To:

James P. O'Reilly

Directorate of Regulatory Operations

Region I

631 Park Avenue

King of Prussia, Pennsylvania 19406

From:

Jersey Central Power & Light Company

Oyster Creek Nuclear Generating Station Docket #50-219

Forked River, New Jersey 08731

Subject:

Abnormal Occurrence Report No. 50-219/74/ 2

The following is a preliminary report being submitted

in compliance with the Technical Specifications

paragraph 6.6.2.

Preliminary Approval:

cc: Mr. A. Giambusso

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Awort Date:	1/9/0	Occurrence:	1100
	OYSTER CREEK NUCLE FORKED RIVER,		
		Occurrence 50-219/74/2	
IDENTIFICATION OF OCCURRENCE:	which specifies that	t the RE22 Main S a differential pr	stions, Table 3.1.1.B.2 and Steam Line high flow ressure corresponding
			normal occurrence as de-
CONDITIONS PRIOR	v Sacahi Stata I	lous w	Routine Shutdown
TO OCCURRENCE:	X Steady State P	AND DESCRIPTION OF THE PARTY OF	Operation
	Cold Shutdown	. An en	Load Changes During
	Refueling Shut Routine Startu Operation		Routine Power Operation Other (Specify)
			metals 1927 Met with a

The reactor was operating at approximately 1827 MWt with a recirculation flow of 61X10⁶ %/hr when the surveillance test was conducted.

DESCRIPTION OF OCCURRENCE: During the routine monthly surveillance testing of the RE22 Main Steam Line high flow sensors, it was observed that the RE22C and RE22E sensors actuated at a differential pressure of 100 psi, one in each of the two safety systems. This is greater than the maximum allowable level of 97.5 psid which corresponds to a Main Steam Line flow 120% of rated.

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APPARENT CAUSE OF OCCUPRENCE:	Design Manufacture Installation/ Construction Operator	Procedure Unusual Service Condition Inc. Environmental Component Failure Other (Specify)
	The cause of the failure is	under investigation.

ANALYSIS OF O CCURRENCE :

The safety significance of this event is in the loss of system redundancy. Had a high flow event developed, the ors RE22A, B, D, F, G, and H would have redundan performed e isolation function.

CORRECTIVE ACTION:

Each of the two sensors were recalibrated and returned to service as the failures were discovered.

FAILURE DATA:

Manufacturer: Barton

Type: Indicating Differential Pressure Switch

Range: 0-200 psid

Series: RE22C - 224-19938 RE22E - 278-77D

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Jersey Central Pager & Light Company



MADISON AVENUE AT PUNCH BOWL ROAD . MORRISTOWN, N. J. 07960 . 201-539-6111

General Promise Public Utilities Corporation

January 9, 1974

Mr. A. Giambusso
Deputy Director of Reactor Projects
Directorate of Licensing
United States Atomic Energy Commission
Washington, D. C. 20545



Dear Mr. Giambusso:

Subject: Oyster Creek Station
Docket No. 50-219

Main Steam Line High Radiation Monitor Failure

This letter serves to report the failure of main steam line high radiation monitor RNO5A to trip at a level of 10 times background during the quarterly calibration test. This event is considered to be an abnormal occurrence as defined in the Technical Specifications, paragraph 1.15A. Notification of this event, as required by the Technical Specifications, paragraph 6.6.2.a, was made to AEC Region I, Directorate of Regulatory Operations, by telephone on Thursday, December 27, 1973, and by telecopier on Friday, December 28, 1973.

While conducting the quarterly calibration test of the main steam line high radiation monitors, it was observed that the RNO5A log count rate monitor failed to trip at its normal set point of 1000 cps. An attempt was made to determine the actual trip point by moving the Co⁶⁰ source, used to introduce the test signal, closer to the detector. The monitor would not trip regardless of the signal applied.

A half scram was introduced into the reactor protection system and the monitor was removed from service so that it could be bench-checked. It was observed that the trip would actuate at a level of approximately 40,000 cps. It was further observed that subsequent trips occurred intermittently at 1000 cps and 40,000 cps levels on a random basis.

The faulty RNOSA log count rate monitor assembly was replaced with a spare unit which, when tested, was also found to be defective. A half scram was introduced into the reactor protection system until the original monitor assembly could be repaired. Once the repaired unit was reinstalled, a successful surveillance test was performed. The other three in-service monitors were also satisfactorily tested.

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Mr. Giambuss January 9, . 1974 The cause of the intermittent failure was traced to a cold soldered connection in the high alarm/trip section of the monitor assembly. The exact location of the failure was not determined but the portion of the circuit involved was narrowed down and after all soldered connections in this section were reworked, the problem disappeared. Pertinent information concerning the monitor assembly is given below: Equipment: RN05A Manufacturer: General Electric Company Drawing No .: 194X62961 Serial No.: 5,478,616 The purpose of the main steam line high radiation monitoring system is to isolate and scram the reactor should gross fuel failures occur causing a sudden release of fission products. Since the other three monitors were proven operable, they would have performed the scram and isolation functions associated with a main steam line high radiation condition. Therefore, the safety significance of this event was a loss of system redundancy. Since the problem with the monitor trip circuit was found and satisfactorily repaired, corrective action other than continued surveillance is not planned. A review will be made of all of the surveillance procedures for the main steam line high radiation monitors to ensure that they are sufficient for detecting malfunctions in these units. Enclosed are forty copies of this report. Very truly yours, Donald to Poss Donald A. Ross Manager, Nuclear Generating Stations Enclosures cc: Mr. J. P. O'Reilly, Director Directorate of Regulatory Operations