

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 5, 1979

Mr. Victor Stello, Jr., Director
Division of Operating Reactors
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 014
PO/DLB:scj
Docket Nos: 50-280
50-281
License Nos: DPR-32
DPR-37

Dear Mr. Stello:

COOLING WATER DISCHARGE
TEMPERATURE CHANGE RATE

This letter report is furnished in accordance with the provisions of
Surry Power Station Technical Specification 4.15.C.1.

During the period 1400 to 1430 hours on December 27, 1978, the condenser
cooling water outlet temperature to the James River increased by 5.5°F
as measured at the station discharge structure. This temperature rate is in
excess of the rate of 3°F per hour permitted by Technical Specification
4.14.A.3. During this period, Unit No. 1 was at cold shutdown and Unit No.
2 was steady at full power. In the process of raising the intake canal level
to 26 ft. to perform a special test on the service water sub-system, three
out of four waterboxes in Unit No. 1 were throttled closed. Consequently,
the ratio of cold water from Unit No. 1 to warm water from Unit No. 2
decreased, causing the overall discharge water temperature increase. Upon
discovery, the three closed waterboxes in Unit No. 1 were valved open and
the discharge temperature decreased 5.5°F.

A memorandum to the Operations Department has been generated which
limits the changing of flow rates through the main condensers. This action
was taken in an effort to preclude recurrence of this violation.

A search was made for evidence that the temperature change rate experi-
enced had affected the river or its inhabitants. No evidence of any detrimen-
tal affects were found.

Very truly yours,

C. M. Stallings

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

REGULATORY DOCKET FILE COPY

cc: Mr. James P. O'Reilly

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