VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

July 25, 1994

Mr. Stewart D. Ebneter, Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N. W.
Suite 2900
Atlanta, Georgia 30323

Serial No. 94-425
NL&P/MPW/GSS R3
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Dear Mr. Ebneter:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 & 2
METEOROLOGICAL TEMPERATURE RECORDER
INOPERABLE GREATER THAN 7 DAYS SPECIAL REPORT

Pursuant to the North Anna Power Station Technical Specification 3.3.3.4, a Special Report is required due to the control room differential temperature recorder for the meteorological tower being declared inoperable for greater than 7 days. On July 14, 1994, it was determined the temperature recorder had been inoperable from June 30, 1994 through July 8, 1994.

On June 28, 1994, a new differential temperature recorder was installed in accordance with a design change package. On June 29, 1994 the recorder loop was calibrated with no problems present. Subsequently, a severe thunderstorm occurred on the night of June 29, 1994 whereby the abnormal procedure for severe weather was entered. At 0100 hours on June 30, 1994, the abnormal procedure was exited.

Upon review of the meteorological tower data on July 10, 1994, a change was noted in the differential temperature stability class which corresponded with the time the new recorder was returned to service. This stability data was inconsistent with actual weather conditions measured from the meteorological tower for the time period from June 30, 1994 to July 8, 1994. Subsequent troubleshooting and investigation determined that the output module on the signal conditioning card for the differential temperature recorder had failed. The module was replaced and the differential temperature recorder was recalibrated and returned to service on July 8, 1994. The cause of the module failure was attributed to the severe thunderstorm on the night of June 29, 1994.

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During the time period that the control room differential temperature recorder was indicating an incorrect stability class, the backup meteorological tower was available to determine the stability class using sigma theta. Likewise, the differential temperature from the dual output at the primary meteorological tower was being transmitted correctly to the corporate Air Quality Department. Either of those sources could have been used to provide the correct stability class during the time that the primary indication was out of service.

This Special Report has been reviewed by the Station Nuclear Safety and Operating Committee and will be provided to the Management Safety Review Committee.

Should you have any questions regarding this report, please contact us.

Very truly yours,

James P. O'Hanlon
Senior Vice President - Nuclear

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

Mr. R. D. McWhorter
NRC Senior Resident Inspector
North Anna Power Station