

October 8, 2003

ORGANIZATION: Westinghouse Electric Corporation

SUBJECT: SUMMARY OF MEETING HELD ON SEPTEMBER 16, 2003, TO  
DISCUSS CONSTRUCTION SCHEDULING

The Nuclear Regulatory Commission (NRC) held a closed meeting with Westinghouse on September 16, 2003, at Westinghouse's office in Pittsburgh to discuss construction scheduling. The purpose of the meeting was for the staff to better understand the modular construction techniques for nuclear power plants. The staff intends to use the information to determine how best to develop inspection manual chapters and inspection procedures to verify inspections, tests, analyses, and acceptance criteria (ITAAC). The meeting was closed because it was determined that the information to be discussed contained proprietary commercial information. The staff made this proprietary determination in a letter dated September 11, 2003 (ADAMS Accession No. ML032510836). A list of attendees is provided in the Enclosure.

Prior to the meeting the staff reviewed the AP600 ITAAC to compare the acceptance criteria to the existing NRC construction inspection procedures. The purpose of the review and comparison was to identify any areas that would require significant effort to develop procedures for guidance on inspecting and verifying the completion of ITAAC. The results of this comparison are contained in Appendix H of the "Draft 10 CFR Part 52 Construction Inspection Program Framework Document," May 2003 (ADAMS Accession No. ML031400849). As a follow up to this effort the staff reviewed ITAAC associated with welding to attempt to determine how much NRC inspection should be done in this area. The staff provided Westinghouse a list of questions related to its review of the AP600 welding ITAAC that may have applicability to the AP1000 ITAAC (ADAMS Accession No. ML032720714). Westinghouse stated that it would review the questions and determine if there would be any impact on the AP1000 ITAAC.

During the meeting the staff questioned Westinghouse regarding the use of modular construction and how it might affect the NRC's independent inspections of this process. Westinghouse stated that the AP600/AP1000 design has approximately 350 modules and that contracts would be negotiated with several shipyards and pipe shops to perform the work. In addition to welding performed onsite, Westinghouse stated that welding could be taking place at several offsite locations. Westinghouse stated that the number of shipyards/pipe shops that would be performing nuclear grade welding (i.e., to ASME Code Section III requirements) would be a smaller subset of the shipyards/pipe shops involved in the construction of the modules. This is because not all the modules involve nuclear-grade welding. Westinghouse also indicated with that if a series of AP600/AP1000 were built there is no guarantee that the contractors involved in the construction of the modules would remain the same throughout (e.g., the first units may have 2 shipyards performing nuclear-grade welding while the next set of units could have 3 shipyards performing this work).

The staff stated that it would be helpful if Westinghouse could supply the following information so that it could develop its inspection guidance for ITAAC welding verifications:

- a copy of general arrangement drawings
- a copy of six representative module books that provide the detailed construction information for the modules
- if possible, the number of welds in the AP600/AP1000 design broken down by code level.

Regarding the first two items, the staff stated that because the information will be used for general information and will not form the basis of a safety determination it does not have to be docketed and will be returned to Westinghouse or destroyed by the staff when the staff has completed its review. Under this condition, Westinghouse agreed to supply a compact disc containing the information to the staff. Regarding the last item, Westinghouse indicated that it would take more time to assemble this information.

*/RA/*

Joseph M. Sebrosky, Senior Project Manager  
New Reactors Section  
New, Research and Test Reactors Program  
Division of Regulatory Improvement Programs, NRR

Project No. 689

Enclosure: As stated

cc w/encl: See next page

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ADAMS ACCESSION NO: ML032720614

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**OFFICIAL RECORD COPY**

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Distribution for Meeting Summary dated October 8, 2003

Hard Copy

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BMusico

NIqmbal

PQualls

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DCoe

MEI-Zeftway

**Meeting**  
**With the Westinghouse**  
**September 16, 2003**

**Attendance List**

<b><u>Name</u></b>	<b><u>Organization</u></b>
Mary Ann Ashley	NRR/DIPM/IIPB
Joe Sebrosky	NRR/DRIP/RNRP
Chuck Paulk	NRC Region IV
Ron Gardner	NRC Region III
Phil Wagner	NRC consultant
Michael Corletti	Westinghouse
Jim Winters	Westinghouse
Tom Johnson	Westinghouse
Yoshi Hyshi	Westinghouse
Russ Bell	Nuclear Energy Institute at Westinghouse's invitation

Enclosure