

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 31, 2005

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 05-339
NL&OS/vlh R1
Docket No. 50-281
License No. DPR-37

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
SURRY POWER STATION UNIT 2
STEAM GENERATOR TUBE INSPECTION REPORT

Planned eddy current inspections were conducted on the "C" steam generator during the Surry Unit 2 spring 2005 Refueling Outage. In accordance with Surry Power Station Technical Specification 4.19.F.a, this letter provides notification of the number of steam generator tubes that were plugged during the outage. The eight (8) tubes noted in the table below were plugged in "C" steam generator as a result of volumetric type indications at the hot leg top of tubesheet. The indications were caused by loose parts. The two largest indications were stabilized with a cable type stabilizer due to the inability to locate and remove the part. Determination of the tubes to be plugged was based on a conservative sizing technique (Revision 6 of the EPRI guidelines, Appendix H, technique #21998.1). This technique is considered overly conservative for volumetric dimensions greater than 0.25-inch in length. Therefore, indications were also sized using an additional sizing technique (technique #96910.1). Although less conservative, this technique is considered to provide a more accurate representation of actual tube condition based on the size and length of the indication. Even though sizing technique #96910.1 was used to get the most accurate indication sizing attainable, the most conservative indication sizing technique (#21998.1) was used for determining which tubes required plugging.

Steam Generator "C"

The following eight (8) tubes were plugged in "C" steam generator as a result of this inspection:

Location	Plugging Attribute	Maximum Measured Through-Wall Penetration		Comments
		21998.1	96910.1	
Row 31 Column 28	Wear caused by foreign object	98%	56%	Loose Part Indication
Row 32 Column 28	Wear caused by foreign object	90%	52%	Loose Part Indication

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Row 35 Column 17	Wear caused by foreign object	42%	—	Loose Part Indication
Row 35 Column 70	Wear caused by foreign object	42%	25%	Loose Part Indication
Row 35 Column 73	Wear caused by foreign object	63%	35%	Loose Part Indication
Row 36 Column 70	Wear caused by foreign object	59%	34%	Loose Part Indication
Row 37 Column 36	Wear caused by foreign object	49%	26%	Loose Part Indication
Row 41 Column 61	Wear caused by foreign object	41%	—	Loose Part Indication

No new commitments are being made as a result of this letter. If you have any questions concerning these results, please contact Mr. Gary Miller at (804) 273-2771.

Very truly yours,



C. L. Funderburk, Director
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cc: U. S. Nuclear Regulatory Commission
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