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Writer's Direct Dial Number:

C321-92-2255  
September 15, 1992

U.S. Nuclear Regulatory Commission  
Attn: 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 92-009.

Sincerely,

for John J. Barten  
Vice President and Director  
Oyster Creek

JJB/TB:jc  
Enclosure

cc: Administrator, Region 1  
Senior NRC Resident Inspector  
Oyster Creek NRC Project Manager

(LER-COVLTRS)

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 5/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (5)			PAGE (3)	
		YEAR 1	SEQUENTIAL NUMBER	REVISION NUMBER		
Oyster Creek, Unit 1	0 15 10 10 10 2 1 9	9 2	0 0 9	0 0	0 2	OF 0 3

TEXT (IF MORE SPACE IS REQUIRED, SEE INSTRUCTIONS NRC Form 365A (7/1/71))

Date of Occurrence

The event occurred on August 22, 1992, at 1255 hours.

Identification of Occurrence

A reactor low water level scram and subsequent engineered safety feature system actuations from a low-low level condition occurred. This is considered reportable in accordance with 10 CFR 50.73(a)(2)(iv).

Conditions Prior to Occurrence

The plant was operating at full power.

Description of Occurrence

The reactor was operating at full power with a generator output of 635 megawatts electric. The Reactor Level Hi/Lo alarm was received at 1255 hours. It was followed immediately by Reactor Low Level alarms and actuation of both Reactor Protection Systems (E11S-JC), which in turn caused a full reactor scram. A low-low reactor water level followed the scram and resulted in Primary Containment (E11S-NH) isolation, Main Steam (E11S-SB) isolation, Core Spray System (E11S-BM) initiation, Isolation Condenser (E11S-BL) actuation, and Emergency Diesel Generator (E11S-EK) start. Core Spray did not inject to the reactor since reactor pressure was greater than 350 psig, and the Diesel Generators did not assume load. The Primary Containment isolation also caused a Standby Gas Treatment System (E11S-BH) initiation.

After the Main Steam Isolation Valves isolated on the low-low level signal, further inventory loss was prevented and the Feedwater System (E11S-SJ) was used to recover reactor water level. The reactor was cooled using the Isolation Condensers.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 6/31/85

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (6)

PAGE (3)

Oyster Creek, Unit 1

YEAR 1 SEQUENTIAL REVISION  
NUMBER NUMBER NUMBER

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TEXT (IF THERE IS MORE THAN ONE OCCURRENCE, SEE INSTRUCTIONS NRC Form 888A-1) (17)

Apparent Cause of Occurrence

The event was caused by the failure of a proportional amplifier (CFI-AMP)(signal repeater), ID23H, in the steam pressure compensation portion of the steam flow signal which is input to the Feedwater Control system. The Feedwater Control system sensed this as a large decrease in steam removed from the reactor vessel and compensated for this by causing a rapid decrease in feedwater flow. A rapid reduction in reactor vessel level followed, which caused the scram.

Analysis of Occurrence and Safety Significance

The reactor low water level scram setting of 137 inches above the top of active fuel (TAF) has been established to ensure that the reactor is not operated at a water level below that for which the fuel cladding integrity safety limit is applicable. In this event, a reduction in feedwater flow caused a reactor scram at the level specified. The reduction in Feedwater flow coupled with the void collapse from the reactor scram resulted in the level dropping to the low-low reactor level setpoint. During this event all Engineered Safety Features operated as designed, which maintained sufficient water level to ensure adequate margin to the fuel cladding integrity safety limit. Based upon the proper response of the plant to the loss of feedwater, the significance of this event is considered minimal.

Corrective Action

The failed proportional amplifier was replaced and the plant was restarted. The Feedwater Control System is scheduled to be replaced in the upcoming refueling outage.

Similar Events

- LER 91-005 "Automatic Reactor Scram Due to Loss of Feedwater Flow Caused by a Grounded Condensate Pump Motor"
- LER 85-006 "Reactor Scram due to Low Water Level"