

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(S) 1 OF 0 3
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TITLE (4)
Meteorological Instrumentation out of calibration

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)
0 5	0 9	8 8	8 8	0 0 5		0 0	5 2	6 8			0 5 0 0 0
											0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8. (Check one or more of the following) (11)

OPERATING MODE (9) 4	20.402(b)	20.406(c)	60.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 0	20.406(a)(1)(i)	60.38(a)(1)	60.73(a)(2)(v)	73.71(e)
	20.406(a)(1)(ii)	60.38(a)(2)	60.73(a)(2)(vi)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 306A)
	20.406(a)(1)(iii)	60.73(a)(2)(i)	60.73(a)(2)(viii)(A)	Special Report
	20.406(a)(1)(iv)	60.73(a)(2)(ii)	60.73(a)(2)(viii)(B)	
	20.406(a)(1)(v)	60.73(a)(2)(iii)	60.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Robert W. Grunseich, Operational Compliance Engineer	TELEPHONE NUMBER AREA CODE: 5 1 6 9 2 9 - 8 3 0 0
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space type-written lines) (16)

This is a Special Report submitted under Technical Specification 6.9.2 as required by Technical Specification 3.3.7.3 under the ACTION stated therein.

The Instrument and Control (I&C) section is currently unable to calibrate the meteorological instruments as specified in Regulatory Guide 1.23. The applicable tolerance called out in the Reg Guide is: Wind direction ± 5 degrees. The applicable procedure SP 44.654.02 (RFL Telemeter System Calibration) acceptance criteria was not able to be met and a Limiting Condition for Operation (LCO) was declared 5/9/88. The cause of this problem is the inability of the installed instrumentation to meet the recommended tolerance of the Reg Guide. Even though the instrumentation is in service and available for use, it is by definition inoperable because Tech Spec Bases state that the instrumentation should be consistent with the recommendations of the Reg Guide. A review is being conducted to ensure proper information is included in the Semi-Annual Effluent Release Report. An investigation by I & C is being conducted to determine if alternative calibration techniques could be employed to improve the accuracy of the instrumentation.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED DATE NO 2186-0104
EXPIRES 07/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Shoreham Nuclear Power Station Unit #1	05000322	88	005	010	2	OF 13

1. If more space is required use additional 8 1/2" x 11" sheets.

This is a Special Report submitted under Technical Specification 6.9.2 as required by Technical Specification 3.3.7.3 under the ACTION stated therein. This requires that if the meteorological instrumentation remains inoperable for 7 days, there are 10 days following this in which to submit a report outlining the cause of the malfunction and plans for restoring the instrumentation to normal.

On Monday 5/9/88 an Instrument and Control (I & C) technician was unable to perform surveillance test SP 44.654.02 (RFL Telemeter System) as required by Technical Specifications, due to the fact that the output from the telemeter transmitter could not be adjusted to within the recommended tolerances in Regulatory Guide 1.23. Since the Tech. Spec. Bases state that this instrumentation is consistent with the recommendations of the Reg Guide, then the system is, by definition, inoperable.

The applicable procedure, SP 44.654.02 (RFL Telemeter System Calibration) acceptance criteria was not met and a Limiting Condition for Operation (LCO) was declared 5/9/88. The Instrument and Control (I&C) section is currently unable to calibrate the meteorological instruments as recommended in Regulatory Guide 1.23. The applicable tolerances called out in the Reg Guide are: ± 5 degrees for the wind direction channel.

The problem has resulted from attempts to improve the accuracy of the system to meet the recommended tolerances in the Reg Guide. The acceptance criteria in the original procedure was based upon the readability of the output recorders. The philosophy used was that the recorder output could be repeatably read to plus or minus one half of the smallest division. Originally this was plus or minus 7.5 degrees on the wind direction channel. The Reg Guide recommendation was plus or minus 5 degrees.

During a subsequent QC audit, the inability to read the recorder to the ± 5 degrees recommended by the Reg Guide was identified as a finding. The solution was to obtain new scales and chart paper for the recorders with smaller subdivisions. The calibration procedure was subsequently revised to agree with these same tolerances. During the first attempt to perform the revised procedure, these new acceptance criteria were unable to be satisfied.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME IS: Shoreham Nuclear Power Station Unit #1	DOCKET NUMBER IS: 0 5 0 0 0 3 2 2	LER NUMBER IS:			PAGE IS:		
		YEAR	SEQUENTIA. NUMBER	PI. OR C. NUMBER			
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* LER if more space is required use additional NRC Form 200a (11)

The I & C section is reviewing the procedure to determine if there are alternative calibration techniques that could improve the loop accuracy sufficiently to meet the new acceptance criteria. If successful the procedure will be revised accordingly. If it is determined that the equipment cannot meet the new acceptance criteria then the Reg Guide recommendations will be reviewed to determine if they can be relaxed. Failing this, we will investigate the possibility of obtaining more accurate instrumentation.

A review is being conducted to determine that all information used and reported in the Semi-annual Radioactive Effluent Release Report are accurate.



LONG ISLAND LIGHTING COMPANY

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May 26, 1988

PM-88-144

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

Dear Sir:

In accordance with Shoreham Nuclear Power Station's Technical Specifications Sections 6.9.2 and 3.3.7.3, enclosed is a Special Report (LER 88-005) on the inoperability of the Wind Direction channel of the Meteorological Monitoring Instrumentation.

Sincerely yours,

William E. Steiger, Jr.
Plant Manager

WES/pz

Enclosure

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

SR.A21.0200

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11