

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

October 25, 2000

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 00-524
NLOS/ETS
Docket No. 50-338
License No. NPF-4

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNIT 1
ASME SECTION XI INSERVICE INSPECTION PROGRAM RELIEF REQUEST

During the Spring refueling outage, North Anna Power Station Unit 1 completed examinations in the third period of the second ten-year interval. Examinations were conducted to the requirements of the 1983 Edition of ASME Section XI. In one instance interferences prohibited the complete examination of the weld.

Pursuant to 10 CFR 50.55a(g)(5), relief is requested from certain requirements of ASME Section XI Code associated with examinations where only partial coverage could be obtained. Relief request NDE-49 is attached and provides the basis of this request.

This relief request has been approved by the Station Nuclear Safety and Operating Committee. If you have any additional questions concerning this request, please contact us.

Very truly yours,



Leslie N. Hartz
Vice President - Nuclear Engineering and Services

Attachment

Commitments made in this letter:

None

A047

cc: U. S. Nuclear Regulatory Commission
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Attachment
Relief Request NDE-49

**Virginia Power Electric and Power
North Anna Power Station Unit 1**

Virginia Electric and Power Company
North Anna Power Station, Unit 1
Second Ten Year Interval
Request for Relief Number NDE-49

I. IDENTIFICATION OF COMPONENT

<u>Mark/Weld</u>	<u>Line #</u>	<u>Drawing</u>	<u>#Class</u>
8	1-RC-R-1	11715-WMKS-RC-R-1.1	1

II. CODE REQUIREMENTS

The 1983 Edition of ASME Section XI, Table IWB-2500-1, Examination Category B-A, Item Number B1.21, does not allow any limitations to the required volumetric examinations. Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, allows a reduction in coverage if the reduction is less than 10%.

III. CODE REQUIREMENTS FROM WHICH RELIEF IS REQUESTED

Relief is requested from examining the Code required volumetric examination for the identified circumferential lower head weld.

IV. BASIS FOR RELIEF

Weld 8 has been examined to the extent practical as required by the Code. Due to an obstruction from a flux thimble tube near Weld 8 the reduction in the required volumetric coverage was greater than 10% for the entire weld. Table NDE-49-1 is provided detailing the limitations experienced. An amplifying sketch is also provided. The upper sketch details the obstructed area for the perpendicular scan between 8.13° and 26.57°. No obstructions were experienced for the remainder of the weld for perpendicular scans. The lower sketch details the obstructed area for the circumferential scan between 308.66° and 26.57°. No obstructions were experienced for the remainder of the weld for circumferential scans.

V. ALTERNATE PROVISIONS

It is proposed that the examinations already completed at the reduced coverage be counted as meeting the Code requirements.

VI. STATUS

Pending

Table NDE-49-1
North Anna Unit 1
Lower Head Circumferential Weld 8
Examination Coverage Percentage Estimates
Category B-A, Item B-1.21

Beam Direction	45 Degrees		60 Degrees		70 Degrees		0 Degrees	
	Weld	Volume ¹	Weld	Volume	Weld	Volume	Weld	Volume
CCW	61	61	61	61	61	61		
CW	61	61	61	61	61	61		
In Up	92	92	92	92	96	90	92	92
Out Down	92	92	92	92	96	90		
Average	76.5		76.5		77		92	
Average of All	80.5							

¹ Volume includes base metal plus weld

**Sketch NDE-49-1
North Anna Unit 1
Lower Head Circumferential Weld 8**

