

July 16, 2012

MEMORANDUM TO: Doug Weaver, Deputy Director  
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Kimberly J. Hardin, Senior Project Manager */RA/*  
Licensing Branch  
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF JUNE 19, 2012, MEETING WITH NAC INTERNATIONAL  
TO DISCUSS AN UPCOMING APPLICATION FOR THE NEW MODEL  
NO. MAGNATRAN TRANSPORTATION PACKAGE (TAC NO. L24529)

#### Background

A meeting was held on June 19, 2012, in Rockville, Maryland, to discuss a new application for the Model No. MAGNATRAN transportation package. NAC International (NAC or the applicant) asked for the meeting to discuss the upcoming review and issuance of Certificate of Compliance (CoC) No. 9356.

The meeting was noticed on June 7, 2012 (ML12159A178). The meeting attendance list is provided as Enclosure No. 1.

#### Discussion

The discussion generally followed the public and closed agendas (Enclosure Nos. 2 and 3). The primary reason for the meeting was to discuss an upcoming request for approval of CoC No. 9356 for the Model No. MAGNATRAN transportation package. NAC initially submitted this application by letter dated January 19, 2011, as supplemented February 9, 2011. NRC staff issued a Request for Supplemental Information (RSI) on April 1, 2011. NAC followed, by letter dated April 14, 2011, with a proposed complete RSI response schedule for the end of June 2011. Additionally, due to the breadth of the RSI, the staff suspended review of the application until the RSI is resolved.

In the cover letter to the RSI, the staff noted that the MAGNATRAN is referenced by NAC as the transportation package designed for the MAGNASTOR spent fuel storage cask and asked for a reason for the differing content configuration between the two. The request will be to ship standard intact and damaged PWR fuel and intact BWR fuel (including fuel > 45 MWd/MTU) in this package.

A previous pre-application meeting for this new submittal was held on December 13, 2011 (ML120060014, ML120060017, and ML120060018).

The public portion of the meeting focused on the status of the MAGNATRAN application. NAC plans to incorporate the responses to the previous RSI in the submittal.

Upon removal of Enclosure 5, this document is DECONTROLLED

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Some detail on the structural, thermal, shielding, and criticality analyses were discussed (Enclosure 4). NAC stated that all fuel over 45 GWd/MTU will be canned in damaged fuel cans.

The closed portion of the meeting focused on specific MAGNATRAN design features, particularly the impact limiter design. NAC highlighted impact limiter performance similarities between the MAGNATRAN package and previously approved NAC designs. The staff re-emphasized what was discussed in the December 13, 2011, pre-application meeting, that a possible path forward would include sufficient reference to technical papers for similar applications.

Additionally, details of the burnup credit approach for ISG-8, Rev. 2, were discussed.

A copy of the presentation is provided as Enclosure Nos. 4 (non-proprietary) and 5 (proprietary).

Docket No. 71-9356

TAC No. L24529

Enclosures:

1. Meeting Attendees
2. Public Meeting Agenda
3. Non-Public Meeting Agenda
4. Non-Proprietary Presentation Slides
5. Proprietary Presentation Slides

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The closed portion of the meeting focused on specific MAGNATRAN design features, particularly the impact limiter design. NAC highlighted impact limiter performance similarities between the MAGNATRAN package and previously approved NAC designs. The staff re-emphasized what was discussed in the December 13, 2011, pre-application meeting, that a possible path forward would include sufficient reference to technical papers for similar applications.

Additionally, details of the burnup credit approach for ISG-8, Rev. 2, were discussed.

NAC expected to submit the application within about 3 weeks from the meeting date; however, based on impact limiter discussions, more time will be necessary.

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5. Proprietary Presentation Slides

Distribution:

NRC Attendees BBenney MRahimi DPstrak VCusumano

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**ADAMS P8 Package No.: ML12200A356**

OFC	SFST	SFST	SFST
NAME	KHardin	MDeBose	BHWhite for MWaters
DATE	7/16/12	7/16/12	7/16/12

"C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy  
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**June 19, 2012, Public Meeting  
Between NAC International and  
the Nuclear Regulatory Commission**

**MEETING ATTENDANCE LIST**

Kim Hardin	NRC/SFST
Michael Waters	NRC/SFST
David Pstrak	NRC/SFST
Michael Call	NRC/SFST
Robert Einziger	NRC/SFST
Jennie Rankin	NRC/SFST
Joe Borowsky	NRC/SFST
Vic Cusumano	NRC/SFST
Chris Allen	NRC/SFST
David Tang	NRC/SFST
Zhian Li	NRC/SFST
Wayne Slawinski	NRC/RIII (via phone)
George Carver	NAC International
Anthony Patko	NAC International
Craig Seaman	NAC International
Holger Pfeifer	NAC International
Mike Yaksh	NAC International
Don Beckman	Zion Solutions
Pat Thurman	Zion Solutions
Charles Haughney	Energy Solutions
Maureen Conley	Platts McGraw Hill (via phone)

Agenda for the  
MAGNATRAN Pre-Application  
Public Meeting  
June 19, 2012, 1:00 – 2:00 p.m.

Purpose:	Presentation and discussion of the MAGNATRAN application and RSI responses.	
1:00 p.m.	Introduction/Opening Remarks	NRC/NAC
1:05 p.m.	General Overview of the MAGNATRAN Application	NAC
1:10 p.m.	Presentation of MAGNATRAN SAR Document Structure	NAC
1:20 p.m.	Design, Structural, and Thermal Considerations	NAC
1:30 p.m.	Shielding and Criticality Considerations	NAC
1:45 p.m.	Nonproprietary Discussion of Request for Supplemental Information	NRC/NAC
1:55 p.m.	Schedule Requirements	NAC
1:57 p.m.	Public Questions/Comments	Public/NRC
1:59 p.m.	Closing Remarks	NRC/NAC
2:00 p.m.	Adjourn	

Agenda for the  
MAGNATRAN Post-Application  
Closed Meeting  
June 19, 2012, 2:00 – 3:30 p.m.

Purpose: Presentation and discussion of the NAC proprietary contents of the MAGNATRAN application and proprietary RSI responses.

2:00 p.m.	Introduction/Opening Remarks	NRC/NAC
2:05 p.m.	MAGNATRAN SAR Proprietary Version	NAC
2:10 p.m.	Proprietary Design, Structural, and Thermal Considerations	NAC
2:45 p.m.	Proprietary Criticality Considerations	NAC
3:05 p.m.	Proprietary responses to Request for Supplemental Information	NAC
3:20 p.m.	Questions/Comments	NRC/NAC
3:25 p.m.	Closing Remarks	NRC/NAC
3:30 p.m.	Adjourn	