



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

February 28, 2013

10 CFR 26.11  
10 CFR 26.717

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

Browns Ferry Nuclear Plant, Units 1, 2, and 3  
Facility Operating License Nos. DPR-33, DPR-52, and DPR-68  
NRC Docket Nos. 50-259, 50-260, and 50-296

Sequoyah Nuclear Plant, Units 1 and 2  
Facility Operating License Nos. DPR-77 and DPR-79  
NRC Docket Nos. 50-327 and 50-328

Watts Bar Nuclear Plant, Unit 1  
Facility Operating License No. NPF-90  
NRC Docket No. 50-390

Watts Bar Nuclear Plant, Unit 2  
Construction Permit No. CPPR-92  
NRC Docket No. 50-391

**Subject: Fitness for Duty Annual Program Performance Data, January through December 2012**

In accordance with 10 CFR 26.717, paragraph (e), this letter provides the Tennessee Valley Authority's (TVA's) Fitness for Duty Program Performance Data for January through December 2012. This report is required to be submitted prior to March 1, 2013.

TVA's random testing rate for drug and alcohol use for the workforce that is subject to random testing is in accordance with the requirements prescribed in 10 CFR 26.31(d)(vii).

Enclosure 1 contains a summary of TVA's Fitness for Duty performance data for January through December 2012. Enclosures 2, 3, and 4 contain management actions and a summary of the performance data for site personnel subject to 10 CFR 26 during the reporting period at each of TVA's licensed operating facilities. Enclosure 5 contains a summary of performance data for personnel located in the Corporate Offices (primarily, Chattanooga and Knoxville, Tennessee) and subject to 10 CFR 26. Enclosure 6 contains a list of 10 CFR 26.719 events that were reported during the reporting period.

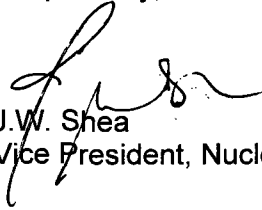
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Enclosure 7 contains the information required under 10 CFR 26.203, paragraphs (e)(1) and (e)(2) on the subject of work hour control waivers for individual workers.

There are no new regulatory commitments made by this letter. Please direct any questions concerning this matter to Russell Thompson at (423) 751-2567.

Respectfully,



J.W. Shea  
Vice President, Nuclear Licensing

Enclosures:

1. Tennessee Valley Authority Fitness for Duty Performance Data, January through December 2012
2. Browns Ferry Nuclear Plant, Summary of Management Actions and Fitness for Duty Program Performance Data
3. Sequoyah Nuclear Plant, Summary of Management Actions and Fitness for Duty Program Performance Data
4. Watts Bar Nuclear Plant, Summary of Management Actions and Fitness for Duty Program Performance Data
5. Corporate Nuclear Power Group Offices, Summary of Management Actions and Fitness for Duty Program Performance Data
6. Summary of Fitness for Duty Events Reported to the Nuclear Regulatory Commission Operations Center
7. Browns Ferry, Sequoyah and Watts Bar Nuclear Plants, Fatigue Management Summary - 2012

Enclosures:

cc (Enclosures):

NRC Regional Administrator - Region II  
NRC Senior Resident Inspector - Browns Ferry Nuclear Plant  
NRC Senior Resident Inspector - Sequoyah Nuclear Plant  
NRC Senior Resident Inspector - Watts Bar Nuclear Plant Unit 1  
NRC Senior Resident Inspector - Watts Bar Nuclear Plant Unit 2

## ENCLOSURE 1

### TENNESSEE VALLEY AUTHORITY

#### FITNESS FOR DUTY PERFORMANCE DATA JANUARY THROUGH DECEMBER 2012

The following summarizes the results of testing performed during this reporting period for personnel subject to Tennessee Valley Authority's (TVA's) Nuclear Power Group (NPG) Fitness for Duty Program.

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

Reference: TVA's Letter to NRC, "Fitness for Duty (FFD) Program Performance Data: July-December 1996, dated February 28, 1997." (ML082490704)

##### Summary

TVA re-screens specimens with a creatinine level of less than 20 mg/dl, as discussed in the above Reference. During this 2012 annual reporting period, TVA NPG screened 419 specimens at this lower cutoff level for marijuana with five positive results identified.

#### II. Trends

The confirmed positive test rate for all categories (pre-access, for-cause, post-event, random, follow-up, and other) for the 2012 Annual reporting period was 0.56 percent (88 positive results out of 15,639 tests). The rate of random confirmed positives was 0.33 percent (20 positive results out of 5,995 tests). TVA NPG's random testing rate for 2012 exceeded the required 50% of the population that is subject to the FFD Program as identified in 10 CFR 26.31(d)(2)(vii).

Site	No. of employees/contractors	No. of random tests	Random Percentage tested
Corporate	277	156	56.32%
Browns Ferry	3264	1753	53.71%
Sequoyah	3209	1610	50.17%
Watts Bar	4828	2476	51.28%
Totals	11578	5995	51.78%

## ENCLOSURE 2

### TENNESSEE VALLEY AUTHORITY

### BROWNS FERRY NUCLEAR PLANT

#### SUMMARY OF MANAGEMENT ACTIONS AND FITNESS FOR DUTY PROGRAM PERFORMANCE DATA

In the **pre-access** test category, eleven Contract Personnel (CPs) tested positive, one CP test had an adulterated result, one CP had invalid test result, and one CP had invalid/positive test result.

- All CPs were denied access and returned to the contract company.
- Twelve CPs' unescorted access authorization was denied for a period of three years and restricted from all Tennessee Valley Authority (TVA) Nuclear Power Group (NPG) work at NPG work locations for a period of three years.
- Twelve CPs' requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- Two CPs' unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations. The situations were reviewed by the Medical Review Officer (MRO) and determined to be a "refusal to test" due to an attempt to subvert the testing process.
- One of the CPs requested an appeal and the appeal upheld the positive test result.

In the **random** test category, three CPs and three Licensee Employee (LEs) tested positive.

- Three CPs were denied access and returned to the contract company.
- Three CPs' unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years. A review of the CPs' work did not identify any deficiencies.
- Three CPs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- In addition to revocation of unescorted access, the three LEs were removed from the site, suspended for a minimum of fourteen days and referred to the Employee Assistance Program. The three LEs returned to work during this 2012 annual reporting period and were placed in the follow-up alcohol and drug testing program. A review of the three LEs' work did not identify any discrepancies.
- One LE requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- One of the LE events was reported to the NRC in accordance with 10 CFR 26.719 requirements (Event Number 47936, Fitness for Duty - Confirmed Positive Drug Test for a Non-Licensed Supervisor).

In the **follow-up** test category, one CP tested positive.

- CP was denied access and returned to the contract company.
- CP unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years. A review of the CP's work did not identify any deficiencies.

In the **for-cause (observed behavior/reasonable suspicion)** test category two CPs tested positive and two CPs had positive/subversion test results.

- Four CPs were denied access and returned to the contract company.
- One CP's unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years.
- Two CPs' urine specimens were not in temperature range. The second urine tests were observed with positive test results. The situations were reviewed by the MRO and determined to be a "refusal to test" due to an attempt to subvert the testing process. CP's unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.
- One CP's unescorted access authorization was denied permanently and permanently restricted from all TVA NPG work at NPG work locations due to a previous positive test.
- A review of three CPs' work did not identify any deficiencies (one CP had not started work.)
- One of the CP events was reported to the NRC in accordance with 10 CFR 26.719 requirements (Event Number 48419, Fitness for Duty - Confirmed Positive Drug Test for a Non-Licensed Supervisor).
- One of the CPs requested an appeal and the appeal upheld the positive test result.

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

TENNESSEE VALLEY AUTHORITY  
COMPANY

12/31/12  
12 MONTHS ENDING

BROWNS FERRY NUCLEAR PLANT  
LOCATION

RONALD L. CASEY  
CONTACT NAME

423-751-7923  
PHONE (INCLUDING AREA  
CODE)

CUTOFFS: SCREEN/CONFIRMATION (ng/ml)

ALCOHOL (% BAC)	0.04%	COCAINE	300/150	PHENCYCLIDINE	25/25
AMPHETAMINES	1000/500	*MARIJUANA	50/15	OPIATES	2000/2000

\*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		1738		N/A		1526	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		236	0	N/A	N/A	2552	12
For Cause	Post-Event	14	0	N/A	N/A	24	0
	Observed behavior	8	0	N/A	N/A	12	4
Random		992	3	N/A	N/A	761	3
Follow-up		62	0	N/A	N/A	52	1
Other		0	0	N/A	N/A	0	0
Total		1312	3	N/A	N/A	3401	20

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

**Breakdown of Confirmed Positive Tests for Specific Substances - Browns Ferry Nuclear Plant**

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	Adulterated Specimen	Substituted Specimen	1	2	3	4	
Licensee Employees	1	0	0	0	0	2	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	N/A	
Short-Term Contractors	11	5	1	1	0	4	4	1	0	0	0	0	0	
Total	12*	5	1	1	0	6	4	1	0	0	0	0	0	30**

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

\*\* One individual tested positive for alcohol, opiates, cocaine and refusal to test; one individual tested positive for marijuana and refusal to test; one individual had adulterated specimen and refusal to test; and one individual had invalid result/refusal to test.

**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

### TENNESSEE VALLEY AUTHORITY

#### SEQUOYAH NUCLEAR PLANT

#### SUMMARY OF MANAGEMENT ACTIONS AND FITNESS FOR DUTY PROGRAM PERFORMANCE DATA

In the **pre-access** test category, nineteen Contract Personnel (CPs) tested positive.

- All CPs were denied access and returned to the contract company.
- Seventeen CPs' unescorted access authorization was denied for a period of three years and restricted from all Tennessee Valley Authority (TVA) Nuclear Power Group (NPG) work at NPG work locations for a period of three years.
- One CP's unescorted access authorization was denied permanently and permanently restricted from all TVA NPG work at NPG work locations due to a previous positive test.
- One CP could not provide a urine specimen in the allotted timeframe. The situation was reviewed by the Medical Review Officer (MRO) and determined to be a "refusal to test." The CP's unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.
- Nine CPs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.

In the **random** test category, five CPs and one License Employee (LE) tested positive.

- All CPs were denied access and returned to the contract company.
- Five CPs' unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years.
- Three of the CPs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- A review of the CPs' work did not identify any deficiencies.
- One of the CP events was reported to the NRC in accordance with 10 CFR 26.719 requirements (Event Number 48383, Fitness for Duty - Confirmed Positive Drug Test for a Non-Licensed Supervisor).
- Two of the CPs requested an appeal. The positive test results were upheld.
- In addition to revocation of unescorted access, the LE was removed from site, suspended for a minimum of fourteen days and referred to the Employee Assistance Program. LE requested that split specimen testing be performed. The split specimen test reconfirmed the positive test result. The LE was terminated due to other unescorted access authorization issues. A review of the LE's work did not identify any discrepancies.

In the **for-cause (observed behavior/reasonable suspicion)** test category, one CP tested positive.

- The CP was denied access and returned to the contract company.
- The CP's urine specimen was not in temperature range. The second urine test was observed with a positive test results. The situation was reviewed by the MRO and determined to be a "refusal to test" due to an attempt to subvert the testing process. CP's unescorted access were permanently denied and permanently restricted from TVA NPG work at NPG work locations.



Also in the **for-cause (observed behavior/reasonable suspicion)** test category, two CPs failed to complete the urine drug screen.

- One CP left the collection area prior to completing the urine drug screen. The CP's first urine specimen was not in temperature range. The CP left the collection facility without providing an observed collection. The situation was reviewed by the MRO and determined to be a "refusal to test." A review of the CP's work did not identify any deficiencies. The CP's unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.
- One CP could not provide a required second urine drug screen. The CP's first urine specimen was not in temperature range. The situation was reviewed by the MRO and determined to be a "refusal to test." The CP's unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.

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

TENNESSEE VALLEY AUTHORITY  
COMPANY

12/31/12  
12 MONTHS ENDING

SEQUOYAH NUCLEAR PLANT  
LOCATION

RONALD L. CASEY  
CONTACT NAME

423-751-7923  
PHONE (INCLUDING AREA CODE)

CUTOFFS: SCREEN/CONFIRMATION (ng/ml)

ALCOHOL (% BAC) 0.04%      COCAINE 300/150      PHENCYCLIDINE 25/25  
AMPHETAMINES 1000/500      \*MARIJUANA 50/15      OPIATES 2000/2000

\* 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		1525		N/A		1684	
<b>Categories</b>		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		218	0	N/A	N/A	3092	19
For Cause	Post-Event	8	0	N/A	N/A	7	0
	Observed behavior	1	0	N/A	N/A	13	1
Random		783	1	N/A	N/A	827	5
Follow-up		40	0	N/A	N/A	59	0
Other		0	0	N/A	N/A	0	0
Total		1050	1	N/A	N/A	3998	25

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

**Breakdown of Confirmed Positive Tests for Specific Substances - Sequoyah Nuclear Plant**

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	Adulterated Specimen	Substituted Specimen	1	2	3	4	
Licensee Employees	0	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	N/A	
Short-Term Contractors	15	2	2	2	0	4	4	0	0	0	0	0	0	
Total	15*	3	2	2	0	4	4	0	0	0	0	0	0	30**

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

\*\* One individual had breath specimen positive for alcohol and refusal for urine specimen; one individual had urine specimen positive for marijuana and refusal to test; and two individuals were refusal to test.

**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

### TENNESSEE VALLEY AUTHORITY

#### WATTS BAR NUCLEAR PLANT

#### SUMMARY OF MANAGEMENT ACTIONS AND FITNESS FOR DUTY PROGRAM PERFORMANCE DATA

In the **pre-access** test category, eighteen Contract Personnel (CPs) tested positive.

- All CPs were denied access and returned to the contract company.
- Seventeen CPs' unescorted access authorization were denied for a period of three years and restricted from all Tennessee Valley Authority (TVA) Nuclear Power Group (NPG) work at NPG work locations for a period of three years.
- One CP's urine specimen was not in temperature range. The urine sample was inadvertently discarded, problem evaluation report was written. The second urine test was observed with a positive test result.
- One CP had a negative test and it was later determined the test should have been an observed test due to a previous positive at another utility. The CP was retested on the same day and tested positive. The situation was reviewed by the Medical Review Officer (MRO) and determined to be a "refusal to test" due to an attempt to subvert the testing process. CP unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.
- Nine CPs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- Four of the CPs requested an appeal. The appeal upheld the positive test result.

In the **random** test category, eight CPs tested positive.

- All CPs were denied access and returned to the contract company.
- Eight CPs' unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years.
- A review of seven CPs' work did not identify any deficiencies. One CP was not badged and had not started work.
- Four CPs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- Two of the CPs requested an appeal. The appeals upheld the positive test results.

Also in the **random** test category:

- One CP did not report for random testing after notification to report. The situation was reviewed by the MRO and determined to be a "refusal to test." A review of the CP's work did not identify any deficiencies. The CP requested an appeal and the appeal upheld the refusal to test. The CP unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.

In the **follow-up** test category one LE tested positive.

- In addition to revocation of unescorted access, LE was removed from site, suspended for a minimum of fourteen days and referred to the Employee Assistance Program (EAP). The LE did not complete EAP and did not return to work during this 2012 annual reporting period. A review of the LE's work did not identify any discrepancies.

- LE requested that split specimen testing be performed. The split specimen test reconfirmed the positive test result.

In the **for-cause (observed behavior/reasonable suspicion)** test category, seven CPs and two License Employees (LE) tested positive.

- All CPs were denied access and returned to the contract company.
- Four CPs' unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years.
- Three CPs' urine specimens were not in temperature range. The second urine tests were observed with positive test results. The situations were reviewed by the MRO and determined to be "refusal to test" due to an attempt to subvert the testing process. CPs' unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations.
- A review of the CPs' work did not identify any deficiencies.
- In addition to revocation of unescorted access, LEs were removed from site, suspended for a minimum of fourteen days and referred to the Employee Assistance Program (EAP).
- One LE was denied access and not eligible for unescorted access consideration for one year due to issues that arose during the EAP process.
- One of the LE is currently going through the EAP process and has not returned to work during this 2012 annual reporting period.
- A review of the LE's work did not identify any discrepancies.

Also in the **for-cause (observed behavior/reasonable suspicion)** test category, one CP did not complete the testing process. The CP first urine specimen was not in temperature range. The CP left the collection facility without giving an observed collection. The situation was reviewed by the MRO and determined to be a "refusal to test."

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

TENNESSEE VALLEY AUTHORITY  
COMPANY

12/31/12  
12 MONTHS ENDING

WATTS BAR NUCLEAR PLANT  
LOCATION

RONALD L. CASEY  
CONTACT NAME

423-751-7923  
PHONE (INCLUDING AREA CODE)

CUTOFFS: SCREEN/CONFIRMATION (ng/ml)

ALCOHOL (% BAC)	0.04%	COCAINE	300/150	PHENCYCLIDINE	25/25
AMPHETAMINES	1000/500	*MARIJUANA	50/15	OPIATES	2000/2000

\* 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		1465		N/A		3363	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		146	0	N/A	N/A	2809	18
For Cause	Post-event	15	0	N/A	N/A	11	0
	Observed behavior	9	2	N/A	N/A	18	6
Random		728	0	N/A	N/A	1748	9
Follow-up		28	1	N/A	N/A	116	0
Other		0	0	N/A	N/A	0	0
Total		926	3	N/A	N/A	4702	33

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

**Breakdown of Confirmed Positive Tests for Specific Substances - Watts Bar Nuclear Plant**

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	Adulterated Specimen	Substituted Specimen	1	2	3	4	Other*	
Licensee Employees	0	0	0	0	0	2	0	0	0	0	1	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	N/A	N/A	
Short-Term Contractors	15	1	1	6	0	9	6	0	0	0	1	1	0	1	
Total	15	1	1	6	0	11	6	0	0	0	2	0	0	1	43**

\* One individual tested positive for buprenorphine.

\*\* Three individuals tested positive for amphetamines and refusal to test; one individual tested positive for marijuana and refusal to test; one individual tested positive for both opiates and cocaine; and two individuals were refusal to test.

**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

### TENNESSEE VALLEY AUTHORITY

#### CORPORATE NUCLEAR POWER GROUP OFFICES

#### SUMMARY OF MANAGEMENT ACTIONS AND FITNESS FOR DUTY PROGRAM PERFORMANCE DATA

In the **pre-access** test category, one Contract Personnel (CP) and one Licensee Employee (LE) tested positive.

- CP's unescorted access authorization was denied for a period of three years and restricted from all Tennessee Valley Authority (TVA) Nuclear Power Group (NPG) work at NPG work locations for a period of three years. CP requested that split specimen testing be performed. The split specimen test reconfirmed the positive test result.
- LE was removed from corporate office, suspended for a minimum of fourteen days and referred to the Employee Assistance Program. The LE returned to work during this 2012 annual reporting period and was placed in the follow-up alcohol and drug testing program. A review of the LE's work did not identify any discrepancies.

In the **for-cause (observed behavior/reasonable suspicion)** test category, one CP tested positive.

- CP's urine specimen was not in temperature range. The second urine test was an observed with a positive test result. CP requested that split specimen testing be performed. The split specimen test reconfirmed the positive test result. The situation was reviewed by the Medical Review Officer (MRO) and determined to be a "refusal to test" due to an attempt to subvert the testing process. CP unescorted access was permanently denied and permanently restricted from TVA NPG work at NPG work locations. A review of the CP's work did not identify any discrepancies.



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

\_\_\_\_\_  
TENNESSEE VALLEY AUTHORITY  
COMPANY

\_\_\_\_\_  
12/31/12  
12 MONTHS ENDING

\_\_\_\_\_  
CHATTANOOGA CORPORATE OFFICE  
LOCATION

\_\_\_\_\_  
RONALD L. CASEY  
CONTACT NAME

\_\_\_\_\_  
423-751-7923  
PHONE (INCLUDING AREA CODE)

CUTOFFS: SCREEN/CONFIRMATION (ng/ml)

ALCOHOL (% BAC)	0.04%	COCAINE	300/150	PHENCYCLIDINE	25/25
AMPHETAMINES	1000/500	*MARIJUANA	50/15	OPIATES	2000/2000

\* 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		188		N/A		89	
Pre-Access		59	1	N/A	N/A	28	1
For Cause	Post-event	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	1	1
Random		130	0	N/A	N/A	26	0
Follow-up		6	0	N/A	N/A	0	0
Other		0	0	N/A	N/A	0	0
Total		195	1	N/A	N/A	55	2

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

**Breakdown of Confirmed Positive Tests for Specific Substances - Chattanooga Corporate Offices**

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

\* One individual tested positive for marijuana and refusal to test.

**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**

**TENNESSEE VALLEY AUTHORITY**

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

<b>EVENTS</b>	<b>DATE OF NOTIFICATION</b>	<b>JOB TITLE</b>	<b>SUBSTANCE</b>	<b>METHOD DISCOVERED</b>	<b>ACTION TAKEN</b>
12-001 (Nuclear Regulatory Commission (NRC) Event Notification 47936)	May 18, 2012	Tennessee Valley Authority (TVA) Browns Ferry Nuclear Plant (BFN) Licensed Operator	Confirmed positive for alcohol	Random test at BFN	The individual's unescorted access was revoked. Individual was suspended for a minimum of fourteen days. Individual completed Employee Assistance Program requirements prior to reconsideration for unescorted access authorization. Individual placed in the follow-up program. Individual returned to work during this 2012 annual reporting period. A review of the individual's work was performed with no deficiencies identified.
12-002 (NRC Event Notification 48383)	October 5, 2012	Contractor Non-licensed Supervisor	Confirmed positive for alcohol	Random test at Sequoyah Nuclear Plant.	The individual's unescorted access was revoked. A review of the individual's work was performed with no deficiencies identified. Individual's unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years.
12-003 (NRC Event Notification 48419)	October 18, 2012	Contractor Non-licensed Supervisor	Confirmed positive for alcohol	For Cause test at BFN	The individual's unescorted access was revoked. A review of the individual's work was performed with no deficiencies identified. Individual's unescorted access authorization was denied for a period of three years and restricted from all TVA NPG work at NPG work locations for a period of three years. The individual requested an appeal and the appeal upheld the positive test result.

**ENCLOSURE 7**

**TENNESSEE VALLEY AUTHORITY**

**BROWNS FERRY, SEQUOYAH, AND WATTS BAR NUCLEAR PLANTS**

**FATIGUE MANAGEMENT SUMMARY - 2012**

## Fatigue Management Summary

### Browns Ferry Nuclear Plant - 2012

**Summary:**

Two waivers in Maintenance.

### Fatigue Management Data

Summary of Waiver Issuance 26.203(e)(1) (i-ii)														
Group	Number of Waivers Issued for Each Work Hour Control Limit													
	>16/24 hour period		>26/48 hour period		>72/7 day period		<8hr break		<10 hr break		< 34 hr break in any 9 day period		<Minimum Day Off Requirement	
	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage
Operations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Brigade	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maintenance	0	1	0	1	0	0	0	0	0	2	0	0	0	0
Chemistry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Health Physics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	1	0	1	0	0	0	0	0	2	0	0	0	0

Distribution of Waivers for Individuals in Each Category – 26.203(e)(iii)						
Number of Waivers Issued	Operations	Fire Brigade	Maintenance	Chemistry	Health Physics	Security
1	0	0	2	0	0	0
2	0	0	0	0	0	0
greater than 2	0	0	0	0	0	0

**Summary of Corrective Actions – 26.203(e)2:**

None

## Fatigue Management Summary Sequoyah Nuclear Plant - 2012

Summary:  
No waivers.

### Fatigue Management Data

Summary of Waiver Issuance 26.203(e)(1) (i-ii)														
Group	Number of Waivers Issued for Each Work Hour Control Limit													
	>16/24 hour period		>26/48 hour period		>72/7 day period		<8hr break		<10 hr break		< 34 hr break in any 9 day period		<Minimum Day Off Requirement	
	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage
Operations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Brigade	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemistry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Health Physics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Distribution of Waivers for Individuals in Each Category – 26.203(e)(iii)						
Number of Waivers Issued	Operations	Fire Brigade	Maintenance	Chemistry	Health Physics	Security
1	0	0	0	0	0	0
2	0	0	0	0	0	0
greater than 2	0	0	0	0	0	0

Summary of Corrective Actions – 26.203(e)2:  
None

## Fatigue Management Summary

### Watts Bar Nuclear Plant - 2012

**Summary:**  
One waiver in Security.

### Fatigue Management Data

Summary of Waiver Issuance 26.203(e)(1) (i-ii)														
Group	Number of Waivers Issued for Each Work Hour Control Limit													
	>16/24 hour period		>26/48 hour period		>72/7 day period		<8hr break		<10 hr break		< 34 hr break in any 9 day period		<Minimum Day Off Requirement	
	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage	Online	Outage
Operations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Brigade	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemistry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Health Physics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Distribution of Waivers for Individuals in Each Category – 26.203(e)(iii)						
Number of Waivers Issued	Operations	Fire Brigade	Maintenance	Chemistry	Health Physics	Security
1	0	0	0	0	0	1
2	0	0	0	0	0	0
greater than 2	0	0	0	0	0	0

**Summary of Corrective Actions – 26.203(e)2:**  
None.