



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

January 3, 1997

APPLICANT: Westinghouse Electric Corporation
FACILITY: AP600
SUBJECT: SUMMARY OF MEETING TO DISCUSS WESTINGHOUSE AP600 FIRE PROTECTION ANALYSIS

The subject meeting was held at the Westinghouse Electric Corporation (Westinghouse) office in Rockville, Maryland, on November 19, 1996, between John Butler, Jim Winters, and Don Hutchings of Westinghouse and Jeff Holmes, Jim Lyons, and Diane Jackson of the Nuclear Regulatory Commission (NRC) staff. The purpose of the meeting was to discuss certain unresolved open items related to standard safety analysis report (SSAR) Section 9.5.1 and 9A. The open item tracking system (OITS) should be updated to reflect this meeting.

OITS# 314 - Action Westinghouse

Westinghouse described its fire protection configuration for safety-related and non safety-related systems. The initial water source for safety-related fire hose stations is the passive containment cooling system (PCS) tank. A manual valve is available to switch to the underground non safety-related fire main system. The PCS water source has a maximum, gravity-driven flow capacity of 75 gpm to the farthest two fire stations. The staff expressed a concern regarding this limited amount of water for the initial fire protection response.

Westinghouse will investigate a change to the PCS. The non-safety-related, high flow, firemain would be the initial water supply for fire protection, rather than the PCS tank. A manual valve would be available to supply water from the PCS. A COL action item would be added to instruct the operator to open the connection valve.

OITS# 309 - Action Westinghouse

The staff requested clarification on the AP600 zone of influence and discussed the use of fire barriers.

- (a) Westinghouse will revise the SSAR to indicate "zone of influence" is not used outside of the containment. Inside the containment, zone of influence is defined as a fire zone.
- (b) Westinghouse will review the description of fire zone separation in Appendix 9A, including a discussion of 3-hour fire barriers around main cable runs.
- (c) Westinghouse will provide, by letter, a sketch of the ADS module indicating the valve arrangement and structural steel thickness.

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- (d) Westinghouse will review the SSAR description to ensure the use of 3-hour fire barriers that are non-combustible inside the containment.

OITS# 308 - Action NRC/ Action Westinghouse

The staff expressed a concern regarding the assurance of sufficient fire protection water designated in post-72 hour consumables.

The staff will discuss internally the adequacy of the post-72 hour consumables.

Westinghouse will provide the letter number and date for the SECY response on post-72 hour actions and consumables.

OITS# 323 - Action Westinghouse

The staff requested clarification of the design considerations for smoke control.

Westinghouse will confirm applicability of certain standards to the AP600 and revise the SSAR as necessary.

The staff will provide certain fire protection codes regarding smoke control that need to be reviewed for applicability to the AP600.

The staff provided a list of the following codes to Westinghouse following the meeting.

- 1) NFPA 90A - Air conditioning and ventilation systems
- 2) NFPA 92B - Guide for smoke management systems in malls, atriums, and large areas
- 3) NFPA 92A - Recommendations and practices for smoke control systems
- 4) ASHRAE standard - Smoke control systems for buildings

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Docket No. 52-003

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Westinghouse Electric Corporation

Docket No. 52-003

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