



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

Tennessee Valley Authority  
Material License No. 41-06832-06  
Docket No. 030-17797

RECEIVED  
REGION 1  
2011 DEC -1 AM 10:46

Subject: **By-Product Material License Amendment Application for Tennessee Valley Authority's Industrial Radiography License**

The purpose of this letter is to request an amendment of Tennessee Valley Authority's (TVA's) Industrial Radiography Materials License No. 41-06832-06. The amendment is necessary to delete Michael K. Tidwell as the Radiation Safety Officer and request the designation of Todd G. Kirk as the Radiation Safety Officer (RSO) in License Condition 12.

Mr. Tidwell plans to leave the organization on December 2, 2011. Prior to NRC's approval of the license amendment, Mr. Kirk, an individual who meets the RSO qualifications in 10 CFR 34.42(a), will be responsible for ensuring the radiation safety program is implemented in accordance with the license and NRC regulations. Mr. Kirk's performance of the RSO duties prior to receipt of the amendment is in accordance with the note at the end of Section 8.7.1, Radiation Safety Officer (RSO), in NUREG-1556, Volume 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Industrial Radiography Licenses".

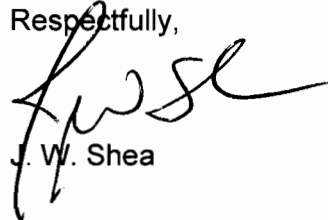
TVA has reviewed and prepared this amendment application in accordance with the guidance provided in NUREG-1556, Volume 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Industrial Radiography Licenses."

U.S. Nuclear Regulatory Commission  
Page 2  
November 28, 2011

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 2 of NUREG-1556.

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

Respectfully,

A handwritten signature in black ink, appearing to read "J. W. Shea", is written over the typed name.

Enclosures:

1. NRC Form 313, "Application for Materials License", Material License No. 41-06832-06
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. 41-06832-06

## 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

## 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  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

## 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  
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 **41-06832-06**
- ☐ C. RENEWAL OF LICENSE NUMBER

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

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

## 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

**Sequoyah Training Center**  
**Igou Ferry Road**  
**Soddy Daisy, Tennessee and at Temporary Jobsites**  
**anywhere in the U.S. where NRC maintains jurisdiction.**

## 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

**J. W. Shea, Corporate Manager Nuclear Licensing**

## SIGNATURE



## DATE

**11/29/2011**

## 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. 41-06832-06

Detailed Information Supporting  
NRC Form 313, Item 7

Item 7

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

License Condition 12

12. The Radiation Safety Officer for this license is Todd Kirk.

Mr. Kirk's qualifications for designation as the Radiation Safety Officer include the following:

As required by 10 CFR 34.42(a):

- (1) Completion of the training and testing requirements of 10 CFR 34.43(a);
- (2) 2000 hours of hands-on experience as a qualified radiographer in industrial radiographic operations; and
- (3) Formal training in the establishment and maintenance of a radiation protection program.

A copy of his resume is attached.

## ATTACHMENT

Training and Qualifications of Authorized User and Radiation Safety Officer

## **Todd G. Kirk**

### **Summary of Qualifications**

- In excess of twenty years of experience in all disciplines of Non-Destructive testing
- Certified ASNT Level III in Radiography
- Certified Radiographer IRRSP through ASNT
- In excess of 30,000 hours of experience in Radiography
- Current Assistant RSO for TVA Inspection Services Origination NRC Radiography License
- Former Licensee RSO for Agreement State Tennessee
- Former Licensee RSO for Agreement State Alabama
- Successful completion of "Administrators' Seminar" (RSO training in the establishment and management of an industrial radiography radiation safety program)

### **Professional Experience**

2010 to Present	TVA Inspection Services Organization	ARSO / Radiographer / NDE Technician
2007 to 2010	Ivey Cooper Services, LLC	RSO / Quality Control Lead
2002 to 2007	Ivey Cooper Services, LLC	Quality Control Lead Technician
1998 to 2002	Scientific Inspection Technology, Inc.	Quality Control Lead Technician





**Certificate of Method Qualification**  
**Tennessee Valley Authority**

**QA RECORD**

The individual has completed the qualification requirements for certification in the applicable method (s) in accordance with IEP-200, "Qualification and Certification Requirements For TVA Nuclear Power Group (NPG) Nondestructive Examination (NDE) Personnel":

W 4 7 1 1 0 6 0 7 0 0 8

IEP-200, Revision 11

Name: Todd, G. Kirk Badge: B4WG11ADK  
First Last  
Method: Radiography Level: II Initial Method Certification Date: 11/1/1991 Initial Certification ☐ Recertification ☒  
Limitations/ Restrictions: None.  
Test Techniques: RT: GAMMA.

Education:	<u>Name of School</u>	<u>Location</u>	<u>Year Graduated</u>
	<u>C. C. Allegheny College</u>	<u>Pittsburgh, PA</u>	<u>88</u>
	<u>York High School</u>	<u>York, Maine</u>	<u>88</u>

NDE Training:	<u>Company</u>	<u>Course Title</u>	<u>Hours</u>	<u>Level</u>	<u>Date Completed</u>
	<u>Allegheny Community College</u>	<u>RT Basic</u>	<u>60</u>		<u>12/1/1984</u>
	<u>Allegheny Community College</u>	<u>RT Advanced</u>	<u>75</u>	<u>II</u>	<u>5/1/1985</u>
	<u>Allegheny Community College</u>	<u>RT Safety</u>	<u>45</u>	<u>N/A</u>	<u>5/1/1985</u>
	<u>MQS</u>	<u>RT Safety</u>	<u>40</u>	<u>N/A</u>	<u>2/1/1991</u>
	<u>Ivey Cooper Services</u>	<u>RT Safety</u>	<u>8</u>	<u>N/A</u>	<u>2/1/2003</u>
	<u>Ivey Cooper Services</u>	<u>RT Safety</u>	<u>8</u>	<u>N/A</u>	<u>8/1/2003</u>
	<u>ISO</u>	<u>TVA Radiography Procedure Training</u>	<u>4</u>	<u>N/A</u>	<u>9/5/2010</u>
	<u>ISO</u>	<u>Radiography Level II</u>	<u>8</u>	<u>II</u>	<u>9/5/2010</u>

Previous NDE Experience:	<u>Company</u>	<u>Level</u>	<u>Hours Credited</u>	<u>Dates</u>
	<u>MQS Inspection</u>	<u>II</u>	<u>4851</u>	<u>11/1/1991 to 3/1/1994</u>
	<u>Scientific Inspection</u>	<u>II</u>	<u>9377</u>	<u>3/1/1998 to 9/1/2002</u>
	<u>Ivey Cooper Services</u>	<u>II</u>	<u>6247</u>	<u>9/17/2002 to 9/17/2005</u>
	<u>Ivey Cooper Services</u>	<u>III</u>	<u>9548</u>	<u>1/13/2006 to 8/15/2010</u>

**Additional Certifications / Qualifications:**

Radiographic Testing, ASNT Level III

Date  
2/1/2015

LEVEL I/II				LEVEL III			
General	<u>74.46</u>	Date Completed	<u>8/24/2010</u>	Basic	<u>          </u>	Date Completed	<u>          </u>
Specific	<u>95.45</u>	Date Completed	<u>8/30/2010</u>	Method	<u>          </u>	Date Completed	<u>          </u>
Practical	<u>96.25</u>	Date Completed	<u>9/5/2010</u>	Specific	<u>          </u>	Date Completed	<u>          </u>
				Demo	<u>          </u>	Date Completed	<u>          </u>
				Practical	<u>          </u>	Date Completed	<u>          </u>
Score	<u>88.72</u>			Score	<u>          </u>		
Period of Certification:	<u>9/5/2010</u>	to	<u>8/24/2013</u>	Period of Certification:	<u>          </u>	to	<u>          </u>
Approved by <u>G. Wayne Hambree</u> <u>9-5-2010</u>							
G/ Wayne Hambree, Principal Level III				Date			

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Page 1 of 1

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

# The Community College of Allegheny County

College Center - North Campus

The trustees of the Community College of Allegheny County upon recommendation  
of the faculty have conferred upon

**Todd Gregory Kirk**

the degree of

**Associate in Science**

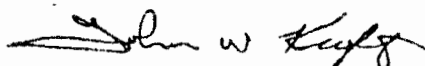
**Nondestructive Testing**

in recognition of the satisfactory completion of the requirements for graduation.

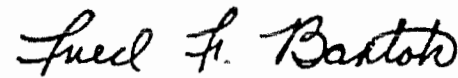
Given at Pittsburgh, Pennsylvania, this seventeenth day of May  
one thousand nine hundred eighty-six



Chairman, Board of Trustees



President



Vice President and Executive Dean



# The American Society for Nondestructive Testing, Inc.

Be it known that

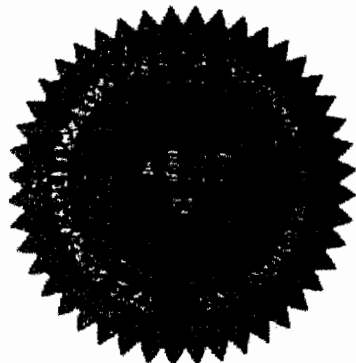
## Todd G Kirk

has met the established and published Requirements for Certification by ASNT as


### NDT Level III

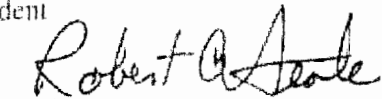
in the following Nondestructive Testing Methods:

<u>Method</u>	<u>Issue Date</u>	<u>Expiration Date</u>
Magnetic Particle Testing	2/10	2/15
Radiographic Testing	2/10	2/15



101391  
Certificate Number

  
ASNT President

  
Certification Management Council Chair

This certificate is the property of ASNT, is not official without ASNT's raised gold seal and is subject to revocation prior to the listed expiration date.  
This certificate should be verified on the ASNT Web site or by contacting the ASNT Technical Services Department.

# SENTINEL™

hereby certifies

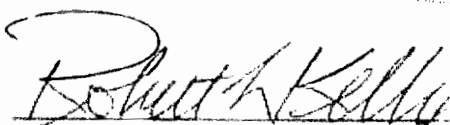
Todo Kirk

attended the course of instruction and practical training in  
**RETRIEVAL!** A course providing training in the safety aspects,  
technical considerations, and regulatory requirements for the  
safe performance of retrievals of sealed sources utilized in  
isotope radiography systems that are involved in incidents.

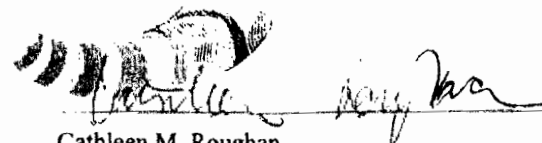
ATTESTED: 16 Sep 201

Course Duration: 24 Hours

Certificate Serial Number: 744



Robert L. Kelly  
Technical Manager



Cathleen M. Roughan  
Director of Regulatory Affairs and Quality Assurance



SENTINEL

# SENTINEL

hereby certifies

Fodd Kirk

has successfully completed the course of training for the

"Inspection and Maintenance of Industrial Radiography Equipment"

ATTESTED 13 September 2011

Course Duration 16 Hours

rock rocky, Jr

Instructor

Cathleen M. Roughan

Director of Regulatory Affairs and Quality Assurance



QSA GLOBAL

The American Society for Nondestructive Testing

**Todd G Kirk**

has met the heretofore published ASNT  
requirements for certification in the

**Industrial Radiographer  
Radiation Safety Program**

in the method indicated.

Method

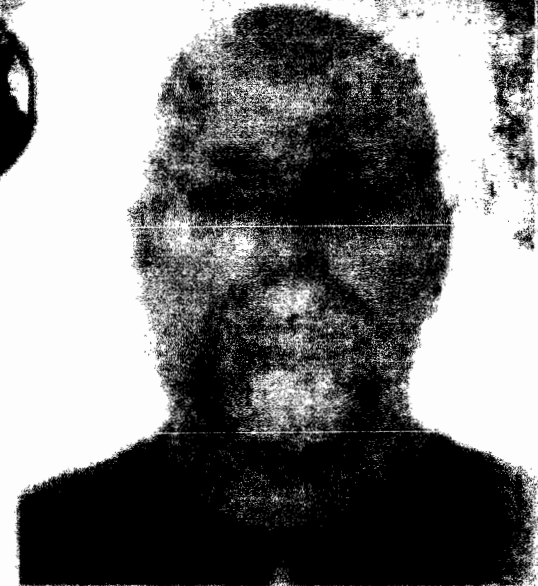
RA

(See reverse side for method descriptions)

Expiration Date

1/14

*James W. Hays*  
ASNT Technical Services Manager



**101391**

Certificate Number

*Todd G Kirk*

Certificate Holder

**Tidwell, Michael K**

---

**From:** Kelly, Bob [Bob.Kelly@qsa-global.com]  
**Sent:** Sunday, November 27, 2011 12:56 PM  
**To:** Tidwell, Michael K  
**Subject:** RE: Todd Kirk info

Hi Mike,

This e-mail message provides confirmation that Todd Kirk, SSN [REDACTED] attended the QSA Global, Inc. course number ADM-1111, titled "Administrators' Seminar" (RSO training in the establishment and management of an industrial radiography radiation safety program). The course was held in Baton Rouge, Louisiana during the dates of November 15-16, 2011 and instructed by Robert L. Kelly.

A certificate of training will be issued to Mr. Kirk in the near future and a copy should be held in his training file for a minimum of 5 years.

Because of the upcoming changes within your program, please advise Mr. Kirk to complete his examination (program audit/assessment). He will need a baseline audit to get started and with your assistance, it will only streamline the process.

If you have any questions, please call my mobile phone number during the lunch hour this week. I'm teaching a course this week in Ohio and cellular phones must be checked in at security.

Hope this helps.

Regards,  
Bob

**SENTINEL**  
*YOUR KEY TO NDT*

Robert L. Kelly  
Technical Manager  
Sentinel-QSA Global Inc.  
30 North Avenue  
Burlington, Massachusetts 01803

Tel: (800)-815-1383, extension 272  
Tel: (direct line) (781)-505-8272  
Fax: (direct) 781-564-2772  
Mobile: (603)-438-4767

**From:** Tidwell, Michael K [mailto:mktidwell@tva.gov]  
**Sent:** Saturday, November 26, 2011 12:32 PM  
**To:** Kelly, Bob  
**Subject:** Todd Kirk info

Bob,

As a follow-up to our conversation earlier, please provide evidence of successful completion of the RSO administrator's training Mr. Kirk attended.

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 (41-06832-06)  
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** 576466.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.