

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

February 16, 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. 097  
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 4.14.C.1.

During the period from 0230 to 0330 on February 5, 1979, the condenser  
cooling water outlet temperature exceeded a temperature change rate of  
3°F/hr., which is the maximum permitted by Technical Specification 4.14.A.3.  
Unit 1 was operating at 100% power and Unit 2 was in cold shutdown during  
the occurrence.

Discharge coolant temperature increased at about 4°F/hr. when the Unit  
2 water boxes were isolated during CLS HI HI Functional tests. The cooling  
effect on the discharge canal created by Unit 2 coolant flow was lost after  
isolation. The water boxes were returned to service and the discharge  
temperature dropped to normal.

A search was conducted to determine if the temperature change had  
affected the river environment. No evidence of detrimental effects were  
found.

Precautionary notes will be added to testing procedures to minimize  
circulating water valve transient times in an effort to preclude recurrence  
of this event.

Very truly yours,

*C. M. Stallings*

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

cc: Mr. James P. O'Reilly

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