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From: Larry Nicholson  
To: CSM, ALD1, EMK, WHR, WND2.WNP3.LNO, WND2.WNP3.JFS3...  
Date: 9/6/96 3:06pm  
Subject: Mode reqmts.

Attached is a 1st cut at attaching modes to each of our restart items. please review and provide comments prior to the upcoming SAP mtg on 9/26.  
thanks

CC: RWC

To: CSM (Charles Marshall) R-I  
ALD1 (Aniello Della Greco) R-I  
EMK (Eugene Kelly) R-I  
WHR (William Ruland) R-I  
LNO (Leonard Olshan, NRR  
JFS3 (John Stolz, NRR

ISSUE MUST BE CLOSED PRIOR TO ENTRY INTO THE MODE LISTED.

MODE 6 = REFUELING  
MODE 5 = COLD SHUTDOWN (< 200)  
MODE 4 = HOT SHUTDOWN (< 350)  
MODE 3 = HOT STANDBY  
MODE 2 = STARTUP (< 5%)  
MODE 1 = POWER OPERATIONS

**TECHNICAL RESTART ISSUES**

<u>TECHNICAL ISSUE</u>	<u>Resp. Org</u>	<u>Mode</u>
1. Cont. Spray Dsch Vlv (CS-2) Operability. Calculations indicate actual d/p may be greater than design d/p.	DRS	4
2. Reliability of Control Air System. Requires operator action to start backup compressor.	DRP	4
3. CW Screen Motor Reliability. No automatic motor operation, vulnerable to grass intrusion	DRP	3
4. Digital feedwater installation to correct feedwater control reliability.	DRS	2
5. Moisture in EDG air start system causes reliability problem with check valves.	DRP	6
6. EDG output breakers fail to close when switch taken to close.	DRS	6
7. EDG has minimal load margin.	DRS	4
8. EDSFI Followup Issues	DRS	4
9. Cracked exhaust steam piping could indicate weak erosion/control program.	DRS	4
10. Feedwater nozzle bypass flow introduced error in calorimetric and power level.	DRS	2
11. EDG 1A load fluctuations.	DRS	6
12. Review adequacy of fuse control program.	DRS	2
13. Review gas turbine batteries degrading with loss of one source of offsite power. Turbine referenced in TS basis to support SW outages.	DRS	4
14. Hagan module replacement project.	DRS	4

<u>TECHNICAL ISSUE</u>	<u>Resp Org</u>	
15. Procedure contains non-conservative 125V battery acceptance criteria.	DRS	6
16. NRC & QA identified numerous IST program deficiencies.	DRS	4
17. Main condenser steam dumps malfunction, requires closing MSIVs on trip and prevents use of main condenser.	DRP	2
18. Poor reliability of PDP charging pumps.	DRP	4
19. Poor process for configuration control of pipe supports.	DRP	4
20. POPS ability to mitigate overpressure events.	DRS	6
21. Wiring separation & redundancy concerns with RG 1.97 instruments & cable separation	DRS	4
22. PORV (1PR1) seat leakage, requiring block valve closure.	DRP	6
23. Undersized PORV accumulators.	DRS	4
24. Gate valves identified susceptible to press lock & thermal binding.	DRS	6
25. Pressurizer Spray Problems/Use of Aux Spray	DRP	4
26. Radiation monitor problems.	DRS	4
27. Rx coolant pump oil collection system deficiencies.	DRS	4
28. Understand causes and corrective actions for failures of Rx coolant pump seals.	DRP	5
29. Rx Head Vent Valve Stroke Times.	DRP	5
30. RHR Min-flow Valve (RH29) Failures on unit 2.	DRP	6
31. RHR Dsch Valve (21RH10) Banging Noise.	DRP	6
32. Review program for control & inspecting resilient fire barrier seals.	DRS	4

<u>TECHNICAL ISSUE</u>	<u>Resp. Org</u>	
33. Control rods stepping with no temperature error signal.	DRS	2
34. Numerous SI pump deficiencies.	DRP	5
35. Verify adequate protection for SI Pump runout.	DRS	5
36. SI relief valves performance history of leaking and lifting.	DRP	6
37. Review corrective action for service water pipe erosion.	DRS	4
38. Spurious high steam flow signals causing SI.	DRS	4
39. Review corrective actions to resolve numerous switchyard failures.	DRS	4
40. Verify adequate correction for overhead annunciator failures.	DRS	4
41. Verify adequate corrective action to ensure steam generator tube integrity.	DRS	4
42. Auxiliary Feedwater System Performance and Reliability.	DRS	3
43. Adequacy of corrective actions from the Salem Unit 2 reactor trip.	DRP	2

### PROGRAMMATIC RESTART ISSUES

RESTART ISSUE (Licensee)	Resp. Org.	Mode
1. Resolve Appendix R jumpers and program discrepancies, including fire barrier penetrations.	NRR	4
2. Review efforts to maintain configuration control, given examples from Hagan modules and bolting. Effort to include setpoint control program and drawing control.	DRS	4
3. Adequacy and use of procedures, including procedure revision backlog.	DRP	2
4. Management of engineering and maintenance backlog.	DRP/ RATI	2
5. Program for foreign material exclusion.	DRP	4
6. Operability determinations.	DRP	6
7. Operator performance (Coordination and Communication)	DRS	2
8. Correction of operator workarounds, including control room deficiencies.	DRP	2
9. Program to utilize operating (industry) experience feedback.	DRP	2
10. Corrective action program, including adequacy of root cause program.	DRP	2

**III.a. PROGRAMMATIC RESTART ISSUES**

- continued -

RESTART ISSUE (Licensee)	Resp. Org.	Mode
11. Engineering contribution to problem resolution, including safety evaluations.	DRP	4
12. Tagging	DRP	4
13. Adequacy of Emergency Preparedness	DRS	2
14. Resolution of licensing commitments.	NRR	4
15. Adequacy of Emergency Operating Procedures.	DRS	3
16. Adequacy of training.	DRS	6
17. Adequacy of work control and planning program.	DRS	2
18. Parts availability & accuracy of bill of materials	DRS	2
19. Adequacy of Licensing Basis Conformance FSAR Discrepancies specifically including Service Water System design and reliability	DRP	2
20. Adequacy of QA program (Receptiveness to documented deficiencies)	DRP	6
21. Licensee self assessment capability (Performance monitoring & trending)	DRP	2
22. Integrated Test Program	DRS	All

### LICENSEE RESTART PLANS

RESTART PLANS (Licensee)	Resp. Org.	Mode
1. Conduct of Operations	DRP	2
2. Reliable Maintenance	DRP	2
3. Work Control Process Improvement	DRP	2
4. System Engineering and Equipment Reliability	DRS	2
5. Engineering Performance	DRS	2
6. Organizational Self Assessment	NRR	2
7. Corrective Action	DRP	2
8. Human Performance Management	NRR	2
9. Accredited Training	DRS	2