

R4-5A44 (7)

	Initiation	CR-CNS-2004-06422
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Discovered: 9/22/2004 11:23:33AM	Supervisor: Thomas, Kenneth B	Initiated: 9/22/2004 11:29
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Condition Description:

**ALARM PROCEDURE ERRORS**

Alarm Procedure 2.3 B-3 indicates that a Service Water pump motor overload/ground alarm on the B and D SW pump motors results in an automatic pump trip. That alarm results from actuation of the 50G ground relay, or either of the phase overcurrent relays' time-overcurrent contacts (designated as the 51 contacts). An automatic pump trip results from any of those actuations and a locked-rotor condition (50-2 contacts), or a short circuit condition (50-1 contacts), referencing B&R Drwg 3022. This design is in accordance with the relay manufacturer's recommendations (GE, VM 1750), and this logic arrangement is applicable to all of the 4kV motors at CNS. An overload/ground alarm by itself does not result in an automatic pump trip, and the alarm procedure is in error.

Immediate Action Description:

On discovery of this condition, the remainder of the 4kV motor overload/ground alarm procedures were reviewed, and it was found that the same condition existed with respect to the Condensate pump motors, the Condensate Booster pump motors, and the C/D Screen Wash pump motors (reference Alarm Procedure 2.3 A-3). TSG initiated revisions to 2.3 A-3 and 2.3 B-3, as appropriate.

In addition, revisions to the alarm procedures for the other 4kV motors (RHR, CS, SWBP, CW, and A/C SW) which described an automatic action for this alarm as a possible pump trip, were also initiated to provide a clearer description of the automatic actions expected, that is, a pump trip on alarm only in conjunction with a locked-rotor condition on the motor.

Suggested Action Description:

CBOAT. The extent of the condition was determined, and corrective actions (procedure revisions) are in progress.

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