VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

June 20, 1979

REGULATORY DOCKET FILE COPY -

Mr. Victor Stello, Jr., Director	Serial No:	492
Division of Operating Reactors	PO/FHT:baw	
Office of Nuclear Reactor Regulation	Docket No.	50-280
U. S. Nuclear Regulatory Commission		50-281
Washington, D. C. 20555	License No:	DPR-32
		DPR-37

Dear Mr. Stello:

Surry Power Station Units No. 1 and 2 Information on PWR Feedwater Lines

We have reviewed your letter of May 25, 1979, requesting information concerning feedwater piping. In response, the Virginia Electric and Power Company hereby submits the attached documents for Surry Power Station Units 1 and 2. Any additional information will be forwarded as a supplemental response by July 27, 1979.

Very truly yours,

Lo. M. Stallings

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

Attachment

Note: Drawings Advanced To Engr Branch

1/1 7906250311 10

SURRY POWER STATION UNITS NO. 1 AND 2 RESPONSE TO NRC REQUEST FOR INFORMATION ON PWR FEEDWATER LINES

REF: REQUEST DATED MAY 25, 1979 TO ALL PWR LICENSEES

DESIGN

2.

1. Feedwater Pipe: 14" Seamless ; ASTM-Al06, Gr. B; Sch. 80; Mark No. P58-106B

See attachment for isometrics:

12846.22-MKS-100Gl Unit 1 Loop A Dwg. 12846.22-MKS-101Gl Unit l Loop B 12846.22-MKS-102Gl Unit 1 Loop C Unit 2 Loop A 12846.27-MKS-100Gl Unit 2 Loop B 12846.27-MKS-101G1 12846.27-MKS-102Gl Unit 2 Loop C

1105 J28 (Sheets 1 through 3) Feedwater Ring Assy.

Unit l: See Stone and Webster Nozzle and Penetration Summary, dated 6/03/79. In particular, see Table 3-2, System and Problem No.'s 323B, 322B, 334B. (attachment)

Unit 2: Summary not complete.

Ι.

FABRICATION HISTORY

II.

1. a. Steam Generator Feedwater ring:

SAl06; Gr. B; 10" Sch. 80; Wt. 2050# (also see attached drawings 1105J28, sheets 1-3)

b. Steam Generator Feedwater Nozzles:

SA508; Class 2, 16" Nozzle O.D.

16" x 14" Sch. 80 Reducer A234 WPB

c. Piping:

A106; Gr. B; Sch. 80

Nozzle to Pipe:

d. Feedwater Crossover Assembly:

SA106; Gr. B; Wt. 450#; 16" O.D. x 52.21" LG.

2. a.

16" x 14" Reducer to Steam Generator Feedwater Nozzle

Preheat:200°Root:HeliarcRemainder:Electric StickJ-Bevel:EB InsertStress Relief:1140°6 hrs. 25 min.

b. Pipe Welds:

Preheat	200°
Root:	MIG
Remainder:	Electric Stick

Open Butt

II. FABRICATION HISTORY (CONT'D.)

c. Pipe to feedwater ring: Not available

3. a. Nozzle to Pipe:

Radiography, Magnetic particle

b. Pipe to Pipe:

Radiography, Liquid Penetrant

c. Pipe to feedwater ring: N.A.

4. USAS B31.1 1967

5. N.A.

PRESERVICE/INSERVICE INSPECTION AND OPERATING HISTORY

- No Preservice was based on Section XI of the 1970 edition of the ASME Boiler and Pressure Vessel Code; Feedwater line inspection was not required.
- No Inservice inspection was based on Section XI of the 1970 edition of the ASME Boiler and Pressure Vessel Code through 1972 addenda; Feedwater line inspection was not required.

However, the Feedwater Line Nozzle area in Unit 1 was examined with Radiography and Liquid Penetrant in June 1979, for information only. The inspection area included 12" from the nozzle weld. No reportable indications were noted.

- 3. Surry Unit 1 and 2 are in the process of updating the Technical Specifications to conform with later editions of the code. The extent of future inservice inspections on the Feedwater Line is not known at this time.
- 4. Reference following attached correspondence between Vepco and NRC dated Dec. 2, 1977 through Jan. 12, 1978. Also NUREG-0291 dated Oct. 5, 1977.
- 5. Both Units 1 and 2 used Phosphate chemistry prior to 1979.

Unit 1 changed to AVT Jan. 2, 1979 Unit 2 changed to AVT Jan. 4, 1979

For control data, see attachment.

III.