



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 9, 2016

MEMORANDUM TO: Anthony Hsia, Deputy Director
Division of Spent Fuel Management, NMSS

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

SUBJECT: SUMMARY OF JUNE 28, 2016, MEETING WITH THE NORDION
INTERNATIONAL

Background

A meeting was held on June 28, 2016, in Rockville, Maryland, between the U.S. Nuclear Regulatory Commission (NRC), Nordion International, its partners General Atomics and AREVA Federal Services to discuss certification of a new waste package.

The meeting was noticed on June 14, 2016 (see Agencywide Documents Access and Management System (ADAMS) Accession No. ML16167A300). The meeting attendance list is provided as Enclosure No. 1, the non-proprietary presentation slides are provided in Enclosure No. 2, the proprietary presentation slides are provided in Enclosure No. 3.

Discussion

The discussion had four main topics, an introduction to the project; high-level description of the process; package certification plans; and discussion of the quality assurance (QA) requirements. Nordion has partnered with General Atomics and the Missouri University Research Reactor in the production of Mo-99. The main part of the discussion centered on obtaining NRC certification for the Model No. F-339 (or a variant of the F-339) for shipments of waste from the MURR facility. The F-339 package was initially approved in 1991 in Canada to transport waste.

Nordion provided an overview of the package design and discussed the testing it performed to obtain package certification in Canada. Nordion performed four drop tests for hypothetical accident conditions on the F-339 package. Nordion discussed the drop tests and their results.

CONTACT: Bernard H. White, DSFM/NMSS
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Nordion had some questions regard NRC's QA requirements. Prior to 2012, Nordion had a full-scope QA plan approved by the NRC. In 2012, their plan was reduced to a limited-scope QA plan for package users, which limits them to use, maintenance, repair, and procurement. Nordion stated that it has an F-339 package which fabrication was completed in 2012 under the limited-scope QA plan. Nordion had questions as to whether it could use that package in the U.S. even though fabrication was completed with a limited scope QA plan, instead of a full-scope QA plan. Further discussions will be needed on this topic.

Docket No.: 71-9376

TAC Number: L25125

Enclosures:

1. Meeting Attendees
2. Non-Proprietary Presentation Slides
3. Proprietary Presentation Slides

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Distribution: NRC Attendees

G:\SFST\BERNIE WHITE\MEETINGS\NORDION MTG\SUMMARY FOR 6-28-16 MTG WITH NORDION.DOCX

ADAMS Package No.: ML16223A818 ADAMS Memo No.: ML16223A825

Encl 2: ML1616223A907 Encl 3: ML16224A012

OFC	DSFM	DSFM	DSFM
NAME	BWhite	SFiguroa via email	JMcKirgan
DATE	7/25/16	7/26/16	8/9/16

MEETING ATTENDEES

Meeting Title: Pre-application meeting with Nordion International

Participants: Nordion International and the NRC

Date: June 28, 2016, 1:00 – 3:00 p.m.

Location: U.S. NRC Headquarters, OWFN 16-B-04

Name	Affiliation
Bernie White	NRC/NMSS/DSFM
Meraj Rahimi	NRC/NMSS/DSFM
John McKirgan	NRC/NMSS/DSFM
Jason Piotter	NRC/NMSS/DSFM
Jeremy Tapp	NRC/NMSS/DSFM
Patricia Silva	NRC/NMSS/DSFM
Greg Fulford	Nordion
Mike Krzaniak	Nordion
Bob Tripathi	NRC/NMSS/DSFM
Shadi Grayeb	NRC/NMSS/DSFM
Sergio Gonzalez	NRC/NMSS/DSFM
Zhian Li	NRC/NMSS/DSFM
On the phone	
Cathy Murray	GA
Richard Smith	AREVA Federal Services
Phil Noss	AREVA Federal Services
Donna Gilmore	Member of the Public