

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

May 8, 2000

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

Serial No.: 00-251  
NLOS/mm  
Docket No.: 50-280  
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Gentlemen:

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

Planned inservice inspection of the Surry Unit 1 "C" steam generator was completed during the spring 2000 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 "C"**

Eight tubes were administratively plugged based on the review of the current inspection data, evaluations required by the S/G Program Plan (SPS-SGMIPP-001, Rev. 2) and updated industry information as referenced in the pre-outage assessment. No indications exceeding 40% through wall were detected. The following indications were evaluated and plugged:

Row/Col	Location	Indication	%Through Wall
R31 C13	AV4	%WEAR	26
R37 C20	AV2	%WEAR	22
R41 C27	AV2	%WEAR	22
R42 C29	AV1	%WEAR	30
R42 C30	AV3	%WEAR	20
R34 C60	AV3	%WEAR	33
R31 C82	AV2	%WEAR	24
R11 C38	AV2 + 1.19	VOL/WEAR	22

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The following tubes were administratively plugged due to projected growth that would approach structural integrity limits prior to the next inspection:

R42 C29  
R34 C60

The following tubes were administratively plugged due to a higher than expected growth rate:

R37 C20 - 7.33% per cycle  
R41 C27 - 7.33% per cycle  
R31 C82 - 8.00% per cycle  
R42 C30 - 6.67% per cycle

The following tube was administratively plugged based on AVB wear along with a reported small dent, DNT, at 6H:

R31 C13

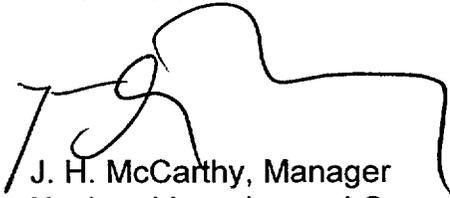
The following tube was administratively plugged due to a volumetric indication (VOL):

R11 C38 – 22% TW indication located between anti-vibration bars 2 and 3 (AVB 2 and AVB 3).

Since the indication reported by bobbin was not directly at an AVB location, the indication was initially called a non-quantifiable indication (NQI) and examined with a rotating pancake probe (RPC). The RPC inspection confirmed the indication to be one-sided wear. The AVB's are V-shaped bars which extend into the bundle to Row 8 and Row 11. The wear indication seen on R11 C38 appeared to correspond to the bottom of the AVB rather than at the leg of the AVB. Review of 1995 inspection results showed no evidence of the wear at this location. Due to its location, the indication was dispositioned as a volumetric indication (VOL).

No new commitments are being made as a result of this letter. If you have any questions concerning these results, please contact us.

Very truly yours,



J. H. McCarthy, Manager  
Nuclear Licensing and Operations Support

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