

March 27, 2008

MEMORANDUM TO: Margie Kotzalas, Chief  
MOX Branch  
Special Projects and Technical  
Support Directorate  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

FROM: David Tiktinsky, Sr. Project Manager **/RA/**  
MOX Branch  
Special Projects and Technical  
Support Directorate  
Division of Fuel Cycle Safety  
and Safeguards, NMSS

SUBJECT: SUMMARY OF MEETING WITH SHAW AREVA MOX SERVICES TO  
DISCUSS THE DRAFT REQUEST FOR ADDITIONAL INFORMATION  
RELATED TO CRITICALITY SAFETY FOR THE MIXED OXIDE FUEL  
FABRICATION FACILITY TO BE BUILT NEAR AIKEN, SC

On March 4, 2008, the U.S. Nuclear Regulatory Commission staff met with representatives from Shaw AREVA MOX Services, to discuss draft request for additional information (RAIs) related to criticality safety. The RAIs are related to the license application to possess and use radioactive material for the Mixed Oxide Fuel Fabrication Facility.

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(301) 492-3229

M. Kotzalas

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Please see the enclosed meeting summary for more details (Enclosure 1). The meeting attendance list is also enclosed (Enclosure 2). The enclosures do not contain any official use only information.

Docket No.: 70-3098

Enclosures:

1. Meeting Summary
2. Meeting Attendance List

cc w/o enclosures:

G. Carroll, NWS

J. Olencz, NNSA

A.J. Eggenberger, DNFSB

D. Silverman, Esq., MOX Services

S. Jenkins, SC Dept of HEC

D. Curren, Esq., NWS

L. Zeller, BREDL

D. Gwyn, MOX Services

G. Smith, NNSA

M. Kotzalas

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A.J. Eggenberger, DNFSB	D. Curren, Esq., NWS	G. Smith, NNSA

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DATE	3 / 26 /08	3/ 27 /08	3/27/08	3/27/08

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SUMMARY OF MEETING WITH SHAW AREVA MOX SERVICES ON DISCUSSION OF  
DRAFT REQUEST FOR ADDITIONAL INFORMATION RELATED TO CRITICALITY SAFETY  
FOR THE MIXED OXIDE FUEL FABRICATION FACILITY

Date: March 4, 2008

Place: U.S. Nuclear Regulatory Commission (NRC) Headquarters, Rockville, MD

Attendees: See Enclosure 2

Purpose:

This purpose of the meeting was for NRC staff to present and discuss with Shaw AREVA MOX Services personnel the draft request for additional information (RAI) in the criticality safety area related to the technical review of the license application (LA) to possess and use radioactive material for the Mixed Oxide Fuel Fabrication Facility. RAIs related to the criticality safety review of the Integrated Safety Analyses (ISA) Summary will be discussed with the applicant at a future time after the staff has completed that part of the review.

Discussion:

In order to facilitate communication between the applicant and the staff and to assure an understanding of the RAIs, a meeting was held to discuss the staff's draft questions. The intent is for the RAIs to be formerly transmitted to the applicant shortly after these types of meetings are held. Additionally, in-office reviews will be planned during the course of the applicant's development of their responses to assure that they are responding appropriately to the RAIs. Future meetings will also be scheduled prior to the final submittal of the responses by the applicant to discuss the content of the responses.

The staff's RAIs are related to criticality safety aspects of the technical review of the LA. The draft RAIs covered a wide range of nuclear criticality safety (NCS) related items including: (a) organization and administration for nuclear criticality safety; (b) NCS audits and assessments; (c) criticality safety procedures; (d) nuclear incident monitoring system; (e) nuclear criticality safety evaluations; (f) analytical methodology; (g) criticality control modes; (h) geometry control; (i) mass control; (j) isotopic control; (k) reflection control; (l) moderation control; (m) concentration control; (n) interaction control; (o) volume control; (p) heterogeneity, physiochemical, and process variable control; (q) regulatory requirements, guidance, and industry standards; (r) criticality code validation methodology; (s) subcriticality limits; (t) implementation of nuclear criticality safety in the ISA; and (u) regulatory guidance applicability.

The planned schedule for formally submitted the RAIs to the applicant is April 2008.

No regulatory decisions were made at the meeting.

The meeting was then adjourned.

March 4, 2008 Meeting Attendance List

David Tiktinsky	NRC
Kevin Morrissey	NRC
Chris Tripp	NRC
Craig Hrabal	NRC
Wilkins Smith	NRC
Dealis Gwyn	MOX Services
Bob Foster	MOX Services
Bill Hennessy	MOX Services
Frederick Willis	MOX Services
Garrett Smith	NNSA
Steve Dolloy	Platts