

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 22, 1989

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 89-844A
NO/DEQ/deq
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2
SUPPLEMENTAL INFORMATION AND SPECIAL REPORT
KAMAN PROCESS VENT RADIATION MONITORS
RI-GW-178 and RI-VG-179

By letter dated December 11, 1989 (Serial No. 89-844), Virginia Electric and Power Company submitted a Special Report to the NRC, pursuant to Technical Specification 6.9.2, concerning the operability status of the Kaman Process Vent Radiation Monitor, RI-GW-178. In this report, we identified the heat trace system on the sample lines as being the cause for the inoperability. We also indicated that corrective measures were scheduled to be complete and radiation monitor RI-GW-178 returned to service by December 22, 1989.

As part of the corrective measures, the radiation monitor check source was replaced. However, in preparation for the repairs to the heat trace system on the sample lines, a document review revealed that Radiation Monitor RI-GW-178 is considered a Regulatory Guide 1.97 Category 2 variable. As such, the monitor should have a reliable power supply and be included in the Environmental Qualification Program if it is located in a harsh environment. The radiation monitor is not located in a harsh environment. However, the review identified that the radiation monitor does not have a reliable power supply and that heat trace system for RI-GW-178 is located in a harsh environment and should be environmentally qualified. As a result, a Justification for Continued Operation was written and an Engineering Work Request (EWR) was generated and approved to provide the radiation monitor with a reliable power supply and environmentally qualify the heat trace system. Therefore, based on the revised scope of this project and current engineering and procurement schedules, RI-GW-178 should be returned to service by January 31, 1990.

At 1336 hours on December 18, 1989, with Unit 1 in Cold Shutdown (Mode 5) and Unit 2 at 100 percent power (Mode 1), operations personnel performing their periodic walkdowns identified the heat trace system for Kaman Vent Stack "A" Radiation Monitor RI-VG-179 as being inoperable. RI-VG-179 was removed from service and the

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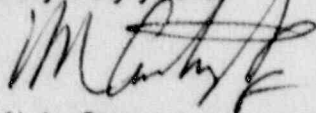
Action Statement of Technical Specification 3.3.3.1 was entered. The heat trace system for RI-VG-179 is not required to be environmentally qualified and the radiation monitor has a reliable power supply. However, the Vendor's Technical Representative was contracted to evaluate the best method to fix the heat trace system on RI-VG-179.

As a result of the evaluation, the heat trace system for RI-VG-179 will be replaced with an new heat trace system that will provide increased reliability. Based on current engineering and procurement schedules, RI-VG-179 is scheduled to be repaired and returned to service by January 31, 1990. Since the Action Statement of Technical Specification 3.3.3.1 requires that the radiation monitor be returned to operable status within 7 days or submit a Special Report within 14 days of the event, this event is reportable pursuant to Technical Specification 6.9.2.

This event will not posed any significant safety implications because the preplanned alternate method of monitoring was established within 72 hours as required by the Technical Specifications. The Westinghouse Vent Stack "A" Radiation Monitors, which provide high radiation indication to the Control Room via a strip chart recorder, common alarm, alarm lights, and the gaseous and particulate meters, remained operable throughout this event. Additionally, the Nuclear Research Corporation Radiation Monitors continued to operate throughout this event as the Technical Specification required preplanned alternate monitoring method on the "A" Vent Stack.

Additionally, the heat trace system on Kaman Process Vent Stack "B" Radiation Monitor RI-VG-180 will be evaluated and repairs or modifications implemented as necessary. If modifications to RI-VG-180 are necessary, and the radiation monitor is removed from service greater than 7 days, a separate Special Report will be submitted pursuant to Technical Specification 6.9.2.

Very truly yours,



W. L. Stewart
Senior Vice President - Nuclear

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