

POWER REACTOR	EVENT NUMBER: 24601
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FACILITY: CRYSTAL RIVER	REGION: 2	NOTIFICATION DATE: 11/13/92
UNIT: [3] [ ] [ ]	STATE: FL	NOTIFICATION TIME: 17:12 [ET]
RX TYPE: [3] B&W-L-LP		EVENT DATE: 11/13/92
		EVENT TIME: 16:40 [EST]
NRC NOTIFIED BY: PATRICIA HAINES		LAST UPDATE DATE: 11/13/92
HQ OPS OFFICER: TIM MCGINTY		

EMERGENCY CLASS: NOT APPLICABLE	NOTIFICATIONS
10 CFR SECTION:	MILTON SHYMLOCK RDO
AOUT 50.72(b)(1)(ii)(B) OUTSIDE DESIGN BASIS	

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
3	N	Y	100	POWER OPERATION	100	POWER OPERATION

EVENT TEXT

17 OF 43 SUPPORTS ON DECAY HEAT REMOVAL SYSTEM MAY NOT MEET THE REQUIRED FACTOR OF SAFETY.

CRYSTAL RIVER 3 HAS DETERMINED THAT 17 OF 43 DECAY HEAT (LOW PRESSURE INJECTION) SYSTEM SUPPORTS MAY NOT MEET THE REQUIRED FACTOR OF SAFETY. THIS IS CONSIDERED A CONDITION OUTSIDE THE DESIGN BASIS OF THE PLANT. ALL SUPPORTS ARE CONSIDERED TO BE OPERABLE AT THIS TIME. EVALUATION OF THE SUPPORTS AND REVIEW OF THE ANALYSIS INDICATE A FACTOR OF SAFETY GREATER THAN ONE WHEN CONSIDERING THE COMBINED DEADWEIGHT AND SEISMIC LOADING. THE DESIGN OF THESE UNI-STRUT SUPPORTS APPARENTLY DID NOT CONSIDER THE ECCENTRIC LOADING OF THE SUPPORT ANGLES.

THE DESIRED DESIGN FACTOR OF SAFETY IS TWO FOR SAFE SHUTDOWN EARTHQUAKE. THE ARCHITECTURAL ENGINEER (POWER PIPING CO.) FOR THE DECAY HEAT REMOVAL SYSTEM APPARENTLY APPLIED THE SYSTEMS DESIGN LOADING INCORRECTLY FAILING TO CONSIDER THE ECCENTRIC LOADING. THE LICENSEE CLARIFIED THAT THE SUPPORTS MAY NOT MEET THE REQUIRED FACTOR OF SAFETY AS THEY ARE IN THE PROCESS OF DETERMINING WHICH OF THE SUPPORTS ARE ACTUALLY CLEARLY REQUIRED FOR THE SYSTEM. THE LICENSEE IS REPORTING THE EVENT AT THIS TIME DUE TO THE PROBABILITY THAT SOME OF THE SUPPORTS IN QUESTION WILL BE DETERMINED TO BE CLEARLY REQUIRED AS WELL AS THE POSSIBLE GENERIC IMPLICATIONS OF THE DISCOVERY ON OTHER SYSTEMS AT CR3 AND POSSIBLY AT OTHER PLANTS. THE LICENSEE WILL CONTINUE TO INVESTIGATE AND WILL BE PERFORMING PART 21 EVALUATIONS REGARDING THE ISSUE ALSO. THE LICENSEE HAS NOT ENTERED TECH SPECS IN ANY WAY, AND CONSIDERS THE DH SYSTEM TO BE OPERABLE BASED ON VISUAL INSPECTIONS (NO SIGNS OF FAILURES) AND REVIEW OF THE ANALYSIS FOR WHICH THERE IS CONSIDERABLE MARGIN FOR ERROR. THE LICENSEE HAS INFORMED THE RESIDENT INSPECTOR.