

July 25, 1997

MEMORANDUM TO: Theodore R. Quay, Director  
Standardization Project Directorate  
Division of Reactor Program Management, NRR

FROM: Joseph M. Sebrosky, Project Manager original signed by:  
Standardization Project Directorate  
Division of Reactor Program Management, NRR

SUBJECT: NOTICE OF MEETING WITH WESTINGHOUSE TO DISCUSS THE AP600  
STRUCTURAL DESIGN OF NUCLEAR ISLAND STRUCTURES

DATE AND TIME: August 4, through August 8, 1997 - 8 a.m. - 5 p.m.  
August 11 through August 15, 1997 - 8 a.m. - 5 p.m.

LOCATION: Westinghouse Electric Corporation  
One Montrose Metro  
11921 Rockville Pike  
Rockville, Maryland 20852  
Suite 107

PURPOSE: The purpose of the meeting is to complete the review of the seismic and structural design of the AP600 nuclear island structures including the nuclear island foundation mat. A draft agenda is attached.

PARTICIPANTS\*: NRC WESTINGHOUSE

G. Bagchi R. Orr  
T. Cheng D. Lindgren, et al.  
J. Sebrosky, et al.

Docket No. 52-003

Attachment: As stated

cc w/att: See next page

\*Meetings between the NRC technical staff and applicants or licensees are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to "Commission Policy Statement on Staff Meeting Open to the Public," 59 Federal Register 48344, 9/20/94. However, portions of this meeting may be closed to protect Westinghouse proprietary information. Members of the public who wish to attend should contact me at (301) 415-1132.

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Westinghouse Electric Corporation

Docket No. 52-003

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Agenda for the Final Review Meeting of  
Structural Design of AP600 Nuclear Island Structures

Date: August 4 through August 8, 1997

Topics:

1. Review the construction sequence, possible interface problems and the generation of loads due to the construction sequence for the design of the foundation mat and lower elevation structures.
2. Review the site conditions (for example, uniform and non-uniform sites) and geotechnical related issues including the characterization of the soil stiffness variability with the foundation mat foot print.
3. Review the final design calculations of critical sections related to the foundation mat and exterior embedded walls.
4. Resolve issues identified from the review of SSAR revision changes, if any.
5. Resolve open issues related to SSAR Sections 2.5.4, 3.7.2 (SSI) and 3.8.5.

Date: August 11 through August 15, 1997

Topics:

1. Review the model revision and new SASSI analysis (incorporation of design changes due to post-72 hour actions, and live and snow loads in the seismic model and analysis results) of the nuclear island structures. The staff review will also cover the adequacy of the site condition selected by Westinghouse for the new SASSI analysis.
2. Review the new 3D ANSYS analysis (modeling and results) of the shield building roof structures (including the PCCWST and fire tank). The staff review will also cover the adequacy of the revised model due to design changes of the increased water flow required for post-72 hour actions, and the incorporation of snow load in the 3D model.
3. Review Westinghouse's justification of the design adequacy of the steel containment shell against the thermal shock due to post-72 hour actions.
4. Review design calculations for critical sections of the auxiliary building and shield building roof structures (including the PCCWS tank).
5. Review the design of the fire protection system tank (FPST).
6. Resolve issues identified from the review of SSAR revision changes, if any.
7. Resolve open issues related to SSAR Sections 3.7.1, 3.7.2, 3.8.2 and 3.8.4.