



LER No. 80-027  
Omaha Public Power District  
Fort Calhoun Station Unit No. 1  
Docket No. 05000285

Attachment No. 1

Safety Analysis

The Fort Calhoun Station Unit No. 1 is so designed that no single failure can prevent the safe shutdown of the plant, if required. The failure of the FW-6 timer relay associated with AC sequencer S1-2 would not have prevented the complete and proper loading of essential safeguards equipment should the need have arisen.

Prior to starting ST-ESF-5, prime signal sequencers S1-1 and S2-1 were operable and in auto standby. (S1-1 and S2-1 are the DC powered sequencers fed from the "A" and "B" engineered safeguards channels respectively). The derived signal sequencers S1-2 and S2-2 were then separately bypassed as per ST-ESF-5 to test their Bliss Eagle timing relays. (S1-2 and S2-2 are the AC powered sequencers fed from "A" and "B" channels respectively). Had the need for FW-6 (Auxiliary Feedwater Pump) to be sequenced on arisen, the "A" channel prime signal sequencer S1-1 would have performed the desired function. In addition, the "B" channel sequencer S2-1 (prime) would have sequenced on the redundant Auxiliary FW pump (FW-10) had it been called upon to do so.



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Corrective Action

The Bliss Eagle timer in question was replaced with an identical spare which was, in turn, satisfactorily tested per ST-ESF-5 (F.1). The A-C sequencer timers of sequencers S1-2 and S2-2 will continue to be exercised and operability verified on a monthly basis per surveillance test ST-ESF-5.



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Failure Data

This is the eleventh failure of a Bliss Eagle Timer. Previous failures were reported per:

Abnormal Occurrence 75-1  
Abnormal Occurrence 75-13  
Abnormal Occurrence 75-16  
LER 76-21  
LER 77-9  
LER 77-18  
LER 77-25  
LER 78-016  
LER 78-027  
LER 78-032

