

August 17, 2009

Mr. Stephen Cowne, Director
Quality and Regulatory Affairs
Louisiana Energy Services, L.L.C.
P.O. Box 1789
Eunice, NM 88231

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR LICENSE AMENDMENT
REQUEST FOR THE NATIONAL ENRICHMENT FACILITY TO CHANGE THE
APPLICABILITY OF ITEMS RELIED ON FOR SAFETY RELATED TO UF6
CYLINDERS FOR PREVENTIVE FIRE SAFETY (LAR-09-13) (TAC NO. L32838)

Dear Mr. Cowne:

We have reviewed your licensing amendment request transmitted by letter dated May 05, 2009, additional information is needed before final action can be taken on your submittal. We are enclosing requests for additional information and request that you provide response within 30 days of this letter.

If you have any questions, please contact me at (301) 492-3187, or via e-mail at Tyrone.Naquin@nrc.gov.

Sincerely,

/RA/

Tyrone D. Naquin, Project Manager
Uranium Enrichment Branch
Fuel Facility Licensing Directorate
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Enclosure: As stated

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

cc: Mr. Gregory Smith
Louisiana Energy Services
P.O. Box 1789
Eunice, NM 88231

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OFC	UEB	UEB	UEB	UEB
NAME	TNaquin	THristopoulos	RWescott	BSmith
DATE	8/06/2009	8/ 11 /2009	8/17/2009	8/17/2009

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REQUEST FOR ADDITIONAL INFORMATION
TO CHANGE THE APPLICABILITY OF ITEMS RELIED ON
FOR SAFETY RELATED TO URANIUM HEXAFLUORIDE CYLINDERS
FOR PREVENTIVE FIRE SAFETY (LAR-09-13)

1. Enclosure 1, Section 3.1.2, Page 10

In regard to the proposed elimination of item relied on for safety (IROFS) 36B and the presently required offset of 1 meter, provide information showing the location of the cylinders relative to the fire and the geometry of the truck bay as it confines the extent and location of the fire. Also provide details of the calculation of radiant energy transfer from the fire to the cylinders and the thermodynamic/heat transfer used to determine the maximum surface temperature of a 30B cylinder and 48X cylinder.

Title 10 of the *Code of Federal Regulations* (10 CFR) 70.65 (b)(4) requires the Integrated Safety Analysis (ISA) summary to contain information that demonstrates the licensee's compliance with the performance requirements of 10 CFR 70.61. Also, 10 CFR 70.62(c) (1)(iv) requires that the ISA identify potential accident sequences caused by process deviations or other events internal to the facility.

2. Enclosure 1, Section 3.1.2, page 11

Provide calculations that justify transport of a 30B cylinder without a protective overpack on a diesel powered transporter containing up to 74 gallons of diesel fuel. Provide the assumed pool fire diameter, duration of fire, and heat transfer/failure criteria for a 30B cylinder.

In regard to the proposed modification of IROFS 36c, which will allow transport of 30B cylinders without an overpack, it was the understanding of the staff that filled 30B cylinders would be protected by a Department of Transportation approved overpack when being transported by a diesel powered transporter, including those with less than 74 gallons of diesel fuel. Staff position for this is based on the calculation confirming the adequacy of the 74 gallon limit performed for a 48 X cylinder (and extended to a 48Y cylinder based on heat transfer considerations). The staff's calculation may be accessed on the Agencywide Documents Access and Management System at ML050810267. It was not considered applicable to a 30B cylinder (smaller diameter fire to engulf the cylinder and longer fire duration).

10 CFR 70.65 (b)(4) requires the ISA summary to contain information that demonstrates the licensee's compliance with the performance requirements of 10 CFR 70.61. Also, 10 CFR 70.62(c)(1)(iv) requires that the ISA identify potential accident sequences caused by process deviations or other events internal to the facility.