June 9, 2009

MEMORANDUM TO: Nader Mamish, Deputy Director
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

FROM: Michele Sampson, Senior Project Manager **/RA/**
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF MAY 14, 2009, MEETING WITH WESTINGHOUSE ELECTRIC COMPANY, REGARDING THE MODEL NO. TRAVELLER TRANSPORTATION PACKAGE

Background.

On May 14, 2009, a meeting was held in Rockville, Maryland, at the request of Westinghouse Electric Company (WEC) to discuss the Model No. Traveller transportation package (including the Traveller STD and Traveller XL designs). The purpose of the meeting was to discuss the renewal schedule and the scope of a future amendment request for the Traveller package. In addition to the Traveller application, WEC briefly discussed an additional foreign package and the possible paths forward for authorizing use of the package in the U.S. No proprietary information was discussed at the meeting. No regulatory decisions were requested nor made at the meeting.

The meeting was noticed on May 1, 2009 [ML091210679]. The list of meeting attendees is provided as Enclosure 1. The meeting handouts are provided as Enclosure 2 [ML091590333].

Discussion.

Certificate of Compliance (CoC) No. 9297, Revision No. 2, for the Model Nos. Traveller STD and Traveller XL package expires on March 15, 2010. WEC indicated their intent to submit the renewal application in advance of the required 30 days prior to expiration. The package is used for international transport, and early renewal will enable WEC to obtain the DOT and foreign revalidations necessary to support uninterrupted international shipments.

To accommodate the availability of the NRC's Spent Fuel Storage and Transportation technical staff, WEC modified the order of their presentation. After a brief review of the timeline for renewal for the Traveller package, WEC moved directly to the Traveller VVER portion of the presentation. In 2005, WEC began a program to develop a design modification to the Traveller XL packaging to accommodate VVER fuel. The hexagonal shape of the VVER fuel assembly requires a revised design for the internal clamshell structure of the Traveller XL packaging. A prototype was fabricated in 2008. WEC presented an overview of the design changes to accommodate the VVER assemblies and their proposed criticality safety analysis methodology. GNF anticipates submitting the amendment request to include the VVER fuel assembly contents

and associated design changes will be submitted to the NRC in the last quarter of calendar year 2009.

WEC then provided a general overview of the Traveller package design and use. WEC has identified a proposed change to the internal clamshell top door design. The currently authorized design does not provide sufficient room to accommodate clearance for handling tools at all user locations or the inclusion of hardware, such as a rod cluster control assembly into the package. WEC described their proposed new “shear lip” removable top plate design for the clamshell and the finite element analysis model they are developing for the structural analysis. WEC also anticipates submitting this amendment request in the last quarter of calendar year 2009.

In addition to the design modification amendment requests, WEC may request the Traveller package design certification change from Type AF-96 to a Type B(U)-96, to include future fuel contents which might have been fabricated from recycled or reprocessed uranium.

WEC also discussed the NRC’s quality assurance requirements and their applicability to packages manufactured outside the U.S. Staff confirmed that these packages must comply with all provisions of 10 CFR Part 71, including the quality assurance requirements of Subpart H.

WEC identified that they are considering use of the Embrace model package, certified by Sweden S/50/IF-96, for domestic transport of fresh fuel rods. Staff confirmed that U.S. transport regulations, 10 CFR Part 71 and the Department of Transportation regulations at 49 CFR Parts 100-185, do not currently provide for the use or certification of fissile industrial type packaging. The only options for certification by the NRC would be to apply for either a Type AF-96 or Type B(U)F-96 packaging approval. WEC indicated that it was unlikely they would make this submittal in calendar year 2009.

Docket No. 71-9297
TAC No. L24342

Enclosures:
1. Meeting Attendees
2. Meeting Handouts

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DISTRIBUTION:
SFST r/f NRC Attendees

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Meeting Attendees
GNF-A and NRC Meeting
April 28, 2009, 1:00 p.m. – 3:30 p.m.

| NAME | AFFILIATION | PHONE NUMBER |
|---|---|---|
| Norman Kent | Westinghouse Electric Co. | 803-647-3552 |
| Peter Vescovi | Westinghouse Electric Co. | 803-647-3167 |
| Michele Sampson | NRC/NMSS/SFST | 301-492-3292 |
| Jennifer Davis | NRC/NMSS/SFST | 301-492-3371 |
| Christopher Regan | NRC/NMSS/SFST | 301-492-3327 |
| Larry Campbell | NRC/NMSS/SFST | 301-492-3295 |
| Natreon Jordan | NRC/NMSS/SFST | 301-492-3288 |
| Ata Istar | NRC/NMSS/SFST | 301-492-3409 |
| Jeremy Smith | NRC/NMSS/SFST | 301-492-3340 |
| Bob Tripathi | NRC/NMSS/SFST | 301-492-3281 |
| Alexis Sotomayor | NRC/NMSS/SFST | 301-492-3291 |
| Rob Temps | NRC/NMSS/SFST | 301-492-3320 |