

September 17, 2003

MEMORANDUM TO: Stephen Dembek, Chief, Section 2
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Brian Benney, Project Manager, Section 2 **/RA/**
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MEETING HELD AUGUST 7, 2003, WITH
WESTINGHOUSE (TAC NO. MB8997)

On August 7, 2003, representatives of Westinghouse met with the NRC staff to discuss the safety evaluation (SE) of WCAP-15987-P, Revision 2, "Technical Basis for the Embedded Flaw Process for Repair of Reactor Vessel Head Penetrations."

Westinghouse discussed its capabilities for inspection of head penetrations, as well as post repair inspections. Westinghouse claimed that inspection of the J-groove weld repair through the overlay material from the underside of the head into the pre-existing J-groove weld was not practical. Westinghouse suggested that a potential alternative examination of the J-groove weld to penetration interface from the penetration inside diameter (ID) might meet the intent of the ultrasonic testing (UT) examination requirement of the J-groove weld repair. The staff indicated it would consider the suggestion, but since it was not in a position to make an immediate determination of acceptability, the staff would document its consideration as part of this meeting summary. The staff also explained to Westinghouse that they must have demonstration data including multiple transducer sizes and frequencies, examination angles, wave characteristics [phase array, shear, and longitudinal waves] on representative microstructures in order to demonstrate UT failure. Westinghouse also discussed some clarifications that could make the SE seem less ambiguous. The staff agreed with some of the changes. At the end of the meeting, the staff expressed its appreciation to Westinghouse for the presentation, and promptly made independent editorial changes and issued the SE.

The staff has evaluated Westinghouse's suggestion and concludes that the alternative (UT of the J-groove weld to penetration interface from the penetration ID) is not equivalent to a UT examination of the overlay/J-groove weld interface through the overlay material. Such an examination must be conducted using a demonstrated procedure. As discussed above, Westinghouse must demonstrate with data that such an examination is impractical.

An attendance list is provided in the attachment. The non-proprietary slides used during the meeting are available in ADAMS under accession number ML032340650.

Project No. 700

Attachment: Meeting Attendees

cc w/att:

Mr. Henry A. Sepp, Manager
Regulatory and Licensing Engineering
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230-0355

Mr. Gordon Bischoff, Project Manager
Westinghouse Owners Group
Westinghouse Electric Company
Mail Stop ECE 5-16
P.O. Box 355
Pittsburgh, PA 15230-0355

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MEETING ATTENDEES

MEETING WITH WESTINGHOUSE ELECTRIC COMPANY

AUGUST 7, 2003

WESTINGHOUSE

J. Galembush
J. Crane
W. Bamford
B. Bevilacqua
J. (Jack) Lareau

NRC

B. Benney
T. Chan
D. Naujock
K. Wichman