

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) DOCKET NUMBER (2) PAGE (3)
 Shoreham Nuclear Power Station Unit #1 0 5 | 0 0 | 0 3 | 2 | 2 1 OF 0 | 4

TITLE (4)
 Unsealed Hole Through the Control Building Exterior Wall

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER (8)
05	21	87	78	7	016	00	06	19	87		0 5 0 0 0 0
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OPERATING MODE (8)	4	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 01010		20.402(b)		20.406(a)		80.73(a)(2)(iv)		73.71(b)			
		20.406(a)(1)(i)		80.38(a)(1)	X	80.73(a)(2)(v)		73.71(c)			
		20.406(a)(1)(ii)		80.38(a)(2)		80.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)			
		20.406(a)(1)(iii)		80.73(a)(2)(i)		80.73(a)(2)(viii)(A)					
		20.406(a)(1)(iv)		80.73(a)(2)(ii)		80.73(a)(2)(viii)(B)					
		20.406(a)(1)(v)		80.73(a)(2)(iii)		80.73(a)(2)(ix)					

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Robert W. Grunseich, Operational Compliance Engineer	5 1 1 6 9 1 2 1 9 - 1 8 1 3 0 1 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/>	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On May 21, 1987 at 1500, an unsealed eight inch diameter hole through the exterior west wall of the Control Building at approximately elevation 28 was brought to the attention of the Watch Engineer. The hole, which was concealed by a housekeeping zone sign, was discovered by a plant engineer assigned to the Colt Emergency Diesel Generator (CEDG) "Tie-In" modification on May 18, 1987, and documented on LILCO Deficiency Report (LDR) 87-119. Post issue review of the LDR by the Plant Staff concluded that the discovery was reportable via 10CFR50.72(b)(2)iii(D). Plant Management was notified and the NRC was notified at 0900 5/22/87. The Plant was in Operational Condition 4 (Cold Shutdown) with all rods inserted in the core. The exterior Control Building wall is a seismic category 1 structure designed for, along with other functions; flood protection during the Probable Maximum Hurricane (PMH), a tornado generated missile barrier, security barrier, and three hour fire barrier. The PMH is postulated to yield a maximum still water flood level of 26 feet above Mean Low Water (MLW), along with associated wave run-up to 34 feet above MLW. The hole could theoretically allow wave run-up to penetrate into the flood protected corridor up to one foot deep. This would affect operability of the emergency switchgear rooms and two of the three battery rooms. The hole has since been repaired by placing a steel plate over it and sealing it with caulking and grout.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOC# (NUMBER 0)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENT. NUMBER	REVISION NUMBER			
Shoreham Nuclear Power Station Unit #1	0 5 0 0 0 3 2 2	8 7	0 1 6	0 0 0	2	OF	0 4

USE IF MANY SPACES & REQUIRED FOR ADDRESSING NRC Form 200a (117)

PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [xx].

IDENTIFICATION OF THE EVENT

Discovery of an unsealed eight inch diameter hole through the exterior west wall of the Control Building [NA].

Event Date: 5/21/87

Report Date: 6/19/87

CONDITIONS PRIOR TO THE EVENT

Operational Condition 4 (Cold Shutdown)

Mode Switch - Shutdown

RPV Pressure = 0 psig RPV Temperature = 106 Degrees F

POWER LEVEL - 0

All rods inserted into the core.

DESCRIPTION OF THE EVENT

On May 21, 1987 at 1500, an unsealed eight inch diameter hole through the exterior west wall of the Control Building was brought to the attention of the Watch Engineer. The hole was discovered by a plant engineer assigned to the Colt Emergency Diesel Generator (CEDG) "Tie-In" modification on May 18, 1987, and documented on LILCO Deficiency Report (LDR) 87-119. Post issue review of the LDR by the Plant Staff concluded that the discovery was reportable via 10CFR50.72(b)(2)iii(D). Plant Management was notified and the NRC was notified at 0900 5/22/87.

The hole was found by the engineer while preparing to drill another hole for the modification. A housekeeping zone sign posted on the wall was removed and led to the discovery. The eight inch diameter hole through the two foot thick concrete wall at approximate elevation 28 feet, led to the corridor between the three emergency switchgear rooms, and the "A" and "B" battery rooms, (floor elevation 25').

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)			
		YEAR	SEQUENCE NUMBER	REVISION NUMBER				
		0 6 0 0 0 3 2 2	8 7	- 0 1 6	- 0 0	0 3	0 0	0 4

USE IF MORE SPACE IS REQUIRED (SEE APPROVED NRC FORM 200A (1))

The exterior Control Building wall is a seismic category 1 structure designed for, along with other functions; flood protection during the Probable Maximum Hurricane (PMH), a tornado generated missile barrier, security barrier, and a three hour fire barrier.

The PMH is postulated to yield a maximum still water flood level of 26 feet above mean low water (MLW), along with associated wave run-up to 34 feet above MLW. The hole could theoretically allow wave run-up to penetrate into the flood protected corridor up to one foot deep. This would affect operability of the emergency switchgear rooms and two of the three battery rooms.

Concerns regarding compromising the security, fire, and tornado missile barrier are minimal. Due to the size of the hole, the possibility of a missile penetrating this hole is minimal. Likewise, the hole does not represent a security breach into a vital area. In addition, a fire patrol has been in place due to the inoperability of the dampers in the ventilation system needed for the CO2 fire suppression system.

Investigation into the source of the hole reveals that in the 1977 to 1978 time frame, electrical construction was authorized to drill into the Control Building wall to facilitate cable pulls. Authorization was provided by a series of Engineering and Design Coordination Reports (E&DCR) numbered F-10376. The instructions on the E&DCR indicate that once cable pulling was complete, the holes were to be re-grouted. This particular hole was apparently missed due to the sign being posted on the exterior, and duct work being installed on the interior, effectively concealing it.

The hole has since been repaired by placing a one inch thick by sixteen inch square piece of steel plate over it, and sealing it with caulking and grout. An inspection of the rest of the exterior wall revealed no other unaccountable holes.

CAUSE OF THE EVENT

The cause of this event was the apparent misaccounting for all of the holes allowed by the series of E&DCR's. The event is believed to be an isolated case.

ANALYSIS OF THE EVENT

This event resulted in the discovery of a breach in flood protection afforded to three emergency switchgear rooms and two of the three battery rooms, and is reportable per 50.73(a)(2)(v). The only safety significance is that, if a PMH had occurred with water and waves reaching postulated heights, the emergency switchgear or two batteries could not be relied upon to perform their intended functions.

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FACILITY NAME:	DOCKET NUMBER:	LER NUMBER ID:			PAGE ID:		
		YEAR	SEQUENCE NUMBER	REVISION NUMBER			
Shoreham Nuclear Power Station Unit #1	06000322	87	016	00	04	OF	04

*LER if report appears in Regulatory Guide 1.4 (10/79) NRC Form 200a (10/79)

CORRECTIVE ACTIONS

1. The hole through the wall has been repaired.
2. An inspection of the exterior walls of the Control Building revealed no other unaccounted holes.

ADDITIONAL INFORMATION

- a. Manufacturer and model number of failed component (s)
None
- b. LER numbers of previous similar events
None



LONG ISLAND LIGHTING COMPANY

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TEL. (516) 929-8300

June 19, 1987

PM-87-166

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's Licensee Event Report LER 87-016.

Sincerely yours,

William E. Steiger, Jr.
Plant Manager

WES/pz

Enclosure

cc: William T. Russell, Regional Administrator
Clay Warren, Senior Resident Inspector
Institute of Nuclear Power Operations, Records Center
American Nuclear Insurers

SR.A21.0200

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