

JUN 29 2011

LES-11-00089-NRC

Attn: Document Control Desk  
Office of Nuclear Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

Louisiana Energy Services, LLC  
NRC Docket No. 70-3103

Subject: Request for Amendment to Materials License SNM-2010 to Change  
License Conditions 6, 7, and 8 (LAR-11-08)

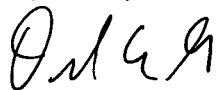
In accordance with 10 CFR 70.34 URENCO USA (UUSA) herewith requests an amendment to Materials License SNM-2010 to incorporate the changes proposed herein to License Conditions 6, 7 and 8 (Enclosure 1).

The changes proposed to the above License Conditions reflect the planned addition of one or more sealed Eu-152 sources to the UUSA Facility's isotope inventory. These sources will be used as (gamma) transmission sources to determine the density of material in waste drums (for uniformity); and to locate large non-homogeneous items in the drums.

Enclosure 1 summarizes the background, proposed change, and basis for change; and Enclosure 2 includes the completed NRC Form 313 (Application for Materials License).

Should there be any questions regarding this submittal, please contact Wyatt Padgett UUSA Licensing Manager, at 575.394.5257.

Respectfully,



David E. Sexton  
Chief Nuclear Officer and Vice President of Operations

Enclosures: 1) Background, Proposed Change, Basis for Change  
2) NRC Form 313 (Application for Materials License)

cc:

Tyrone D. Naquin, Project Manager  
Two White Flint  
Mail Stop EBB2-C40M  
11545 Rockville Pike  
Rockville, MD 20852-2738

Joselito O. Calle  
Branch Chief, Fuel Facility Branch 2  
USNRC, Region II  
245 Peachtree Center Ave, NE  
Suite 1200  
Atlanta, GA 30303-1257

## ENCLOSURE 1

### BACKGROUND, PROPOSED CHANGE, BASIS FOR CHANGE

#### **Background**

URENCO USA (UUSA) has determined that the list of isotopes identified in Conditions 6, 7 and 8 of Materials License SNM-2010 does not fully support its latest plans for onsite system calibration activities. Accordingly, UUSA needs for the above License Conditions to be changed as described below.

#### **Proposed Change**

The change proposed to the above License Conditions (LAR-11-08) entails supplementing the existing UUSA Facility source inventory with sealed Eu-152 standards with a total activity not to exceed 25 mCi.

Specifically, and in accordance with the provisions of 10 CFR 30.32 and 10 CFR 70.34, UUSA proposes the changes to Conditions 6, 7 and 8 of Materials License SNM-2010 that are identified in Table 1-1 below:

**Table 1-1 – Proposed Changes to Conditions 6, 7 and 8 of Materials License SNM-2010**

Current License Conditions			Changes Proposed
Condition 6: Source and/or Special Nuclear Material and/or Byproduct Material	Condition 7: Chemical and/or Physical Form	Condition 8: Maximum Amount Licensee may possess at any one time under this license	
N/A	N/A	N/A	Add Conditions: 6.QQ: "Eu-152" 7.QQ: "Sealed per §30.32(g)(1)" 8.QQ: "2.5E+4 $\mu$ Ci"

#### **Basis for Change**

The Eu-152 sources being proposed for addition to the license will be used as (gamma) transmission sources to determine the density of material in waste drums (for uniformity); and to locate large non-homogeneous items in the drums.

#### **Safety Significance**

Radioactive byproduct material sources that are not exempt are controlled in accordance with UUSA facility Radiation Protection procedures which require controlled storage, use, and proper posting and labeling in accordance with 10 CFR 20. These procedures

also contain requirements for handling and tracking when sources are removed from storage for use.

The Eu-152 source(s) will be removed from a Radiation Protection locked and properly posted storage location and used in the concrete bunkered Solid Waste Collection Room where the waste drum gamma assay system will be operated. During use the source will be maintained in a properly posted area. As the nominal activity of any one Eu-152 source will not exceed 15 mCi, no high radiation areas will be created and any radiation exposure incurred should only be to the source handler(s).

Based on the above, the safety significance of possessing licensed material consisting of the sealed Eu-152 sources is considered to be minor.

### **Environmental Considerations**

There are no significant environmental impacts associated with the changes proposed in this License Amendment Request (LAR-11-08). The proposed changes do not meet the criteria specified in 10 CFR 51.60(b) (2) since they do not involve a significant expansion of the site, a significant change in the types of effluents, a significant increase in the amounts of effluents, a significant increase in individual or cumulative occupational radiation exposure, or a significant increase in the potential for or consequences from radiological accidents. Consequently, a separate supplement to the Environmental Report is not being submitted.

### **Summary and Conclusions**

#### **Summary**

In order to conduct gamma transmission measurements to determine the density of material in waste drums (for uniformity); and to locate large non-homogeneous items in the drums, LES is requesting an amendment to Materials License SNM-2010 (via changes to Conditions 6, 7, and 8) to add sealed sources of Eu-152.

#### **Conclusions**

The above changes comply with the regulatory provisions of 10 CFR 30.32 (Application for specific licenses) and 10 CFR 70.34 (Amendment of licenses).

**ENCLOSURE 2**

**NRC FORM 313 (APPLICATION FOR MATERIALS LICENSE)**

**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**

**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 19408-1415

**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  
812 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 SNM-2010
- ☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

Louisiana Energy Services, LLC (LES)  
275 Hwy 176  
Eunice, NM 88321

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

URENCO USA Facility, Located 5 Miles East of Eunice,  
New Mexico, on Highway 176 in Lea County, New Mexico

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Ross Albright, Radiation Protection Manager

TELEPHONE NUMBER

(575) 394-6608

**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**

Ross Albright, Radiation Protection Manager

**SIGNATURE**

*Ross Albright*

**DATE**

6-27-11

**FOR NRC USE ONLY**

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

DATE

**Entries 5 through 11 to NRC Form 313****Item 5: Radioactive Material:**

<b>Source and/or Special Nuclear Material and/or Byproduct Material</b>	<b>Chemical and/or Physical Form</b>	<b>Maximum amount that Licensee may possess at any one time under this license</b>
Eu-152	Sealed per §30.32(g)(1)	2.5E+4 $\mu$ Ci

**Item 6: Purposes for which Licensed Material will be used:**

Licensed material will be used as a (gamma) transmission source to determine the density of material in waste drums (for uniformity); and to locate large non-homogeneous items in the drums.

**Item 7: Individual(s) responsible for Radiation Safety Program and their training experience:**

Pursuant to Section 2.2.4. of the Safety Analysis Report (SAR), in accordance with Condition 10 of License SNM-2010, the current Radiation Protection Manager (RPM) shall have, as a minimum, a bachelor's degree (or equivalent) in an engineering or scientific field and three years of responsible nuclear experience associated with implementation of a Radiation Protection program. The RPM's training experience includes Consolidated General Employee Training and Nuclear Safety Worker Classroom Training.

**Item 8: Training for individuals working in or frequenting restricted areas:**

Individuals working in radiologically restricted areas are required to complete radiation worker training. Special situations may include individuals escorted by trained radiation workers.

**Item 9: Facilities and Equipment:**

Radioactive byproduct source materials are controlled via procedures which require controlled storage, use and proper posting and labeling.

**Item 10: Radiation Safety Program:**

The Radiation Protection Program is conducted in accordance with Chapter 4 of the SAR.

**Item 11: Waste Management**

Radioactive sources, when no longer needed, will be disposed of through UUSA waste handling procedures, and in compliance with the Waste Acceptance Criteria (WAC) of the contracted Low Level Waste burial site.