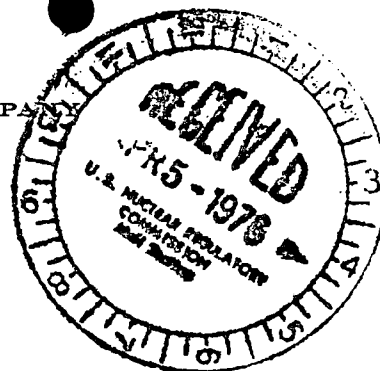


VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 1, 1976



Mr. Benard C. Rusche
Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 959
PO&M/ALH:clw

Attn: Mr. Robert W. Reid, Chief
Operating Reactors Branch 4

Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Dear Mr. Rusche:

In accordance with Technical Specification 4.14.C.1 for Surry Power Station, this report describes two occurrences during which the difference between the river water ambient temperature measured at the station high level intake and cooling water at the discharge control structure exceeded 15 degrees F.

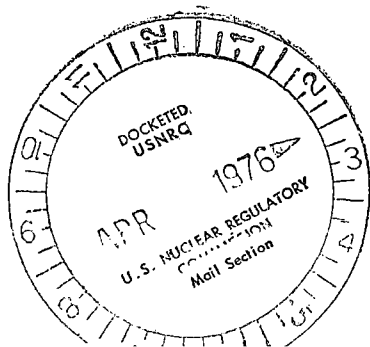
At the time of the first occurrence, both Unit Nos. 1 and 2 were operating at 100 per cent power. On March 22, 1976 at approximately 0015 hours the temperature difference (ΔT) across the station exceeded 15 degrees F. A power reduction was initiated on Unit No. 2 at 0015 hours and on Unit No. 1 at 0100 hours to reduce and maintain the temperature difference across the station within 15 degrees F. At no time did ΔT exceed 15.7 degrees F.

At the time of the second occurrence both Unit Nos. 1 and 2 were operating at 100 per cent power. On March 23, 1976 at approximately 1630 hours the temperature difference (ΔT) across the station exceeded 15 degrees F. The duration of operation with the station ΔT in excess of 15 degrees F was approximately 30 minutes. The maximum station ΔT during this period was 16 degrees F.

The temperature increase during both occurrences was caused by a rapid drop in the river water ambient temperature. This rapid cooling was the result of river tidal action and the natural cooling of river water that occurs during the afternoon and evening hours.

Radical temperature fluctuations in river water ambient temperature such as those encountered in these instances make it extremely difficult to predict when action is necessary to avoid the 15 degree F increase across the station.

REGULATORY DOCKET FILE COPY



3431

There was no evidence of any adverse environmental impacts resulting from these occurrences.

Very truly yours,

C. M. Stallings

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