

MEMORANDUM TO: Melvyn Leach, Acting Chief
Special Projects Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

THRU: Melanie Galloway, Section Chief
Enrichment Section **/RA/**
Special Projects Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

FROM: Andrew Persinko, Sr. Nuclear Engineer
Enrichment Section **/RA/**
Special Projects Branch
Division of Fuel Cycle Safety
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SUBJECT: SUMMARY OF MEETING WITH DUKE COGEMA STONE & WEBSTER
TO DISCUSS TECHNICAL TOPICS ASSOCIATED WITH THE MIXED
OXIDE FUEL FABRICATION FACILITY

On February 3, 2000, the U.S. Nuclear Regulatory Commission (NRC) staff met with representatives from Duke Cogema Stone & Webster (DCS) to discuss technical topics associated with the mixed oxide (MOX) fuel fabrication facility. Topics discussed include worker dose, HVAC/confinement, use of polycarbonate materials for glovebox windows, fire protection, and controlled area boundary. The attendance list, meeting agenda and slides used in the presentation are attached (Attachments 1, 2 and 3, respectively).

At the meeting, DCS proposed various technical positions and its proposed, or planned, approaches for key design topics and sought NRC staff feedback regarding the DCS approach. The NRC staff provided the feedback sought by DCS to the extent possible. DCS still intends to submit an application in September 2000 with sufficient information to allow construction to commence.

During the presentations, in response to NRC staff questions, DCS indicated that: 1) regarding the location of the worker with respect to potential accidents, the worker doses discussed by DCS would apply, in general, to the worker located at the potential breach of a glovebox; 2) the pressure differential between outside the building and the C1 confinement area is normally maintained at zero; 3) the positive value indicated on page 8 of the HVAC/confinement slide for the C1 confinement area normally occurs when the truck bay doors are opened; 4) DCS's use of the word "intact" on page 17 of the HVAC/confinement slide means that the confinement

systems are able to perform their functions; 5) whether DCS considers radiation monitors as “items relied on for safety” will depend on the results of the integrated safety analysis; and 6) a DCS design goal, with respect to fire protection, is to not designate fire protection systems as “items relied on for safety,” as defined in the proposed Part 70 rule, but to assure that the fire protection systems are seismically restrained so that they do not interfere with items that are designated as “items relied on for safety”; to do this, risk from fire would have to be shown to be “highly unlikely.”

The staff indicated that it would be useful for DCS to provide NRC with documents describing the criteria that it would apply to the technical areas discussed during the meeting.

Docket: 70-3098

Attachments: As stated

cc: Mr. Peter Hastings
Duke Cogema Stone & Webster
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Charlotte, NC 28231-1847

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ATTENDEES

<u>NAME</u>	<u>AFFILIATION</u>
Andrew Persinko	Nuclear Regulatory Commission (NRC)
Melanie Galloway	NRC
Melvyn Leach	NRC
Timothy Johnson	NRC
Rex Wescott	NRC
Richard Struckmeyer	NRC
Fred Burrows	NRC
M. Srinivasan	NRC
Wilkins Smith	NRC
Alex Murray	NRC
Michael Adjodha	NRC
Rob Lewis	NRC
Ed Brabazon	Duke Cogema Stone & Webster (DCS)
Peter Hastings	DCS
Laurence Cret	DCS
Bill Hennessy	DCS
Tom St. Louis	DCS
Frazie Gerard	DCS
Juteau Frederic	DCS
Bruce Brunson	DCS
Don Silverman	DCS/Morgan Lewis
Charlie Sanders	FCF
Jamie Johnson	Department of Energy (DOE)
Patrick Rhoads	DOE
Dan Bruner	DOE-Savannah River
Don Williams	Oak Ridge National Laboratory
Faris Badwan	Los Alamos National Laboratory
Phil Kasik	MPR/DOE
Steven Dolley	Nuclear Control Institute
Sidney Crawford	Consultant (self)