

December 21, 2005

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

FROM: L. Raynard Wharton, Project Manager /RA/  
Licensing Section  
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF DECEMBER 8, 2005, MEETING WITH NAC  
INTERNATIONAL REGARDING THE MAGNASTOR APPLICATION  
THERMAL ANALYSIS

### Background

A closed meeting was held on December 8, 2005, in Rockville, Maryland, with NAC International (NAC) to discuss the MAGNASTOR application thermal analysis and associated modeling issues. Attachment 1 is a list of the meeting attendees. Attachment 2 is NAC's letter requesting the closed meeting and the 10 CFR 2.390 proprietary information affidavit. There were no meeting handouts provided. No regulatory decisions were made nor requested at the meeting.

### Discussion

The meeting began with an introduction of meeting attendees. There was a review of the thermal discipline history related to the MAGNASTOR application and the need for the meeting. NAC and the NRC thermal review staff engaged in a very detailed discussion of the thermal analysis and methodology used to model the thermal performance of the MAGNASTOR design. There was continued discussion of the thermal modeling specifics including concerns previously expressed by the staff such as the porous media calculations and the turbulence modeling in the annulus region. NAC and the staff reached agreement on an analytical approach that would represent the design geometry and appropriately validate the thermal modeling assumptions.

NAC expects to make the necessary changes and revisions to their thermal analysis and provide a supplement in January 2006. The staff expects to have an approved revised schedule by January 15, 2006.

Docket No. 72-1031

TAC No. L23764

Attachments: 1. Meeting Attendees  
2. NAC Closed Meeting Request and associated affidavit

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NAME	LRWharton		EZiegler		RNelson	
DATE	12/20/05		12/21/05		12/21/05	

OFFICIAL RECORD COPY

**Closed Meeting NAC and the NRC**

**Headquarters**

**December 8, 2005**

**ATTENDANCE LIST**

<b>NAME</b>	<b>ORGANIZATION</b>
Wayne Hodges	NRC/NMSS/SFPO
Robert Nelson	NRC/NMSS/SFPO
Larry Campbell	NRC/NMSS/SFPO
Allen Hansen	NRC/NMSS/SFPO
Jorge Solis	NRC/NMSS/SFPO
Raynard Wharton	NRC/NMSS/SFPO
Ghani Zigh	NRC/RES
Thomas Danner	NAC
Mike Yaksh	NAC
Keyvan Keyhani	NAC