

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 ( $\leq 27$  inches  $\Delta P$  H<sub>2</sub>O). 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, $15.3 \times 10^4$ gpm
	Feedwater, $7.10 \times 10^6$ lb/hr
Reactor Pressure:	1020 psig
Stack Gas:	40,600 $\mu$ 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 H<sub>2</sub>O. The two sensors, 1B11A2 and 1B11B2, were both found to actuate at 29 inches of H<sub>2</sub>O 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 H<sub>2</sub>O)</u>	<u>Reset (Inches H<sub>2</sub>O)</u>
1B11A1	26.5	23
1B11A2	29.5	25

Isolation Condenser "B"

<u>Sensor</u>	<u>Trip (Inches H<sub>2</sub>O)</u>	<u>Reset (Inches H<sub>2</sub>O)</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 H<sub>2</sub>O)</u>	<u>Reset (Inches H<sub>2</sub>O)</u>
1B11A2	27	23

Isolation Condenser "B"

<u>Sensor</u>	<u>Trip (Inches H<sub>2</sub>O)</u>	<u>(Inches H<sub>2</sub>O)</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 <sub>2</sub> O
Pressure Rating:	1500 psig
Serial Nos.:	1B11A2 - 278-965
	1B11B2 - 278967