

June 9, 2004

NEF#04-023

ATTN: Document Control Desk  
Director  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Louisiana Energy Services, L. P.  
National Enrichment Facility  
NRC Docket No. 70-3103

Subject: External Hazards Information

- References:
1. Letter NEF#03-003 dated December 12, 2003, from E. J. Ferland (Louisiana Energy Services, L. P.) to Directors, Office of Nuclear Material Safety and Safeguards and the Division of Facilities and Security (NRC) regarding "Applications for a Material License Under 10 CFR 70, Domestic licensing of special nuclear material, 10 CFR 40, Domestic licensing of source material, and 10 CFR 30, Rules of general applicability to domestic licensing of byproduct material, and for a Facility Clearance Under 10 CFR 95, Facility security clearance and safeguarding of national security information and restricted data"
  2. Letter NEF#04-002 dated February 27, 2004, from R. M. Krich (Louisiana Energy Services, L. P.) to Director, Office of Nuclear Material Safety and Safeguards (NRC) regarding "Revision 1 to Applications for a Material License Under 10 CFR 70, "Domestic licensing of special nuclear material," 10 CFR 40, "Domestic licensing of source material," and 10 CFR 30, "Rules of general applicability to domestic licensing of byproduct material"

By letter dated December 12, 2003 (Reference 1), E. J. Ferland of Louisiana Energy Services (LES), L. P., submitted to the NRC applications for the licenses necessary to authorize construction and operation of a gas centrifuge uranium enrichment facility. Revision 1 to these applications was submitted to the NRC by letter dated February 27, 2004 (Reference 2). Chapter 3, "Integrated Safety Analysis Summary," was included as part of the applications in the National Enrichment Facility (NEF) Safety Analysis Report (SAR). SAR Chapter 3 includes discussions of external hazards for the NEF.

During the May 27 and 28, 2004, in-office review of LES external hazards calculations in the LES office in Hobbs, New Mexico, the U.S. Nuclear Regulatory Commission representative requested that certain external hazards information be provided. The requested information is provided in Attachments 1 through 6 to this letter.

NM5501

Attachment 1 provides calculation 32-2400569-00, "Aircraft Hazard Risk Determination."

Attachment 2 provides calculation 32-2400572-02, "Natural Gas Pipeline Hazard Risk Determination."

Attachment 3 provides calculation 32-2400573-00, "Highway Propane Explosion Hazard Risk Determination."

Attachment 4 provides the first 7 pages, including the cover page, of calculation 51-2400547-00, "Assessment of Winter Precipitation Loads at NEF for ISA and Design Basis."

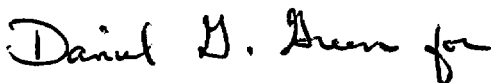
Attachment 5 provides the cover page and Attachment 2 of calculation 51-2400548-00, "Assessment of Tornado, Tornado Missiles and High Wind Loads at NEF for ISA and Design Basis."

Attachment 6 provides calculation 51-2400552-01, "Assessment of Other External Event Hazards at NEF for ISA and Design Basis."

The versions of the "Natural Gas Pipeline Hazard Risk Determination" and the "Assessment of Other External Event Hazards at NEF for the ISA and Design Basis" calculations that were provided during the in-office review were inadvertently Revision 0 versions rather than the latest versions. The latest versions of these calculations are provided in this submittal. The latest version of the "Natural Gas Pipeline Hazard Risk Determination" calculation is Revision 2. Revision 2 of this calculation includes more recent incident data that resulted in a small increase in the overall hazard probability. It also includes several administrative changes. The latest version of the "Assessment of Other External Event Hazards at NEF for the ISA and Design Basis" calculation is Revision 1. Revision 1 of this calculation includes several administrative changes that do not affect the results. Further details of the changes associated with these revisions are provided within each of these calculations.

If you have any questions or need additional information, please contact me at 630-657-2813.

Respectfully,



R. M. Krich  
Vice President – Licensing, Safety, and Nuclear Engineering

Attachments:

1. Calculation 32-2400569-00, "Aircraft Hazard Risk Determination"
2. Calculation 32-2400572-02, "Natural Gas Pipeline Hazard Risk Determination"
3. Calculation 32-2400573-00, "Highway Propane Explosion Hazard Risk Determination"
4. Calculation 51-2400547-00, "Assessment of Winter Precipitation Loads at NEF for ISA and Design Basis" (first 7 pages, including cover page)
5. Calculation 51-2400548-00, "Assessment of Tornado, Tornado Missiles and High Wind Loads at NEF for ISA and Design Basis" (cover page and Attachment 2)
6. Calculation 51-2400552-01, "Assessment of Other External Event Hazards at NEF for ISA and Design Basis"

cc: T.C. Johnson, NRC Project Manager