



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

Br. 3

November 29, 2011

10 CFR 30.38

Licensing Assistance Team  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

RECEIVED  
REGION I  
2011 DEC - 1 AM 10: 48

Tennessee Valley Authority  
Material License No. 01-25207-01  
Docket No. 030-32822

Subject: **BY-PRODUCT MATERIAL LICENSE AMENDMENT APPLICATION FOR  
TENNESSEE VALLEY AUTHORITY'S WIDOWS CREEK FOSSIL PLANT**

The purpose of this letter is to request an amendment of Tennessee Valley Authority's (TVA's) Widows Creek Fossil Plant by-product material license. The amendment is necessary to delete Amber Oliver as an authorized user and Radiation Safety Officer and request the addition of Robert T. Rich as an authorized user in License Condition 11 and the designation of James B. Colagross as the Radiation Safety Officer in License Condition 12.

TVA has reviewed and prepared this amendment application in accordance with the guidance provided in NUREG-1556, Volume 4, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Fixed Gauge Licenses."

Enclosure 1 is the original, signed NRC Form 313 requesting amendment of the subject license. Enclosure 2 includes the supporting information for Item 7 of NRC Form 313 consistent with Volume 4 of NUREG-1556.

If you have any questions regarding this license amendment request, please contact me at (423) 751-6887.

U.S. Nuclear Regulatory Commission  
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November 29, 2011

Respectfully,



J. W. Shea

Enclosures:

1. NRC Form 313, "Application for Materials License", Material License No. 01-25207-01
2. Detailed Information Supporting NRC Form 313, Item 7

cc (Enclosures):

NRC Document Control Desk

Enclosure 1

NRC Form 313  
"Application for Materials License"

Material License No. 01-25207-01

**APPLICATION FOR MATERIALS LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects.resource@nrc.gov](mailto:infocollects.resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**  
  
OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**IF YOU ARE LOCATED IN:**  
  
ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
612 E. LAMAR BOULEVARD, SUITE 400  
ARLINGTON, TX 76011-4125

**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER **01-25207-01**

C. RENEWAL OF LICENSE NUMBER

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

**Tennessee Valley Authority**  
**LP 4B**  
**1101 Market Street**  
**Chattanooga, Tennessee 37402-2801**

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

**Widows Creek Fossil Plant**  
**Tennessee Valley Authority**  
**Stevenson, Alabama 35772**

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

**J. W. Shea**

TELEPHONE NUMBER

**(423) 751-6887**

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL  
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY	AMOUNT ENCLOSED	\$

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE	SIGNATURE	DATE
<b>J. W. Shea, Corporate Manager Nuclear Licensing</b>		

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

Enclosure 2

Tennessee Valley Authority  
Application for Materials License Amendment of Nuclear By-Product  
Material License No. 01-25207-01

Detailed Information Supporting  
NRC Form 313, Item 7

Item 7

Individual(s) Responsible For Radiation Safety Program and Their Training and Experience

License Condition 11 and 12

11. Licensed material shall be used by, or under the supervision of Robert T. Rich or James B. Colagross.

Mr. Rich has successfully completed one of the training courses described in Criteria in the section entitled "Authorized Users" in NUREG-1556, Vol. 4, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses," dated October 1998. His specific training and experience is described in the attachment.

12. The Radiation Safety Officer for this license is James B. Colagross.

Mr. Colagross has successfully completed the training described in Criteria in the section entitled "Radiation Safety Officer" in NUREG-1556, Vol. 4, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauges Licenses," dated October 1998. His specific training and experience is described in the attachment.

## ATTACHMENT

Training and Qualifications of Authorized User and Radiation Safety Officer

James B. Colagross  
Radiation Safety Officer  
Widows Creek Fossil Plant  
256-386-3019

Purpose:

To document the radiation safety training and work experience of James B. Colagross to support his designation as Radiation Safety Officer on Widows Creek Fossil Plant NRC License No. 01-25207-01.

Training and Experience:

Mr. Colagross is currently the Radiation Safety Supervisor (Non-Nuclear), in TVA's Radiation Safety (Non-Nuclear) group. He has over 30 years of radiological experience and is also currently serving as the Radiation Safety Officer for NRC Material License Nos. 41-08165-08, 41-08165-18, and 01-25284-01. His duties include taking radiation surveys, conducting leak tests, and providing radiation safety training classes. In addition to his current position, Mr. Colagross has held Radiation Safety Senior Technician, Project Manager Cleaning and Support Services, and Radiological Control Senior Technician positions at TVA since 1987. Prior to joining TVA, Mr. Colagross served as a Radiological Control Senior Technician between 1979 and 1987.

Mr. Colagross has successfully completed the training described in Criteria in the section entitled 'Radiation Safety Officer' in NUREG-1556, Vol. 4, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauges Licenses," dated October 1998. Mr. Colagross' training has included instruction in environmental sampling, control and use of sealed sources, personnel monitoring, personnel decontamination, and maintaining records of shipment/receipt of radioactive material. He has also completed a manufacturer's fixed gauge operator course and training in the shipment of radioactive material and the handling of hazardous waste.

Formal Training and Education

Attended University of North Alabama, [REDACTED]  
Radioactive Material Shipping Class, 2002  
Hazardous Waste Training Program (HAZWOPER) – 29 CFR 1910.120, 2011  
Ohmart Nuclear Gauge Users Course, (8 hr) 2000  
CPR/First Aid Training, 1996  
TVAU Facilitator Training, 1995  
Philip Plato Panasonic TLD class, 1992



Robert T. Rich  
I&C Supervisor  
Widows Creek Fossil Plant  
256-437-4294

Purpose:

To document the work and radiation safety experience of Robert T. Rich to support his designation as a fixed gauge authorized user on Widows Creek Fossil Plant NRC License No. 01-25207-01.

Training and Experience:

February 2011

Mr. Rich successfully completed training with Jim Colagross, Radiation Safety Officer on NRC License Numbers 41-08165-08, 41-08165-18 and 01-25284-01, on the duties and responsibilities of an authorized user on NRC License No. 01-25207-01. Training included all applicable laws and safety concerns regarding the safe use and handling of installed fixed gauges authorized on NRC License No. 01-25207-01.

1999-Present

- Worked with and safely handled numerous radioactive sources as a Senior Instrument Mechanic.
- Qualified radiological worker requiring a TLD.
- Worked with various Ohmart density meters and level detection equipment.
- Knowledgeable in the safe handling of radioactive sources and the use of radiation safety devices such as survey meters.
- Successfully completed TVA radiation safety training.

November 1997

Mr. Rich successfully completed a 40-hour Ohmart factory fixed gauge training course in Cincinnati, Ohio as an employee of Beaulieu of America. The course covered safe handling of nuclear sources used in material density measurement. Mr. Rich has two years of experience working with the Ohmart safe scan equipment.

Current Duties:

- Responsible for TLD change outs at TVA Widows Creek for all monitored employees.
- Responsible for survey instrument exchange for calibrations and repairs.
- Supervise instrument mechanics conducting routine operations on or near installed nuclear gauges
- Site contact for radiation safety practices and issues associated with routine fixed gauge operations.

This is to acknowledge the receipt of your letter/application dated

11/29/2011, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment (01-25207-01) There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 576467.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.