


Jersey Central Power & Light Company



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MEMBER OF THE
General  Public Utilities Corporation

January 29, 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. 50-219/74/8

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

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OYSTER CREEK NUCLEAR GENERATING STATION
FORKED RIVER, NEW JERSEY 08731

Abnormal Occurrence
Report No. 50-219/74/8

Report Date:

January 29, 1974

Occurrence Date:

January 17, 1974

Identification of Occurrence:

Violation of the Technical Specifications, paragraph 2.3.5, which requires that isolation condenser system initiation occur with a time delay of <15 seconds after a specified high reactor pressure is reached. This event is considered to be an abnormal occurrence as defined in the Technical Specifications, paragraph 1.15A.

Identification of this item as constituting a Technical Specification violation which required reporting occurred during a routine review of the surveillance test sheet prior to its being filed. The excessive time delay was recognized as not being in conformance with the applicable Technical Specification during performance of the test and was reset at that time.

Conditions Prior to Occurrence:

The plant was shut down with reactor coolant at $<212^{\circ}\text{F}$.

Description of Occurrence:

While performing a routine surveillance test on the reactor high pressure-isolation condenser initiation switches, contacts on three out of the four associated time delay relays failed to close within the preset time delay of 15 seconds (after each pressure switch was tripped and the associated relay deenergized). The delay times of these three relays were found to be as follows:

6K9 - 20 seconds
6K11 - 16.7 seconds
6K12 - 18 seconds

Each of the involved time delay relays was immediately reset to less than 15 seconds.

Apparent Cause of Occurrence:

Instrument drift has been identified as the cause of these excessive time delays.

Analysis of Occurrence:

Four pressure switches in the reactor protection system (RPS) activate the isolation condenser system when there is a persistent 15 second condition with reactor pressure at or above 1060 psig. Two of these pressure switches with associated time delay relays 6K9 and 6K10 are in one RPS channel, and the other two pressure switches with associated time delay relays 6K11 and 6K12 are in the other RPS channel. High pressure signals from two pressure switches, one in each RPS channel, are required to activate the isolation condenser system (coincidence of two RPS channels, each of which is tripped by one of two pressure sensors). Accordingly, the excessive time delays of these three time delay relays would have resulted in an isolation condenser system initiation delay time greater than 15 seconds had the isolation pressure been reached. As detailed in Attachment 65 to the FDSAR, at least one of the isolation condensers is required to act as a means of heat removal during a postulated loss of coolant accident. There is no evidence to indicate that isolation condenser system initiation would not have taken place with the three time delay relays operating as found. There does not appear to be any technical basis for the 15 second setting of the time delay relay.

Corrective Action:

Further research will be done to clarify the requirements for the 15 second time delay. In the interim, the time delay set point will be reduced to 10 seconds.

Failure Data:

Pertinent manufacturer data are listed below:

Manufacturer:	Agastat
Model:	7022 PDT
Range:	5 to 50 seconds
Coil:	120V DC
Serial Numbers:	6K9 - 1712235
	6K11 - 1712237
	6K12 - 1712228

The ongoing review of past surveillance test records has revealed the following heretofore unreported discrepancies with respect to the 15 second time delay limit:

<u>Date</u>	<u>Sensor/Relay</u>	<u>As Found Time Delay</u>
4/12/73	RE15A/6K9	15.5 sec.
6/19/73	RE15D/6K12	29 sec.
9/28/73	RE15C/6K11	36 sec.
11/21/73	RE15B/6K10	15.5 sec.
	RE15C/6K11	16.9 sec.
	RE15D/6K12	16 sec.

It is expected that increased awareness of Technical Specification limits on the part of individuals associated with the testing program will ensure that future discrepancies will be promptly reported.