

February 6, 2009

Mr. Dealis W. Gwyn, Licensing Manager
Shaw AREVA MOX Services
P.O. Box 7097
Aiken, SC 29804-7097

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING THE REVIEW OF
THE CRITICALITY SAFETY ASPECTS RELATED TO THE INTEGRATED
SAFETY ASSESSMENT SUMMARY FOR THE MIXED OXIDE FUEL
FABRICATION FACILITY LICENSE APPLICATION REQUEST

Dear Mr. Gwyn:

We have reviewed the criticality safety related information in your Integrated Safety Assessment Summary dated September 27, 2006, as revised on December 17, 2007. The submittal relates to a request for a license to possess and use special nuclear, source, and by-product material in the Mixed Oxide Fuel Fabrication Facility (MFFF). The MFFF, which is to be located on the Department of Energy's Savannah River site in Aiken, South Carolina, will process and fabricate mixed oxide fuel for use in commercial nuclear power plants as part of the plutonium disposition program.

We have enclosed a listing of additional information that is needed by the staff in order to complete the review of the criticality safety aspects of the MFFF. Please provide us with a summary document relating to how our questions were addressed and any other changes to other licensing documents that may have been necessary to incorporate the responses. The revisions should be provided within 90 days of the date of this letter.

In accordance with 10 CFR 2.390 of the U.S. Nuclear Regulatory Commission's (NRC) "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS).

ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

D. Gwyn

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If you have any questions, we would be happy to meet with you and other Shaw AREVA MOX Services staff on these issues. Please contact me at (301) 492-3229.

Sincerely,

/RA/

David Tiktinsky, Senior Project Manager
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Enclosures:

1. Requests for Additional Information (OUO-SRI)
2. Requests for Additional Information (Non-sensitive)

Docket: 70-3098

cc:	G. Smith, NNSA	A.J. Eggenberger, DNFSB
	J. Olencz, DOE	L. Zeller, BREDL
	S. Jenkins, SC Dept. Of HEC	G. Carroll, NWS
	D. Curran, Esq., NWS	D. Silverman, Esq.
	D. McIntyre, OPA	D. Gwyn, MOX Services

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	D. McIntyre, OPA	D. Gwyn, MOX Services

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