

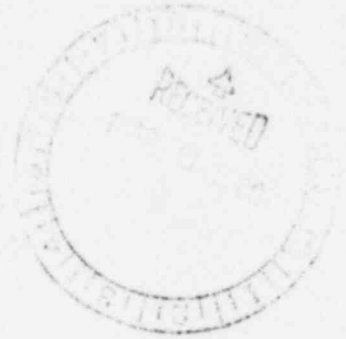


Portland General Electric Company

Charles Goodwin, Jr. Assistant Vice President

February 29, 1980

Trojan Nuclear Plant
Docket 50-344
License NPF-1



Mr. R. H. Engelken, Director
U. S. Nuclear Regulatory Commission
Region V
Suite 202, Walnut Creek Plaza
1990 N. California Blvd.
Walnut Creek, CA 94596

Dear Sir:

Nuclear Regulatory Commission IE Bulletin 79-27 (in conjunction with IE Information Notice 79-29) identified a loss of power to a non-Class 1E 120V a-c power panel event that resulted in control system malfunctions and a significant loss of control room instrumentation. In accordance with the requirements of the subject bulletin, the following information is provided:

- (1) A detailed review has been conducted which included an operational analysis of each Class 1E and non-Class 1E electrical bus which supplies 120V a-c power to safety and nonsafety-related instrumentation and control systems. Failure of each bus was analyzed by:
 - (a) Identifying individual loads from each bus breaker,
 - (b) Determining the failure mode of each individual load,
 - (c) Determining the effect(s) of loss of power to each individual load on overall Plant operation, and specifically on the ability to achieve a cold shutdown condition.

It has been determined, as a result of this review, that two design changes should be made prior to startup of Cycle 3. They involve:

- (i) The separation of the power supplies to the atmospheric dump valves, and

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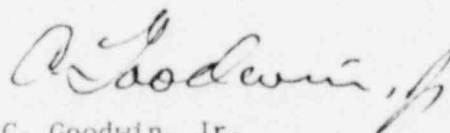
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- (ii) The separation of power supplies to the auxiliary feedwater discharge pump pressure transmitter. This change includes transfer of the power supply to the preferred instrument a-c buses.
- (2) Existing procedures, including those required to achieve a cold shutdown condition were reviewed and it was determined that a cold shutdown condition can be achieved with the loss of a 120V a-c instrument power supply bus. Upon loss of power to the 120V a-c bus, the Plant will be maintained in the condition at which the instrument bus was lost (or hot shutdown if the Plant was previously in operation) until power is restored to the lost bus. Procedures currently exist to describe and control this activity. Once the bus is restored, the cooldown process can be continued.

Additional procedures will be provided by Cycle 3 startup to better enable the operator to identify which instrument and control power bus has been lost.

- (3) In accordance with your direction, IE Circular 79-02 dealing with failure of 120V a-c vital power supplies has been reviewed. No other modifications or procedural changes are considered required beyond those discussed above.

Sincerely,



C. Goodwin, Jr.
Assistant Vice President
Thermal Plant Operation and
Maintenance

CG/SML/4mg10B26

c: Mr. Lynn Frank, Director
State of Oregon
Department of Energy

Office of Inspection & Enforcement
Division of Reactor Operations
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555