



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/ 23

The following is a preliminary report being submitted
in compliance with the Technical Specifications
paragraph 6.6.2.

Preliminary Approval:

J. T. Carroll, Jr. 3/18/74
J. T. Carroll, Jr. Date

cc: Mr. A. Giambusso

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Initial Telephone

Report Date: 3/16/74

Date of

Occurrence: 3/15/74

Initial Written

Report Date: 3/18/74

Time of

Occurrence: 1852OYSTER CREEK NUCLEAR GENERATING STATION
FORKED RIVER, NEW JERSEY 08731Abnormal Occurrence
Report No. 50-219/74/ 23IDENTIFICATION
OF OCCURRENCE:

Violation of the Technical Specifications, paragraph 3.1.A.3, the high flow isolation setpoint for the Isolation Condenser condensate line break sensors were found to actuate at differential pressures in excess of those as stated in Technical Specification table 3.1.1.H.2 (<27 inches ΔP H_2O).

This event is considered to be an abnormal occurrence as defined in the Technical Specifications, paragraph 1.15A.

CONDITIONS PRIOR
TO OCCURRENCE:

<u>X</u>	Steady State Power	<u> </u>	Routine Shutdown
<u> </u>	Hot Standby	<u> </u>	Operation
<u> </u>	Cold Shutdown	<u> </u>	Load Changes During
<u> </u>	Refueling Shutdown	<u> </u>	Routine Power Operation
<u> </u>	Routine Startup	<u> </u>	Other (Specify)
<u> </u>	Operation		

Power:	Reactor, 1902 MWt
	Elec., 661 MWe
Flow:	Recirc., 15.3×10^4 gpm
	Feed., 7.10×10^6 lb/hr
Reactor Pressure:	1020 psig
Stack Gas:	40,600 μ Ci/sec

DESCRIPTION
OF OCCURRENCE:

On Friday, March 15, 1974, at 1852, while performing routine surveillance testing on the Isolation Condenser condensate high flow line break sensors, it was observed that two of the four sensors (located two each on the A and B Isolation Condensers) actuated at setpoints above the Technical Specification limit of 27 inches H_2O . The two sensors, 1B11A2 and 1B11B2,

were both found to actuate at 29 inches of H₂O differential pressure. The complete condensate line break sensor surveillance results were as follows:

Isolation Condenser A

<u>Sensor</u>	<u>Trip (inches H₂O)</u>	<u>Reset (inches H₂O)</u>
1B11A1	26.5	23
1B11A2	29.5	25

Isolation Condenser B

<u>Sensor</u>	<u>Trip (inches H₂O)</u>	<u>Reset (inches H₂O)</u>
1B11B1	27	25.5
1B11B2	29	26.5

The 1B11A2 and 1B11B2 sensors were recalibrated and were surveilled to function in the proper manner. The surveillance retest results were as follows:

Isolation Condenser A

<u>Sensor</u>	<u>Trip (inches H₂O)</u>	<u>Reset (inches H₂O)</u>
1B11A2	27	23

Isolation Condenser B

<u>Sensor</u>	<u>Trip (inches H₂O)</u>	<u>Reset (inches H₂O)</u>
1B11B2	26.5	24.5

APPARENT CAUSE
OF OCCURRENCE:

☐ Design
☐ Manufacture
☐ Installation/
Construction
☐ Operator

☐ Procedure
☐ Unusual Service Condition
☐ Inc. Environmental
Component Failure
☐ Other (Specify) _____

The cause of the occurrence has been attributed to sensor drift.

ANALYSIS OF
OCCURRENCE:

The safety significance of this event lies in the loss of system redundancy. Had a condition occurred whereby the condensers would have been required to isolate, the redundant sensors, 1B11A1 and 1B11B1, would have performed the isolation function in the proper manner.

CORRECTIVE
ACTION:

Corrective action will be taken, as appropriate, pending Plant Operations Review Committee review of this occurrence.

FAILURE DATA:

Type: Barton Differential Pressure Switch
Range: 0-60 inches H₂O
Pressure Rating: 1500 psig
Serial Nos.: 1B11A2 - 278-965
1B11B2 - 278-967

Prepared by:

Arthur H. Rose

Date:

3/18/74

Jersey Central Power & Light Company



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

MEMBER OF THE

General



Public Utilities Corporation

March 25, 1974

Mr. A. Giambusso
Deputy Director for 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
Abnormal Occurrence Report No. 50-219/74/23

The purpose of this letter is to forward to you the attached Abnormal Occurrence Report in compliance with paragraph 6.6.2.a of the Technical Specifications.

Enclosed are forty copies of this submittal.

Very truly yours,

Donald A. Ross
Manager, Nuclear Generating Stations

CS
Enclosures

cc: Mr. J. P. O'Reilly, Director
Directorate of Regulatory Operations, Region I

Handwritten: 50-219

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OYSTER CREEK NUCLEAR GENERATING STATION
FORKED RIVER, NEW JERSEY 08731

Abnormal Occurrence
Report No. 50-219/74/23

Report Date

March 25, 1974

Occurrence Date

March 15, 1974

Identification of Occurrence

Violation of the Technical Specifications, paragraph 3.1.A.3, the high flow isolation set point for the isolation condenser condensate line break sensors were found to actuate at differential pressures in excess of those as stated in Technical Specification Table 3.1.1.H.2 (≤ 27 inches ΔP H₂O). This event is considered to be an abnormal occurrence as defined in the Technical Specifications, paragraph 1.15A.

Conditions Prior to Occurrence

The plant was operating at steady-state power.

The major plant parameters at the time of the occurrence were as follows:

Power:	Reactor, 1902 MWt
	Electric, 661 MWe
Flow:	Recirculation, 15.3×10^4 gpm
	Feedwater, 7.10×10^6 lb/hr
Reactor Pressure:	1020 psig
Stack Gas:	40,600 μ Ci/sec

Description of Occurrence

On Friday, March 15, 1974, at 1852, while performing routine surveillance testing on the isolation condenser condensate high flow line break sensors, it was observed that two of the four sensors (located two each on the A and B isolation condensers) actuated at set points above the Technical Specification limit of 27 inches H₂O. The two sensors, 1B11A2 and 1B11B2, were both found to actuate at 29 inches of H₂O differential pressure. The complete condensate line break sensor surveillance results were as follows:

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Isolation Condenser "A"

<u>Sensor</u>	<u>Trip (Inches H₂O)</u>	<u>Reset (Inches H₂O)</u>
1B11A1	26.5	23
1B11A2	29.5	25

Isolation Condenser "B"

<u>Sensor</u>	<u>Trip (Inches H₂O)</u>	<u>Reset (Inches H₂O)</u>
1B11B1	27	25.5
1B11B2	29	26.5

The 1B11A2 and 1B11B2 sensors were recalibrated and were surveilled to function in the proper manner. The surveillance retest results were as follows:

Isolation Condenser "A"

<u>Sensor</u>	<u>Trip (Inches H₂O)</u>	<u>Reset (Inches H₂O)</u>
1B11A2	27	23

Isolation Condenser "B"

<u>Sensor</u>	<u>Trip (Inches H₂O)</u>	<u>(Inches H₂O)</u>
1B11B2	26.5	24.5

Apparent Cause of Occurrence

The cause of the occurrence has been attributed to the lack of sensor repeatability.

Analysis of Occurrence

The safety significance of this event lies in the inability of the redundant sensors to perform at the Technical Specification limit set point.

Had a condition occurred whereby the condenser would have been required to isolate, the redundant sensors, 1B11A1 and 1B11B1, would have performed the isolation function in the proper manner.

Corrective Action

After an evaluation of the November 14, 1972 isolation condenser test data, it has been concluded that changing the trip set point of the isolation condenser condensate high flow line break sensors from the Technical Specifications limit of 27 inches of water to 24 inches of water and the trip set point of isolation condenser steam high flow line break sensors from 20 psig to 15 psig will not adversely affect the isolation function of these sensors under transient conditions. The appropriate procedures are now being revised in preparation for implementing these set point changes. Actual implementation will take place by March 27, 1974.

It is expected that these changes will help avoid creating abnormal occurrences as a result of the lack of sensor repeatability.

Failure Data

Type:	Barton Differential Pressure Switch
Range:	0-60 inches H ₂ O
Pressure Rating:	1500 psig
Serial Nos.:	1B11A2 - 278-965 1B11B2 - 278967