December 29, 2000

MEMORANDUM TO: Stuart A. Richards, Director
Project Directorate IV & Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: L. Raynard Wharton, Project Manager, Section 2
Project Directorate IV & Decommissioning ***/RA/***
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MEETING HELD ON OCTOBER 17, 2000, WITH WESTINGHOUSE ELECTRIC COMPANY (W) TO DISCUSS UPDATED FUEL LICENSING CRITERIA

On October 17, 2000, representatives of the Westinghouse Electric Company (W) met with the NRC staff to discuss their updated fuel licensing criteria. Attachment 1 contains the list of meeting attendees. Non-proprietary copies of the slides used during the meeting are available under ADAMS accession number ML003761666.

W began the meeting with an overview of the agenda. W then discussed the need for updated fuel criteria and the differences between current criteria and proposed criteria. They stated that the proposed criteria would incorporate stresses consistent with ASME Code Section III requirements. There was discussion of the specific parameters: fuel assembly structural hydrogen, fuel cladding transient strain, and fuel rod stress. They discussed results of reviewed Westinghouse data on the effects of hydrogen content on material strength and ductility. Based on industry data from Siemens and Combustion Engineering, some conclusions were drawn. The ductility decrease observed in zircaloy was primarily due to irradiation. There was further discussions of the effects of hydrogen content on zircaloy tensile strength and yield. W also discussed specifics of various unirradiated specimens.

W expressed plans to submit an addendum to its WCAP that will provide more detail on the updated fuel design. There was discussion of the proposed licensing approach to update the topical report. The addendum will also include revised referencing to WCAPs. The proposed schedule for the addendum submittal is first quarter 2001. W stated that the although the review priority is not urgent, they believe this approval will align them better with the industry.

Project No. 700

Attachment: List of Attendees

cc w/att: See next page

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cc:
Mr. Andrew Drake, Project Manager
Westinghouse Owners Group
Westinghouse Electric Corporation
Mail Stop ECE 5-16
P.O. Box 355
Pittsburgh, PA 15230-0355

Mr. Jack Bastin, Director
Regulatory Affairs
Westinghouse Electric Corporation
11921 Rockville Pike
Suite 107
Rockville, MD 20852

MEETING WITH WESTINGHOUSE ELECTRIC COMPANY

MEETING ATTENDEES

UPDATED FUEL LICENSING CRITERIA

OCTOBER 17, 2000

WESTINGHOUSE

W. Slagle
D. Colburn
D. Mitchell
Z. Karoutas
I. Fiero
C. Molnor
W. Leech
S. Ray

NRC

R. Wharton
S. Wu
S. Dembek
M. Chatterton
R. Caruso