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DCP/NRC1126
NSD-NRC-97-5427
Docket No.: 52-003

November 11, 1997

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: T. R. QUAY

SUBJECT: RESPONSES TO FOLLOWON QUESTIONS REGARDING THE AP600 SSAR
SECTION 14.3 AND THE AP600 INSPECTIONS, TESTS, ANALYSES, AND
ACCEPTANCE CRITERIA (ITAAC)

Dear Mr. Quay:

Enclosed are three copies of Westinghouse's responses to action items related to RAIs 420.8 and 640.63 on the Standard Safety Analysis Report Section 14.3, Certified Design Material (CDM). These responses incorporate comments from the staff received at the ITAAC Task Group meeting held in White Flint on September 25, 1997, as documented in your letter dated October 2, 1997.

With respect to RAI 420.8, Westinghouse has modified the CDM, Section 2.5.2, Protection and Monitoring System, Table 2.5.2-8, to include the seal-in function in the Acceptance Criteria of item 6.b. The CDM markup page for this action item is given in Enclosure 1.

In response to the staff comment on our response to item w of RAI 640.63, Westinghouse has modified the CDM, Section 2.3.2, Chemical and Volume Control System, Table 2.3.2-4, to add item 13 to the Design Commitment and to renumber existing items 13 and 14. The CDM markup page for this action item is given in Enclosure 2.

In response to the staff comment on our response to item dd) of RAI 640.63, Westinghouse has modified SSAR Section 10.4.9.1.1 by deleting the incorrect reference to the Technical Specifications. The SSAR markup page for this action item is given in Enclosure 3.

This submittal closes, from Westinghouse' perspective, open item 5722 (RAI 640.63). As a result, the Westinghouse status column will be changed to "Closed" in the Open Item Tracking System (OITS). The NRC should review this response and inform Westinghouse of the status of this open item to be designated in the "NRC Status" column of the OITS.

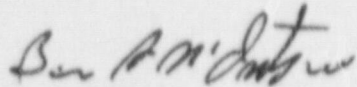
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November 11, 1997

Please contact Mr. Eugene J. Piplica at (412) 374-5310 if you have any questions concerning this transmittal.



Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

jml

Enclosures

cc: J. M. Sebrosky, NRC (w/Enclosures)
J. N. Wilson, NRC (w/Enclosures)
N. J. Liparulo, Westinghouse (w/o Enclosures)

Enclosure 1

Modification of Table 2.5.2-8 in support of RAI 420.8 commitment

The Acceptance Criteria of item 6 b.) is modified as follows:

Table 2.5.2-8 Inspections, Tests, Analyses, and Acceptance Criteria		
Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
6.b) The PMS initiates automatic actuation of engineered safety features, as identified in Table 2.5.2-3, when plant process signals reach specified limits.	An operational test of the as-built PMS will be performed using real or simulated test signals.	Appropriate PMS output signals are generated after the test signal reaches the specified limit. <i>These output signals remain following removal of the test signal.</i>

Enclosure 2

Revised response to item w) of RAI 640.63

w) The Design Description of CDM Section 2.3.2, Chemical and Volume Control System, is modified as follows:

3) *The pumps identified in Table 2.3.2-3 start after a signal is generated by the PLS.*

4414. Controls exist in the MCR to cause the pumps identified in Table 2.3.2-3 to perform the listed function.

4415. Displays of the parameters identified in Table 2.3.2-3 can be retrieved in the MCR.

Table 2.3.2-4 is modified as follows:

Table 2.3.2-4 Inspections, Tests, Analyses, and Acceptance Criteria		
Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
13. <i>The pumps identified in Table 2.3.2-3 start after a signal is generated by the PLS.</i>	<i>Testing will be performed to confirm starting of the pumps identified in Table 2.3.2-3.</i>	<i>The pumps identified in Table 2.3.2-2 start after a signal is generated by the PLS.</i>
4414. Controls exist in the MCR to cause the pumps identified in Table 2.3.2-3 to perform the listed function.	Testing will be performed to actuate the pumps identified in Table 2.3.2-3 using controls in the MCR.	Controls in the MCR cause pumps identified in Table 2.3.2-3 to perform the listed function.
4415. Displays of the parameters identified in Table 2.3.2-3 can be retrieved in the MCR.	Inspection will be performed for retrievability of the displays identified in Table 2.3.2-3 in the MCR.	Displays identified in Table 2.3.2-3 can be retrieved in the MCR.

Revised response to item dd) of RAI 640.63

- dd) Verification of this design feature is contained in CDM Section 2.2.4, "Steam Generator System." Acceptance criterion 9a(i) states that the valves identified in Table 2.2.4-1 close after a signal is generated by the PMS. This includes the startup feedwater control and isolation valves.

In addition, SSAR subsection 10.4.9.1.1, "Safety Design Basis", 3rd paragraph, 5th bullet, is modified as follows:

- Double valve startup feedwater isolation is provided by the startup feedwater control valve and the startup feedwater isolation valve. Both valves are designed to close on a startup feedwater isolation signal, an appropriate engineered safeguards features (ESF) signal as indicated on Figure 7.2-1, ~~within the time established in the Technical Specifications, Section 16.1.~~ The startup feedwater control valve also serves as a containment isolation valve. The startup feedwater control valve fails closed on loss of air. See subsection 7.2. Backflow in the startup feedwater line results in closure of the startup feedwater check valve.