NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Oyster Creek, Unit 1	0 5 0 0 0 2 1 9	1 OF 0 4

TITLE (4)

ISOLATION CONDENSER ACTUATION PRESSURE SENSORS EXCEED SETPOINT LIMIT

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 2	2 9	8 8	8 8	-	0 0 4	- 0 0	0 3	2 8	8 8		0 5 0 0 0
											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)			
N		20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
1 0 0		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	X 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	TELEPHONE NUMBER
	AREA CODE
Roger Gayley	6 0 9 9 7 1 - 4 4 6 1

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

During routine surveillance testing, the Isolation Condenser automatic actuation pressure sensors RE15B, RE15C, and RE15D tripped at values greater than those specified in Technical Specification 2.3.E. The sensors were adjusted to trip within the desired setpoint limits. This event had no effect upon public health or safety.

The installed sensors have a designed accuracy of + 7.5 psig, and have a history of setpoint drift. An analog trip system has been selected as the most appropriate way to minimize setpoint drift and improve setpoint repeatability. The sensors being considered for the analog system will have an accuracy that will significantly improve setpoint repeatability. The analog trip system is planned to be installed in accordance with the Integrated Living Schedule.

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

DATE OF OCCURRENCE

The condition occurred on February 29, 1988 at approximately 1500 hours.

IDENTIFICATION OF OCCURRENCE

During surveillance testing, the Isolation Condenser (EIIS-BC) automatic initiation reactor pressure sensors (EIIS-PS), RE15B, RE15C, and RE15D tripped at values greater than those specified in Technical Specification 2.3.E.

This event is considered to be reportable as defined in 10CFR50.73(a)(2)(i)(B)

CONDITIONS PRIOR TO OCCURRENCE

The reactor was operating in the RUN mode with a thermal output of 1928 MWth and a generator load of approximately 670 MWe.

DESCRIPTION OF OCCURRENCE

On February 29, 1988 at approximately 1500 hours while performing the "Isolation Condenser Automatic Actuation Sensor Calibration and Test", the RE15B, RE15C and RE15D pressure sensor trip setpoints were found to be less conservative than those specified in the Technical Specifications. The surveillance test revealed the following data:

Pressure Switch Designation	Technical Specification Limit*	As Found Psig**
RE15A	1068.35	1068
RE15B	1068.35	1071
RE15C	1066.01	1069.5
RE15D	1066.01	1068

* These values are obtained by adding respective head correction factors to the Technical Specification limit of 1060 psig.

** The as-left trip points specified in the surveillance procedure are 1068 +0 -2 for RE15A and B and 1066 +0 -2 for RE15C and D.

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APPARENT CAUSE OF OCCURRENCE

The cause of this occurrence is attributed to inadequate instrument repeatability. Based upon an engineering study performed to investigate repeatability associated with this type of sensor, it was found that the total design accuracy is + 7.5 psig. Sensors RE15A, RE15B, RE15C, and RE15D were last set at 1066, 1067, 1066 and 1065 respectively. All sensors are operating within their designed accuracy band.

ANALYSIS OF OCCURRENCE AND SAFETY SIGNIFICANCE

The purpose of the Isolation Condensers is to depressurize the reactor, and remove decay heat in the event the main condensers are unavailable as a heat sink. Four pressure sensors (RE15A, B, C, and D) are provided that transmit a reactor high pressure signal for automatic Isolation Condenser actuation. Reactor Protection System (RPS) channel I logic includes sensors RE15A and RE15C. RPS channel II logic includes sensors RE15B and RE15D. Actuation of one pressure sensor in each channel will cause an automatic initiation of both isolation condensers. A review of the as-found data indicates that the isolation condensers would have actuated at a reactor pressure of 1062 psig versus 1060 psig, had a reactor high pressure condition existed.

The isolation condenser initiation setpoint of 1060 psig was established to sense a condition symptomatic of a loss of main heat sink. Moreover, actuation at this pressure limits multiple electromatic relief valve lifts during reactor pressure vessel pressurization transients.

CORRECTIVE ACTION

The pressure sensors were adjusted to trip within the desired setpoint limit. The installed sensors have a designed accuracy of + 7.5 psig, and have a history of setpoint drift. An analog trip system has been selected as the most appropriate means to minimize setpoint drift and improve setpoint repeatability. The sensors being considered for the analog system will have an accuracy that will significantly improve setpoint repeatability. The analog trip system is planned to be installed in accordance with GPUNs integrated schedule.

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

SIMILAR EVENTS

LER 86-006 "Isolation Condenser Actuation Pressure Sensors Exceeded Setpoint Limit"

LER 85-011 "Three Out of Four Isolation Condenser Actuation Pressure Sensors Out of Spec"

EQUIPMENT DATA

Barksdale
Proof 1800 psi

Model #B2TA12SS
Switch Adjustable Range 50-1200 psi

0452A

GPU Nuclear

GPU Nuclear Corporation
Post Office Box 388
Route 9 South
Forked River, New Jersey 08731-0388
609 971-4000
Writer's Direct Dial Number:

March 28, 1988

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

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Licensee Event Report

This letter forwards one (1) copy of Licensee Event Report (LER) No. 88-004.

Very truly yours,

Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF:MH:dmd(0452A)
Enclosures

cc: Mr. William T. Russell, Administrator
Region I
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475 Allendale Road
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Mr. Alexander W. Dromerick
U.S. Nuclear Regulatory Commission
Washington, DC 20555

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731

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