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ARTHUR E. LUNDVALL, JR.  
VICE PRESIDENT  
SUPPLY

December 9, 1985

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

ATTENTION: Mr. James M. Taylor, Director

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit 2; Docket No. 50-318  
Report of Steam Generator Tube Plugging

REFERENCE: (a) Technical Specifications, Calvert Cliffs Unit 2

ATTACHMENT: (1) Tubes Plugged #21/#22 Steam Generator  
(2) Tube Support Location Drawing

Gentlemen:

As required by Technical Specification 4.4.5.5, this letter reports the number of tubes plugged in the Calvert Cliffs Unit 2 Steam Generators during the recent October 1985 Inservice Inspection. Thirteen tubes were found to have service induced degradation which exceeded the Technical Specification plugging limit of 40% loss of nominal wall thickness, nine in #21 Steam Generator and four in #22 Steam Generator. These thirteen 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 exceeded the requirements of the Calvert Cliffs Unit 2 Technical Specifications. Indications were found on a total of 59 tubes from the approximately 4,512 tubes examined (2,066 #21 steam generator and 2,446 #22 steam generator). As stated above, thirteen of these indications exceeded the plugging limit of 40% loss of nominal wall and required the tube be plugged.


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Mr. James M. Taylor  
December 9, 1985  
Page 2

Attachment (1) lists the tubes plugged during the 1985 Unit 2 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,

  
for A. E. Lundvall, Jr.  
Vice President-Supply

AEL/JEM/gla

Attachment

cc: D. A. Brune, Esquire  
G. F. Trowbridge, Esquire  
D. H. Jaffe, NRC  
T. Foley, NRC

## ATTACHMENT (1)

### #21 Steam Generator Tubes Plugged During the Unit 2 1985 Outage

<u>ROW</u>	<u>LINE</u>	<u>REASON FOR PLUGGING</u>
14	142	Eddy Current Testing indication of 59% wall loss originating on the outside diameter of the tube 0.8" above the hot tubesheet (HTS*).
21	141	Eddy Current Testing indication of 52% wall loss originating on the outside diameter of the tube 1.0" above the hot tubesheet (HTS*).
23	141	Eddy Current Testing indication of 48% wall loss originating on the outside diameter of the tube 0.7" above the hot tubesheet (HTS*).
44	132	Eddy Current Testing indication of 59% wall loss originating on the outside diameter of the tube 30.0" above the H1* support.
80	52	Eddy Current Testing indication of 80% wall loss originating on the outside diameter of the tube 0.6" above the hot tubesheet (HTS*).
132	58	Eddy Current Testing indication of 40% wall loss originating on the outside diameter of the tube 26" above H3* support.
136	64	Eddy Current Testing indication of 56% and 53% wall loss originating on the outside diameter of the tube 18.1" and 21.5" above the cold tubesheet (CTS*).
139	87	Eddy Current Testing indication of 48% wall loss originating on the outside diameter of the tube 11.4" above the hot tubesheet (HTS*).
140	86	Eddy Current Testing indication of 48% wall loss originating on the outside diameter of the tube 11.5" above the hot tubesheet (HTS*).

\*Reference Attachment (2) for support locations.

### ATTACHMENT (1)

#22 Steam Generator Tubes Plugged During the Unit 2 1985 Outage

<u>ROW</u>	<u>LINE</u>	<u>REASON FOR PLUGGING</u>
21	5	Eddy Current Testing indication of 43% wall loss originating on the outside diameter of the tube 32.2" above H1* support.
34	76	Eddy Current Testing indication of 44% wall loss originating on the outside diameter of the tube at the diagonal hot (DH*) support.
55	139	Eddy Current Testing indication of 67% wall loss originating on the outside diameter of the tube 11.4" above H4* support.
88	28	Eddy Current Testing indication of 48% wall loss originating on the outside diameter of the tube at the vertical middle (VM*) support.

\* Reference Attachment (2) for support locations.

**Figure 1.1**  
**Steam Generator Drawing**

