



Tennessee Valley Authority
1101 Market Street, LP 3R
Chattanooga, Tennessee 37402-2801

R. M. Krich
Vice President
Nuclear Licensing

February 28, 2011

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 2010**

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 2010. This report is required to be submitted prior to March 1, 2011.

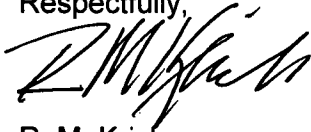
TVA's random testing rate of drug and alcohol use is performed in accordance with the requirements prescribed in 10 CFR 26.31(d)(vii). Enclosure 1 contains a summary of TVA's Fitness for Duty Performance Data for January through December 2010. Enclosures 2, 3, and 4 contain management actions and a summary 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

A021
NRC

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. 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 Kara M. Stacy at (423) 751-3489.

Respectfully,



R. M. Krich

Enclosures:

1. Fitness for Duty Performance Data, January through December 2010
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 - 2010

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 2010

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

Summary

In accordance with 10 CFR 26.717(b)(2), TVA re-screens specimens with a creatinine level of less than 20 mg/dl, as discussed in the above Reference. During this 2010 Annual reporting period, TVA Nuclear Power Group screened 596 specimens at this lower cutoff level for marijuana with three positive results identified.

II. Trends

The confirmed positive test rate for all categories (pre-employment, pre-access, for-cause, post-accident, random, follow-up, and other) for the 2010 Annual reporting period was 0.53 percent (80 positive results out of 15,225 tests). The rate of random confirmed positives was 0.24 percent (14 positive results out of 5,886 tests). TVA's random testing rate for 2010 exceeded the required 50% of the population that is subject to the FFD Program as identified in 10 CFR 26.31(d)(2)(vii).

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, nine Contract Employees (CEs) tested positive.

- The CEs were denied access, removed from site and returned to the contract company.
- All nine of the CEs were restricted from all Tennessee Valley Authority (TVA) work for three years.
- Five CEs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- Three of the CEs requested appeals. The positive test results were upheld.

Also in the **pre-access** test category, two CEs refused to continue the testing after providing urine specimens outside the acceptable temperature range and subsequently not providing a second observed/witness collection. The CEs were denied access, removed from site, returned to the contract company, and permanently restricted from all TVA work. The appeals requested by both CEs upheld the refusal to test determination.

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

- The CEs were denied access, removed from site, and returned to the contract company.
- One CE was permanently restricted from all TVA work for attempting to subvert the testing process by substituting another urine specimen as theirs. The first urine specimen was outside of the acceptable temperature range, tested analytically negative and was subsequently cancelled by the Medical Review Officer (MRO). The second urine test, an observed/witness collection, also tested positive. Additionally, the CE refused to complete the MRO interview.
- One CE was restricted from all TVA work for three years. A review of the CE's work did not identify any deficiencies.

In the **random** test category, two CEs and one Licensee Employee (LE) tested positive.

- The CEs were denied access, removed from site, returned to the contract company, and restricted from all TVA work for three years. A review of the CEs' work did not identify any deficiencies.
- 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. The LE returned to work during this 2010 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.

Also in the **random** test category, one CE refused to report for random testing. The CE, who had been laid off the same day as the random test, was instructed to report for random testing

before leaving the site. The CE was permanently restricted from all TVA for the refusal to test. The appeal requested by the CE upheld the refusal to test determination.

In the **follow-up** test category, one CE and two LEs tested positive.

- In addition to revocation of unescorted access, the CE was removed from site, returned to the contract company, and permanently restricted from all TVA work due to the previous positive test results. A review of the CE's work did not identify any deficiencies.
- In addition to revocation of unescorted access, the LEs were removed from site, suspended for a minimum of fourteen days and referred to the Employee Assistance Program. Both LEs resigned/retired. One LE requested a split specimen testing be performed. The split specimen tests reconfirmed the positive test results. A review of the LEs' work did not identify any discrepancies.
- One of the LE events was reported to the NRC in accordance with 10 CFR 26.719 requirements (Event Number 45687, "Fitness for Duty – Confirmed Positive Alcohol Test for a Non-Licensed Supervisor.")

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

TENNESSEE VALLEY AUTHORITY
COMPANY

12/31/10
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		1,595				1017	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		321	0	N/A	N/A	2928	9
For Cause	Post-Event	6	0	N/A	N/A	18	0
	Observed behavior	6	0	N/A	N/A	6	2
Random		942	1	N/A	N/A	608	2
Follow-up		81	2	N/A	N/A	42	1
Other		0	0	N/A	N/A	0	0
Total		1356	3	N/A	N/A	3602	14

**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	0	1	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	4	2	0	0	0	5	3	0	1	0	0	3	0	
Total	4*	3	0	0	0	7	3	0	1	0	0	3	0	21

* 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 3

TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT

SUMMARY OF MANAGEMENT ACTIONS AND FITNESS FOR DUTY PROGRAM PERFORMANCE DATA

In the **pre-access** test category, thirteen Contract Employees (CEs) tested positive.

- The CEs were denied access, removed from site and returned to the contract company.
- Twelve of the CEs were restricted from all Tennessee Valley Authority (TVA) work for three years.
- One of the CEs was permanently restricted from all TVA work because of a previous positive test result.
- Four CEs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- Three of the CEs requested appeals. The positive test results were upheld.
- Since one CE had been badged as a reinstatement, a review of that CE's work did not identify any discrepancies.

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

- The CEs were denied access, removed from site, and returned to the contract company.
- One CE was permanently restricted from all TVA work for attempting to subvert the testing process by substituting another urine specimen as theirs. The first urine specimen was outside of the acceptable temperature range, tested analytically negative and was subsequently cancelled by the Medical Review Officer (MRO). The second urine test was an observed/witness collection and tested positive. Split specimen testing reconfirmed the positive results.
- Two CEs were restricted from all TVA work for three years. A review of the CEs' work did not identify any deficiencies.

In the **follow-up** test category, two CEs and two Licensee Employees (LEs) tested positive.

- The CEs were denied access, removed from site, and returned to the contract company.
- One CE was permanently restricted from all TVA work because of a previous positive test. A review of the CE's work did not identify any deficiencies. This CE tested positive for a second time before his first test was determined by the MRO.
- One CE was restricted from all TVA work for three years. A review of the CE's work did not identify any deficiencies.
- Unescorted access was revoked for the two LEs. Both LEs were permanently restricted from all TVA work because of previous positive test results. A review of the LEs' work did not identify any discrepancies.
- One of the LEs requested an appeal. The positive test results were upheld.

In the **random** test category, one CE tested positive.

- The CE was denied access, removed from site, returned to the contract company, and restricted from all TVA work for three years. A review of the CE's work did not identify any deficiencies. The CE requested an appeal which upheld the positive test results determination.

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

TENNESSEE VALLEY AUTHORITY	12/31/10
COMPANY	12 MONTHS ENDING
SEQUOYAH NUCLEAR PLANT	
LOCATION	
RONALD L. CASEY	423-751-7923
CONTACT NAME	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		1354		N/A		565	
Pre-Access		299	0	N/A	N/A	1563	13
For Cause	Post-Event	5	0	N/A	N/A	7	0
	Observed behavior	9	0	N/A	N/A	6	3
Random		711	0	N/A	N/A	327	1
Follow-up		10	2	N/A	N/A	37	3
Other		0	0	N/A	N/A	0	0
Total		1034	2	N/A	N/A	1940	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 - Sequoyah Nuclear Plant

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	Adulterated Specimen	Substituted Specimen	1	2	3	4	
Licensee Employees	0	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	13	2	1	2	0	3	0	0	1	0	0	0	0	
Total	13	2	1	2	0	5	0	0	1	0	0	0	0	24*

* One CE tested positive for both marijuana and cocaine.

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, twenty-three Contract Employees (CEs) tested positive.

- The CEs were denied access, removed from site, and returned to the contract company.
- Twenty-one of the CEs were restricted from all Tennessee Valley Authority (TVA) work for three years.
- One CE was permanently restricted from all TVA work for attempting to subvert the testing process by substituting another urine specimen as theirs. The first urine specimen was outside of the acceptable temperature range, tested analytically negative and was subsequently cancelled by the Medical Review Officer (MRO). The second urine test was an observed/witness collection and tested positive.
- One CE was permanently restricted from all TVA work because of a previous positive test result.
- Thirteen CEs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- One of the CEs requested an appeal. The appeal upheld the positive test result.

In the **for-cause (observed behavior/reasonable suspicion)** test category, four CEs and one Licensee Employee (LE) tested positive.

- The CEs were denied access, removed from site and returned to the contract company.
- The four CEs were restricted from all TVA work for three years. A review of the CEs' work did not identify any deficiencies.
- The LE was permanently restricted from all TVA work for attempting to subvert the testing process by substituting another urine specimen as theirs. The first urine specimen was outside of the acceptable temperature range, tested analytically negative and was subsequently cancelled by the MRO. The second urine test was an observed/witness collection which tested positive. The LE requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test result. A review of the LE's work did not identify any deficiencies.

In the **random** test category, ten CEs tested positive.

- The CEs were denied access, removed from site, returned to the contract company and restricted from all TVA work for three years. A review of the CEs' work did not identify any deficiencies.
- Six CEs requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results.
- Three of the CEs requested an appeal. The appeals upheld the positive test results.

In the **follow-up** 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 permanently restricted from all TVA work because of a previous positive test result. A review of the CE's work did not identify any deficiencies.

In the **post-event** 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 all TVA work for three years. The CE requested that split specimen testing be performed. The split specimen tests reconfirmed the positive test results. A review of the CE's work did not identify any deficiencies.

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

TENNESSEE VALLEY AUTHORITY
COMPANY

12/31/10
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	
Average Number with Unescorted Access		1288		N/A		3298	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		209	0	N/A	N/A	3429	23
For Cause	Post-event	7	0	N/A	N/A	29	1
	Observed behavior	2	1	N/A	N/A	15	4
Random		679	0	N/A	N/A	1931	10
Follow-up		39	0	N/A	N/A	166	1
Other		0	0	N/A	N/A	0	0
Total		936	1	N/A	N/A	5570	39

** 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	
Licensee Employees	0	0	0	1	0	0	0	0	1	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	22	4	1	4	0	6	0	0	1	0	0	2	0	
Total	22*	4	1	5	0	6	0	0	2	0	0	2	0	42

*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 5

TENNESSEE VALLEY AUTHORITY CORPORATE NUCLEAR POWER GROUP OFFICES

SUMMARY OF MANAGEMENT ACTIONS AND FITNESS FOR DUTY PROGRAM PERFORMANCE DATA

In the **follow-up** 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, and referred to the Employee Assistance Program. The LE returned to work during this 2010 Annual reporting period. A review of the LE's work did not identify any discrepancies.
- The LE event was reported to the NRC under 10 CFR 26.719 (Event Number 46008, "Non-Licensed Supervisor Fitness for Duty.")

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

TENNESSEE VALLEY AUTHORITY
COMPANY

12/31/10
12 MONTHS ENDING

CORPORATE OFFICES (CHATTANOOGA, KNOXVILLE, AND
OTHERS)
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		N/A		N/A		N/A	
Categories		# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
Pre-Access		70	0	N/A	N/A	8	0
For Cause	Post-event	0	0	N/A	N/A	0	0
	Observed behavior	0	0	N/A	N/A	0	0
Random		392	0	N/A	N/A	296	0
Follow-up		14	1	N/A	N/A	7	0
Other		0	0	N/A	N/A	0	0
Total		476	1	N/A	N/A	311	0

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

Breakdown of Confirmed Positive Tests for Specific Substances - Corporate Offices (Chattanooga, Knoxville, and Others)

	Marijuana	Cocaine	Opiates	Amphetamines	Phencyclidine	Alcohol	Refusal to test	Adulterated Specimen	Substituted Specimen	1	2	3	4	
Licensee Employees	0	0	0	0	0	1	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	0	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	0	1

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

**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
10-001 (NRC Event Number 45687)	February 8, 2010	TVA BFN Supervisor	Confirmed positive for alcohol.	Follow-up random test at Browns Ferry Nuclear Plant.	The individual's unescorted access was revoked. Individual was suspended for a minimum of fourteen days. Individual elected to retire. A review of the individual's work was performed with no deficiencies identified.
10-002 (NRC Event Number 46008)	June 14, 2010	TVA Corporate Supervisor	Confirmed positive for alcohol.	Follow-up test at Corporate office.	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 returned to work during this 2010 Annual reporting period. A review of the individual's work was performed with no deficiencies identified.

ENCLOSURE 7

**TENNESSEE VALLEY AUTHORITY
BROWNS FERRY, SEQUOYAH, AND WATTS BAR NUCLEAR PLANTS**

FATIGUE MANAGEMENT SUMMARY - 2010

Fatigue Management Summary

Browns Ferry Nuclear Plant - 2010

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	1	0	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	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	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

Fatigue Management Summary

Sequoyah Nuclear Plant - 2010

Summary:

One waiver in Health Physics; 15 total waivers 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	1	0	1	0	1	0	0	0	0	0	0	0	0	0
Security	4	0	13	0	2	0	0	0	0	0	0	0	0	0
Total	5	0	14	0	3	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	1	15
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 - 2010

Summary:

One waiver for working >26 Hours in a 48 Hour Period was issued in Operations as required to maintain minimum staffing. 19 waivers (multiple rules waived on some waivers) were issued in Security during an inclement weather period requiring personnel to be maintained on station due to unavailability of relief. These waivers were for <10 Hour Break (19 individuals), working >26 Hours in a 48 Hour Period (19 individuals), and working >72 Hours in a 7 Day Period (5 individuals).

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	1	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	19	0	5	0	0	0	19	0	0	0	0	0
Total	0	0	20	0	5	0	0	0	19	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	1	0	0	0	0	19
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