This employee was subsequently returned to his non-nuclear organization.

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

TENNESSEE VALLEY AUTHORITY		JUNE 30, 1997	
Company		6 Months Ending	
CORPORATE OFFICES (CHATTANOOGA, KNOXVILLE, OTHER)			
Location			
REBECCA A. STANFIELD		(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		Licensees Employees		Long-Term Contractor Personnel		Short-Term Contractor Personnel	
		N/A		N/A		N/A	
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	2	0	N/A	N/A	0	0
Random		168	1	N/A	N/A	10	0
Follow-up		0	0	N/A	N/A	N/A	N/A
Other ***		13	0	N/A	N/A	14	0
Total		183	1	N/A	N/A	24	0

** Persons assigned to the corporate organization, 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: employment (6)-TVA and (14)-contract; transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update (3); assignment to emergency response duties (4).

Breakdown of Confirmed Positive Tests for Specific Substances

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refused 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	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	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	200
2	Benzodiazepines	300	250
3	Methadone	300	250
4	Methaqualone	300	250
5	Propoxyphene	300	300
6	N/A	N/A	N/A

* This specimen tested negative at the 50 ng/ml cutoff limit, but positive using the 20 ng/ml cutoff limit.

ENCLOSURE 7

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

EVENTS	DATE OF NOTIFICATION	JOB TITLE	SUBSTANCE	METHOD DISCOVERED	ACTION TAKEN
97-001	January 21, 1997	Licensee Supervisor	Alcohol	For-cause testing at BFN	The individual's unescorted access was revoked. The individual's termination was effective February 25, 1997.