

52-003



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 6, 1995

APPLICANT: Westinghouse Electric Corporation
PROJECT: AP600
SUBJECT: SUMMARY OF TELEPHONE CONFERENCE TO DISCUSS AP600 DESIGN ISSUES INVOLVING OPEN ITEMS IN CHAPTERS 6 AND 9 FROM THE PLANT SYSTEMS BRANCH

The subject telephone conference was held on October 4, 1995, between representatives of Westinghouse Electric Corporation (Westinghouse) and the Nuclear Regulatory Commission (NRC) staff. The purpose of the conference was to discuss several draft safety evaluation report (DSER) open items (OI) regarding standard safety analysis report (SSAR) Chapters 6 and 9. Don Lindgren and Mark Wills represented Westinghouse and Janak Raval, Jim Lyons, John Segala and Diane Jackson represented the NRC. A discussion sheet was faxed to Westinghouse on September 5, 1995. Attachment 1 is the discussion sheet that lists the open items needed to be discussed from the Plant Systems Branch. In the teleconference, Westinghouse actions in response to open items from Sections 6.4 and 9.4 and additional questions from the discussion sheet were reviewed.

Additional Questions:

- 3.a The staff expressed the need for an updated Table 3.2-3 and Sections 6.4 and 9.4 drawings. The staff stated that if non-safety related systems were not in the table, then a description needed to be included in the text with the same information.
- 3.b.i & 3.c The staff requested the status of RAI responses for 410.234 and 410.244 through 410.248, which have not been submitted. Westinghouse stated they would check on the RAI responses.
- 3.b.ii NEW OPEN ITEM: The staff stated that Westinghouse needed to add COL action items in Section 9.4 (as explained in the discussion sheet). Westinghouse stated that Bechtel would have to be consulted before they could commit to the COL action items.
- 3.b.iii NEW OPEN ITEM: The staff expressed a concern on the use of ASME Section VIII air tanks for the safety related emergency air ventilation system (VES) vice the use of ASME Section III air tanks. Westinghouse stated that Millstone 3 currently relies on ASME Section VIII tanks for 1 hour. The staff noted that the AP600 would rely on the tanks for 72 hours and that Millstone's tanks were part of a non-safety backup system. Westinghouse stated they would send a justification for the use of ASME Section VIII air tanks to the staff.

QFO
11

9511090261 951106
PDR ADDCK 05200003
A PDR

NRC FILE CENTER COPY

Westinghouse provided a justification for using ASME Section III air tanks via letter NTD-NRC-95-4574 dated October 9, 1995. In a follow telephone call, Westinghouse stated it is still considering how to incorporate the information into the SSAR.

Action NRC: Document under review

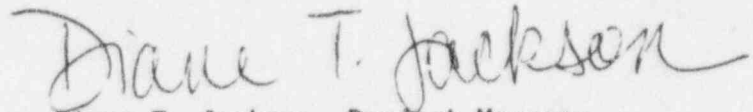
- 3.b.iv NEW OPEN ITEM: In regards to how GOTHIC models the annex and turbine building temperatures, the staff requested more detailed information on the nodal diagram for the VES, including the temperature used for the control room walls. Westinghouse stated they would provide assumptions, inputs, and the results to support that the temperature change would be limited to 8.3°C (15°F).
- 3.b.v NEW OPEN ITEM: Since the VES does not have a means to control humidity, Westinghouse needs to demonstrate that both equipment and human performance will not be adversely affected by the highest humidity in the control room during the first 72 hours of an accident. Westinghouse stated that this would require a lot of work and committed to look into an acceptable approach.
- 3.b.vi NEW OPEN ITEM: See discussion sheet for details. Additionally, Westinghouse will revise figures in Section 3.D.5 on Equipment Qualification, including creating 3 figures: (1) control room (2) I&C room and (3) DC equipment room. Westinghouse will explain the role of the 24-hour battery and include a pointer in the SSAR to the section that describes the items that the batteries supply power to.
- 3.b.vii NEW OPEN ITEM: See discussion sheet for details.
Action W: Westinghouse will consult with Bechtel and respond.

The status of the open items that changed due to discussions in the telephone conferences are detailed below:

| OI No. | DSER OI No. | Status and Action detail |
|--------|-------------|---|
| 198 | 6.4 | Action W: Westinghouse will respond to RAI 410.248 |
| 199 | 6.4 | Action W: Westinghouse to provide a detailed response in the SSAR regarding the criteria for meeting control room CO ₂ requirements. |

November 6, 1995

Action N: NRC to discuss with HHFB the physiological studies provided by Westinghouse in support of exceeding the OSHA CO₂ limits.



Diane T. Jackson, Project Manager
Standardization Project Directorate
Division of Reactor Program Management
Office Of Nuclear Reactor Regulation

Docket No. 52-003

Attachment: As stated

cc w/attachment:
See next page

November 6, 1995

Action N: NRC to discuss with HHFB the physiological studies provided by Westinghouse in support of exceeding the OSHA CO₂ limits.

original signed by:

Diane T. Jackson, Project Manager
Standardization Project Directorate
Division of Reactor Program Management
Office Of Nuclear Reactor Regulation

Docket No. 52-003

Attachment: As stated

cc w/attachment:
See next page

DISTRIBUTION w/attachment:

Docket File
PUBLIC
PDST R/F
RArchitzel
TKenyon
WHuffman
DJackson
Mfranovich

DISTRIBUTION w/o attachment:

WDean, EDO
EJordan, T-4 D18
JMoore, 0-15 B18
DCrutchfield
BGrimes
TQuay
JRaval, 0-8 D1
JLyons, 0-8 D1

DOCUMENT NAME: A: OCT4TEL

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

| | | | | | | |
|--------|-------------|-----------|--------------|--|--|--|
| OFFICE | PDST:DRPM | DSSA/SPLB | SC:PDST:DRPM | | | |
| NAME | DJackson:sg | JRaval | RArchitzel | | | |
| DATE | 10/27/95 | 10/31/95 | 10/6/95 | | | |

Westinghouse Electric Corporation

Docket No. 52-003

cc: Mr. Nicholas J. Liparulo, Manager
Nuclear Safety and Regulatory Analysis
Nuclear and Advanced Technology Division
Westinghouse Electric Corporation
P.O. Box 355
Pittsburgh, PA 15230

Mr. B. A. McIntyre
Advanced Plant Safety & Licensing
Westinghouse Electric Corporation
Energy Systems Business Unit
Box 355
Pittsburgh, PA 15230

Mr. John C. Butler
Advanced Plant Safety & Licensing
Westinghouse Electric Corporation
Energy Systems Business Unit
Box 355
Pittsburgh, PA 15230

Mr. M. D. Beaumont
Nuclear and Advanced Technology Division
Westinghouse Electric Corporation
One Montrose Metro
11921 Rockville Pike
Suite 350
Rockville, MD 20852

Mr. Sterling Franks
U.S. Department of Energy
NE-42
Washington, DC 20585

Mr. S. M. Modro
Nuclear Systems Analysis Technologies
Lockheed Idaho Technologies Company
Post Office Box 1625
Idaho Falls, ID 83415

Mr. Charles Thompson, Nuclear Engineer
AP600 Certification
U.S. Department of Energy
NE-451
Washington, DC 20585

Mr. Frank A. Ross
U.S. Department of Energy, NE-42
Office of LWR Safety and Technology
19901 Germantown Road
Germantown, MD 20874

Mr. Ronald Simard, Director
Advanced Reactor Program
Nuclear Energy Institute
1776 Eye Street, N.W.
Suite 300
Washington, DC 20006-3706

STS, Inc.
Ms. Lynn Connor
Suite 610
3 Metro Center
Bethesda, MD 20814

Mr. James E. Quinn, Projects Manager
LMR and SBWR Programs
GE Nuclear Energy
175 Curtner Avenue, M/C 165
San Jose, CA 95125

Mr. John E. Leatherman, Manager
SBWR Design Certification
GE Nuclear Energy, M/C 781
San Jose, CA 95125

Barton Z. Cowan, Esq.
Eckert Seamans Cherin & Mellott
600 Grant Street 42nd Floor
Pittsburgh, PA 15219

Mr. Ed Rodwell, Manager
PWR Design Certification
Electric Power Research Institute
3412 Hillview Avenue
Palo Alto, CA 94303