September 20, 2005

MEMORANDUM TO: James W. Clifford, Acting Chief
Special Projects Branch
Division of Fuel Cycle Safety
and Safeguards

THRU: Stewart Magruder, Chief **/RA/**
Mixed Oxide Facility Licensing Section
Special Projects Branch, FCSS

FROM: William Troskoski, Project Manager **/RA/**
Mixed Oxide Facility Licensing Section
Special Projects Branch, FCSS

SUBJECT: SEPTEMBER 7, 2005, DUKE COGEMA STONE & WEBSTER MEETING SUMMARY

On September 7, 2005, the U.S. Nuclear Regulatory Commission met with staff from Duke Cogema Stone & Webster to discuss the project status, the licensing basis configuration management plans, and the license application and Integrated Safety Assessment Summary format and content for the proposed mixed oxide fuel fabrication facility. This summary contains no proprietary or classified information.

Docket: 70-3098

cc: R. Sweigart, DCS
K. Ashe, DCS
J. Olencz, NNSA
G. Smith, NNSA/DOE
S. Glenn, NNSA/DOE
D. Williams, ORNL
H. Porter, DHEC
A.J. Eggenberger, DNFSB
L. Zeller, BREDL
G. Carroll, GANE
D. Curran, Harmon, Curran
D. Sliverman, Morgan Lewis

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JHull, OGC	DMcIntyre, OPA	DAyres, RII	VOrdazNSIR
RCaldwell, NSIR	RVirgilio, OSTP	Attendees, NRC	

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OFFICE	MOFLS		GCFLS		MOFLS	
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DATE	9/19/05		9/19/05		9/20/05	

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Summary of Meeting with Duke Cogema Stone & Webster

Date: September 7, 2005

Place: U.S. Nuclear Regulatory Commission Offices
Rockville, MD

Attendees: See Attachment 1

Purpose:

The purpose of the meeting was to discuss project status of the proposed mixed oxide (MOX) fuel fabrication facility (MFFF), including the development and implementation of the licensing basis configuration management, and the content and format of the license application and Integrated Safety Analysis (ISA) Summary with the applicant Duke Cogema Stone & Webster (DCS). The meeting notice and agenda are included in Attachment 2.

Discussion:

After the introduction of the meeting participants, Mr. James Clifford, Branch Chief of the Special Projects Branch, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards, provided an overview of U.S. Nuclear Regulatory Commission (NRC) recently completed milestones, including the issuance of the Construction Authorization (CA), Final Safety Evaluation Report, and Final Environmental Impact Statement for the proposed MFFF. Mr. Clifford continued to discuss several NRC administrative topics, including planning and resource allocation related to the review of a license application and ISA Summary to operate the proposed MFFF. In addition, Mr. Clifford indicated that the NRC sent a letter to DCS dated August 3, 2005, requesting the current estimated date for the submittal of the license application and proposed schedule. As of the date of this meeting, the NRC has not received a response from the applicant.

DCS provided opening remarks and continued to discuss the first topic, MFFF Project Status (Attachment 3). The presentation discussed the status of the design, procurement activities, and the license application and ISA Summary activities. DCS indicated that there is no final schedule for the site preparation activities; thus, the presentation did not include a discussion about the site preparation schedule. DCS stated that the preliminary design had been completed in December 2004, and a more detailed design was in progress. DCS expects to complete this detailed design by the end of calendar year (CY) 2006. Also, DCS is preparing several requests for proposal related to process equipment to be issued in the near future. Also, DCS will perform several quality assurance audits of vendors. The NRC intends to accompany DCS on these audits, which are expected to start in November 2005.

DCS informed NRC that construction activities, including site preparation and requests for proposals, cannot start until the U.S. Department of Energy (DOE) completes its internal review and Critical Decision process for the project. The representatives from DOE explained that this procedure is applicable to contracts, such as the one with DCS, allowing the contractor to move

forward with the project once DOE reviews and approves the proposed activities. Also, DOE indicated that the review for the site preparation activities is in progress.

The discussion continued with an update of DCS license application and ISA Summary activities. DCS indicated that the initial drafts for the license application and ISA Summary were completed in the second quarter of CY 2005. Also, DCS is updating the process hazards analysis, nuclear safety evaluations, and nuclear criticality safety evaluation. These updates might result in changes to the established list of items relied on for safety (IROFS).

DCS plans to submit all documents related to the license application and ISA Summary to DOE, for their review and approval, in the beginning of CY 2006, and expects to submit the license application and ISA summary to the NRC in the third quarter of CY 2006.

During the afternoon portion of the meeting DCS discussed the licensing basis configuration management, and further discussed the status of the license application and ISA Summary.

DCS's Licensing Basis Configuration Management presentation (Attachment 3) included a discussion of the licensing basis definition, its objectives, and the methods for controlling and managing configuration management. These methods include procedural controls and crosswalk tools. DCS indicated that the licensing basis configuration management may change due to the evolution of the design, and the evolution of the principle structures, systems, and components (PSSCs) into IROFSs. In response to NRC questions, DCS stated that the crosswalk tools will allow tracking and managing the evolution of PSSCs into IROFSs; thus, facilitating communication of these changes to the NRC.

Also, DCS indicated that an internal audit was performed on the procedural controls, and these were revised to incorporate the audit's findings. NRC indicated the possibility of performing a review of the design control and configuration management, including the procedural controls and their implementation. In response to NRC questions, DCS indicated that the quality assurance plan will clarify and adequately communicate the changes resulting from the transition from a construction stage to an operational stage to a deactivation stage.

Finally, the last topic DCS discussed included a presentation on license application/ISA Summary (Attachment 3). This presentation focused on the proposed content and level of detail for the license application and ISA Summary. DCS indicated that the information included in the construction authorization request is being separated between the license application and ISA Summary. In addition, DCS plans to include most of the design basis in the ISA Summary. The NRC staff indicated that these plans would be reviewed internally and additional meetings would be scheduled to discuss this topic.

The NRC and DCS spent a significant portion of the meeting discussing the level of detail the NRC staff expects in the license application and ISA Summary. The NRC provided comments and guidance about the content of a license application and ISA Summary. NRC and DCS agreed to have future meetings to further discuss the licensing activities.

Action Items:

DCS requested a meeting and/or working session with the NRC to discuss the subject of physical security. The proposed MFFF will be located within a DOE site. Therefore, the NRC staff explained that the NRC would first meet with DOE representatives to establish a joint understanding of the physical security issues and responsibilities.

Attachments:
1. Attendance List
2. Meeting Notice and Agenda
3. DCS presentation handouts

Meeting Attendance List
MOX Project Status Update
September 7, 2005

NAME	AFFILIATION
William Troskoski	U.S. Nuclear Regulatory Commission (NRC)
Stewart Magruder	NRC
James W. Clifford	NRC
William H. Ruland	NRC
Thomas Cox	NRC
Paul Bell	NRC
Julie Olivier	NRC
Ian Spivack	NRC
Diana Diaz Toro	NRC
Kenneth Armstrong	NRC
Kevin Morrissey	NRC
Frederick Burrows	NRC
William Gloersen	NRC
Alexander Murray	NRC
Richard Sweigart	Duke Cogema Stone & Webster (DCS)
Ken Ashe	DCS
Jim Cassidy	DCS
Dealis Gwyn	DCS
Garrett Smith	Department of Energy (DOE)/National Nuclear Security Administration (NNSA)
Sam Glenn	DOE/NNSA/Savannah River
Donald Williams	Oak Ridge National Laboratory
Daniel Horner	McGraw-Hill
Tehcla Fabian	Fuel Cycle Week
Edwin Lyman	Union of Concerned Scientists
Don Silverman	Morgan Lewis & Bockius

Attachment 1