

February 29, 2012

MEMORANDUM TO: Jeremy S. Bowen, Acting Chief
Mixed Oxide and Uranium
Deconversion Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

FROM: David Tiktinsky, Sr. Project Manager /RA/
Mixed Oxide and Uranium
Deconversion Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF THE MEETING WITH SHAW AREVA MOX
SERVICES TO DISCUSS THE PROPOSED RISK RANKING OF
ITEMS RELIED FOR SAFETY AND AUGMENTED QUALITY
ASSURANCE FOR THE MIXED OXIDE FUEL FABRICATION
FACILITY UNDER CONSTRUCTION NEAR AIKEN, SOUTH
CAROLINA

On February 7, 2012, the U.S. Nuclear Regulatory Commission staff met with representatives from Shaw AREVA MOX Services to discuss their proposed system to rank items relied upon for safety and use of augmented quality assurance, for the Mixed Oxide Fuel Fabrication Facility.

The meeting summary can be found in Enclosure 1. The meeting attendance list can be found in Enclosure 2 and the meeting handout can be found in Enclosure 3. The enclosures do not contain any official use only material.

Enclosures:
As stated

cc w/enclosures: S. Glenn, NNSA/SRS
K. Cummins, NNSA
S. Jenkins, SC Dept. of HEC
D. Silverman, Esq., MOX Services
D. Curran, Esq., Nuclear Watch South
A.J. Eggenberger, DNFSB
L. Zeller, BREDL
G. Carroll, Nuclear Watch South
D. Gwyn, MOX Services

CONTACT: David Tiktinsky, NMSS/FCSS
301-492-3229

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OFFICE	FCSS/MODB	FCSS/UEB	FCSS/MODB
NAME	DTiktinsky	TRichmond	JBowen
DATE	2/27/2012	02/28/2012	2/29/2012

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SUMMARY OF THE MEETING WITH SHAW AREVA MOX SERVICES RELATED TO THE
THEIR PROPOSED ITEMS RELIED ON FOR SAFETY RISK RANKING AND AUGMENTED
QUALITY ASSUANCE PLAN FOR THE MIXED OXIDE FUEL FABRICATION FACILITY

DATE February 7, 2012
PLACE Rockville, Maryland
ATTENDEES See Enclosure 2

PURPOSE

The purpose of the public meeting was for Shaw AREVA Services (MOX Services or the applicant) personnel to present their proposed risk ranking methodology for items relied on for safety (IROFS) and the augmented Quality Assurance (QA) program for lower priority IROFS for the Mixed Oxide Fuel Fabrication Facility (MFFF).

DISCUSSION

The quality assurance plan for the MFFF has had provisions related to the grading of IROFS and the use of augmented QA. However, they have not previously implemented those provisions of their plan.

The U.S. Nuclear Regulatory Commission (NRC) stated at the meeting that in order to try to assure that the grading/augmented QA program is implemented in accordance with the title 10 of the *Code of Federal Regulations* Part 70, that the proposed augmented QA program should be submitted to the NRC as part of a revision to the QA plan.

MOX Services described their approach for ensuring that the most important IROFS are identified and that priorities and controls are applied consistent with safety significance.

The purpose of their program is to a) define the relative importance of IROFS to the overall safety criteria; b) identify the IROFS that are a priority; and c) identify lower risk IROFS where augmented QA program could be applied.

The risk ranking process used event sequences as defined in the Integrated Safety Analysis Summary and applies criteria to determine the frequency and the consequences of the event and IROFS failure. MOX Services discussed nuclear industry precedent for risk ranking methodologies.

MOX Services also discussed their proposed augmented QA plan and the key differences that would be applied. These differences include items related to procurement, sampling, auditing, and inspection.

The presentation also discussed potential clarifications to the license application and the QA plan.

In the closed session, MOX Services discussed a few specific examples of how the risk ranking methodology is applied for specific events.

The meeting concluded with a discussion of future steps. MOX Services stated that they would like to set up additional meeting to discuss the details of the risk ranking methodology and the augmented QA program.

No regulatory decisions were made at the meeting.

The meeting was then adjourned.

February 7, 2012, Meeting Attendees

David Tiktinsky	U.S. Nuclear Regulatory Commission (NRC)
Kevin Morrissey	NRC
James Downs	NRC
Sabrina Atack	NRC
Jim Hammelman	NRC
Chris Hair	NRC
William Gloersen	NRC
Katherine Stddenbenz	NRC
Soly Soto	NRC
Cintha Roman	NRC
Chris Tripp	NRC
Larry Campbell	NRC
Marissa Bailey	NRC
John Flack	NRC
Doug Yates	Shaw AREVA MOX Services (MOX Services)
Dealis Gwyn	MOX Services
Bob Eble	MOX Services
Roger Alley	MOX Services
Dave Kehoe	MOX Services
Mosi Dayani	National Nuclear Security Administration (NNSA)
Thanhtan VanOber	NNSA
Tony Eng	Department of Energy (DOE)/LINK
Terry Dunn	DOE/PDC