

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

May 14, 2003

Director of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
Washington, DC 20555-0001

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**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNIT 1**  
**STEAM GENERATOR TUBE INSPECTION REPORT**

Planned inservice inspection of the Surry Unit 1 "B" steam generator was completed during the Spring 2003 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.

**Steam Generator "B"**

The following seven (7) tubes were plugged in "B" steam generator as a result of this inspection:

Location	Plugging Attribute	Maximum Measured Through-Wall Penetration	Comments
Row 1 Column 9	Wear caused by monorail during sludge lancing	39%	Preventatively plugged
Row 1 Column 28	Wear caused by monorail during sludge lancing	28%	Preventatively plugged
Row 1 Column 67	Wear caused by monorail during sludge lancing	31%	Preventatively plugged
Row 1 Column 86	Wear caused by monorail during sludge lancing	41%	Wear in excess of Technical Specifications limit
Row 1 Column 34	Dent	N/A	Preventatively plugged
Row 21 Column 76	Signal noise caused by permeability variations	N/A	Preventatively plugged
Row 16 Column 50	Dent	N/A	Preventatively plugged

A-047

### Steam Generator "C"

During the inspection of "B" steam generator, four (4) row 1 tube locations were identified with indications that resulted from monorail wear caused by sludge lancing operations that were conducted in the Spring of 2000. Row 1 tubes had previously been plugged in Unit 1 "A" steam generator as a result of the same sludge lancing operation. Since "C" steam generator had also been sludge lanced in the spring of 2000, it was determined that "C" steam generator should also be opened and inspected. To bound the area where wear from the monorail could potentially occur, twenty (20) tubes were inspected in "C" Steam generator. Four (4) tubes were preventatively plugged as a result of this inspection. As shown below, these tubes were at the same locations as those identified in "B" steam generator:

Location	Plugging Attribute	Maximum Measured Through-Wall Penetration	Comments
Row 1 Column 9	Wear caused by monorail during sludge lancing	16%	Preventatively plugged
Row 1 Column 28	Wear caused by monorail during sludge lancing	30%	Preventatively plugged
Row 1 Column 67	Wear caused by monorail during sludge lancing	35%	Preventatively plugged
Row 1 Column 86	Wear caused by monorail during sludge lancing	34%	Preventatively plugged

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  
Nuclear Licensing and Operations Support

cc: U. S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, GA 30303-8931

Mr. R. A. Musser  
NRC Senior Resident Inspector  
Surry Power Station

Mr. C. Gratton  
NRC Senior Project Manager  
U. S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Mail Stop 8G9  
Rockville, MD 20852