

February 14, 2013

MEMORANDUM TO: Anthony H. Hsia, Deputy Director
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Bernard White, Senior Project Manager /RA/
Licensing Branch
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF JANUARY 28, 2013, MEETING WITH NAC
INTERNATIONAL TO DISCUSS THE AMENDMENT TO ADD HIGH
ENRICHED URANYL NITRATE AS AUTHORIZED CONTENTS IN THE
MODEL NO. NAC-LWT TRANSPORTATION PACKAGE (TAC NO.
L24708)

Background

A meeting was held on January 28, 2013, in Rockville, Maryland. NAC International (NAC or the applicant) asked for the meeting to provide the U.S. Nuclear Regulatory Commission (NRC) an overview of NAC's application dated December 28, 2012. NAC submitted the application to add high-enriched uranyl nitrate liquid (HEUNL) as an authorized content in Certificate of Compliance No. 9225, for the Model No. NAC-LWT. This request is a high priority review to support the Department of Energy's Global Threat Reduction Program.

The meeting was noticed on January 15, 2015 (see ADAMS Accession No. ML13015A333). 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 for NAC to provide NRC with an overview of its application request and to answer any questions that the NRC might have generated from performing an acceptance review.

In the public portion of the meeting, NAC discussed the proposed schedule and changes to the certificate of compliance, loading and unloading of the HEUNL inner containers and their contents, hydrostatic acceptance test for the HEUNL inner containers, and maintenance on the HEUNL inner containers.

During the closed portion of the meeting, NAC provided an overview of the package with the HEUNL inner containers and details of the analysis for each of the technical disciplines. NAC discussed the evaluation and results of the tests for normal conditions of transport and hypothetical accident conditions and how those results affected the containment, shielding, and criticality evaluations. NAC provided results of the containment, shielding, and criticality evaluations and compared those results to acceptance criteria in Title 10 of the *Code of Federal Regulations* Part 71. There was significant discussion on the questions NRC generated from its acceptance review.

M. Lombard

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Copies of the presentation slides are provided as Enclosure Nos. 3 (proprietary) and 4 (non-proprietary).

Docket No. 71-9225

TAC No. L24708

Enclosures:

1. Meeting Attendees
2. Agenda
3. Presentation Slides (proprietary)
4. Presentation Slides (non-proprietary)

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Distribution: NRC Attendees M. Sampson D. Marcano

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ADAMS P8 Package No.: ML13046A032 ADAMD P8 Memo No.: ML13046A034

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NAME	BWhite		MDeBose		MSampson	
DATE	2/11/13		2/12/13		2/14/13	

"C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy
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**January 28, 2013, Partially Closed Public Meeting
Between NAC International and
the Nuclear Regulatory Commission**

MEETING ATTENDANCE LIST

Bernie White	NRC/SFST
Meraj Rahimi	NRC/SFST
Bob Einziger	NRC/SFST (via phone)
Craig Hrabal	NRC/SFST (via phone)
Jason Piotter	NRC/SFST (via phone)
Joseph Borowsky	NRC/SFST
JoAnn Ireland	NRC/SFST
Tony Hsia	NRC/SFST
Daniel Forsyth	NRC/SFST
John Vera	NRC/SFST
Wren Fowler	NAC International (via phone)
Kim Harden	NAC International (via phone)
Anthony Patko	NAC International
Holger Pfeifer	NAC International
John Ritchie	NAC International
Mike Yaksh	NAC International
Natalie Sacher	AECL (via phone)
Ken Franklin	AECL (via phone)
Mark Chapman	AECL (via phone)
Jeff Galan	Savannah River Site (via phone)

Agenda
Model No. NAC-LWT
Partially Closed Meeting
January 28, 2013 1:00 - 4:00 p.m.

Purpose: To discuss an amendment to Model No. NAC-LWT to add high enriched uranyl nitrate as authorized contents.

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| 1. Introduction/Opening Remarks | NRC/NAC |
| 2. Licensing and Schedule Considerations | NAC |
| 3. Technical Discussions | NAC/NRC |
| 4. Public Comments/Questions | Public/NAC/NRC |
| 5. Structural Discussion – Closed to the Public | NAC |
| 6. Thermal Discussion – Closed to the Public | NAC |
| 7. Shielding Discussion – Closed to the Public | NAC |
| 8. Criticality Discussion – Closed to the Public | NAC |
| 9. Questions and Answers – Closed to the Public | NRC/ NAC |
| 10. Closing Remarks | NRC/NAC/ |