

February 23, 2017

Mr. Dealis W. Gwyn
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SUBJECT: SAFETY EVALUATION REPORT RELATED TO THE APPROVAL OF AMENDMENT NUMBER: MPQAP-2016-0001 OF THE "MIXED OXIDE PROJECT QUALITY ASSURANCE PLAN" FOR THE MIXED OXIDE FUEL FABRICATION FACILITY, UNDER CONSTRUCTION IN AIKEN, SOUTH CAROLINA

Dear Mr. Gwyn:

By letter dated December 20, 2016, (Agencywide Documents Access and Management System [ADAMS] Accession No. ML16362A001), CB&I AREVA MOX Services (MOX Services) submitted Amendment Number: MPQAP-2016-0001 of the MOX Project Quality Assurance Plan (MPQAP) to the U.S. Nuclear Regulatory Commission (NRC) for review and approval. MOX Services requested a revision to the MPQAP MPQAP-2016-0001 to incorporate single storage facility criteria already allowed by NQA-1 for records storage.

As described in the enclosure to this letter, the NRC staff has reviewed the changes requested by MOX Services in Amendment Number: MPQAP-2016-0001 and finds them acceptable on the basis the NRC staff concluded in its safety evaluation report that the change in wording is acceptable and in accordance with NQA-1 1994/1995a.

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

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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.

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

Enclosure:
As stated

cc: See next page

SAFETY EVALUATION REPORT RELATED TO THE APPROVAL OF AMENDMENT NUMBER: MPQAP-2016-0001 OF THE "MIXED OXIDE PROJECT QUALITY ASSURANCE PLAN" FOR THE MIXED OXIDE FUEL FABRICATION FACILITY, UNDER CONSTRUCTION IN AIKEN, SOUTH CAROLINA

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**SAFETY EVALUATION REPORT RELATED TO THE APPROVAL OF AMENDMENT
NUMBER: MPQAP-2016-0001 OF THE “MIXED OXIDE PROJECT QUALITY ASSURANCE
PLAN” FOR THE MIXED OXIDE FUEL FABRICATION FACILITY**

1.0 INTRODUCTION

By letter dated December 20, 2016 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML16362A001), CB&I AREVA MOX Services (MOX Services) submitted Amendment Number: MPQAP-2016-0001 of the MOX Project Quality Assurance Plan (MPQAP) to the U.S. Nuclear Regulatory Commission (NRC) for review and approval in accordance with Paragraph 70.23(b) of Title 10 of the *Code of Federal Regulations* (10 CFR). MOX Services proposed revising the description in the first and second paragraphs of section 17.2.4.C of the MPQAP relating to permanent storage.

2.0 REGULATORY EVALUATION

Footnote 3 of 10 CFR 70.23(b) identifies that the criteria in Appendix B, “Quality Assurance Criteria For Nuclear Power Plants and Fuel Reprocessing Plants,” to 10 CFR Part 50, “Domestic Licensing of Production and Utilization Facilities,” (Appendix B) will be used by the Commission in determining the adequacy of the Mixed Oxide Fuel Fabrication Facility quality assurance program.” NUREG-1718 (NRC, 2000), “Standard Review Plan for the Review of an Application for a Mixed Oxide (MOX) Fuel Fabrication Facility,” states that an acceptable means for meeting the requirements of Appendix B is to follow the 1994 edition of the ASME NQA-1, with the 1995 addenda (NQA-1-1994/1995a). Basic Requirement 13, “Handling, Storage and Shipping,” of NQA-1 1994/1995a states, in part, handling, storage, cleaning, packaging, shipping, and preservation of items shall be controlled to prevent damage or loss and to minimize deterioration. MOX Services has committed to comply with the guidance contained in NQA-1-1994/1995a. The predominant criterion of Appendix B and NQA-1-1994/1995a that is related to the proposed MPQAP changes and which may be affected is Criterion XIII, “Handling, Storage and Shipping.” Section 17.2 of the MOX Services MPQAP describes the Permanent Storage requirements.

On the basis of its review, the NRC staff concluded in this safety evaluation report that the modification is acceptable and minimal. The change in wording is acceptable and in accordance with NQA-1 1994/1995a.

3.0 TECHNICAL EVALUATION

There is no need for a technical evaluation since the wording provided on the amendment aligns with the wording used by the NQA-1 1994, Section 13 “Handling, Storage and Shipping.” The change does not affect the scope of technical aspects of the requirements it only provides clarification and consistency with the NQA-1 criteria.

4.0 CONCLUSIONS

The NRC staff has reviewed the changes requested by MOX Services in Amendment Number: MPQAP-2016-0001 and finds them acceptable on the basis that the provisions of Sections 17 of the MPQAP, as revised, continue to meet the requirements of 10 CFR 50 Appendix B “Quality Assurance Criteria for Fuel Processing Plants.”

Enclosure