

July 8, 2008

MEMORANDUM TO: Nader Mamish, Deputy Director  
Licensing and Inspection Directorate  
Division of Spent Fuel Storage and Transportation, NMSS

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

SUBJECT: SUMMARY OF JUNE 30, 2008, MEETING WITH NAC INTERNATIONAL  
TO DISCUSS THE MODEL NO. NAC-LWT FOR ANSTO FRR FUEL  
SHIPMENT (TAC NO. L24223)

### Background

A pre-application meeting was held on June 30 2008, in Rockville, Maryland, to discuss the Model No. NAC-LWT transportation package. NAC International requested the meeting to discuss an upcoming amendment request to the NAC-LWT CoC No. 9225.

The meeting was noticed on June 11, 2008 (ML0816401222). 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 an amendment request to incorporate the loading specific contents in aluminum damaged fuel cans (DFCs) under different configurations of the NAC-LWT. The specific contents to be loaded consist of Mark II, III, and IV fuel elements.

The majority of the meeting centered on the discussion of the different loading configurations of the NAC-LWT. NAC plans to propose four loading configurations. These consist of Mark II, III, and IV, HEU and LEU elements in different basket assembly configurations.

The presented preliminary evaluation of the NAC-LWT is summarized as follows:

- Structural: ANSTO, DIDO and combined baskets will maintain current integrity for normal and accident conditions.
- Thermal: The proposed conditions are bounded by the current SAR thermal analysis for Mark II, III, and IV fuels.
- Shielding: The absence of a new shielding evaluation will be justified in the application.

- Containment: DFCs will have no credit in terms of containment capability; DIDO elements are bounded by the current analysis for standard fuel; metal test reactor (MTR) damaged fuel criteria is planned to be used to evaluate ANSTO fuel.
- Criticality: The preliminary conclusion is that there is no expected increase in system reactivity.

NAC International plans to submit the amendment request by July 30, 2008. A copy of the presentation slides is provided as Enclosure No. 3.

Docket No. 71-9225  
TAC No. L24223

Enclosures:

1. Meeting Attendees
2. Agenda
3. Presentation Slides

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Distribution: (Closes TAC No. L24223)

NRC Attendees CStaab MWaters LCampbell CRegan

G:\SFST\Hardin\NAC-LWTMEETING SUMMARY 06-30-08.wpd

OFC	SFST	SFST	SFST
NAME	KHardin	MDeBose	EBenner
DATE	7/08/08	7/08/08	7/08/08

"C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy  
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**June 19, 2008, Public Meeting  
Between NAC INTERNATIONAL and  
the Nuclear Regulatory Commission**

**MEETING ATTENDANCE LIST**

Kim Hardin	NRC/SFST
Larry Campbell	NRC/SFST
Neil Day	NRC/SFST
Zhian Li	NRC/SFST
Kimberly Ropon	NRC/SFST
Bob Einziger	NRC/SFST
Bob Tripathi	NRC/SFST
Mathew Gordon	NRC/SFST
Robert K. Johnson	NRC/SFST
Luis Cruz	NRC/SFST
Anthony Patko	NAC International
Holger Pfeiffer	NAC International
Katherine Smith	Embassy of Australia

**Agenda for the  
NRC/NAC-LWT Package Public Meeting  
June 30, 2008. 1:00 – 3:00 p.m.**

Purpose:	Pre-application public meeting for license amendment to incorporate ANSTO HIFAR fuel as approved content in the NAC-LWT cask.	
1:00 p.m.	Introduction/Opening remarks	NRC/NAC
1:15 p.m.	Presentation of license amendment pre-application for NAC-LWT	NAC
2:40 p.m.	Questions and Answers	NRC/NAC
2:45 p.m.	Public questions/Comments	Public/NRC
2:55 p.m.	Closing remarks	NRC/NAC