



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 12, 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 REVISION TO
THE "FUNDAMENTAL NUCLEAR MATERIAL CONTROL PLAN, DATED
JANUARY 29, 2015" FOR THE MIXED OXIDE FUEL FABRICATION FACILITY

Dear Mr. Gwyn:

On January 29, 2015, CB&I AREVA Mixed Oxide (MOX Services) submitted revisions to the Fundamental Nuclear Material Control Plan (FNMCP) for the Mixed Oxide Fuel Fabrication Facility for review and approval. The revision was supplemented by a letter dated December 2, 2015.

The major changes in the January 2015 revision involved a total rewrite of the document, and the evaluation of the submittal was processed in accordance with Title 10 of the *Code of Federal Regulations* Section 70.34 (10 CFR 70.34) to ensure that the applicable material control and accounting (MC&A) requirements were met. The applicable MC&A requirements are found in 10 CFR Part 74, "Material Control and Accounting of Special Nuclear Material." Specifically, the review was performed to ensure that the licensee's revised FNMCP describes the MC&A system, how the system features and capabilities specified in 10 CFR 74.51(b) are achieved and maintained, and how such features and capabilities are used to achieve the general performance objectives listed in 10 CFR 74.51(a).

As stated in the Safeguards Evaluation Report (SER) (Enclosure 1 Non Public; Enclosure 2 Public), the U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the changes requested by MOX Services in the revision and concluded that the revised FNMCP is an acceptably robust document for facility operations and that it contains appropriate and necessary commitments to meet applicable MC&A requirements as stipulated in 10 CFR Part 74. The MOX Services FNMCP revision dated January 29, 2015, as revised December 2, 2015, continues to describe acceptable methods for achieving the general performance objectives in 10 CFR 74.51(a) and the system features and capabilities of 10 CFR 74.51(b).

In accordance with 10 CFR Section 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter and Enclosure 2 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).

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D. Gwyn

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

Sincerely,

/RA/

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

Docket No.: 70-3098

Enclosures:

1. Non-Public Version of SER
2. Public Version of SER

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D. Gwyn

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

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