NRC Form 366 (9-83) LICENSEE EVENT REPORT (LER)												U.S. NUCLEAR REGULATORY COMMISSION APPROVED OME NO. 3150-0104 EXPIRES 8/31/85													
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On July 3, 1984, with the Unit in Operational Condition 3 and reactor power at 0%, the High Pressure Coolant Injection (HPCI) system was declared inoperable for fifteen minutes. The HPCI pump suction relief valve had lifted, which was an indication that the pump discharge check valve had not seated properly. Investigation showed that the check valve was mechanically operable, but the method used to seat it was not adequate. Procedure changes detailing actions to be taken if the check valve does not seat are being evaluated to prevent recurrence of this event.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPHOVED	OMB NO.	3150-0104
EXPIRES: 8	/31/85	

FACILITY NAME (1)			DOCKET NUMBER (2)						LER NUMBER (6)									PAGE (3)			
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TEXT (If more spece is required, use additional NRC Form 396A's/ (17)

NAC Form 366A

On July 3, 1984, the Unit experienced a screm due to a lightning strike of a transmission line (see LER 84-029). Reactor pressure vessel (RPV) level reached -38", and the High Pressure Coolant Injection (HPCI) system initiated per design. After the HPCI system tripped upon restoration of RPV level tp +54", the system was walked down by an operator as good operating practice. He noted that the HPCI pump suction relief valve was open and notified the Control Room. (The water discharged through the relief valve was contained within the HPCI pump room. The area survey map completed July 4, 1984, showed that the contaminated areas were properly roped off and posted, and subsequently decontaminated.) It was deduced that the HPCI pump discharge check valve did not seat properly, allowing the Keep-fill system to pressurize the HPCI pump suction piping. Limiting Condition for Operation 3.5.1.c was entered. The check valve is a 14" Anchor Darling tilting disc check valve located in a horizontal line. This type of valve will hang partially open when flow stops if adequate differential pressure is not maintained across the valve disc.

After a consultation with the on-call Maintenance Supervisor, actions were taken to seat the valve within 15 minutes. The LCO was cleared and the system was restored to normal lineup. There was no evidence that the check valve would not seat due to a mechanical failure. Procedural changes are being evaluated to address valve seating during system shutdown.

Had this occurrence been identified at full power, the HPCI system would have been able to inject to the RPV if required. The pump discharge check valve is intended to prevent draining feedwater through the HPCI system to the CST in the event that the valves upstream of the check valve fail. If that were to happen, and the check valve was leaking by as in the described event, the feedwater pressure would provide sufficient ΔP to seat the check valve as was done during this event.



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

August 2, 1984

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

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 84-031-00 ER 100450 FILE 841-23 PLA-2265

Docket No. 50-387 License No. NPF-14

Attached is Licensee Event Report 84-031-00. This event was determined reportable per 10CFR50.73(a)(2)(v), in that a Limiting Condition for Operation (LCO) was entered on the High Pressure Coolant Injection System due to the pump's discharge check valve not seating properly and the associated suction relief valve lifting. The LCO was cleared within fifteen minutes when the check valve was seated and the relief valve closed.

Keese

H.W. Keiser Superintendent of Plant-Susquehanna

LAK/pjg

cc: Dr. Thomas E. Murley
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