LICENSEE EVENT REPORT (LER)											U.S. NUCLEAR REGULATORY COMMISSION APPROVED OME NO. 3150-0104 EXPIRES: 8/31/86					
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OM8 NO. 3150-0104 EXPIRES 8/31/85

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On March 10, 1985 at 0350, an inadvertent isolation of the shutdown cooling system (Residual Heat Removal system) occurred while pressurizing the reactor vessel in preparation for backflushing the control rod drives to alleviate suspected plugging of the cooling water orifices. The plant was in Operational Condition 4, a condition not requiring the containment isolation system to be operational.

The control rod drive backflushing was being performed in accordance with an approved station procedure (TP 22.009.03). Per the procedure, the reactor vessel water level was established at approximately 24" above the vessel flance. Subsequent to achieving the desired water level, heatup was commenced utilizing the shutdown cooling mode (loop B) of the RHR system. Upon achieving a reactor vessel temperature of 160 F to 180 F, reactor vessel pressurization utilizing the control rod drive system commenced. At approximately 88 to 90 psig, as indicated on reactor vessel pressure indicator C32-PI003, the shutdown cooling system inboard isolation valve (E11*MOV047) automatically shut and both of the operating shutdown cooling pumps (E11*P014B and E11*P014D) automatically tripped. The automatic isolation occurred as a result of exceeding the shutdown cooling system high suction pressure setpoint. Operations personnel immediately shut the outboard shutdown cooling system isolation valve (E11*MOV048) and secured the shutdown cooling lineup. Additionally, a maintenance work request was issued to investigate the cause of the isolation and preparations were immediately begun to start the reactor recirculation system to maintain the reactor pressure vessel temperature at approximately 160 F to 180 F.

The automatic isolation of the inboard shutdown cooling isolation valve occurred due to exceeding the 119, +6, -6 psig setpoint associated with the shutdown cooling system suction pressure switch (B31*PS023A). Due to the pressure head associated with the flooded vessel (50 psig), a vessel steam dome pressure of 69 psig was sufficient to actuate the pressure switch (69 psig + 50 psig = 119 Also, due to the location of the pressure psig). indicator, only 20 psig of the water level pressure head was sensed by the indicator. This resulted in an indicated reactor pressure of 89 psig (69 psig + 20 psig = 89 psig). Thus, an indicated pressure of 89 psig corresponded to a steam dome pressure of 69 psig and a shutdown cooling system suction pressure of 119 psic.

AC Form 386A

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)						DOCKET NUMBER (2)	LER NUMBER (6)					PAGE (3)		
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The outboard isolation valve did not automatically shut because the trip setpoint of B31*PS023B was not achieved due to a slight difference between the setpoint of the A and B switches. Although both pressure switches were set within the specified range (119,+6,-6 psig), the B switch setpoint was 4 psig higher than the A switch. Thus, the outboard valve automatically shut but the inboard valve did not.

Although the control rod drive backflushing procedure contains a step directing the operators to secure the shutdown cooling system prior to exceeding 125 psig reactor pressure, the step does not alert the operator to the fact that the head of water in the vessel is sensed by the pressure switches but not observed by the pressure indicator.

To prevent recurrence, Operations personnel reviewed the incident in detail and are revising the following procedures to include a discussion of the relationship between reactor vessel pressure, reactor vessel water level pressure head, and shutdown cooling system suction pressure:

- * SP 23.121.01 Residual Heat Removal (RHR) System
- * TP 22.009.02 Control Rod Drive Backflushing at Elevated Reactor Pressure

All procedural changes will be completed by May 1, 1985.

IRC Forn: 366A



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION . P.O. BOX 528 . WADING RIVER, NEW YORK 11792

TEL. (516) 929-8300

April 4,1985

PM 85-039

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

Dear Sir:

In accordance with 10CFR50.73, enclosed is a copy of Shoreham Nuclear Power Station Unit 1's License Event Report 85-010.

Sincerely yours,

William E. Steiger, Jr. Plant Manager

WES/gr

Enclosure

cc: Dr. Thomas E. Murley, Regional Administrator Peter Eselgroth, Senior Resident Inspector Institute of Nuclear Power Operations, Records Center American Nuclear Insurers

SR. A21. 0200