NRC Ferm 366 (9-63)		UCENSEE EVEN	T REPORT	(LER)	U.B. NU A	CLEAR REGULATI	0.8 Y COMMISSION 0.3150-0104
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NAMS		LICENSEE CONTACT P	OR THIS LER (12)	-	1	THE REACHER NUM	
Michael Godki	necht, Plant	Engineering			AREA CODE 6 0 19	917111-	14,11,18,19
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LICENSEE	EVENT	REPORT	(LER)	TEXT	CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

PACILITY NAME (1)	DOCKET NUMBER (2)	T		L	A N	T	PAGE (3)						
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## Date of Occurrence

The event occurred on August 19, 1988 at approximately 1425 hours.

# Identification of Occurrence

During surveillance testing, the isolation condenser (EIIS-BC) automatic initiation pressure sensors (EIIS-PS), RE15A, RE15B, RE15C and RE15D tripped at values greater than those specified in Technical Specification Limiting Safety System Setpoints (LSSS), section 2.3.E.

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

### Conditions Frior to Occurrence

The reactor was operating in the RUN mode with a thermal output of 1929 MWth and a generator load of approximately 646 MWe.

### Description of Occurrence

On August 19, 1988 at approximately 1425 hours, while performing the "Isolation Condenser Automatic Actuation Sensor Calibration and Test", the REI5A, REI5B, REI5C and REI5D 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	Technical Specification	As Found
Designation	Limit *	Psig **
RE15A	1068.35	1075
RE15B	1068.35	1073
RE15C	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 psig for REISA and B, and 1066 +0 -2 for REISC and D.

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NRC Form 386A

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

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## Apparent Cause of Occurrance

The cause of this occurrence is attributed to inadequate instrument repeatability. The design accuracy for this type of sensor is +7.5 psig, and the tolerance allowed for the instrument setpoint is +0, -2 psig. Therefore, normal setpoint drift allows the setpoint repeatability to be within the design accuracy of the sensor, but outside the tolerance allowed by the Technical Specifications. All sensors are operating within their designed accuracy band.

# Analysis of Occurrence and Safety Significance

The purpose of the Isolation Condensers is to remove decay heat and depressurize the reactor vessel in the event the main condenser is unavailable as a heat sink. Using the Isolation Condensers in this condition will conserve inventory in the reactor vessel, preventing a possible decrease in water level below the limits specified in Technical Specifications. During a high pressure condition in the reactor vessel, the Isolation Condensers, together with the Turbine Bypass System, Electromatic Relief Valves and Safety Valves, also act to ensure that reactor pressure never reaches the reactor coolant system pressure safety limit of 1375 psig.

Four pressure sensors (RE15A, B, C and D) are provided to transmit a high pressure signal for automatic Isolation Condenser actuation. Reactor Protection System (RPS) channel I logic includes sensors RE15A and C. RPS channel II logic includes sensors RE15B and D. Actuation of one pressure sensor in each channel will cause an automatic initiation of both Isolation Condensers. The safety significance of this event is considered minimal since the Isolation Condensers would have automatically initiated at a value approximately five (5) psig higher than the Technical Specification limit of 1060 psig.

### Corrective Action

#### Short Term:

RC Form 366A

The pressure sensors were adjusted to trip within the tolerance specified by the plant surveillance procedures.

## Long Term:

The installed sensors have a history of setpoint drift within the design accuracy of ±7.5 psig. Since this a s we the instruments to drift above the Technical Specification limit, a new analog system has been selected to replace the present system. The sensors selected for the new system will have an accuracy that will significantly improve setpoint repeatability. The analog trip system is planned to be installed in accordance with GPUN's integrated schedule.

0546A

NRC Form 364.4 LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO. 3150-0104 EXPIRES. 8/31/85

 PACILITY NAME (1)
 DOCKET NUMBER (2)
 LER NUMBER (6)
 PAGE (3)

 Oyster Creek, Unit 1
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## Similar Events

LER 88-009: "Isolation Condenser Actuation Pressure Sensors Exceed Setpoint Limit Due to Limitations of Installed Instruments" LER 88-004: "Isolation Condenser Actuation Pressure Sensors Exceeded Setpoint Limit" 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 csi

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#### **GPU Nuclear Corporation**

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

September 16, 1988

Director of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Mail Station P1-137 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. 88-016.

Very truly yours.

88 Jity patiet

E. E. Fitzpatrick Vice President & Director Oyster Creek

EEF:MH:dmd(0546A) Enclosures

cc: Mr. William T. Russell, Administrator Region I U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406

> Mr. Alexander W. Dromerick U.S. Nuclear Regulatory Commission Washington, DC 20555

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