

March 6, 2002

APPLICANT: Westinghouse Electric Company

FACILITY: AP1000 Standard Plant Design

SUBJECT: SUMMARY OF MEETING ON AP1000 PRE-APPLICATION REVIEW

The subject meeting was held on January 23, 2002, at the U.S. Nuclear Regulatory Commission (NRC) offices in Rockville, Maryland, and was attended by representatives of Westinghouse and the NRC staff. A list of participants, the agenda, and copies of the presentation slides are enclosed.

The presentations and discussion dealt with the staff's assessment of the applicability and/or acceptability of the AP600 scaling/testing, safety analysis codes, design acceptance criteria (DAC), and regulatory exemptions to the AP1000 design. The major points covered were:

1. The staff informed Westinghouse that the AP600 scaling, testing and safety analysis codes are, in general, applicable to the proposed AP1000 design. The staff pointed out, however, that certain analytical models employed in the codes need to be improved and/or verified. In particular, a better understanding of the liquid entrainment phenomena (both in the upper reactor plenum and in the horizontal pipes) is needed. Possible solutions include additional experiments, benchmark calculation against other well-established models, sensitivity study, or a combination of these options. Westinghouse understood, and basically accepted the staff's concerns.
2. Regarding the proposed use of DAC, the staff presented its position that the DAC approach should be limited only to technical areas affected by rapidly evolving technologies (i.e., to instrumentation and control and human factors) or areas in which as-built or as-procured information is not available. Westinghouse provided information to support its contention that DAC should also be allowed for the AP1000 piping design, as was the case with previously certified evolutionary designs (i.e., ABWR and System 80+).
3. The staff also discussed its position that, based on the AP600 design certification review and the information provided for the AP1000 pre-application review, the regulatory exemptions granted for the AP600 are expected to be justifiable for the AP1000 design certification review.

/RA/

Lawrence J. Burkhart, AP1000 Project Manager  
New Reactor Licensing Project Office  
Office of Nuclear Reactor Regulation

Project 711

Enclosures: As stated  
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cc w/encls: See next page

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DATE	3/5/2002	3/5/2002

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**AP100 PHASE 2-NRC STAFF MEETING WITH WESTINGHOUSE**

**JANUARY 23, 2002, OWFN - ROOM O-10-B-4**

**Attendance List**

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