



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 23, 2022

Wyatt Padgett  
Licensing and Performance  
Assessment Manager  
Louisiana Energy Services, LLC  
PO Box 1789  
Eunice, NM 88231

SUBJECT: LOUISIANA ENERGY SERVICES – AMENDMENT 95, APPROVAL OF  
LICENSE AMENDMENT REQUEST FOR REVISION TO URENCO USA (UUSA)  
MCNP6 VALIDATION REPORT TO SUPPORT ENRICHMENTS UP TO 10  
WEIGHT PERCENT URANIUM-235 (LAR 21-03) (ENTERPRISE PROJECT  
IDENTIFICATION NUMBER L-2021-LLA-0238)

Dear Wyatt Padgett:

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the letter from Louisiana Energy Services, LLC (LES) doing business as URENCO USA, LLC dated December 10, 2021 and April 27, 2022 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML21349A142 and ML ML22122A059), requesting approval of a revision to the existing UUSA MCNP6 Validation Report and an amendment to the UUSA Safety Analysis Report. The NRC staff also reviewed your responses to requests for additional information (RAIs) dated March 11, 2022 (Accession No. ML22074A022).

Based on the review, the NRC staff concludes that the UUSA MCNP6 Validation Report for use of up to 10 weight percent uranium (U) – 235 is acceptable and that LES provides reasonable assurance of subcriticality under normal and all credible abnormal conditions, provides reasonable assurance of adequate protection against the risk of criticality accidents, and otherwise satisfies the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 70, "Domestic Licensing of Special Nuclear Material." This report does not provide any conclusions regarding the physical possession and/or processing of special nuclear material in excess of current possession limits. Therefore, the amendment request is approved. The dates of the revised Safety Analysis Report (December 10, 2021 and April 27, 2022) have been added to Materials License SNM-2010 Section 1.0, sub-section 10(b).

The review by the NRC staff is documented in the safety evaluation report, which is provided as Enclosure 1 to this letter. Enclosures 2 and 3 to this letter provide publicly available and non-publicly available versions of the amended license, respectively.

This letter concludes action on this submittal and Enterprise Project Identifier L-2021-LLA-0238 is closed.

Enclosures 1 and 3 transmitted by this letter contain **Security-Related Information**. When separated from Enclosures 1 and 3, this letter and Enclosure 2 are decontrolled.

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W. Padgett

2

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter and Enclosure 2 will be available electronically for public inspection in the NRC Public Document Room (PDR) and in ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>. The PDR is open by appointment only.

You may submit your request to the PDR via e-mail at [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov) or call 1-800-397-4209 between 8:00 a.m. and 4:00 p.m. (EST), Monday through Friday, except Federal holidays.

If you have any questions regarding this matter, please contact Jonathan Rowley by telephone at 301-415-4053 or via e-mail to [jonathan.rowley@nrc.gov](mailto:jonathan.rowley@nrc.gov) or Matthew Bartlett by telephone at 301-415-7154, or via e-mail to [matthew.bartlett@nrc.gov](mailto:matthew.bartlett@nrc.gov).

Sincerely,

Jacob I. Zimmerman, Chief  
Fuel Facility Licensing Branch  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 07003103  
License No. SNM-2010

Enclosures:

1. Safety Evaluation Report (Non-public)
2. Amendment 95 (Public)
3. Amendment 95 (Non-public)

cc: [les@listmgr.nrc.gov](mailto:les@listmgr.nrc.gov)

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3

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DOCUMENT DATE: May 23, 2022

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