

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

To	R.P. WILLIAMSON - NUCLEAR SERVICE	
From	C.W. TALLY - CONTROL ANALYSIS (EXT. 2883)	BDS 663.5
Cust.	TECO	File No. or Ref.
Subj.	SPR 396	Date FEBRUARY 10, 1978

This letter to cover one customer and one subject only.

Reference: 1. Letter BWT-1609, J.A. Lauer to C.R. Domeck, T1.2/12B, dated December 5, 1977. 42

Engineering has evaluated the transient described in SPR 396 resulting in the following comments:

1. The classification of the transient in Reference 1 was correct and no further comment on this aspect is required.
2. The decrease in pressurizer level (off-scale low) is indicative of rapid steam generator level increases following the initiation of AFW. This undesirable effect is symptomatic of high level setpoints. Conversations with Fred Miller of TECO Engineering have confirmed TECO's awareness of this problem and their desire to have it rectified. In view of the fact that Davis-Besse I has elevated loops, there should be little difficulty in decreasing the level setpoint with appropriate analysis. The funding for this work will be pursued through Project Management.
3. Engineering has been unable to satisfactorily resolve the dissimilar behavior of the two OTSG's during the transient. During the 5 to 15 minute period of the transient, the two steam pressures moved in opposite directions and were considerably apart. The plant computer printout says a main steam line warm up isolation valve was open during this time ("22:55:56 Z688 MN STM Line 2 WU ISO VLV CLOS"), but TECO Engineering says the valve indicator is wired backwards, indicating that it actually was closed until 22:55:56, when an operator opened it. If indeed it was closed until this time, there appears to be no logical explanation for the steam pressure differences. This should be passed on to TECO Engineering, since Plant Design has no further information with which to investigate this anomaly.

CW Tally
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cc: J.R. Burris
R.B. Davis
J.A. Lauer
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