

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Shoreham Nuclear Power Station Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 2 2				PAGE (3) 1 OF 03		
TITLE (4) Ultimate Heat Sink, Accumulation of Sediment																
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(S)			
04	05	85	85	015	00	05	13	85					0 5 0 0 0			
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)														
4		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(h)		
POWER LEVEL (10)		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)		
0 0 0		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A)		
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)						
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)						
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME Gary G. Rhoads, Operational Compliance Engineer										TELEPHONE NUMBER						
										AREA CODE 5 1 6 9 2 9 - 8 3 0 0						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs						
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO				

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

This Special Report is submitted pursuant to Technical Specification 6.9.2 to comply with Technical Specification 3.7.1.4.

On April 5, 1985 annual soundings of the intake canal were taken in accordance with Technical Specification 4.7.1.4.a.1. The results of the sounding were finalized and reported to the Watch Engineer on April 26, 1985 and showed that of 27 transects measured, two were found to be beyond the limit of -11 feet MLW with readings of -10.9 and -10.7 feet MLW. The plant was in Operational Condition four at the time. The decrease in depth is due to normal deposition. No major storms were experienced at the site since the last annual sounding. The average depth of the canal was determined to be -12.3 feet MLW. To bring the Intake Canal back into Compliance, a contractor is being obtained to dredge the Canal. Dredging is expected to be completed by July 30, 1985.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Shoreham Nuclear Power Station Unit 1	0 5 0 0 0 3 2 2	8 5	- 0 1 5	- 0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

This Special Report is submitted pursuant to Technical Specification 6.9.2 to comply with Technical Specification 3.7.1.4.

On April 5, 1985 the annual sounding of the Intake Canal was performed in accordance with Technical Specification 4.7.1.4.a.1. The plant was in Operational Condition 4 at the time. The results of the sounding were finalized and reported to the Watch Engineer on April 26, 1985 and showed the bottom depth to be slightly above the allowable Technical Specification limit of -11 feet MLW at two transects with measured depths of -10.9 and -10.7 feet MLW. A Limiting Condition of Operation Report was initiated on April 26 1985. The two transects (4.5 and 5.0) are located on the west side of the canal near the entrance from Long Island Sound.

The intake Canal is 1500 feet long, 600 feet of which extends into the Long Island Sound from the shore line. The ultimate heat sink for the plant consists of the Long Island Sound connected to the intake structure by the dredged intake canal. The Canal is dredged to a depth of -12 feet below mean water level with a bottom width of 78 feet. The portion of the Canal protruding into the Sound is protected on each side by a rock jetty. The jetties are constructed of core stone and covered on the crest and slope with a single course of armor stone. The Canal side slopes are covered with stone from the jetties to the screenwell structure to protect the Canal from wave action. The bottom of the Canal is not covered with stone to facilitate periodic dredging to remove accumulations of silt.

Since the last sounding was performed on May 7 and May 8, 1984, no major storms have been experienced at the site. Visual inspection of the Canal banks show no defects. The cause of the small amount of deposition is believed to have been caused by normal annual sediment deposition. The intake Canal has been designed to provide 590,000 GPM of cooling water to the intake structure to supply the requirements of both the circulating water and service water systems. Only about 17,000 GPM or 4 per cent of the total is required for the service water system to assure reactor shutdown, cooldown and maintenance of cooldown. An average water depth of 1.4 feet across the Canal will provide about two times the minimum required service water flow during operation. During shutdown the service water requirements are less.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Only two of the 27 transects sounded were out of the Technical Specification limit with depths of -10.9 and -10.7 feet MLW. The average depth of the Canal based on the soundings is -12.3 feet MLW which is well within the Technical Specification limit. The decrease in flow area because of the deposition at the two transects is minimal and would not affect the supply of the service water system.

To bring the intake Canal back into Compliance, a Contractor is being obtained to dredge the canal. Dredging is expected to be completed by July 30, 1985.



LONG ISLAND LIGHTING COMPANY

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

TEL. (516) 929-8000

May 3, 1985

PM 85-070

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

Dear Sir:

In accordance with Shoreham Nuclear Power Station's Technical Specifications Section 6.9.2, and 3.7.1.4, enclosed is a Special Report on accumulation of sediment in the Ultimate Heat Sink [License Event Report 85-015].

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.A21.0300

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