

LER #: 50-321/1980-069, Rev. 1
Licensee: Georgia Power Company
Facility Name: Edwin I. Hatch
Docket #: 50-321

Narrative Report
for LER 50-321/1980-069, Rev. 1
Update Report - Previous Report Date 7-10-80

On June 26, 1980, Plant Hatch Unit 1 reactor scrammed from a main turbine stop valve fast closure following a turbine trip. The HPCI system received an auto initiation signal on low reactor water level but failed to inject to the RPV due to isolating on a steam line high dP isolation signal. This is a failure of a system subject to limiting safety system settings to complete the required protective function, reportable per Technical Specifications 6.9.1.8.a. The isolation was reset and when the inboard isolating valve was opened, the outboard isolation valve received another steam line high dP isolation signal. The isolation was reset, the isolation valves opened and HPCI auto started and injected to the RPV and was used to control water level. ADS, Core Spray and LPCI systems were operable. The RCIC system was inoperable. There were no effects upon public health and safety due to this event. There was no impact on Unit 2. This is a repetitive occurrence as last reported on Reportable Occurrence No. 50-321/1980-049.

The isolation, due to steam line high dP, was determined to be caused by poor turbine speed control due to the turbine control system being out of dynamic calibration. System calibration was affected over a period of time by the replacement of control system components which were statically calibrated. System operability tests to verify pump rated flow and discharge pressure and quickstarts to verify time to rated flow did not adequately monitor the HPCI system dynamic response to auto start transients.

The immediate corrective action was to dynamically recalibrate the HPCI turbine control system. The HPCI turbine underwent extensive testing and the HPCI system was proven satisfactory and declared operable.

The supplemental action was to revise the HPCI and RCIC turbine control system calibration procedures to include the static calibration of the components followed by dynamic calibration to assure proper turbine performance.

The HPCI and RCIC operability procedures were revised to include cold quickstarts to demonstrate satisfactory HPCI/RCIC turbine performance monthly.

In addition, a 3 second time delay was added to the HPCI and RCIC steamline high dP logic to prevent spurious high dP isolations.

The unit is now in full compliance with the requirements.