



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

February 7, 2012

Docket No. 03003572

License No. 01-06113-04

Robert E. Richie, Jr.  
Senior Manager, Chem Oversight  
Tennessee Valley Authority (TVA)  
CNO NUCLEAR SUPPORT CFAM  
1101 Market Street WR BA-C  
Chattanooga, TN 37402

**SUBJECT:** NRC INSPECTION REPORT NO. 03003572/2011002, TENNESSEE VALLEY AUTHORITY (TVA), WESTERN AREA RADIOLOGICAL LABORATORY, MUSCLE SHOALS, ALABAMA

Dear Mr. Richie:

On September 19-20, 2011, Kathy Modes of this office conducted a safety and security inspection at the Western Area Radiological Laboratory in Muscle Shoals, Alabama. The inspection was an examination of your licensed activities as they relate to radiation safety and security and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspectors, interviews with personnel, and a review of records. Additional information provided in your correspondence dated October 17, 2011; October 28, 2011; November 7, 2011; and December 5, 2011, was also reviewed as part of the inspection. The findings of the inspection were discussed with you, Anthony Burzese, E. S. Chandrasekaran, Ph.D., and Lee Miller of your organization via telephone on January 26, 2012. The enclosed report presents the results of this inspection.

Based on the results of this inspection, one or more apparent security-related violation(s) were identified. The number and nature of security-related violations is considered to be sensitive information, and is not included in this letter, but is described in the non-public enclosure. Because the NRC has not made a final determination in this matter with respect to the apparent violation(s), a Notice of Violation is not being issued at this time. You will be advised by separate correspondence of the results of our deliberations. The number and characterization of apparent violation(s) described in the enclosed inspection report may change as a result of further NRC review.

The deficiencies were promptly compensated for to restore compliance and, as Dr. Chandrasekaran indicated during our inspection exit conference call on January 26, 2012, additional long-term corrective actions have been taken.

The Enclosure contains Sensitive Unclassified Non-Safeguards Information. Upon separation, this cover letter is decontrolled.
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R. Richie

2

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be made available electronically for public inspection in the NRC Public Document Room and from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>. However, the enclosure, and your response, will not be made publicly available due to the sensitive information contained therein.

Current NRC regulations are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Med, Ind, and Academic Uses**; then **Regulations, Guidance, and Communications**. The current Enforcement Policy is included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **About NRC; How We Regulate; Enforcement**; then **Enforcement Policy**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 8:00 a.m. to 5:30 p.m. EST, Monday through Friday (except Federal holidays).

Please contact Kathy Modes at 610-337-5251 if you have any questions regarding this matter.

Sincerely,

*/RA/*

Marc S. Ferdas, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

Enclosure:  
Inspection Report No. 03003572/2011002 (Non-Public)

cc:  
Anthony Burzese, Radiation Safety Officer (w/Enclosure)  
State of Alabama (w/o Enclosure)

~~Official Use Only – Security-Related Information~~

R. Richie

2

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Marc S. Ferdas, Chief  
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Enclosure:  
Inspection Report No. 03003572/2011002 (Non-Public)

cc:  
Anthony Burzese, Radiation Safety Officer (w/Enclosure)  
State of Alabama (w/o Enclosure)

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**SUNSI Review Complete:** KModes

**Public: Cover letter**

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