



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

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September 6, 2012

10 CFR 30.38

Licensing Assistance Team  
U.S. Nuclear Regulatory Commission, Region I DNMS  
2100 Renaissance Blvd.  
King of Prussia, Pennsylvania 19406

Tennessee Valley Authority  
Material License No. 41-25219-01  
Docket No. 030-32925

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

The purpose of this letter is to request an amendment of Tennessee Valley Authority's (TVA's) Cumberland Fossil Plant by-product material license. The amendment is necessary to delete Marty Grasty as an authorized user and Radiation Safety Officer and request the addition of Jason M. Page 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.

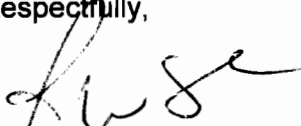
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NMSS/RGN1 MATERIALS-002

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If you have any questions regarding this license amendment request, please contact Lee Miller at (423) 751-3197.

Respectfully,

A handwritten signature in black ink, appearing to read 'J. W. Shea', written over the printed name.

J. W. Shea  
Vice President, Nuclear Licensing

Enclosures:

1. NRC Form 313, "Application for Materials License", Material License No. 41-25219-01
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. 41-25219-01**

**APPLICATION FOR MATERIALS LICENSE**

**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

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

**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:**  
 LICENSING ASSISTANCE TEAM  
 DIVISION OF NUCLEAR MATERIALS SAFETY  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
 2100 RENAISSANCE BOULEVARD, SUITE 100  
 KING OF PRUSSIA, PA 19406-2713

**IF YOU ARE LOCATED IN:**  
**ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,**  
**SEND APPLICATIONS TO:**  
 MATERIALS LICENSING BRANCH  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
 2443 WARRENVILLE ROAD, SUITE 210  
 LISLE, IL 60532-4352

**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:**  
 NUCLEAR MATERIALS LICENSING BRANCH  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
 1600 E. LAMAR BOULEVARD  
 ARLINGTON, TX 76011-4511

**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 41-25219-01

C. RENEWAL OF LICENSE NUMBER

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

Tennessee Valley Authority  
 Senior Vice President, Nuclear Licensing  
 1101 Market Street  
 Chattanooga, Tennessee 37402-2801

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Tennessee Valley Authority  
 Cumberland Fossil Plant  
 Cumberland City Road  
 Cumberland City, Tennessee

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Lee Miller

BUSINESS TELEPHONE NUMBER (423) 751-3197	BUSINESS CELLULAR TELEPHONE NUMBER (423) 486-3118
BUSINESS EMAIL ADDRESS lrmiller@tva.gov	

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.

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

9. FACILITIES AND EQUIPMENT.

11. WASTE MANAGEMENT.

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

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

10. RADIATION SAFETY PROGRAM.

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


FEE CATEGORY	AMOUNT ENCLOSED \$
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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: J.W. Shea, Vice President, Nuclear Licensing

SIGNATURE: 

DATE: 9/6/2012

**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. 41-25219-01**

**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 Jason M. Page or James B. Colagross.

Mr. Page has successfully completed the training course described in the section entitled "Criteria for Acceptable Training for Authorized Users and Radiation Safety Officers" in NUREG-1556, Vol. 4, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses," dated October 1998. His 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 Cumberland Fossil Plant NRC License No. 41-25219-01.

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, 01-25207-01, 41-08165-18, 16-25243-01, 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

PERSONAL INFORMATION WAS REMOVED  
BY NRC. NO COPY OF THIS INFORMATION  
WAS RETAINED BY THE NRC.



Jason M. Page  
Engineering Technician-B Level  
Cumberland Fossil Plant

Purpose:

To document the work and radiation safety experience of Jason M. Page to support his designation as a fixed gauge authorized user on Cumberland Fossil Plant NRC License No. 41-25219-01.

Formal Training and Education

University of Memphis, Bachelor of Science in Engineering Technology, [REDACTED]  
University of Memphis, Bachelor of Fine Arts, [REDACTED]  
Radiation Safety Training, June 2009  
Radiation Safety Training, June 2011  
Radiation Safety Training - Authorized User, License Condition 11, August 22, 2012

Work Experience

July 2008 – Present                      Tennessee Valley Authority  
Engineering Technician-B Level, Plant- Assists engineers and technical service analysts - plans, directs, administers, evaluates, and/or modifies plant programs/systems related to water chemistry, equipment performance testing and analysis, coal contract sampling requirements, environmental compliance, and equipment reliability analysis in a coal-fired fossil plant. I worked with a Fluorotracer analyzer containing radioactive sealed sources.

September 2004 - July 2008              Professional Services Industries  
Lab Manager/Lab Technician- Conduct and oversee multiple test and observations for consulting purposes for the construction industry in accordance with American Society for Testing and Materials and American Association of State Highway and Transportation Officials regulations.

PERSONAL INFORMATION WAS REMOVED  
BY NRC. NO COPY OF THIS INFORMATION  
WAS RETAINED BY THE NRC.

This is to acknowledge the receipt of your letter application dated

9-6-12, and to inform you that the initial processing which includes an administrative review has been performed.

Amend: 41-25219-01  
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

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** 579143.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.