



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

December 21, 2011

Gary J. Laughlin, Chief Nuclear Officer  
and Head of Technical Services  
Louisiana Energy Services, National Enrichment Facility, L.L.C.  
P.O. Box 1789  
Eunice, NM 88231

SUBJECT: LOUISIANA ENERGY SERVICES, L.L.C., URENCO USA FACILITY, DOCKET  
NO. 70-3103, AUTHORIZATION TO INTRODUCE URANIUM HEXAFLUORIDE  
INTO CASCADE 6

Dear Mr. Laughlin:

This letter confirms our discussion on December 20, 2011, during which you were informed that the NRC has authorized the introduction of uranium hexafluoride into Cascade 6 at the Louisiana Energy Services (LES), URENCO USA Facility located in Eunice, New Mexico. This authorization is pursuant to the provisions of Part 70, Paragraph 70.32(k) and 10 CFR 40.41 (g) of Title 10 of the *Code of Federal Regulations* (CFR) that states, "No person may commence operation of a uranium enrichment facility until the Commission verifies through inspection that the facility has been constructed in accordance with the requirements of the license."

This NRC authorization is based on the results of construction and quality assurance inspections of Cascade 6 described in the inspection reports listed in the enclosure. The NRC staff determined that the systems, structures, and components designed to support safe operation of Cascade 6 were constructed in accordance with the requirements of your license. Specifically, our inspections provided: (1) reasonable assurance that the design, construction, and implementation of items relied on for safety (IROFS) will protect against natural phenomena and the consequences of potential accidents, (2) verification that the Quality Assurance Program was adequately implemented during construction; and (3) verification that the construction of the IROFS was completed in accordance with the documents comprising the license and the Integrated Safety Analysis.

During our inspections, the NRC staff reviewed and inspected procurement, receipt inspections, installation and testing of the Cascade 6 centrifuge header piping, upper and lower steelworks and flomels for compliance to Quality Level 1 requirements. The staff also conducted interviews with LES staff and contractor personnel including employees in operations, technical support and management. The publically available inspection reports that describe the construction and quality assurance inspections of Cascade 6 are accessible through the NRC's public electronic reading room, Agency-wide Document Access and Management System (ADAMS) at <http://www.nrc.gov/reading-rm/adams.htm> at the accession numbers listed in the enclosure.

Please note that this authorization does not apply to any cascades other than Cascade 6, and it does not apply to processes or components associated with future phases of facility operations.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," this document may be accessed through ADAMS on the internet at [www.nrc.gov/reading-rm/adams.htm](http://www.nrc.gov/reading-rm/adams.htm).

Should you have any questions concerning this letter, please contact Mr. Joselito Calle at (404) 997-4418.

Sincerely,

***/RA/***

Anthony T. Gody, Director  
Division of Fuel Facility Inspection

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

Enclosure: List of Cascade 6 Inspection Reports

cc w/encl:  
Perry Robinson, Vice President Regulatory  
Affairs and General Counsel  
National Enrichment Facility  
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Eunice, NM 88231

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1100 West 49th Street  
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cc w/encl: (Cont'd on page 3)

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555 13th Street, NW  
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Radiation Program Officer  
Bureau of Radiation Control  
Department of State Health Services  
Division for Regulatory Services  
1100 West 49th Street  
Austin, TX 78756-3189

cc w/encl: (Cont'd on page 3)

PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE  
ADAMS: X Yes      ACCESSION NUMBER: \_ML11355A147      X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

OFFICE	RII:DFFI	RII:DFFI	NMSS	CCI			
SIGNATURE	JCalle for	/RA/	Via email	JYerokun for			
NAME	CTaylor/DHartland	JCalle*	JKinneman*	COgle*			
DATE	12/21/11	12/21/11	12/20/11	12/21/11	12/ /2011	12/ /2011	12/ /2011
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

(cc w/encl: cont'd)  
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Jal, NM 88252

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Brenda Brooks, Director  
Community Affairs and Government Relations  
Louisiana Energy Services, L.L.C.  
Electronic Mail Distribution

Letter to Gary J. Laughlin from Anthony T. Gody dated December 21, 2011

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NO. 70-3103, AUTHORIZATION TO INTRODUCE URANIUM HEXAFLUORIDE  
INTO CASCADE 6

Distribution w/encl:

J. Kinneman, NMSS

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J. Calle, RII

C. Taylor, RII

PUBLIC

**Construction and Quality Assurance Inspection Reports for Cascade 6**

<b>Inspection Report Number</b>	<b>ADAMS Accession Number</b>
2010-007	ML11353A102
2011-009	ML11342A131
2011-013	Pending