

JGKepler, Administrator
Attachment to LER 82-024
Consumers Power Company
Palisades Plant
Docket 50-255

Page 2

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. To eliminate the problem with a loss of diesel generator 1-2 and only one service water pump running, the discharge valve for P-7B was throttled. Computer model calculations and system testing indicated no runout would occur and all components would receive adequate flow.