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Rick J. King Director Nuclear Safety Assurance

August 6, 1999

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Subject: River Bend Station - Unit 1 Docket No. 50-458 Special Report: LPCI 'A' and LPCS Injection

File No.: G9.5, G9.25.1.7

RBF1-99-0200 RBG-45087

Ladies and Gentlemen:

This special report is being submitted pursuant to RBS Technical Requirement 5.6.9.2 to report information related to an Emergency Core Cooling System (ECCS) injection into the reactor vessel. The technical requirement requires a special report describing the circumstances of the event, the total accumulated actuation cycles and the current usage factor for each affected nozzle when that factor exceeds 0.7. This event was previously reported in LER 99-0011-00 dated June 9, 1999.

EVENT DESCRIPTION

At 1658 on May 10, 1999, with the plant in Mode 5 for a refueling outage, Low Pressure Coolant Injection (LPCI) 'A' and Low Pressure Core Spray (LPCS) injected into the reactor vessel for less than two minutes. Main control room (MCR) operators appropriately verified reactor cavity level and closed the injection valves to stop the injection. About two inches of water were added to the reactor cavity from the suppression pool. An electrical transient in one of the ECCS power supplies caused the event.

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The root cause of the electrical transient was determined to be a failed, unsealed capacitor on a Rosemount trip unit. The vendor failure analysis indicated that the capacitor failure caused a short from the positive 24 volt DC (VDC) power supply to the chassis ground. The short then caused a fuse to blow that initiated the transient to the power supplies.

This event is not safety significant. Shutdown cooling was operating and was not impacted by this event.

NOZZLE SPECIFIC DATA

The cumulative usage factors for the LPCI 'A' and LPCS nozzles are well below the required 0.7.

The current number of total accumulated actuation cycles since commercial operation is as follows:

LPCI 'A' Nozzle8 Actuation CyclesLPCS Nozzle1 Actuation Cycle

If there are any questions concerning this issue, please contact David Lorfing at (225) 381-4157.

Sincerely,

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Rick J. King Director - Nuclear Safety Assurance

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cc: Mr. Robert Fretz NRR Project Manager U.S. Nuclear Regulatory Commission M/S OWFN 13-D-18 Washington, DC 20555

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