



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001  
January 29, 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 RESPONSE TO MIXED OXIDE SERVICES REQUEST RELATED TO THE DEVELOPMENT OF TITLE 10 OF THE *CODE OF FEDERAL REGULATIONS* PARAGRAPH 70.23(a)(8) COMPLETION PROCESS**

Dear Mr. Gwyn:

On December 21, 2015, CB&I AREVA Mixed Oxide (MOX) Services submitted a document discussing its approach related to providing support to the staff's verification of Principal Structures, Systems and Components (PSSC) as required by Title 10 of the *Code of Federal Regulations* (10 CFR) Paragraph 70.23(a)(8). This verification is required prior to the issuance of a license to possess and use special nuclear material.

Your letter: a) described the process that will be used to provide timely support of the U.S. Nuclear Regulatory Commission (NRC) PSSC verification that will be documented in a update to the License Application; b) provided a crosswalk that correlates PSSCs with the Integrated Safety Analysis Summary Items Relied on for Safety; and c) committed to submit PSSC completion letters to the NRC to provide timely notification.

Additionally, the letter requested that NRC provide notification to MOX Services of PSSC completions that are accepted by the NRC.

We believe that MOX Services actions, as outlined in the letter, will help support the staff's ability to make the necessary findings related to PSSC verification as required in 10 CFR 70.23(a)(8). The staff will notify MOX Services upon its completion of its PSSC verification. Note that verification of individual PSSCs is dependent on MOX Services maintaining the "completion state" of the respective PSSC. The staff also plans on preparing a supplemental Safety Evaluation Report after it is completed verification of all PSSCs.

In accordance with 10 CFR 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

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If you have any questions, please contact me at (301) 415-8740, or via e-mail to [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

cc: See next page

D. Gwyn

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

Sincerely,

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

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