

November 3, 2014

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 ACCEPTANCE OF THE
SUMMARY OF CHANGES TO THE APPLICATION FOR THE MIXED OXIDE
FUEL FABRICATION FACILITY 2014 UPDATE

Dear Mr. Gwyn:

On January 27, 2014, CB&I AREVA MOX Services (MOX Services) submitted the following documents: (a) an updated license application (LA) for the Mixed Oxide Fuel Fabrication Facility (MFFF); (b) an updated Integrated Safety Analysis Summary (ISAS); and (c) a brief summary of changes to the LA and ISAS.

We have reviewed your summary of changes to the LA and ISAS. In addition, the staff performed an inspection of the change process during the week of June 23, 2014. The inspectors reviewed the summary list of changes and selected targeted samples from the summary list of facility changes which MOX Services determined did not require pre-approval in accordance with Title 10 of *the Code of Federal Regulations* (10 CFR) Part 70.72 (d)(2) and Chapter 16 of the LA. The targeted samples were selected based on a variety of engineering disciplines (including fluid mechanics, ventilation, piping, chemical safety, criticality safety, fire safety, emergency power, structure, load handling, electrical power, the sintering furnace, and digital instrumentation and controls) and considered the safety significance of the changes. The summary included changes to process safety information, the integrated safety analysis, and management measures. In addition, the summary included changes that potentially impacted the LA as discussed in revised LA Chapter 16.2.3.

The conclusions of the inspection, as documented in Inspection Report 70-3098/2014-002, dated August 5, 2014, stated that the change process, as outlined in Chapter 16 of the LA, was performed by the applicant in accordance with project procedures. Training provided to MOX Services' staff involved with the facility change process was adequate. The inspectors had reasonable assurance that the evaluations properly screened the changes to assure that the applicant's commitments related to the regulatory requirements of 10 CFR Part 70 were met. Additionally, the staff identified Unresolved Item (URI) 70-3098/2014-02-01, entitled "Review of Equivalency Evaluations for Changes to [National Fire Protection Association] NFPA 70-1999 Commitments." The URI relates to the need to evaluate changes to the LA that relate to commitments to NFPA-70, including either an equivalency analysis or a waiver request if an equivalency case cannot be demonstrated.

D. Gwyn

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Based on our review of your submittals and the inspection of the change process, we find that MOX Services was authorized to make the changes identified without prior U.S. Nuclear Regulatory Commission (NRC) approval pursuant to 10 CFR Part 70 for changes to the ISAS, and Chapter 16 of the LA (authorizations and exemptions) for changes to the LA. Additionally, URI 70-3098/2014-02-01 will be followed up with additional inspection activities and the results will be documented in a future inspection report.

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).

If you have any questions, please contact me at (301) 287-9155, or via e-mail to 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

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D. Gwyn

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If you have any questions, please contact me at (301) 287-9155, or via e-mail to David.Tiktinsky@nrc.gov.

Sincerely,

/RA/

David Tiktinsky, Senior Project Manager
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and Environmental Review
Office of Nuclear Material Safety
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Docket No.: 70-3098

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