

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

April 26, 1978



Mr. Edson G. Case, Acting Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Serial No. 234  
PO&M/DLB:das  
Docket No. 50-280  
License No. DPR-32

Attention: Mr. Robert W. Reid, Chief  
Operating Reactors Branch 4

**REGULATORY DOCKET FILE COPY**

Dear Mr. Case:

The purpose of this letter is to present the Surry Unit No. 1 steam generator surveillance program for the outage which began on April 22, 1978. The program will consist of the following:

1. Eddy current testing of U-bends as follows:
  - a. Unplugged tubes in all steam generators rows 1-5, columns 1-94 tested at 100 KHZ using beaded flex probe.
  - b. Any tubes which give indications at 100 KHZ will be reprobbed at 400 KHZ.
2. Tube gauging will be conducted in the cold legs of all steam generators utilizing probe sizes 0.610" and 0.540". Extent of gauging is as indicated on Figure 1 (dashed line).
3. Tube gauging will be conducted in the hot legs of all steam generators utilizing three different eddy current probe sizes (0.540", 0.610", and 0.650" diameters). Extent of gauging is indicated in Figure 1 (solid line). The 15% strain contour at 11.5 EFPM past closure was utilized as the basis for the boundary.
4. Wrapper to shell annulus measurements will be performed in steam generator C.
5. Handhole inspections using photographs will be performed to inspect flow slots and determine the extent of hourglassing on the visible tube support plates in all steam generators.
6. All tubes which did not pass a .650" probe during the inspection of November 1977 will be tested as well as surrounding tubes for a distance of 2 tubes in all directions. For any surrounding tube which does not pass the .650" probe, all of its surrounding tubes for a distance of 2 tubes in all directions will be tested; this process continuing until no further indications are found.

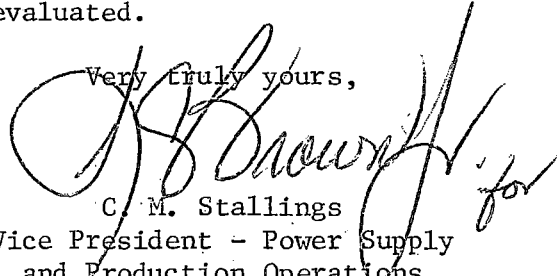
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7. Preventive plugging based on inspection results.

The plugging program and its associated operating period will be forwarded when the surveillance program data has been evaluated.

Very truly yours,

  
C. M. Stallings  
Vice President - Power Supply  
and Production Operations

Attachment (Figure 1)

cc: Mr. James P. O'Reilly

# SERIES 51

