



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

July 31, 2025

Paul Lorskulsint, Chief Nuclear Officer
and Head of Compliance
Louisiana Energy Services, LLC
P.O. Box 1789
Eunice, NM 88231

SUBJECT: LOUISIANA ENERGY SERVICES, LLC, – AMENDMENT 110, APPROVAL OF
URENCO USA LICENSE AMENDMENT REQUEST TO RAISE ENRICHMENT
LIMIT TO THE LICENSED LIMIT FOR LOW-ENRICHED URANIUM PLUS
RECYCLING AND SUPPORT SYSTEMS (LAR 24-01) (ENTERPRISE
PROJECT IDENTIFIER L-2024-LLA-0120)

Dear Paul Lorskulsint:

By letter dated August 29, 2024 (Agencywide Documents Access and Management System Accession No. ML24242A197), Louisiana Energy Services, LLC, dba Urenco USA (UUSA), requested the U.S. Nuclear Regulatory Commission (NRC) approval of a license amendment request (LAR) to its special nuclear materials (SNM) license (SNM-2010). In a previous UUSA LAR (LAR 23-02), UUSA requested and was granted approval to increase the enrichment level for production systems from 5.5 weight percent Uranium-235 (U-235) to less than 10.0 weight percent U-235. The increase of the enrichment limit from 5.5 weight percent to less than 10.0 weight percent U-235 is termed low-enriched uranium plus (LEU+) by UUSA. LAR 23-02 also included interim control measures for segregation and storage of LEU+ exposed components removed from the production systems. LAR 24-01 proposes to allow UUSA to apply the LEU+ enrichment limit to the on-site recycling and support systems and to remove the interim controls established for segregation and storage of LEU+ exposed components removed from production systems.

The details associated with the NRC staff review are documented in the Safety Evaluation Report (Enclosure 1). The portion of Amendment 110 to UUSA Materials License SNM-2010 that states the sensitive conditions is contained in Enclosure 2 (non-public). The portion of Amendment 110 to UUSA Materials License SNM-2010 that states the non-sensitive license conditions is contained in Enclosure 3 (public). Amendment 110 to Materials License SNM-2010 is effective immediately.

Based on the review of the submittal and responses to the requests for additional information (ML25161A266), the NRC staff grants this LAR to apply the increased enrichment limit in

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

materials license number SNM-2010, License Condition 6B, of less than 10.0 weight percent U-235 to the on-site recycling and support systems and to remove the interim controls established for segregation and storage of LEU+ exposed components removed from production systems. Enterprise Project Identification number L-2024-LLA-0120 is considered closed.

Materials license number SNM-2010 will be amended to modify the Constraints for License Conditions 6B and 6B.1 and License Condition 42 to add the underlined sentences as follows:

Constraints for License Conditions 6B and 6B.1

URENCO USA facility (UUSA) shall not input parameters into the plant control system (PCS) to produce material for the assay above 5.0 wt. percent limit until the U.S. Nuclear Regulatory Commission (NRC) has completed an operational readiness review (ORR) to verify the necessary changes have been implemented and the facility will be operated safely and in accordance with the requirements of the license. UUSA shall notify the NRC for scheduling the ORR at least 60 days prior to the planned production. UUSA shall not use the installed recycling and support systems or remove the interim controls for segregation of components exposed to uranium enriched to less than 10 wt. percent U-235 removed from production systems until the NRC has completed a readiness review to verify the necessary changes have been implemented and the facility will be operated safely and in accordance with the requirements of the license. UUSA shall notify NRC for scheduling the readiness review at least 60 days prior to the planned use of the recycling and support systems and the removal of the interim controls for segregation. UUSA shall not produce product material at or above 10 wt. percent U-235 other than in the course of cascade performance adjustments, thus providing the operational flexibility to generate material to satisfactorily fulfill customer orders up to the less than 10 wt. percent U-235 limit. UUSA shall not at any time input parameters into the PCS to produce material for the assay at or above 10 wt. percent U-235.

42. With the exception of the Gaseous Effluent Vent System, there shall be no processing of U-235 enriched to less than 10 wt. percent or components exposed to U-235 enriched to less than 10 wt. percent in any installed recycling systems or support systems, including the Ventilated Room, Decontamination Workshop, Liquid Effluent Collection and Transfer System Room, or Solid Waste Collection Room, until the NRC has completed a readiness review to verify the necessary changes have been implemented and the facility will be operated safely and in accordance with the requirements of the license. Systems and components that have been exposed to U-235 enriched to less than 10 wt. percent shall be segregated from systems and components that have not been exposed to U-235 enriched to less than 10 wt. percent until the NRC has completed the readiness review.

In accordance with Title 10 of the *Code of Federal Regulations* Part 2, "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room (PDR) or from the Publicly Available Records component of the NRC's ADAMS. The ADAMS database is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html>. The PDR is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

P. Lorskulsint

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If you have any questions concerning this matter, please contact me or Jonathan Rowley by telephone at 301-415-4053 or via email at jonathan.rowley@nrc.gov.

Sincerely,



Signed by Lav, Samantha
on 07/31/25

Samantha C. Lav, Chief
Fuel Facility Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 70-3103
License No. SNM-2010

Enclosures:

1. Safety Evaluation Report (Public)
2. Amended License (Non-public)
3. Amended License (Public)

cc: les@listmgr.nrc.gov

P. Lorskulsint

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SUBJECT: LOUISIANA ENERGY SERVICES, LLC, – AMENDMENT 110, APPROVAL OF URENCO USA LICENSE AMENDMENT REQUEST TO RAISE ENRICHMENT LIMIT TO THE LICENSED LIMIT FOR LOW-ENRICHED URANIUM PLUS RECYCLING AND SUPPORT SYSTEMS (LAR 24-01) (ENTERPRISE PROJECT IDENTIFIER L-2024-LLA-0120)

DATED: July 31, 2025

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JRowley, NMSS

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ADAMS Accession Nos.: ML25196A451 (Pkg); ML25196A452 (Ltr); ML25196A455 (SER), ML25196A454 (Amend public), ML25196A453 (Amend non-public)

OFFICE	NMSS/DFM/ FFLB/PM	NMSS/DFM/ FFLB/LA	NMSS/DFM/ NARAB/BC	NMSS/REFS/ ERMB/BC
NAME	JRowley	JGoodridge	DJohnson	RSun
DATE	07/16/2025	07/16/2025	7/29/2025	07/18/2025
OFFICE	NRR/DRO/ IOLB/BC	OGC	NMSS/DFM/ FFLB/BC	
NAME	JAnderson	BVaisey	SLav	
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