

November 30, 2005

MEMORANDUM TO: William H. Ruland, Deputy Director
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

FROM: Jose R. Cuadrado, Project Engineer /RA/
Licensing Section
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF NOVEMBER 17, 2005, MEETING WITH NUCLEAR
PROTECTION PRODUCTS AS

On November 17, 2005, staff from the Spent Fuel Project Office (SFPO) held a public meeting with representatives from Nuclear Protection Products AS (NPP), at the U.S. Nuclear Regulatory Commission (NRC) Headquarters in Rockville, MD. The purpose of the meeting was to discuss NPP's preliminary design proposal for a high-level waste transportation and disposal container. No regulatory decisions were made nor requested at this meeting.

Among the topics discussed, the following are highlighted:

- NPP is a Norway-based company that, in collaboration with the Institute for Energy Technology (IET), seeks to design and certify a "cradle-to-grave" spent fuel container system that will address transportation and final disposition in the high-level waste repository. The IET is the research institute for energy and nuclear technology in Norway. Among its many research activities, IET operates the Halden Boiling Water Reactor at Halden, Norway.
- Although NPP has not selected a final design concept for the container, its preliminary concept for the container consists of an inner and outer plastic shell that encases a layer of lead for radiation shielding. The proposed concept calls for each container to hold a single spent fuel assembly that will be "fixed" in place with a solid backfill material. NPP's proposal for transportation includes transferring several of these containers into a transportation cask with impact limiters. NPP stated that the primary objective of its proposed canister design is to meet the needs of a disposal canister for the high-level waste repository in Yucca Mountain, Nevada.
- NRC staff provided NPP a brief overview of NRC's responsibilities under the Nuclear Waste Policy Act of 1982, and a brief summary of several provisions in 10 CFR Part 71 and Part 72 that are relevant to the proposed design. The staff pointed out several provisions of the regulations that NPP will need to examine more closely to determine whether the proposed design concept will be able to meet the regulations. NRC staff explained to NPP that although NRC is responsible for certification of spent fuel transportation packages, it could not provide any advice regarding the suitability of the proposed design for use as a final disposition container for the high-level waste repository. NRC also explained that although NPP does not foresee the need for its

proposed container to be certified for interim storage, it is possible that temporary storage may become necessary prior to final disposition, and, therefore, compliance with interim storage regulations will likely be required.

- NRC staff advised NPP to discuss its proposed design concept with the Department of Energy's Office of Civilian Radioactive Waste Management, in order to determine the suitability of the proposed design to meet the needs of the high-level waste repository.

No handouts were provided at the meeting. The meeting attendance list is attached.

Attachment: Attendance List

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No handouts were provided at the meeting. The meeting attendance list is attached.

Attachment: Attendance List

DISTRIBUTION:

NRC Attendees SBaggett LKokajko MShah MBailey

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OFC:	SFPO	E	SFPO	E	SFPO	
NAME:	JCuadrado*	MDeBose*		RNelson		
DATE:	11/29/05		11/29/05		11/30/05	

OFFICIAL RECORD COPY

**Meeting between Nuclear Protection Products AS
and the Nuclear Regulatory Commission**

NRC Headquarters

November 17, 2005

ATTENDANCE LIST

NAME	ORGANIZATION
Jose Cuadrado	NRC/NMSS/SFPO
Bill Brach	NRC/NMSS/SFPO
Wayne Hodges	NRC/NMSS/SFPO
Robert Nelson	NRC/NMSS/SFPO
Larry Campbell	NRC/NMSS/SFPO
Gordon Björkman	NRC/NMSS/SFPO
Ben Wilson	NRC/NMSS/SFPO
David Tang	NRC/NMSS/SFPO
Jerry Chuang	NRC/NMSS/SFPO
Jim Pearson	NRC/NMSS/SFPO
Bob Shewmaker	NRC/NMSS/SFPO
Ron Parkhill	NRC/NMSS/SFPO
Nancy Osgood	NRC/NMSS/SFPO
Geoff Hornseth	NRC/NMSS/SFPO
Bob Einziger	NRC/NMSS/SFPO
Bob Tripathi	NRC/NMSS/SFPO
Jason Piotter	NRC/NMSS/SFPO
Jill Caverly	NRC/NMSS/SFPO
Chris Bajwa	NRC/NMSS/SFPO
Harold Adkins	Battelle/PNNL
Rich Carlson	ADI/NPP
Knut Fangberget	ADI/NPP
Per Varskog	Norse Decom AS
Tore Ramsøy	Institute for Energy Technology
Tor E. Marthinsen	Nuclear Protection Products AS
Jan Erik Hager	Nuclear Protection Products AS
Maureen Conley	Platts/McGraw-Hill
Paul Highberger	JAI