NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

	CONTROL BLOCK (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
0 1	M IP A L 1 2 00 -0 0 00 -0 0 0 0 4 1 1 1 1 1 6 57 CAT 58
CON'T	SOURCE LL 6 0 5 0 0 0 2 5 5 0 0 8 1 9 8 2 8 0 9 1 7 8 2 9 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
0 2	During review of SEP Topics, it was determined that following a LOCA with
0 3	concurrent loss of off-site power and loss of either diesel generator, the
0 4	[running service water pump(s) may trip as a result of going to runout.
0 5	[Runout occurs as a result of the CCW heat exchanger outlet valves failing to]
0 6	[fully open position (results from loss of instrument air which occurs after]
0 7	loss of offsite power). Condition not analyzed by FSAR; accordingly,
0 8	reportable per TS 6.9.2.a(9).
0 9 7 B	SYSTEM CAUSE CAUSE COMPONENT CODE SUBCODE SUBC
	LER RO EVENT YEAR REPORT NO. 17 REPORT NUMBER 2 23 24 26 27 28 29 30 31 32
	ACTION FUTURE SEFECT SHUTDOWN HOURS 22 ATTACHMENT FORM SUB. SUB. 12 (25) COMPONENT MANUFACTURER SUB. 12 (27) (27) (28) (29) (29) (29) (20) (20) (20) (20) (20) (20) (20) (20
1 0	Event resulted from apparent oversight in initial plant design and FSAR
11	Laccident analysis. Problem eliminated by installation of hard stops on
1 2	[CCW heat exchanger service water outlet valves and procedure change to align]
1 3	Fire Water System to Service Water System if postulated condition occurs.
7 8	9 80
1 5	G 28 O O O 29 NA CONTROL OF DISCOVERY DESCRIPTION (32) Review of SEP Topic
	CTIVITY CONTENT ILEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36) NA N
1 7	NUMBER TYPE DESCRIPTION (39) O O O O O O O O O O O O O O O O O O O
1 8	NUMBER DESCRIPTION (41) NA
1 9	SO TYPE DESCRIPTION NA NA
20	PUBLICITY SSUED DESCRIPTION 45 NAC USE ONLY NA
820° PDR 5	7240351 820917 ADDCK 05000255 PDR

Attachment to LER 82-024, Revision 1 Consumers Power Company Palisades Plant Docket 50-255

During review of Systematic Evaluation Program (SEP) topics, a potential problem with the service water system was discovered. Following a postulated Loss of Coolant Accident (LOCA) with a concurrent loss of off-site power, a loss of instrument air will occur resulting in the component cooling water (CCW) heat exchanger service water discharge valves failing to the full open position. With a loss of diesel generator 1-1, service water pump P-7B will stop. Calculations indicate that runout and subsequent trip of the remaining service water pumps, P-7A and P-7C, may occur, resulting in a loss of service water flow. Similarly, a loss of diesel generator 1-2 will cause a loss of P-7A and P-7C and a possible runout and trip of P-7B. This condition apparently resulted from an oversight in initial plant design and was overlooked during preparation of the FSAR accident analysis.

To correct the problem, hard stops were installed on the operators of the CCW heat exchanger discharge valves to limit the service water flow in the event of a loss of instrument air. Additionally, emergency operating procedures were revised to require alignment of the Fire Water System to the Service Water System if the postulated event occurs. These actions will assure that adequate cooling is provided and maintained to all critical Service Water System loads.