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ARTHUR E. LUNDVALL, JR.  
VICE PRESIDENT  
SUPPLY

December 2, 1983

U.S. Nuclear Regulatory Commission  
Office of Inspection & Enforcement  
Washington, DC 20555

ATTENTION: Mr. Richard C. DeYoung, Director

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit 1; Docket No. 50-317  
Report of Steam Generator Tube Plugging

REFERENCE: (a) Technical Specifications, Calvert Cliffs Unit 1

ATTACHMENT: (1) Tubes Plugged #11/#12 Steam Generator

Gentlemen:

As required by Technical Specification 4.4.5.5, this letter reports the number of tubes plugged in the Calvert Cliffs Unit 1 Steam Generators during the recent November 1983 Inservice Inspection. Three (3) tubes were found to have service induced degradation which exceeded the Technical Specification plugging limit of 40% loss of nominal wall thickness, one (1) in #11 Steam Generator and two (2) in #12 Steam Generator. In addition, portions of two (2) Steam Generator tubes were removed from #11 Steam Generator for detailed metallurgical examination. These five (5) tubes were removed from service by plugging the hot and cold leg tube ends with mechanical tube plugs.

The number of tubes examined by Eddy Current Testing (ECT) exceeded the requirements of the Calvert Cliffs Unit 1 Technical Specifications. Indications were found on a total of 35 tubes from the approximately 2,000 tubes examined (1,000/generator). As stated above, three of these indications exceeded the plugging limit of 40% loss of nominal wall and required the tube be plugged. The indications were all of a small volume and small area nature. The indications were not localized in any particular area of the tube bundle.

In addition to eddy current testing, a hydrostatic pressure test was performed on both #11 and #12 Steam Generators secondary sides in accordance with ASME Section XI. During the hydrostatic pressure testing no secondary to primary tube leakage was found.

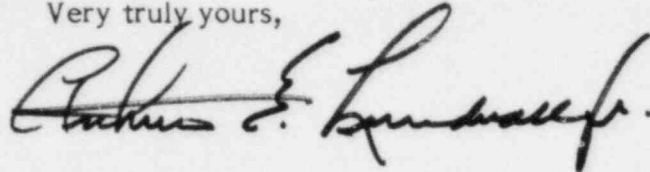
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Mr. Richard C. DeYoung  
December 2, 1983  
Page 2

Attachment (1) lists the tubes plugged during the 1983 Unit 1 Refueling Outage along with the reason for plugging the tube. Should you have further questions regarding this matter, please do not hesitate to contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Robert E. Lundberg".

AEL/KMH/gla

Attachment

cc: J. A. Biddison, Esquire  
G. F. Trowbridge, Esquire  
D. H. Jaffe, NRC  
R. E. Architzel, NRC

### ATTACHMENT (I)

#### #11 Steam Generator Tubes Plugged During the Unit 1 1983 Outage

<u>LINE</u>	<u>ROW</u>	<u>HOT LEG QUAD</u>	<u>REASON FOR PLUGGING</u>
23	136	2	ECT indication of 48% wall loss originating on the OD of the tube 24" above the #6 egg crate support on the hot leg.
60	99	2	Portion of tube removed to perform detailed metallurgical examination of ECT indication of 20% wall loss originating on the OD of the tube at the #3 "batwing" support.
61	96	2	Portion of tube removed to perform detailed metallurgical examination of ECT indications ranging up to 22% wall loss originating on the OD between the #2 and #4 "batwing" supports.

#### #12 Steam Generator Tubes Plugged During the Unit 1 1983 Outage

<u>LINE</u>	<u>ROW</u>	<u>HOT LEG QUAD</u>	<u>REASON FOR PLUGGING</u>
13	96	3	ECT indication of 46% wall loss originating on the OD of the tube 30" above the #1 "egg crate" support on the cold leg.
7	124	3	ECT indication of 45% wall loss originating on the OD of the 12" above the #8 "egg crate" support on the hot leg.