

SUPPLEMENTARY INFORMATION TO
LER 82-105/01 T-0

Mississippi Power & Light Company
Grand Gulf Nuclear Station - Unit 1
Docket No. 50-416

Technical Specification Included: 6.9.1.12.h
Reported under Technical Specification: 6.9.1.12.h

Event Narrative:

During the review of Bechtel's request to Allis-Chalmers Power Systems, Inc. for a design change to initiate a direct turbine trip upon loss of the main circulating water pumps, it was determined that General Electric used a plant condition in the FSAR accident analysis that is less conservative than that caused by a circulating water pump trip. In its analysis, General Electric assumed five seconds of steam bypass operation after a turbine trip (see FSAR Chapter 15, Table 15.2-8). Such a requirement is not explicitly stated in the system design specification 22A6084.

The present logic will not allow the steam bypass valves to remain open for the required five-second time period following a turbine trip caused by a circulating water pump trip. A design change has been requested to initiate a direct turbine trip upon loss of the main circulating water pumps. Incorporation of this change will satisfy a GE criterion which requires the steam bypass valves be open for at least five seconds following a turbine trip. This design change would cause the bypass valves to remain open approximately 7.5 seconds.

Technical Specification 6.9.1.12.h requires prompt notification of errors discovered in the transient or accident analyses or in the methods used for such analyses as described in the safety analysis report, or in the bases for the technical specifications that have or could have permitted reactor operation in a manner less conservative than that assumed in the analyses.

This is being submitted as an interim report. A followup report will be submitted by January 24, 1983.