NRC FORM 313 (3-2009) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120 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:

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
- [x] B. AMENDMENT TO LICENSE NUMBER 21-32549-01
- [ ] C. RENEWAL OF LICENSE NUMBER

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

Diana Krikke, Radiation Safety Officer
URS Corporation
3950 Sparks Drive SE
Grand Rapids MI 49546

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Various locations in Michigan

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Diana Krikke

TELEPHONE NUMBER

616-574-8474

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 CONTANED 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
Diana Krikke, Radiation Safety Officer	Diana Krikke	7/7/11

FOR NRC USE ONLY

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

NRC FORM 313 (3-2009)

PRINTED ON RECYCLED PAPER

RECEIVED JUL 12 2011

07/07/2011
URS Corporation Application for Amendment to Material License #21-32549-01

1. On NRC form 313

2. On NRC form 313

3. On NRC form 313

4. On NRC form 313

5. **Radioactive Material**

    a. Element and mass number: Cesium-137, Americium-241

    b. Chemical and/or physical form: Sealed sources (Troxler Drawing #A-102112 and A 102451)

    c. Maximum amount which will be possessed at any one time: No single source to exceed 9 mCi (Cs-137) and 44 mCi (Am-241).

6. **Purpose for which licensed material will be used**: To be used in Troxler 3400 series gauge for measurement of physical properties of materials.

7. **Individual responsible for radiation safety program and their training experience**: Diana J. Krikke has successfully completed Troxler's Nuclear Gauge Safety Training Class and Troxler's Radiation Safety Officer Training Class.

PLEASE NOTE: the Radiation Safety Officer's name has changed from Diana J. Romero to Diana J. Krikke. The purpose of this amendment is to request that the RSO's name change be reflected on the materials license.

8. **Training for individuals working in or frequenting restricted areas**: before an employee of URS is permitted to use the nuclear density gauge the individual will have successfully completed the Troxler safety training course, received copies of, and been trained in URS's gauge operating and emergency procedures, and been designated as an authorized user by the RSO.

9. **Facilities and Equipment**: The gauge will be chained to the wall inside a locked storage room to prevent access by unauthorized persons.

10. **Radiation Safety Program**:

    a. **Personnel Monitoring**: All authorized gauge users are provided with a Thermo luminescent Dosimeter Badge to measure radiation exposure when using or transporting gauges. The badges will be provided by Troxler Electronic Laboratories, 300 Cornwallis Road, Research Triangle Park, NC 27709 and will be exchanged every three months.

    b. **Sealed Source Leak Testing**: Leak tests will be performed at intervals not to exceed 6 months in accordance with kit supplier's instructions. Leak test

samples will be analyzed by Troxler Electronic Laboratories, Inc (North Carolina License number 031-0182-1)

c. **Material Receipt and Accountability**: Record of receipt, transfer, and disposal of gauge will be maintained for at least three years. Physical inventory of sealed sources will be conducted every 6 months, and a gauge utilization log will be kept at the permanent storage place.

d. **Public Dose**: RSO will ensure that the gauge is used, transported and stored in such a way that no member of the public receives more than 100 mRem of radiation in one year. Licensee will ensure that the dose of radiation in unrestricted areas does not exceed 2 mRem in any one hour. Licensee will control and maintain constant surveillance over the gauge when it is not in storage, and secure gauge from unauthorized use or removal.

e. **Operating and Emergency Procedures**: All authorized personnel will be provided with URS's operating and emergency procedures which includes details about personnel monitoring, use of, storage of, and transportation of the gauge, leak testing, and emergency procedures.

f. **Maintenance**: We will implement and maintain procedures for routine maintenance (cleaning and lubrication) of our gauge according to the manufacturer's recommendations and instructions. We will send the gauge to the manufacturer to perform non-routine maintenance or repair operations that require removal of the source or source rod from the gauge.

g. **Transportation**: RSO will ensure that gauge will be transported in compliance with DOT regulations.

h. **Audit Program**: RSO will review the content and implementation of our radiation safety program annually to ensure we are in compliance with applicable NRC, state and DOT regulations and the terms and conditions of the license; to ensure doses to workers and members of general public are in compliance with ALARA. Records of audits will be maintained for at least 3 years. Corrective actions will be taken promptly to prevent recurrence of deficiencies.

11. **Waste Management**: In the event that URS desires to dispose of the nuclear density gauge we will contact Troxler Electronic Laboratories to enquire whether they are authorized to receive the gauge. In the event of an actual transfer, record of the transfer will be kept on file for at least three years.

12. **N/A**

13. On NRC form 313

URS

URS Corporation
3950 Sparks Drive, SE
Grand Rapids, MI 49546

01151700

07/07/2011

Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

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