

April 13, 2016

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

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION EVALUATION OF "MIXED OXIDE PROJECT QUALITY ASSURANCE PLAN (MPQAP)," AMENDMENT NUMBER MPQAP-2015-0002, DATED MAY 11, 2015, AS REVISED, FOR THE MIXED OXIDE FUEL FABRICATION FACILITY

Dear Mr. Gwyn:

On May 11, 2015, CB&I AREVA MOX Services (MOX Services) submitted Amendment Number: MPQAP-2015-0002 of the MPQAP to the U.S. Nuclear Regulatory Commission (NRC) for review and approval in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Paragraph 70.23(b). In Amendment Number MPQAP-2015-0002, MOX Services proposed revising the MPQAP to, among other things, reduce the required documentation for commercial grade items from suppliers who receive independent accreditation from Underwriters Laboratory (UL) or Factory Mutual (FM). The revision was supplemented by a letter dated December 2, 2015.

As stated in the enclosed Safety Evaluation Report, the NRC staff has reviewed the changes requested by MOX Services in Amendment MPQAP-2015-0002 and supporting documentation and finds them not acceptable.

The NRC staff determined that the controls previously approved by NRC in Revision 11, Change 3, to the MPQAP are already graded for procurement of commercial grade items directly from suppliers based on independent accreditation from UL or FM. By reducing the documentation requirements further: (1) procurement documents would not continue to specify appropriate documentation requirements which are necessary to assure adequate quality of QL-1LR items and services; (2) MOX Services would not continue to document the applicable elements inherent to the commercial grade dedication process for the dedication of commercial grade items to be used as QL-1LR items; (3) the graded quality assurance program would not include review of all necessary supplier furnished documentation by MOX Services as part of bid/supplier selection and receipt inspection necessary for commercial grade dedication; and (4) auditable records for the dedication process would not be maintained.

In accordance with 10 CFR Section 2.390 of the NRC's "Agency Rules of Practice and Procedure," 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

2

If you have any questions, please contact me at (301) 415-8740, or via e-mail at:  
[David.Tiktinsky@nrc.gov](mailto:David.Tiktinsky@nrc.gov).

Sincerely,

***/RA/***

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

Docket No.: 70-3098

Enclosure:  
Safety Evaluation Report

cc: See next page

D. Gwyn

2

If you have any questions, please contact me at (301) 415-8740, or via e-mail at:  
[David.Tiktinsky@nrc.gov](mailto:David.Tiktinsky@nrc.gov).

Sincerely,

**/RA/**

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

Docket No.: 70-3098

Enclosure:  
Safety Evaluation Report

cc: See next page

**ADAMS Package Accession Number: ML16096A245**

<b>OFFICE</b>	FCSE/FMB	FCSE/ERB	FCSE	FCSE/PORBS	FCSE/FMB	FCSE/FMB
<b>NAME</b>	DTiktinsky	DMiller	TMatula	MKotzalas	RJohnson	DTiktinsky
<b>DATE</b>	4/7/2016	4/5/2016	4/7/2016	4/12/2016	4/12/2016	4/13/2016

**OFFICIAL RECORD COPY**

**D. Gwyn NRC MIXED OXIDE QUALITY ASSURANCE PLAN (MOQAP) 2015-0002**

cc:

Mr. Scott Cannon  
Federal Project Director  
NA-262.1  
P.O. Box A  
Aiken, SC 29802

Ms. Glenn Carroll  
Nuclear Watch South  
P.O. Box 8574  
Atlanta, GA 30306

Mr. Sam Glenn, Deputy  
Federal Project Director  
NA-262.1  
P.O. Box A  
Aiken, SC 29802

Mr. Lewis Zeller  
Blue Ridge Environmental Defense League  
P.O. Box 88  
Glendale Springs, NC 28629

Mr. Joseph Olencz, NNSA/HQ  
1000 Independence Ave., SW  
Washington, DC 20585

Ms. Joyce Connery, Chairman  
Defense Nuclear Facilities Safety Board  
625 Indiana Ave., NW, Suite 700  
Washington, DC 20004

Ms. Susan Jenkins  
Division of Radioactive Waste Management  
Bureau of Health and Environmental Control  
2600 Bull St.  
Columbia, SC 292011

Mr. Donald Silverman  
Morgan, Lewis, & Bockius  
1111 Penn. Ave., NW  
Washington, DC 20004

Ms. Diane Curran  
Harmon, Curran, Spielberg & Eisenberg, LLP  
1726 M St., NW  
Suite 600  
Washington, DC 20036