

## Attachment 3

**From:** Andrew Persinko  
**To:** Burrows, Frederick; DDb; jgg; Murray, Alex; Steele, Sharon; Troskoski, W; Wescott, Rex  
**Date:** Mon, Jan 6, 2003 8:12 AM  
**Subject:** MOX mtg summary

Comments? I would like to have you comments today so that I can send to DCS by tomorrow.

Alex/Bill - I would like to get one set of chem comments that both Alex and Bill agree on. So pls discuss before sending to me.

Fred - I thought Env qual for MOX is closed. We checked with OGC and got an answer so that closes it - correct? If not, what is open?

thanks

**CC:** mnl

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MEMORANDUM TO: Melvyn N. Leach, Chief  
Special Projects and Inspection Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

THRU Joseph G. Glitter, Chief  
Special Projects Section  
Special Projects and Inspection Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

FROM: Andrew Persinko, Sr. Nuclear Engineer  
Special Projects Section  
Special Projects and Inspection Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: DECEMBER 10-12, 2002, MEETING SUMMARY: MEETING WITH  
DUKE COGEMA STONE & WEBSTER TO DISCUSS MIXED OXIDE FUEL  
FABRICATION FACILITY REVISED CONSTRUCTION AUTHORIZATION  
REPORT

On December 10-12, 2002, U.S. Nuclear Regulatory Commission (NRC) staff met with Duke Cogema Stone & Webster (DCS), the mixed oxide fuel fabrication facility (MFFF) applicant, to discuss the revised construction authorization request (CAR or revised CAR) submitted to NRC on October 31, 2002. The meeting agenda, summary, handouts, attendance list, and clarifying information provided by DCS are attached (Attachments 1, 2, 3, 4, and 5 respectively).

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Docket: 70-3098

Attachments: 1. Meeting Agenda  
2. Meeting Summary  
3. Meeting Handouts  
4. Attendance List  
5. Clarifying Information

cc:

P. Hastings, DCS  
J. Johnson, DOE  
H. Porter, SCDHEC  
J. Conway, DNFSB  
L. Zeller, BREDL  
G. Carroll, GANE

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Docket: 70-3098

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OFC	SPB	SPB	SPB	SPB
NAME	APersinko	DBrown	LGross	JGitter
DATE	1/ /03	1/ /03	1/ /03	1/ /03

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**MEETING AGENDA  
MOX FUEL FABRICATION FACILITY  
December 10-12, 2002**

December 10, 2002

9:00 AM	Introduction
9:15 AM	Discussions of chemical safety
12:00 NOON	Lunch
1:00 PM	Discussions of chemical safety
4:30	Summary / Actions
5:00	Adjourn

December 11, 2002

9:00 AM	Discussions of chemical safety
12:00 NOON	Lunch
1:00 PM	Discussions of chemical safety
4:30	Summary / Actions
5:00	Adjourn

December 12, 2002

9:00 AM	Discussions of fire protection
12:00 NOON	Lunch
1:00 PM	Discussions of electrical/I&C
4:30	Summary / Actions
5:00	Adjourn

**MEETING SUMMARY  
MOX FUEL FABRICATION FACILITY  
December 10-12, 2002**

Purpose:

The purpose of the meeting was to discuss chemical safety, fire protection, and electrical/instrumentation and control (I&C) issues related to the Mixed Oxide Fuel Fabrication Facility Construction Authorization Request (CAR) submitted by DCS on October 31, 2002, or identified in the NRC staff's Draft Safety Evaluation Report (DSER) dated April 30, 2002.

Summary:

The meeting was a technical, working level meeting that covered, in detail, chemical, fire protection, and electrical/I&C issues. The normal format was for DCS to respond to staff questions, most of which were related to open items identified in the staff's DSER. For issues related to red oil and to hydroxylamine nitrate (HAN), DCS had prepared presentations (DCS slides in Attachment 3).

A summary of the issues discussed is provide below:

Chemical Safety

1. *CS-5 Modeling of Hazardous Chemical Releases:* NRC staff questioned whether the administrative controls identified in the revised CAR were needed after a chemical event, specifically the administrative controls identified as facility worker actions, chemical safety controls and laboratory material controls. DCS stated that operator actions outside of the control room and chemical events are not coupled and that there is no chemical release that would result in a radiological release. DCS stated that the term "Chemical Safety Controls" in the CAR refers to samples and that, in the MOX process, samples are a permissive action. In other words, if there is an event, the process is shutdown and failure to take samples does not put the process at risk since it remains shutdown. Samples are taken automatically or are remotely handled. "Laboratory Material Controls" also refers to sampling and is addressed by the previous DCS statement. DCS provided clarifying information contained in Attachment 5. Staff finds that this information closes this issue.
2. *CS-5 Temporary Emergency Exposure Limits (TEELs):* NRC staff questioned the use of TEELs as a chemical limit, since TEEL values are subject to change, and the justification for the TEEL values chosen by DCS. DCS will provide a rationale for the values it has chosen and denote the actual numerical values as limits rather than TEELs.
3. *New Issue - Plutonium VI oxybate:* NRC staff questioned the safety factor (i.e., design basis) to be applied to prevent overpressure of components, such as gloveboxes, and the calcining furnace. Staff found acceptable that the specific setpoints will be