



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

August 25, 2000

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

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 2000

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, 2000. 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 Knoxville and Chattanooga corporate offices) and Bellefonte Nuclear Plant. Enclosure 6 includes one FFD event that occurred during this six-month period and was reportable to NRC pursuant to 10 CFR 26.73.

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

Enclosures  
cc: See page 2

*ADD*

U.S. Nuclear Regulatory Commission

Page 2

August 25, 2000

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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, 2000

The following summarizes five matters associated with 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 (TVAN) screened 119 specimens at the lower cutoff for marijuana during this reporting period. Six positive tests were identified from this group. Refer to Enclosures 2, 3, and 5, Page 3 of 3 of each enclosure, for additional information.

II. Attempted FFD Testing Subversions Detected

Summary

Adulteration - Four incidents of urine adulteration were identified by the TVAN Corporate Nuclear Security FFD Staff. Refer to Enclosures 2 and 3, Pages 1 of 3 of each enclosure.

Substitution - There was one incident of specimen substitution in which an individual was required to submit a witnessed specimen following submission of an out-of-range (low) temperature specimen. The witnessed specimen tested positive for marijuana. Refer to Enclosure 2, Page 1 of 3.

Refusal - There were two incidents of refusal to submit a specimen. In the first incident, during pre-access screening an individual submitted an insufficient (low volume) specimen. After being advised by the collector that an additional specimen amount was required, the individual refused to cooperate by leaving the collection facility and site without permission. Refer to Enclosure 3, Page 1 of 3. In the second incident, an individual submitted an out-of-range (low) temperature specimen. The individual then refused to submit the required witnessed specimen by leaving the collection facility and site without permission. Refer to Enclosure 4, Page 1 of 3.

TVAN Corporate Nuclear Security and its contract laboratories continue to research and implement the most effective methods to detect FFD testing subversion.

III. Unsatisfactory Laboratory Results on Blind Performance Test Specimens

Summary

On February 24 and February 28, 2000, TVAN Corporate Nuclear Security's FFD Staff received negative drug test results on samples sent to Clinical Reference Laboratory (CRL), TVAN's Department of Health and Human Services laboratory. The first sample was a blind proficiency sample that contained phencyclidine (PCP) and should have tested positive for PCP. The second sample contained opiates and should have tested positive for opiates. In accordance with 10 CFR 26, Appendix A, 2.8 (e) 4, the subsequent investigative findings regarding the two negative drug test results at CRL were forwarded to the NRC on March 24, 2000. Refer to the March 24, 2000 correspondence for additional information regarding the immediate corrective actions that have been completed to address these unsatisfactory laboratory results.

In addition, Corporate Nuclear Security generated a Problem Evaluation Report (PER) due to the above errors. PER-related root cause analysis determined that the first error (PCP sample) was due to inadequate written information. Specifically, the specimen was correctly assayed as positive for PCP. However, the CRL screening team leader had reassigned the batch, including this test, to another instrument. This caused a problem with the automated download of results. Subsequently, the certifying scientist made the decision to have the results manually entered. The clerk that entered the results did not enter the numeric value of the screening results. Instead, entered a positive or negative status for each result. The clerk incorrectly entered the PCP value as negative. This error should have been detected on review; however, a second clerk entering other specimen integrity information on the same specimen released the result before a review could be completed. Root cause analysis also revealed that the existing laboratory procedures did not include backup/contingency instructions for manual entries.

The root cause of the second error (opiate sample) was determined to be inadequate procedure adherence. CRL employees did not follow existing laboratory procedures in their entirety. The certifier utilized the wrong cutoff when interpreting the opiate result, as detailed in the CRL investigation.

PER-related extent of condition research revealed that there was one previous similar error in that one previous CRL blind proficiency error occurred in May 1999 and was documented by another TVAN PER. The subsequent investigative findings for the previous error were also forwarded to the NRC on June 23, 1999.

PER-related corrective actions included the following:

- On March 21, 2000, CRL clarified via memorandum that the certifying scientist checklist item for computer review include a review of the Sample Review screen. Memo receipt acknowledgment was signed and dated by CRL's certifying scientists;
- On March 28, 2000, CRL added instructions to their laboratory procedure for manual entry of results requiring entry of numeric values instead of positive or negative status;
- On March 28, 2000, CRL added a computer enhancement which evaluates the gas chromatography/mass spectrometry results against a client-specific cutoff and makes a positive or negative status;
- On April 6, 2000, CRL added instructions for reassigning the screening batch to its laboratory procedure;
- On June 14, 2000, TVAN's FFD Program Manager conducted a follow-up site visit to CRL and verified that CRL's PER-associated corrective actions were implemented and were effective. During the follow-up visit, the Program Manager verified that applicable procedure revisions dealt with problem correction and recurrence prevention; the revised procedures were added to CRL's procedure manuals; and, the memos and updated manuals were appropriately distributed.

The PER was closed July 7, 2000.

#### IV. FFD Alcohol and Drug Testing Population

##### Summary

During a routine FFD population database check on March 2, 2000, TVA Information Services (IS) FFD Program Analysts identified four individuals who were inadvertently removed from the FFD random alcohol and drug testing population. Three of the four individuals possessed unescorted access, and one of the four individuals possessed Emergency Response Clearance. Immediate corrective actions taken included: (1) Information Services immediately placed the four individuals back into the random testing population; (2) Information Services performed a preliminary extent of condition which determined that the problem was, at the time the PER was generated, isolated to the four individuals identified; (3) Information Services began investigating the cause of the problem. Preliminary investigative results indicated that the removals were due to a

system malfunction; and (4) TVAN Corporate Nuclear Security FFD Staff performed a preliminary investigation to determine if there was malicious intent or intentional FFD Program subversion. Preliminary investigative results indicated there was no malicious intent or intentional FFD Program subversion pertaining to the four individuals not included in the random testing population. The four individuals were not aware of their exclusion from the population.

Corporate Nuclear Security generated a PER due to the population discrepancy. Information Services determined the apparent cause of the problem to be a system design-logic deficiency. An Information Services FFD Program Analyst identified a piece of code (structured query language [SQL] script) with an error. Specifically, Information Services identified some very limited circumstances where a combination of an employee's Human Resources record and clearance status resulted in an individual being erroneously removed from the population. Subsequent to initiation of the PER, which addressed the FFD database deficiency, three additional individuals were erroneously removed from the population. Since the FFD population is being monitored daily, the latter three individuals were immediately identified and were also immediately placed back in the population. Information Services and Corporate Nuclear Security FFD Staff will continue to monitor and manually correct the population, as necessary, until a permanent fix is implemented and verified to be effective. Additional PER-associated corrective actions include:

- On July 28, 2000, Information Services developed an automatic procedure that verifies/monitors the FFD population on an ongoing basis. It entails a report that runs automatically from the HR database server every morning.
- Information Services will correct the system code to ensure that individuals required to remain in the FFD population cannot be erroneously removed - Due date: August 31, 2000

The PER will remain open pending completion of the remaining corrective action item.

#### V. Inadvertent Pre-notification

##### Summary

Watts Bar Nuclear Plant generated a PER regarding a shift manager's clerk paging an individual who was selected for random alcohol and drug screening on June 15, 2000. The selected individual answered the page from home and the clerk, incorrectly assuming that the individual would not be tested, explained the reason for the page which resulted in an inadvertent pre-notification. The selected individual was tested immediately upon arriving at work.

PER-associated corrective actions included counseling the shift manager's clerk regarding notification requirements. Appropriate methods concerning handling of future page responses from home were discussed with applicable personnel.

The PER was closed June 16, 2000.

JANUARY 1-JUNE 30, 2000

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 0.93 percent (36 positive tests) which is 0.22 percent higher than the last reporting period. The rate of random confirmed positives was 0.49 percent (7 positive tests) which is 0.20 percent higher than the last reporting period.

The 0.22 percent increase in the positive test rate for all categories and the 0.20 percent increase for the random test category were primarily attributed to the large increase in pre-access testing associated with Browns Ferry (BFN) and Sequoyah (SQN) Nuclear Plants' spring outages and the number of first-time nuclear workers attempting to check-in.

## ENCLOSURE 2

SUMMARY OF MANAGEMENT ACTIONS FOR  
BROWNS FERRY NUCLEAR PLANT

In the **pre-access** test category, one contract employee (CE) was detected attempting to subvert the Fitness for Duty testing process by substitution. Two CEs and one licensee employee (LE) were detected attempting to subvert the testing process by adulteration. After submitting an out-of-range (low) temperature specimen, the first CE submitted a required witnessed specimen. The witnessed specimen tested positive. Due to the adulterations, the other two CEs' and the LE's test results could not be reported as negative or positive. All three CEs were denied access, removed from the site, returned to the contract company, and permanently restricted from TVA Nuclear (TVAN) work. The first CE requested that a split specimen be performed. The split specimen test reconfirmed the positive test results. One of the CEs with an adulterated specimen requested an appeal. The adulterated specimen decision was upheld in the appeals process. The LE was denied access, removed from site, and permanently restricted from TVAN work. The LE did not request an appeal. The LE's termination was effective July 6, 2000.

Also in the **pre-access** category and in addition to the substitution which resulted in the witnessed positive test noted above, another 12 CEs tested positive. The CEs were denied access, removed from site, and returned to their contract company. Eleven of the 12 CEs were restricted from TVAN work for three years. One of the 12 CEs was permanently restricted from TVAN due to this being the CE's second positive test result. Three of the CEs requested that a split specimen be performed. The split specimen tests reconfirmed the positive test results. None of the CEs requested an appeal.

In the **random** test category, three CEs tested positive. The CEs' unescorted access was revoked. The CEs were removed from site, returned to the contract company, and restricted from TVAN work for three years. Two of the CEs requested that a split specimen test be performed. The split specimen tests reconfirmed the positive test results. None of the CEs requested an appeal.

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

|   |                           |
|---|---------------------------|
| TENNESSEE VALLEY AUTHORITY  | JUNE 30, 2000             |
| Company   | 6 Months Ending           |
| BROWNS FERRY NUCLEAR PLANT  |                           |
| Location  |                           |
| REBECCA A. STANFIELD  | (423) 751-8822            |
| Contact Name  | Phone (include area code) |
| <b>Cut-offs: Screen/Confirmation</b>  |                           |
| <input checked="" type="checkbox"/> Appendix A to 10 CFR 26<br>* 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 |                   | 1,261              |            |                                |            | 534                             |            |
| Categories                            |                   | # Tested           | # Positive | # Tested                       | # Positive | # Tested                        | # Positive |
| Pre-Access                            |                   | 70                 | 0          | N/A                            | N/A        | 789                             | 13         |
| For Cause                             | Post-accident     | 0                  | 0          | N/A                            | N/A        | 0                               | 0          |
|                                       | Observed behavior | 1                  | 0          | N/A                            | N/A        | 2                               | 0          |
| Random                                |                   | 319                | 0          | N/A                            | N/A        | 170                             | 3          |
| Follow-up                             |                   | 6                  | 0          | N/A                            | N/A        | N/A                             | N/A        |
| Other **                              |                   | 1                  | 0          | N/A                            | N/A        | 1                               | 0          |
| <b>Total</b>                          |                   | <b>397</b>         | <b>0</b>   | <b>N/A</b>                     | <b>N/A</b> | <b>962</b>                      | <b>16</b>  |

\*\* The other test category includes: transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update; assignment to emergency response duties (1)-TVA, (1) contract; and return-to-work.

**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 | 13*       | 3       | 0       | 0            | 0             | 0       | 0               | 0   | 0   | 0   | 0   | 0   |    |
| Total                  | 13        | 3       | 0       | 0            | 0             | 0       | 0               | 0   | 0   | 0   | 0   | 0   | 16 |

\*Three 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                   | 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** testing category, one CE was detected attempting to subvert the FFD testing process by adulteration, and one CE refused to submit a specimen. Due to the adulteration, the first CE's test results could not be reported as negative or positive. The second CE submitted an insufficient (low volume) specimen. After being advised by the collector that an additional specimen amount was required, the second CE refused to cooperate by leaving the collection facility and site without permission. The first CE was denied access, removed from site, returned to the contract company, and permanently restricted from TVA Nuclear (TVAN) work. The second CE was denied access and permanently restricted from TVAN work. Neither CE requested an appeal.

Also in the **pre-access** category, 14 CEs tested positive. One of the 14 CEs tested positive for two substances. The CEs were denied access, removed from site, and returned to their contract company. Thirteen of the 14 CEs were restricted from TVAN work for three years. One of the 14 CEs was permanently restricted from TVAN since this was the CE's second positive test result. Three of the CEs requested a split specimen be performed. The split specimen tests reconfirmed the positive test results. The one CE testing positive for alcohol did not request a confirmatory blood alcohol test. None of the CEs requested an appeal.

In the **random** test category, two CEs and one licensee foreman (LF) tested positive. The CEs' and LF's unescorted access was revoked. The CEs were removed from site, returned to their contract company, and restricted from TVAN work for three years. Neither CE requested that a split specimen be performed. One of the CEs requested an appeal, but did not contact the Medical Review Officer. The LF was removed from site, suspended for 14 days, and referred to the Employee Assistance Program. The LF returned to work during this reporting period and was subsequently placed in the follow-up testing program. The LF requested that a split specimen test be performed. The split specimen test reconfirmed the positive test result. The LF did not request an appeal.

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

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| TENNESSEE VALLEY AUTHORITY           |   | JUNE 30, 2000   |   |
| Company                              |   | 6 Months Ending   |   |
| SEQUOYAH NUCLEAR PLANT               |   |   |   |
| Location                             |   |   |   |
| REBECCA A. STANFIELD                 |   | (423) 751-8822  |   |
| Contact Name                         |   | Phone (include area code)   |   |
| <b>Cut-offs: Screen/Confirmation</b> |   | <input checked="" type="checkbox"/> Appendix A to 10 CFR 26<br>* 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 |                   | 1339               |            | N/A                            |            | 534                             |            |
| Categories                            |                   | # Tested           | # Positive | # Tested                       | # Positive | # Tested                        | # Positive |
| Pre-Access                            |                   | 71                 | 0          | N/A                            | N/A        | 1,247                           | 14         |
| For Cause                             | Post-accident     | 0                  | 0          | N/A                            | N/A        | 0                               | 0          |
|                                       | Observed behavior | 1                  | 0          | N/A                            | N/A        | 3                               | 0          |
| Random                                |                   | 319                | 1          | N/A                            | N/A        | 156                             | 2          |
| Follow-up                             |                   | 4                  | 0          | N/A                            | N/A        | N/A                             | N/A        |
| Other **                              |                   | 2                  | 0          | N/A                            | N/A        | 0                               | 0          |
| Total                                 |                   | 397                | 1          | N/A                            | N/A        | 1,406                           | 16         |

\*\* The other test category includes: transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update; assignment to emergency response duties; and return-to-work (2)-TVA.

**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     | 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 | 11*       | 2       | 1       | 2           | 0             | 1       | 0               | 0   | 0   | 0   | 0   | 0   |    |
| Total                  | 12        | 2       | 1       | 2           | 0             | 1       | 0               | 0   | 0   | 0   | 0   | 0   | 18 |

\* 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                   | 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, one CE refused to submit a specimen and one CE tested positive. The first CE submitted an out-of-range (low) temperature specimen. After being advised by the collector that a witnessed specimen was required, the first CE refused to cooperate by leaving the collection facility and site without permission. The first CE was denied access and permanently restricted from TVAN work. The second CE was denied access, removed from site, returned to the contract company, and restricted from TVAN work for three years. The second CE requested a confirmatory blood alcohol test. The blood test confirmed the positive test results. Neither CE requested an appeal.

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

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| TENNESSEE VALLEY AUTHORITY           |   | JUNE 30, 2000   |   |
| Company                              |   | 6 Months Ending   |   |
| WATTS BAR NUCLEAR PLANT              |   |   |   |
| Location                             |   |   |   |
| REBECCA A. STANFIELD                 |   | (423) 751-8822  |   |
| Contact Name                         |   | Phone (include area code)   |   |
| <b>Cut-offs: Screen/Confirmation</b> |   | <input checked="" type="checkbox"/> Appendix A to 10 CFR 26<br>* 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 |                   | 989                |            | N/A                            |            | 273                             |            |
| Categories                            |                   | # Tested           | # Positive | # Tested                       | # Positive | # Tested                        | # Positive |
| Pre-Access                            |                   | 38                 | 0          | N/A                            | N/A        | 199                             | 1          |
| For Cause                             | Post-accident     | 0                  | 0          | N/A                            | N/A        | 0                               | 0          |
|                                       | Observed behavior | 0                  | 0          | N/A                            | N/A        | 0                               | 0          |
| Random                                |                   | 227                | 0          | N/A                            | N/A        | 78                              | 0          |
| Follow-up                             |                   | 1                  | 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        | 277                             | 1          |

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

**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 | 0         | 0       | 0       | 0            | 0             | 1       | 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          |

ENCLOSURE 5

SUMMARY OF MANAGEMENT ACTIONS FOR  
CORPORATE TVAN OFFICES AND BELLEFONTE NUCLEAR PLANT

In the **random** test category, one licensee employee (LE) tested positive. The LE's unescorted access was revoked. The LE was suspended for 14 days and referred to the Employee Assistance Program (EAP). The LE did not request a split specimen to be performed nor did the LE request an appeal. The LE returned to work during this reporting period and was subsequently placed in the follow-up testing program.

In the **other** (Program Integrity) test category, one LE tested positive. The LE did not have unescorted access. The LE was suspended for 14 days and referred to the EAP. The LE requested that a split specimen be performed. The split specimen reconfirmed the positive test results. An appeal and return to work were not a factor because the LE died on the same day as being informed of the positive test results.

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

|  |   |   |   |
|--|---|---|---|
| TENNESSEE VALLEY AUTHORITY   |   | JUNE 30, 2000   |   |
| Company  |   | 6 Months Ending   |   |
| CORPORATE OFFICES (CHATTANOOGA, KNOXVILLE,<br>BELLEFONTE, AND OTHER) |   |   |   |
| Location   |   |   |   |
| REBECCA A. STANFIELD   |   | (423) 751-8822  |   |
| Contact Name   |   | Phone (include area code)   |   |
| <b>Cut-offs: Screen/Confirmation</b>                                 |   | <input checked="" type="checkbox"/> Appendix A to 10 CFR 26<br>* 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                                   |                   | 154                | 1          | N/A                            | N/A        | 14                              | 0          |
| Follow-up                                |                   | 0                  | 0          | N/A                            | N/A        | N/A                             | N/A        |
| Other ***                                |                   | 10                 | 1          | N/A                            | N/A        | 19                              | 0          |
| Total                                    |                   | 164                | 2          | N/A                            | N/A        | 33                              | 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: employment (13) contract; transfer to TVAN from other TVA organizations; administrative follow-up; program integrity clearance/update (4)-TVA, (3) contract; assignment to emergency response duties (4)-TVA, (3)-contract; and return to work (2)-TVA.

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

|                        | Marijuana | Cocaine | Opiates | Amphetamines | Phencyclidine | Alcohol | Refusal to test | 1   | 2   | 3   | 4   | 5   |   |
|------------------------|-----------|---------|---------|--------------|---------------|---------|-----------------|-----|-----|-----|-----|-----|---|
| Licensee Employees     | 2*        | 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                  | 2         | 0       | 0       | 0            | 0             | 0       | 0               | 0   | 0   | 0   | 0   | 0   | 2 |

\*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                   | 200          |
| 2           | Benzodiazepines | 300                   | 250          |
| 3           | Methadone       | 300                   | 250          |
| 4           | Methaqualone    | 300                   | 250          |
| 5           | Propoxyphene    | 300                   | 300          |

ENCLOSURE 6

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  |
|----------|----------------------|------------------|-----------|-----------------------|---|
| 2000-002 | March 27, 2000       | Licensee Foreman | Marijuana | Random testing at SQN | The individual's unescorted access was revoked. The individual was removed from site, suspended for 14 days, and referred to the Employee Assistance Program. The individual returned to work during this reporting period and was placed in the follow-up testing program. A review of the individual's work was performed, and no deficiencies were identified. |