

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

R. H. LEASBURG
VICE PRESIDENT
NUCLEAR OPERATIONS

December 18, 1981

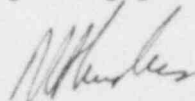
Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. Robert A. Clark, Chief
Operating Reactors Branch No. 3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 675
NO/RMF:acm
Docket Nos. 50-338
License Nos. NPF-4

Gentlemen:

Pursuant to North Anna Power Station Unit 1 Technical Specification 4.4.10.1, the Reactor Coolant System flow splitters were ultrasonically inspected during October 1981. In accordance with the Safety Evaluation for Amendment No. 16, the attached report of those inspection results is being submitted for review.

Very truly yours,



R. H. Leasburg

Enclosure

cc: Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
Region II



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Results of Ultrasonic Examination of Unit 1
Reactor Coolant Pump Flow Splitters Conducted October 1981

On October 12 thru 14, 1981 the Unit 1 flow splitter welds were ultrasonically examined in accordance with approved procedures. Several ultrasonic indications present during the April 1979 and February 1981 examinations were observed to have increased in length. The changes in the indications (February 1981 vs. October 1981) for each flow splitter are summarized below.

- "A" Loop (Containment Wall Side): The total length of indications increased from 23 inches to 34½ inches. The largest increase (6.5 inches) occurred where two indications had joined. The trailing edge of this indication was 11 inches from the trailing edge of the flow splitter plate. There were no new indications.
- "A" Loop (Reactor Vessel Side): The total length of indications increased from 4½ inches to 10 inches. The increase included a new indication of 2 inches located 59 inches from the trailing edge of the flow splitter.
- "B" Loop (Containment Wall Side): The total length of indications increased from 2" to 4". There were no new indications.
- "B" Loop (Reactor Vessel Side): The total length of indications increased from 0.5 inches to 9.5 inches. The increase included a new indication of 2.5 inches located 31 inches from the trailing edge of the flow splitter.
- "C" Loop (Containment Wall Side): The total length of indications increased by 1 inch. There were no new indications.
- "C" Loop (Reactor Vessel Side): There was no change in the length of indications.

The longest indication is approximately 12 inches and is located in A Loop (Containment Wall Side). The trailing edge of this indication is located approximately 11 inches from the trailing edge of the flow splitter.

As previously reported for all indications, the depth of the reflector was beyond the cast elbow and in the splitter plate itself. There is no evidence of degradation of the elbow pressure boundary.

As in previous inspections, there were no indications on either the leading or trailing edges of any of the flow splitters.

The Safety Evaluation of Reactor Coolant Pump Suction Elbow Splitter North Anna 1 dated April 15, 1979 evaluated the partial/total failure of the flow splitter plate. This safety evaluation gave justification for continued operation and is still applicable.