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

16 July 1979

MEMORANDUM FOR: D.F. Ross, Jr., Director, Bulletins & Orders Task Force
T.H. Novak, Deputy Director, Bulletins & Orders Task Force

FROM: R.A. Capra, B&W Project Manager, Bulletins & Orders Task Force

SUBJECT: TMI-2 RELATED ACTION ITEMS FOR B&W PLANTS

As you are aware, the B&W Owners Group has formed a Subcommittee for TMI-2 related matters. A meeting is scheduled with the Owners Group on Thursday, July 19, 1979. In telephone conversations with Jim Taylor (B&W) and the Subcommittee Chairman Dave Holt (Duke Power Co.), I agreed to provide the Owners Group with a list of agenda items for discussion at the meeting. In coming up with this list, I have taken items from the following sources: (1) long-term items of the Orders, (2) long-term items resulting from our Safety Evaluations of the Licensees' compliance with these Orders and (3) recommendations of the Leassons Learned Task Force (items which B&O may implement).

LONG-TERM ACTION ITEMS REQUIRED BY ORDERS:
1. Failure Mode and Effects Analysis for the ICS
2. Upgrade of LOMFW and/or Turbine Trip Reactor Trip to safety-grade
3. Continued operator training and drilling to assure a high state of preparedness

SER-LONG TERM ACTION ITEMS:
1. Analyses: LOFW and other anticipated transients
2. Analyses: small break LOCA
3. Analyses: lift frequency and mechanical reliability of pressurizer PORV and safety valves
4. Pressure vessel integrity: P-T curve and B&W thermal-mechanical report
5. AFW/EFW reliability study

LESSONS LEARNED RECOMMENDATIONS
1. Emergency power for PZR heaters, PORV (and block valve) and PZR level indication
2. Performance testing for PZR relief valves
3. Direct indication for PORV
4. Instrumentation for inadequate core cooling
5. Containment isolation diversity
6. AFW - Auto-initiate (covered by Orders)
7. AFW - flow indiaction (covered by Orders)
8. Analyses (any other analyses not covered under Orders or SEs)
9. Shift supervisor responsibilities
10. Shift turnover
11. Control room access control

In addition to this list of generic items, I have attached a list of plant specific items resulting from the Orders and Safety Evaluations.

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I am sendirg a copy of this memo to B&W and the Owners Group for their consideration in making up agenda items for discussion at Thursday's meeting.

Robert A. Capra

Robert A. Capra, B&W Project Manager
Bulletins & Orders Task Force
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc: B&W Owners Group
J. Taylor (B&W)
J. Heltemes
S. Israel
G. Mazetis
P. Matthews
Z. Rosztoczy
R. Reid

LONG TERM ACTIONS OF ORDERS	O	ANO-1	RS	DB-1	CR-3
1. FMEA ICS	X	X	X	X	X
2. SAFETY GRADE RX. TRIP: LOMFW AND/OR T.T.	X	X	X	X	X
3. CONTINUED OPERATOR TRAINING AND DRILLING	X	X	X	X	X
4. AFW/EFW SYSTEM UPGRADE		X	X		
5. INSTALL MOTOR DRIVEN EFW PUMPS	X				
6. CONTINUE AFW REVIEW: RELIABILITY AND PERF.				X	
7. CONTINUED ATTEN. TRANS. ANAL. & S.B. PROC.				X	
8. EFW FLOW VERIFICATION IN CONTROL ROOM					X

SER LONG TERM ACTIONS					
1. ANALYSES: LOFW & OTHER ANTIC. TRANS	X	X	X	X	X
2. ANALYSES: SMALL BREAK LOCA	X	X	X	X	X
3. ANALYSES: LIFT FREQ. & MECH. REL. PORV & SV	X	X	X	X	X
4. PV INTEGRITY: P-T CURVE & BW T-M REPORT	A	A	X	X	X
5. EFW PUMP OPERABILITY		X			
6. THERMOCOUPLE HOOK-UP/INSTALLATION		X			X
7. MOTOR-OPER. EFW POWERED FROM VITAL BUS		X			
8. AFW RELIABILITY STUDY	A	A	X	A	X
9. INSTALL ELECT. AFW PUMP OR ALTERNATIVE				X	
10. PERM. AUTO. DUAL LEVEL SET POINT FOR S/G				X	

SER TESTS OR PROCEDURE REQUIREMENTS					
1. S/U EFW TESTS: FLOW RATES & FLOW STABILITY	X				
2. VERIFY NOISE LEVEL OK FOR C.R. COMMUNICATION		X			
3. LOW POWER TESTS:					
(A) CONTROL EFW/AFW INDEP. OF ICS		X	X		X
(B) VERIFY MIN. REQUIRED EFW FLOW		X	X		
(C) EFW FLOW RATE INDICATOR		X			
4. AFW FLOW RATE INDICATOR & DYNAMIC BK. TEST				X	
5. AFW PRESSURE SWITCH FOLLOW-UP				X	
6. AFW DISCH. VALVE FAILURE FOLLOW-UP				X	
7. PROCEDURE FOR USE OF S/U FW PUMP & PORV				X	

NOTE

A - PRESSURE VESSEL INTEGRITY AND AFW RELIABILITY ISSUES APPLY TO ALL PLANTS EVEN THOUGH NOT SPECIFIED IN ORDERS OR SEs.

NRC ACTION ITEMS:

1. STAFF EVALUATION OF B&W GENERIC SMALL BREAK ANALYSES
2. DEVELOP ADDITIONAL & MORE DETAILED GUIDANCE FOR LOFW & OTHER ANTICIPATED TRANS.
3. DEVELOP MORE DETAILED GUIDANCE FOR SMALL BREAK LOCA ANALYSES
4. PROVIDE DETAILS ON ANALYSES & APPLICABILITY TO OTHER PWR & BWR (SIMILAR TO NR 0560)
5. DEVELOP MORE DETAILED GUIDANCE ON PORV & SV DESIGN REQUIREMENTS
6. REVIEW OPERATOR TRAINING AS PART OF FACILITIE'S REQUAL. PROGRAM
7. DEVELOP POSITION ON PRESSURE VESSEL INTERGITY ISSUE
8. IE FOLLOW-UP ON DB-1 PRESSURE SWITCH & DISCHARGE VALVE FAILURES

B&W ACTION ITEMS:

1. DETAILED THERMAL-MECHANICAL REPORT ON BEHAVIOR OF VESSEL MATERIALS FOR PV INTEG ISSUE