

DCS No: 50317-841210
Date: December 13, 1984

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-84-104

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

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| Facility: Baltimore Gas and Electric Company Calvert Cliffs Nuclear Power Station Unit 1 (50-317) Lusby, Maryland | Licensee Emergency Classification: ____ Notification of Unusual Event ____ Alert ____ Site Area Emergency ____ General Emergency <u>X</u> Not Applicable |
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Subject: DEGRADED SALT WATER SYSTEM

On December 10, 1984, the licensee informed the Senior Resident Inspector (SRI) of deterioration of the Salt Water System (SWS). Two leaks have developed. Each is on an isolable elbow section of the concrete-lined SWS piping downstream of the No. 11 and No. 12 salt water pumps. The licensee has kept the system in operation by placing a temporary patch over one leak and isolating the pipe section containing the second. There is no immediate safety hazard associated with the currently identified degradation.

The licensee had previous corrosion problems with the SWS (Ref: PNO-I-84-41, -42, -42A and Meeting 50-317/84-41). Unit 1 was shutdown in May 1984 when extensive deterioration was discovered in the salt water channel heads of both the primary and secondary component cooling water heat exchangers on both Units 1 and 2 (eight heat exchangers total). In addition, other salt water system components were subsequently identified as being degraded but at markedly different rates depending on the local environment. Concrete-lined pipe sections were not identified as a significant deterioration problem at Unit 1 before the current problem, but piping similar to the leaking Unit 1 pipe had been replaced on Unit 2 with a rubber-lined carbon steel pipe.

Presently, preliminary ultrasonic testing indicates that the corrosion/erosion of the leaking pipe section is localized. Current plans are to replace the leaking sections of pipe and examine adjacent isolable sections. If the excessive deterioration is not localized to the elbow sections, nondestructive examination of accessible concrete-lined SWS sections will be performed to assess the problem further. Also, a complete walkdown of the SWS piping is planned during the Spring 1985 refueling outage.

The SRI is following the licensee's inspection program and evaluation. Region I will continue to follow the licensee's action. The State of Maryland has been notified. This PN is for information.

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