

August 30, 2006

MEMORANDUM TO: William H. Ruland, Deputy Director  
Licensing and Inspection Directorate  
Spent Fuel Project Office, NMSS

FROM: Jill Caverly, Project Manager **/RA/**  
Licensing Section  
Licensing and Inspection Directorate  
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF AUGUST 29, 2006, MEETING WITH NUKEM  
CORPORATION TO DISCUSS THE STRUCTURAL FEATURES OF A  
CASK DESIGN AND THE ANALYTICAL APPROACH THAT WILL  
DEMONSTRATE COMPLIANCE WITH THE REGULATIONS

#### Background

NUKEM Corporation (NUKEM), previously RWE NUKEM Corporation, requested a pre-application meeting with the U.S. Nuclear Regulatory Commission (NRC) staff. NUKEM requested this meeting to discuss the structural features of a cask design and the analytical approach that will be utilized to demonstrate compliance with the regulations. The meeting was noticed on August 11, 2006, (ML062230113). An attendance list for the meeting is provided (Enclosure 1).

#### Discussion

NUKEM representatives delivered a presentation to the NRC staff that discussed the analytical approach for the new cask, Model No. 10-165B. This is the intended cask design that will replace the currently approved Model No. 10-142B. NUKEM representatives stated that its intent is to provide a conservative straight-forward analysis of the package's structural design. The structural analysis will use modeling software to demonstrate that the package design meets the requirements of Title 10 Code of Federal Regulations, Part 71 for the impact limiter and the cask body. Staff suggested bench marking may be required to establish the applicability of the software for this application. Furthermore, the staff discussed the need for detailed discussion of the modeling methodology in its Safety Analysis Report. The slides presented by representatives of NUKEM Corporation are provided (Enclosure 2).

No regulatory decisions were requested and none were made during the meeting.

TAC No. L24007

#### Enclosures:

1. Meeting Attendees
2. Presentation Slides

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Licensing and Inspection Directorate  
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Licensing Section  
Licensing and Inspection Directorate  
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF AUGUST 29, 2006, MEETING WITH NUKEM CORPORATION TO DISCUSS THE STRUCTURAL FEATURES OF A CASK DESIGN AND THE ANALYTICAL APPROACH THAT WILL DEMONSTRATE COMPLIANCE WITH THE REGULATIONS

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<b>OFC</b>	SFPO		SFPO		SFPO	
<b>NAME</b>	JCaverly		MDebose		CRegan	
<b>DATE</b>	08/29/06		08/30/06		08/30/06	

**MEETING ATTENDEES**  
**MEETING DATE: AUGUST 29, 2006**  
**NRC AND NUKEM CORPORATION**

Attendees

David Tang, NRC

Chris Bajwa, NRC

Geoff Hornseth, NRC

Jerry Chuang, NRC

Jill Caverly, NRC

Bryan Roy, NUKEM Corporation

Mike Vaught, NUKEM Corporation