

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1): Shoreham Nuclear Power Station Unit #1	DOCKET NUMBER (2): 05000322	LER NUMBER (5):			PAGE (3):	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		85	032	00	02	OF 02

TEXT (If more space is required, use additional NRC Form 286A's) (17)

On August 22, 1985 at 0223, a HPCI Turbine Exhaust Diaphragm High Pressure "B" side signal was initiated and resulted in the outboard isolation of the HPCI system. The plant was in Operational Condition 2 with an RPV pressure of 929 psig. HPCI was declared inoperable prior to the occurrence of the event due to startup testing.

While utilizing the HPCI pump and completing portions of a startup test procedure (per SP 24.202.01) for controller step change response, the operator was increasing the turbine speed to achieve rated flow at a discharge pressure of 100 psig above RPV pressure (which was at 935 psig). The pump was taking suction from the Condensate Storage Tank (CST) and returning water back to the CST via a test line. When the turbine discharge pressure went to 1060 psig, the operator proceeded to open the test return valve (E41*MOV-037) to the CST to decrease the pressure to 1030 psig. While adjusting the valve, a "B" channel HPCI Isolation signal and a HPCI Turbine Exhaust Diaphragm High Pressure "B" side, occurred and initiated the closing of the outboard steam supply isolation valves (E41*MOV-042 and 048) to the turbine, tripping the turbine and isolating the system.

The HPCI exhaust diaphragm high pressure was due to a apparent leaking rupture disk (E41*RD-001) in the turbine exhaust line, which allowed a head of water to develop in the instrument line to the pressure sensing instrument. Although the apparent pressure leak by itself was not enough to activate the exhaust diaphragm pressure switches on the "B" side (E41*PS-025B and 025D, the pressure switch setpoint is 9 psig), the leak combined with the head of water was, resulting in the isolation. The test procedure was terminated, Plant Management was notified and the NRC was notified per 10CFR50.72. There was no safety significance to the event. All plant systems operated as designed. No ECCS systems were challenged or required for the event. The operators carried out all required actions.

To prevent recurrence, two approved Maintenance Work Requests (MWR) were initiated to recalibrate the pressure switches and replace the rupture disk. The turbine exhaust line will be rechecked when the HPCI turbine is operated for surveillance testing.



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION • P.O. BOX 628 • WADING RIVER, NEW YORK 11792

TEL. (516) 929-8300

September 20, 1985

PM-85-188

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 Licensee Event Report 85-032.

Sincerely yours,

William E. Steiger, Jr.
Plant Manager

WES/gr

Enclosure

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

SR.A21.0200

IE22
11