

ATTACHED TO ATTACHMENT 21 FROM PROTECTIVE FILE ONLY
PART 21 IDENTIFICATION NO. 80-275-000 COMPANY NAME Clasco

DATE OF LETTER 8/15/80 DOCKET NO. 50-338

DATE DISTRIBUTED 8/22/80 ORIGINAL REPORT ☒ SUPPLEMENTARY ☐

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REACTOR (R) ☒

IE FILES

AD/ROI (2)

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LOEB / MPA MNB 5715

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NRR/DOE

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CENTRAL FILES 016

CENTRAL FILES (CHRON)

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FUEL CYCLE & ☐

MATERIALS (M)

IE FILES

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VENDOR BR. R-IV

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CENTRAL FILES 016

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SAFEGUARDS (S) ☐

IE FILES

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REGIONS I,II,III,IV,V

VENDOR BR. R-IV

NRR/DOL

NMSS / SG SS-881

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AEOD MNB 7602

ASLBP E/W 450

CENTRAL FILES 016

CENTRAL FILES (CHRON)

CENTRAL FILES SS-396

PDR

LPDR

TERA

ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOWUP AS SHOWN BELOW:

IE ☒

NRR ☐

NMSS ☐

OTHER ☐

RCI
ROI
SG
FFMSI

8009120 702

REV. 8/1/80

VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

August 15, 1980

80-275-000

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Serial No. 712
NO/FHT:smv
Docket No. 50-338
License No. NPF-4

Dear Mr. O'Reilly:

On August 9, 1980, a report was made under the provisions of 10CFR21 concerning a potential nonconservatism in the indicated feedwater flow due to fouling of the feedwater venturi.

In accordance with the reporting requirements of 10CFR21, the following information is submitted:

A. Name and address of reporting individual:

Mr. E. A. Baum, Executive Manager
Licensing and Quality Assurance
Virginia Electric and Power Company
P. O. Box 26666
Richmond, Virginia 23261

B. Facility, activity and/or component affected:

North Anna Power Station Unit 1
Feedwater flow venturi input to reactor protection logic circuits.

C. Name of firm constructing the facility or supplying the component, activity or service:

Westinghouse Electric Corporation
NSSS Vendor

D. Description of defect, deficiency or failure to comply:

A review of Unit 1 calorimetric data revealed that indicated feedwater flow was greater than indicated steam flow. It was postulated that this was caused by fouling in the feedwater venturi. Westinghouse was asked to confirm that the indicated feedwater flow was in error.

On August 7, 1980, notice was received from Westinghouse, by letter VPU(JLV)-7, that this feedwater flow could be indicating higher than actual flow by 3% to 5% due to venturi fouling. Since the feedwater

flow signal feeds the solid state protection system, a nonconservative error in the setpoint of steam flow greater than feedwater may be produced.

E. Date of determination of reportability:

August 11, 1980

F. Similar components, activities or services:

North Anna Unit 2
Surry Units 1 and 2

G. Corrective action which has been, is being, or will be taken, the individual responsible, and the length of time to complete the action.

As a precautionary measure, a setpoint change to reduce the steam flow greater than feed flow setpoint by 5% was approved and implemented on August 7, 1980, while a detailed engineering evaluation was being performed to determine if the steam flow - feed flow setpoint was nonconservative.

On August 8, 1980, the original setpoint was confirmed to be nonconservative by approximately 4% contrary to the limits in T.S. Table 2.2-1 and reportable by T.S. 6.9.1.8.b. The precautionary setpoint adjustment made on August 7, 1980, is sufficient to compensate for this error. Feedwater fouling will be monitored by comparison to steam flow to ensure that the setpoint remains conservative. Additional adjustments to the setpoint will be made if required.

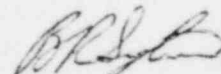
H. Other information:

Preliminary analyses indicate that the venturi fouling may be due to feedwater system corrosion products plating out on the venturi surface.

Although Surry Units 1 and 2 use similar venturis in their feedwater lines, inspections and operational monitoring have not indicated a problem with fouling at these two units.

If you have any questions or require additional information, please contact this office.

Very truly yours,



B. R. Sylvia
Manager - Nuclear
Operations and Maintenance

FHT/smv:ST2

cc: Director, Office of Inspection and Enforcement (3)