TRANSMISSION VERIFICATION REPORT

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05/06 09:48 85736432628 00:02:35 15 STANDARD **ECM**



UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532-4352

TELEFAX TRANSMITTAL

DATE May 6, 2009

NUMBER OF PAGES 15

SEND TO Russell A. Rice - Applicant Contact

LOCATION Associated Electric Cooperative, Inc.

FAX NUMBER (573) 643-2628

VERIFY BY CALLING

FROM: Bill Reichhold

(Sender)

TELEPHONE NUMBER (630) 829-9839

FAX NUMBER (630) 515-1078

If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.

MESSAGE See accompanying documents.



UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532-4352

TELEFAX TRANSMITTAL

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NOTICE

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this communication in error, please notify the sender immediately by telephone and return the original to the above address, by U.S. Mail. Thank You.

The following additional information is needed to review your request.

The NRC issued NUREG-1556, Volume 4, in October 1998, to provide guidance for completing an application for fixed gauges. NUREG-1556, Volume 4, outlines the necessary information needed from applicants for licensure. We need additional information to complete our review of your new license request. Please review and resubmit the information in your application in its entirety in accordance with the guidance in NUREG-1556, Volume 4. Enclosed is a copy of Appendix B from NUREG-1556, Volume 4, that provides a checklist format for providing information requested in Items 5 through 11 of NRC Form 313. The checklist format will be easier to use rather than submitting detailed and lengthy procedures.

Please give special attention to the following:

- Please clarify identity of the applicant for the new license. Do you wish the
 license issued to Associated Electric Cooperative, Inc. and the New Madrid
 Power Plant listed as the location of use. OR Do you wish the license
 issued to New Madrid Power Plant with New Madrid Power Plant listed as
 the location of use.
- Please clarify the model number for the Stock Equipment Company Secoal nuclear monitoring equipment. A review of our records showed that Stock Equipment Company makes a models D-14400 and D14400S. You may need to contact the manufacturer to get the Sealed Source and Device Registry number for your gauges to determine the correct model number.
- Please clarify the model number for the Kay-Ray Ash Hopper Level
 Detection System. We do not have a Model 4400 listed in our Sealed
 Source and Device Registry. You may need to contact the manufacturer to
 get the Sealed Source and Device Registry number for your gauges to
 determine the correct model number.
- Please submit a copy of the certificate showing that Russell A. Rice successfully completed the radiation safety course in June 1999 provided by Nevada Technical Associates. Appendix G " Criteria for Acceptable Training for Authorized Users and Radiation Safety Officers" (copy enclosed) provides guidance on acceptable training for Radiation Safety Officers. Please provide a course outline that covers the course content, training assessment, and course instructor qualifications for the Nevada Technical Associates safety course.

- Please specify the names of the individuals who will be the authorized gauge users and their training and experience that meets the criteria in the section entitled "Authorized Users" in NUREG 1556, Volume 4, dated October 1998. OR Please make a commitment that before using licensed materials, authorized users will have successfully completed the training describe in Criteria in the section entitled "Authorized Users" in NUREG-1556, Volume 4, dated October 1998.
- Please make sure you respond to both "Routine Maintenance" and " Non-Routine Maintenance Operations" in Item 10 Radiation Safety Program Maintenance in the "checklist" for providing information for your new license application.

Please send a facsimile (630- 515-1078) of your response to the above within 7 days and refer to control 318074. Please call me at 630-829-9839 if you have any questions.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this facsimile and the attached documents will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

From the desk of:

Bill Reichhold

NRC FORM 313 10 CFR 30, 32, 33,

34, 35, 36, 39, and 40

(3-2009)

U.S. NUCLEAR REGULATORY COMMISSION

EXPIRES: 3/31/2012

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, 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.

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:

F 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

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 STATE MATERIAL IN STATES SUBJECT TO U.S.NUC					RY COMMISSION ONLY IF THEY	WISH TO POSSESS AND	USE LICENSED
1. THIS IS AN APPLICATION FOR (Check app.	ropriate item)			2. NAME A	ND MAILING ADDRESS OF APPLIC	ANT (Include ZIP code)	
A. NEW LICENSE							
B. AMENDMENT TO LICENSE NU	MBER						
O DENEMAL OF LICENSE NUMBER							
C. RENEWAL OF LICENSE NUMB							
3. ADDRESS WHERE LICENSED MATERIAL V	VILL BE USED	OR POSSESSED		4, NAME O	F PERSON TO BE CONTACTED A	BOUT THIS APPLICATIO	N
				TELEPH	ONE NUMBER		
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11"	PAPER THE	TYPE AND SCOPE OF IN	IFORMA	TION TO BE	PROVIDED IS DESCRIBED IN THE	LICENSE APPLICATION	GUIDE
RADIOACTIVE MATERIAL Element and mass number; b, chemical ar which will be possessed at any one time.					E(S) FOR WHICH LICENSED MAT		
INDIVIDUAL(S) RESPONSIBLE FOR RADIA TRAINING EXPERIENCE.	TION SAFETY	PROGRAM AND THEIR		8. TRAININ	G FOR INDIVIDUALS WORKING IN	OR FREQUENTING RES	STRICTED AREAS
9. FACILITIES AND EQUIPMENT.				10. RADIAT	ION SAFETY PROGRAM		
11. WASTE MANAGEMENT.				12, LICENS	E FEES (See 10 CFR 170 and Sec		
61					TEGORY	AMOUNT ENCLOSED \$	
13. CERTIFICATION. (Must be completed by all UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECONFORMITY WITH TITLE 10, CODE OF F CORRECT TO THE BEST OF THEIR KNOW WARNING: 18 U.S.C. SECTION 1001 ACT ANY DEPARTMENT OR AGENCY OF THE	CUTING THIS EDERAL REG /LEDGE AND I OF JUNE 25, 1	CERTIFICATION ON BEH, ULATIONS, PARTS 30, 32 BELIEF 1948 62 STAT, 749 MAKES	ALF OF 1 2, 33, 34,	THE APPLICA 35, 36, 39, A	INT, NAMED IN ITEM 2, CERTIFY 1 ND 40, AND THAT ALL INFORMATI ENSE TO MAKE A WILLFULLY FAL	HAT THIS APPLICATION ON CONTANED HEREIN	N IS PREPARED IN N IS TRUE AND
CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE							DATE
		FOR	NRC	USE O	NLY		
TYPE OF FEE FEE LOG FEE (CATEGORY	AMOUNT RECEIVED \$	CHECK	NUMBER	COMMENTS		
APPROVED BY			DATE				

Appendix B

Suggested Format for Providing Information Requested in Items 5 Through 11 of NRC Form 313

Suggested Format for Providing Information Requested in Items 5 Through 11 of NRC Form 313

Table B.1 Items 5 & 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
		Cobalt-60	Sealed source manufacturer or	Not to exceed either the maximum	Yes [] Specific description	[] Not applicable
			distributor and model number:	activity per source or maximum	of the gauge use:	Uses are:
			Device manufacturer or distributor and model number:	activity per device as specified in Sealed Source and Device Registration Certificate		(Submit safety analysis supporting safe use)
		Krypton-85	Sealed source	Not to exceed either the maximum	Yes [] Specific description	[] Not applicable
			manufacturer or distributor and model number:	activity per source of the gauge use: or maximum activity per device	Uses are:	
						(Submit safety
			Device manufacturer or	as specified in Sealed Source and		analysis supporting safe use)
			distributor and model number:	Device Registration Certificate		
	Pre	Strontium-90	Sealed source	Not to exceed either	Yes []	[] Not applicable
			manufacturer or distributor and model number:	the maximum activity per source or maximum	Specific description of the gauge use:	Uses are:
				activity per device		(Submit safety analysis supporting
			Device manufacturer or distributor and model number:	as specified in Sealed Source and Device Registration Certificate		safe use)
		Cesium-137 Sealed source manufacturer or distributor and model number:		Not to exceed either	Yes [] Specific description	[] Not applicable
			activity per source or maximum	of the gauge use:	Uses are:	
				activity per device as specified in		(Submit safety analysis supporting
			Device manufacturer or distributor and model number:	as specified in Sealed Source and Device Registration Certificate		safe use)

APPENDIX B

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed or SSD Certificate
		Americium- 241	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration	Yes [] Specific description of the gauge use:	[] Not applicable [] Uses are: (Submit safety analysis supporting safe use)
de l'	ente.	Other Isotope (Specify):	Sealed source manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum	Yes [] Specific description of the gauge use:	[] Not applicable [] Uses are:
			Device manufacturer or distributor and model number:	activity per device as specified in Sealed Source and Device Registration Certificate		(Submit safety analysis supporting safe use)

Table B.2 Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

I	tem No. and Title	Suggested Response	Yes	Alternative Procedures Attached
7.	Individual(s) Responsible For Radiation Safety Program And Their Training And Experience	Before obtaining licensed materials, the proposed RSO will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998.	[]	[]
7.1 Nar	Radiation Safety Officer ne:	AND Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our license.		
7.	Individual(s) Responsible For Radiation Safety Program And Their Training And Experience Authorized Users	PROPOSED AUTHORIZED USERS: Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled, "Authorized Users" in NUREG-1556, Vol. 4, dated October 1998.	1)	
8.	Training for Individuals Who in the Course of Employment are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a Year (Occupationally Exposed Workers) and Ancillary Personnel	The applicant is <i>not</i> required to, and should not, submit is training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and ancillary personnel, to the NRC for review during the licensing phase.	Need Not Be Application	Submitted with
9.	Facilities and Equipment	We will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment" in NUREG-155C, Vol. 4, dated August 1998. OCTOBER	[1]	[]

APPENDIX B

	tem No. and Title	Suggested Response	Yes	Alternative Procedures Attached	
10.	Radiation Safety Program - Audit Program	The applicant is <i>not</i> required to, and should not, submit its audit program to the NRC for review during the licensing phase.	Need Not Be S Application	Submitted with	
10.	Radiation Safety Program - Survey Instruments	Surveys pursuant to 10 CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys. OR			
		We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program - Instruments," in NUREG-1556, Vol. 4, dated August 1998, and one of the following: Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations.			
		OR			
		We will implement the model survey instrument calibration program in Appendix I to NUREG-1556, Vol. 4, dated August 1998. October 1	998.		
10.	Radiation Safety Program - Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.	[]	[]	
10.	Radiation Safety Program - Occupational Dosimetry	We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled "Radiation Safety Program - Occupational Dosimetry," in NUREG-1556, Vol. 4, dated August 1998. October	[] 1998 .		
10.	Radiation Safety Program - Public Dose	The applicant is not required to submit a response to the public dose section during the licensing phase. However, during NRC inspections, licensees must be able to provide documentation demonstrating, by measurement or calculation, that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed operation does not exceed the annual limit for individual members of the public.	Need Not Be Su Application	ubmitted with	

9.1	Item No. and Title	Suggested Response	Yes	Alternative Procedure Attached	
10.	Radiation Safety Program - Operating & Emergency Procedures	If the gauge meets one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 state the following:	[]	[]	
		Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures," in NUREG-1556, Vol. 4, dated August 1998.			
	DETOBER —	For each gauge requested that does not meet one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 provide your operating, emergency and lock-out (if applicable) procedures to NRC for review.	[] Procedures Attached		
	Radiation Safety Program - Leak Test	Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.			
		OR We will implement the model leak test program published in Appendix M to NUREG-1556, Vol. 4, dated August 1998.	D		

OCTOBER

APPENDIX B

	Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10.	Radiation Safety Program - Maintenance	ROUTINE MAINTENANCE We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.		
		NON-ROUTINE MAINTENANCE OPERATIONS The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.	[]	[] The information listed in Appendix N supporting a request to perform non-routing operations in-house is attached
10. Radiation Safety Program - Transportation		The applicant is <i>not</i> required to submit its response to transportation during the licensing process; this issue will be reviewed during inspection. However, the licensee should develop, implement, and maintain transportation procedures according to NRC and DOT regulations.	Need Not Be Application	Submitted with
10.	Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites	This is not applicable to our program. We will not use fixed gauges at temporary job sites. OR We will develop, implement, maintain and distribute procedures that meet the Criteria in the section entitled "Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites" in NUREG-1556, Vol. 4, dated August 1998.	[] Not Applicable	[]
10.	Radiation Safety Program - Minimization of Contamination	The applicant is not required to submit a response to minimization of contamination if the applicant's responses meet the criteria for the following sections: Radioactive Material - Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program - Operating and Emergency Procedures, Radiation Safety Program - Leak Testing, and Waste Management - Gauge Transfer and Disposal.	Need Not Be S Application	Submitted with

Appendix G

Criteria for Acceptable Training for Authorized Users and Radiation Safety Officers

Criteria for Acceptable Training for Authorized Users and Radiation Safety Officers

Course Content

Classroom training may be in the form of lecture, videotape, or self-study emphasizing practical subjects important to safe use of the gauge:

Radiation Safety:

- · Radiation vs. contamination
- · Internal vs. external exposure
- · Biological effects of radiation
- · Types and relative hazards of radioactive material possessed
- ALARA concept
- Use of time, distance, and shielding to minimize exposure
- Location of sealed source within the gauge

Regulatory Requirements:

- Applicable regulations
- License conditions, amendments, renewals
- Locations of use and storage of radioactive materials
- Material control and accountability
- · Annual audit of radiation safety program
- Transfer and disposal
- Recordkeeping
- Prior events involving fixed gauges
- · Handling incidents
- Recognizing and ensuring that radiation warning signs are visible and legible
- Licensing and inspection by regulatory agency
- Need for complete and accurate information

APPENDIX G

- Employee protection
- Deliberate misconduct

Practical Explanation of the Theory and Operation for Each Gauge Possessed by the Licensee:

- Operating and emergency procedures
- Routine vs. non-Routine maintenance
- Lock-out procedures

On-the-job training must be done under the supervision of an AU or RSO:

- Supervised Hands-on Experience Performing:
 - Operating procedures
 - Test runs of emergency procedures
 - Routine maintenance
 - Lock-out procedures

Training Assessment

Management will ensure that proposed AUs are qualified to work independently with each type of gauge with which they may work. Management will ensure that proposed RSO's are qualified to work independently with and are knowledgeable of the radiation safety aspects of all types of gauges to be possessed by the applicant. This may be demonstrated by written or oral examination or by observation.

Course Instructor Qualifications

Instructor should have:

- Bachelor's degree in a physical or life science or engineering
- Successful completion of a fixed gauge manufacturer's or distributor's course for users (or equivalent)
- Successful completion of an 8 hour radiation safety course; and
- 8 hours hands-on experience with fixed gauges

OR

- Successful completion of a fixed gauge manufacturer's or distributor's course for users (or equivalent)
- Successful completion of 40 hour radiation safety course; and
- 30 hours of hands-on experience with fixed gauges.

OR

• The applicant may submit a description of alternative training and experience for the course instructor.

Note: Additional training is required for those applicants intending to perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service. See Appendix N - "Non-Routine Operations."