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SUBJECT: RO-50-296/7918:on 791030,during logic testing per LPCI mods, simultaneous starting of two RHR pumps occured.Caused by mismatch between current transformer ratios on normal supply to shutdown boards.Transformers will be changed.

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BFRD-50-296/7918

Reported under Technical Specifications 6.7.2.a.(9)

Date of Occurrence: 10/30/79 Time of Occurrence: 1133 hrs. Unit 3

Technical Specification involved: not applicable - FSAR 8.4.4.1

Conditions Prior to Occurrence: Unit 3 was in refueling shutdown.

Identification and Description of Occurrence: During logic testing associated with LPCI modifications, a simultaneous starting of two RHR pumps occurred. This simultaneous starting caused a differential relay operation of the normal supply to the shutdown board from the unit board. Analysis of causes and operator actions required were completed on November 2, 1979.

Apparent Cause of Occurrence: Investigation has revealed that a mismatch exists between the current transformer ratios on the normal supply to the shutdown boards. This mismatch allows current to flow through the relay coils whenever a primary current differential of 600 amps exists. The simultaneous starting of the RHR pumps is the only event identified that can cause this differential current to exist.

Other Related Events: LPCI logic testing was in progress.

Corrective Action Taken or Planned: The current transformers will be changed to assure proper matching of secondary currents with primary currents. This action will be taken prior to unit startup. We have reviewed the design of all other units' electrical safety-related systems and have determined that no other cases exist of current transformer mismatch.

Herbert L. Abercrombie

H. L. Abercrombie,
Power Plant Superintendent
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