

April 17, 2014

Mr. Timothy Knowles
Licensing and Performance Assessment Manager
Louisiana Energy Services, LLC
P.O. Box 1789
Eunice, NM 88231

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE
REVIEW OF LOUISIANA ENERGY SERVICES SUPPLEMENTAL
LICENSE AMENDMENT REQUEST, DATED NOVEMBER 4, 2013

Dear Mr. Knowles:

Enclosed is the staff's Request for Additional Information from URENCO USA for the environmental review for the supplement to license amendment request, dated November 4, 2013, and received December 11, 2013, for the proposed expansion of the gas centrifuge uranium enrichment facility in Lea County, New Mexico.

We have evaluated your request and based on our review, we have several questions that are detailed in the enclosure to this letter. We request that you provide a response within 30 days of this letter.

If you have any questions, please contact Mr. Michael Raddatz at 301-287-9124 or via e-mail at Michael.Raddatz@nrc.gov.

Sincerely,

/RA/

Thomas Grice, Acting Chief
Uranium Enrichment Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Enclosure:
Request for Additional Information

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

Mr. Timothy Knowles
Licensing and Performance Assessment Manager
Louisiana Energy Services, LLC
P.O. Box 1789
Eunice, NM 88231

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We have evaluated your request and based on our review, we have several questions that are detailed in the enclosure to this letter. We request that you provide a response within 30 days of this letter.

If you have any questions, please contact Mr. Michael Raddatz at 301-492-3108 or via e-mail at Michael.Raddatz@nrc.gov.

Sincerely,

/RA/

Thomas Grice, Acting Chief
Uranium Enrichment Branch
Division of Fuel Cycle Safety
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Office of Nuclear Material Safety
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Enclosure:
Request for Additional Information

Docket No. 70-3103
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ADAMS Accession No. ML14106A441

OFFICE	UEB	FMB	UEB
NAME	MRaddatz	Program Assistant	TGrice
DATE	4/16/14	4/17/14	4/17/14

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**REQUEST FOR ADDITIONAL INFORMATION FROM URENCO USA
FOR THE ENVIRONMENTAL REVIEW OF THE SUPPLEMENT TO LICENSE AMENDMENT
FOR THE PROPOSED EXPANSION OF THE GAS CENTRIFUGE URANIUM ENRICHMENT
FACILITY
IN LEA COUNTY, NEW MEXICO**

This is with regard to the Supplement to License Amendment Request for Capacity Expansion of URENCO USA (UUSA) Facility, dated November 4, 2013, and received December 11, 2013, (UUSA, 2014).

1. The amendment does not identify the origin and the destination sites for the uranium shipments. Identify the potential origin and destination sites for the uranium shipments, including but not limited to other URENCO facilities. Update the Supplemental Environmental Report (ER) (UUSA, 2013) accordingly.
2. The amendment does not provide an estimated number of enriched uranium shipments from other origins to UUSA and destination sites from UUSA. Specify the number of anticipated yearly shipments to and from each of the origin and destination sites, including the average number of 30B cylinders per shipment. Update the Supplemental ER (UUSA, 2013) accordingly.
3. Provide the potential maximum number of additional 30B product cylinders to be stored on-site at any one time and their intended storage configuration (i.e., location in the Cylinder Receipt and Distribution Building (CRDB) and/or on the Uranium Byproduct Cylinder (UBC) pad, arrangement of the 48Y and 30B cylinders within the storage areas, and configuration on how the 30B cylinders would be stacked) because storage of the 30B product cylinders could cause higher external exposures to individuals in their vicinity than 48Y cylinders with either natural uranium hexafluoride (UF₆) or depleted UF₆. Include an explanation of how the "Current occupational health analyses for storage of 48Y cylinders in the CRDBs and on the UBC pad are bounding for storage of 30B cylinders in the same areas." (quote from last sentence of Section 4.2). Update the Supplemental ER (UUSA, 2013) accordingly.
4. Provide the expected incremental increase in average annual worker doses due to the performance of the gamma spectrometer and mass spectrometer examinations for the items relied on for safety (IROFS) of IROFS53a and IROFS53b.

References:

(UUSA, 2014) REDACTED-Supplement to License Amendment Request for Capacity Expansion of URENCO USA Facility (LAR-12-10), November 4, 2014.

(UUSA, 2013) URENCO, "Supplemental Environmental Report for Facility Expansion Request," Revision 4d, November 2013.

Enclosure