

January 5, 2012

MEMORANDUM TO: Eric J. Benner, Acting Deputy Director  
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Jennie Rankin, Project Manager */RA/*  
Licensing Branch  
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF DECEMBER 13, 2011, PRE-APPLICATION MEETING  
WITH NAC INTERNATIONAL, TO DISCUSS STRUCTURAL  
CONSIDERATIONS REGARDING AN UPCOMING APPLICATION FOR  
THE MODEL NO. MAGNATRAN TRANSPORTATION PACKAGE  
(DOCKET NO. 71-9356) (TAC NO. L24529)

#### Background

A meeting was held with NAC International (NAC) on December 13, 2011, in Rockville, Maryland, to discuss the Model No. MAGNATRAN transportation package. The purpose of the meeting was to discuss structural considerations regarding the upcoming application for the Model No. MAGNATRAN transportation package.

The meeting was noticed on November 22, 2011 (ML113320118). The meeting attendance list is provided as Enclosure No. 1.

#### Discussion

The discussion generally followed the agenda (Enclosure No. 2). The primary reason for the meeting was to discuss NAC's path forward for submitting an application and their method for addressing concerns related to internal secondary impact of the contents within the canister.

By letter dated January 19, 2011, as supplemented February 9, 2011, NAC submitted an application for approval of the Model No. MAGNATRAN transport package. By letter dated April 1, 2011, the staff advised NAC that, based on their acceptance review of the application, supplemental information was needed. Additionally, due to the breadth of the request for supplemental information (RSI), the staff suspended review of the application until the RSI was resolved.

The public portion of the meeting focused on the status of the MAGNATRAN application, including the status of NAC's responses to the RSI. NAC highlighted that all but one issue have been resolved. This unresolved issue relates to considering internal spent nuclear fuel secondary impact effects during evaluation of the tests for hypothetical accident conditions.

NAC stated that structural evaluations of previously approved package designs by both NAC, and until recently, other vendors, have not considered this type of secondary impact. NAC requested that the generic safety issue process per NUREG-0933, "Resolution of Generic Safety Issues" be implemented. The staff acknowledged this request and is evaluating various regulatory processes to properly address this concern.

The closed portion of the meeting focused on specific MAGNATRAN design features. NAC highlighted performance similarities between the MAGNATRAN package and previously approved NAC designs. Additionally, NAC outlined several approaches they believe will resolve the secondary impact issue.

The NRC staff described a concern with one approach which may lead to additional questions concerning the model. The NRC noted a possible path forward would include sufficient reference to technical papers for similar applications.

Although the NRC staff did not make any regulatory decisions at the meeting, the staff agreed to discuss the proposed paths presented by NAC internally and provide any feedback by the beginning of the following week.

A copy of the presentation is provided as Enclosure Nos. 3 and 4.

Docket No. 71-9356  
TAC No. L24529

Enclosures:

1. Meeting Attendees
2. Agenda
3. Presentation
4. Proprietary Presentation Slides

NAC stated that structural evaluations of previously approved package designs by both NAC, and until recently, other vendors, have not considered this type of secondary impact. NAC requested that the generic safety issue process per NUREG-0933, "Resolution of Generic Safety Issues" be implemented. The staff acknowledged this request and is evaluating various regulatory processes to properly address this concern.

The closed portion of the meeting focused on specific MAGNATRAN design features. NAC highlighted performance similarities between the MAGNATRAN package and previously approved NAC designs. Additionally, NAC outlined several approaches they believe will resolve the secondary impact issue.

The NRC staff described a concern with one approach which may lead to additional questions concerning the model. The NRC noted a possible path forward would include sufficient reference to technical papers for similar applications.

Although the NRC staff did not make any regulatory decisions at the meeting, the staff agreed to discuss the proposed paths presented by NAC internally and provide any feedback by the beginning of the following week.

A copy of the presentation is provided as Enclosure Nos. 3 and 4.

Docket No. 71-9356  
TAC No. L24529

Enclosures:

1. Meeting Attendees
2. Agenda
3. Presentation
4. Proprietary Presentation Slides

Distribution:

NRC Attendees                      BBenney  
 G:\SFST\Rankin\MAGNATRAN\Meeting Summary 12-13-11.docx  
 G:\SFST\Rankin\MAGNATRAN\Public Slides 12-13-11.pdf  
 G:\SFST\Rankin\MAGNATRAN\PROPRIETARY Slides 12-13-11.pdf

**ADAMS Package No.: ML120060011      ADAMS Memo No.: ML120060014**

OFC	SFST		SFST		SFST	
NAME	JRankin		MDeBose		BHWhite for MWaters	
DATE	12/19/11		12/20/11		1/5/12	

"C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy  
OFFICIAL RECORD COPY

**December 13, 2011, Public/Closed Meeting  
Between NAC International and  
the Nuclear Regulatory Commission**

**MEETING ATTENDANCE LIST**

Jennie Rankin	NRC/SFST
Michael Waters	NRC/SFST
Kim Hardin	NRC/SFST
Meraj Rahimi	NRC/SFST
David Tang	NRC/SFST
Zhian Li	NRC/SFST
Gordon Bjorkman	NRC/SFST
David Pstrak	NRC/SFST
Joe Borowsky	NRC/SFST
Sara DePaula	NRC/SFST
Veronica Wilson	NRC/SFST
Neil Day	NRC/SFST
Dan Forsyth	NRC/SFST
Jason Piotter	NRC/SFST
Doug Weaver	NRC/SFST
Tom Danner	NAC, International
Mike Yaksh	NAC, International
Craig Seaman	NAC, International
Wren Fowler	NAC, International
Don Beckman	Zion Solutions
Paul Bailey	Duke Energy

Agenda for the  
MAGNATRAN Application  
Public Meeting (Part 1)  
December 13, 2011, 2:00 – 2:30 p.m.

Purpose: MAGNATRAN Application Overview.

2:00 p.m.	Introduction/Opening Remarks	NRC/NAC
2:05 p.m.	General Overview of the MAGNATRAN Application	NAC
2:25 p.m.	Public Questions and Comments	Public/NRC/NAC
2:30 p.m.	Adjourn	

**Enclosure 2**

Agenda for the  
MAGNATRAN Application  
Closed Meeting (Part II)  
December 13, 2011, 2:30 – 5:00 p.m.

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

2:30 p.m.	Introduction/Opening Remarks	NRC/NAC
2:35 p.m.	MAGNATRAN SAR Proprietary Format	NAC
2:40 p.m.	Proprietary Design and Structural Considerations	NAC
4:10 p.m.	Questions/Comments	NRC/NAC
4:55 p.m.	Closing Remarks	NRC/NAC
5:00 p.m.	Adjourn	