Westinghouse

FAX COVER SHEET

RECIPIENT INFORMATION		SENDER INFORMATION	
DATE:	08 MAY 96	NAME:	Jim Winters
TO:	Tom Kenyon	LOCATION:	ENERGY CENTER - EAST
PHONE:	FACSIMILE:	PHONE:	Office: 412-374-5290
COMPANY:	USNRC	Facsimile:	win: 284-4887 outside: (412)374-4887
LOCATION:			

Cover + Pages 1 + 4

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COMMENTS:

Tom, Here is our last installment of background for Thursday.

- Page 10-7 from WCAP-13054 to back up closing open item 372.
- Internal Memo to be used as basis for discussion on DSER OI 10.4.9-1 (1712).
- DRAFT Response for RAI 410.290 (OI 3099).
- Preliminary response for RAI 410.291 (OI 3100).

Criteria Section	Referenced Criteria	AP600 Position	Comments/Summary of Exceptions
	R.G. 1.29 C.2	Acceptable	
2.	BTP ASB 10-2	Acceptable	
3.	GDC 5	Acceptable	
4.a	GDC 44	Exception	These systems are not required to mitigate design basis accidents.
4.b	GDC 44	Exception	These systems are not required to mitigate design basis accidents.
4.c	GDC 44	Acceptable	
5.	GDC 45	Acceptable	
6.	GDC 46	Exception	These systems are not required for accident conditions in the passive design.

SRP § 10.4.7, BTP ASB 10-2 - Design Guidelines for Avoiding Water Hammers in Steam Generators (Rev. 3, 4/84)

Top-Feed Steam Generator Designs:

a.		Acceptable
b.		Acceptable
c.		Acceptable
d.		Acceptable

Winters, James

From:	Winters, James
To:	Palinski, Mike
Cc:	Butler,John; Cummins, W. Ed; Hutchings, Donald; McDermott, Dan; McIntyre,Brian; Nydes, Robin; Schulz, Terry; Winters, James; CANTON, MIKE
Subject:	Open Item 1712 (DSER OI 10.4.9-1)
Date:	Tuesday, May 07, 1996 1:12PM

Mike,
Please change the (W) Status to: "Resolved." Please REPLACE the Status Detail with: "Resolved - The maintenance, surveillance and inservice inspection and testing of the startup feedwater system as it relates to safety or defense in depth is incorporated into various sections of the SSAR. Maintenance of this system is incorporated as one of the systems included in the "Maintenance Rule." Surveillance of startup feedwater components important to safety is covered by the Tech Specs, to be issued with section 16.1 in July. A draft of the applicable section has been provided to NRC for informal review. Inservice inspection of the active valves (Startup Feedwater Control) in the system is covered by subsection 3.9.3.2.2, Revision 5. The applicable active valve table (Table 3.9-16) will continue to include these valves when reissued in Revision 8. Inservice testing of the active valves is also included in Table 3.9-12. The components of the startup feedwater system that passed the screening criteria for Reliability Assurance Program are the startup feedwater pumps. This program and its related activities are discussed i SSAR subsection 16.2, Revision 7. Combined Operating License applicant actions required for the startup feedwater system are included in general Combined Operating License information items, there are no specific items required solely for the startup feedwater system. No further changes are required for Chapter 10. This item can be closed after issue of the next SSAR Revision of Table 3.9-12 and Section 16.1."

Everyone Else

Please look at this. I hope to use it on Thursday morning as the basis for discussion with NRC Plant Systems Branch.

Thanks

Jim
x5290

SSAR subsection 9.2.10, Revision 6, states that the hot water heating system serves no safety-related function and therefore has no nuclear safety design basis. The information provided in the subsection is sufficient for review of the system's potential for impact on the safety of the plant. The subsection also states that instruments are provided for monitoring system parameters and that essential system parameters are monitored in the main control room. The current design of the integrated data display and control systems have instruments in the hot water heating system on the data highway. This allows for any of the system instruments to be monitored or displayed in the control room. Local display is also provided as requested by the roving operator on his portable display device. Normal operating display of system parametric data will be developed as part of the man-machine interface, human factors engineering process described in Chapter 18 of the SSAR.

DRAFT RESPONSE
FOR RAI 410.290 (QI 3099).

Question 410.291

In Revision 4 of Section 10.4.9.1.2 of the SSAR, Item G, Westinghouse changed the statement to state that the startup feedwater system uses the condensate storage tank as a water supply source and deleted the statement "uses either the plant deaerator or the condensate storage tank as a water supply source" and replaced "deaerator" with "condensate storage tank" in all other related statements. However, Section 10.4.9.2.2 of the SSAR (Revision 4) states, in part, that the startup feedwater pumps take suction from either the deaerator storage tank or condensate storage tank. Explain the inconsistency in the design changes between the two sections of the SSAR.

Response:

In Revision 6 of the SSAR, sections 10.4.9.2.1 and 10.4.9.2.2 have been revised to be consistent with the first bullet of section 10.4.9.1.2. The main feedwater system and the startup feedwater system are parallel systems. The main feedwater system draws water from the deaerator tank and delivers it to the main feed rings within the steam generators. The startup feedwater system draws water from the condensate storage tank and delivers it to the startup feedwater nozzle on the steam generators. They have a manual cross-connect between their respective pumps and control valves. This will allow the main feed pumps to supply water from the deaerator tank to the startup feedwater nozzles on the steam generators. A check valve (in addition to the normally closed isolation valve) in the cross-connect prevents the startup feedwater pumps from supplying water from the condensate storage tanks to the main feed header and steam generator main feed rings.

SSAR Revision: NONE

PRELIMINARY