NAC FORM 366 U. S. NUCLEAR REGULATORY COMMISSION (7.77) LICENSEE EVENT REPORT CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) 0 0 0 0 0 0 SPS 0 11 0 0 LICENSEE CODE CONT 10 19 12 16 18 13 LE 0 5 0 0 0 2 8 0 0 0 8 3 REPORT 0 1 SOURCE 50 REPORT DATE EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) With the unit at 100% power, 1-SW-P-10A failed to maintain sufficient discharge 0121 presssure when "C" control room A/C unit was placed in service and "A" control 0131 room A/C unit was removed from service. This is contrary to T.S. 3.3.A.8 0 4 and is reportable per T.S. 6.6.2.b.(2). The redundant pump remained operable 0 5 therefore the health and safety of the public were not affected 0 15 . 0 7 BIC CODE CAUSE CAUSE COMP SUBCODE SUBCODE COMPONENT CODE z 1 (13) (16) W X (12 A 0 9 18 REVISION RRENCE SEQUENTIAL REPORT NO. REPOR CODE YPE NO. EVENT LER RO REPORT NUMBER 0 8 3 0 3 9 3 28 SUBMITTED NPRD COMPONENT PRIME COMP TAKEN ACTION ON PLANT METHOD HOURS 22 FORMAUE 12 24 101 7 25 (25) 0 18) 20 19 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) The cause was due to insufficient NPSH during the evolution. 10 of changing Service water flow was throttled to the control room A/C unit A/C units. 1 1 1 1-SW-P-10A vented and returned to service 113 1 4 80 9 METHOD OF FACILITY (30) DISCOVERY DESCRIPTION (32) OTHER STATUS & POWER E 28 A (31 15 0 Annunc 80 ACTIVITY CONTENT LOCATION OF RELEASE 36 AMOUNT OF ACTIVITY (35 RELEASED OF RELEASE Z 33 Z 34 1 6 N/A 80 PERSONNEL EXPOSURES DESCRIPTION (39) TYPE NUMBER 01 : 17 N/A PERSONNEL INJURIES DESCRIPTION (41 NUMBER 0 0 40 N/A 01 18 OSS OF OR DAMAGE TO FACILIT (43) (42) N/A 9 8310040208 830926 PDR ADDCK 05000280 NRC USE ONLY PUBLICITY DESCRIPTION 45 N 44 TTTTT 1 1.1 30 S 68 60 (804) 357-3184 - - -NAME CE DEEDTEEST Wilcon

ATTACHMENT 1 (PAGE 1 OF 2) SURRY POWER STATION, UNIT NO. 1 DOCKET NO: 50-280 REPORT NO: 83-039/03L-0 EVENT DATE: 08-31-83

TITLE OF THE EVENT: SW-P-10A LOST SUCTION

### 1. DESCRIPTION OF THE EVENT:

With the unit at full power, charging pump service water pump 1-SW-P-10A lost sufficient discharge pressure when the "A" air conditioning chiller was removed from service for maintenance and the "C" chiller placed in service. This event is contrary to T.S. 3.3.A.8.b and is reportable per T.S. 6.6.2.b.(2).

### 2. PROBABLE CONSEQUENCES AND STATUS OF REDUNDANT EQUIPMENT:

The charging pump service water pumps supply water to the charging pump intermediate coolers and the lube oil coolers. During the event, the redundant pump remained operable; therefore, the health and safety of the public were not affected.

## 3. CAUSE:

The low discharge pressure was due to insufficient NPSH. Four charging pump service water pumps, along with three air conditioner chiller units are located in No. 3 equipment room. The aforementioned components are supplied with service water, via rotating strainers, from two 6" supply lines. Each supply line is gravity fed from the intake canal.

Two-inch branch lines supply service water to the charging pump service water pumps, while the service water lines to the chiller units are fourinch lines. In addition, the Unit No. 1 and Unit No. 2 "B" charging pump service pumps are located at higher elevation.

Experience has shown that the performance of the charging pump service water pumps is sensitive to the available NPSH.

#### 4. IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action was to throttle the service water flow through the chillers and vent the pump, thereby flooding the pump suction.

## 5. SUBSEQUENT CORRECTIVE ACTION:

No further actions were required.

### 6. ACTION TAKEN TO PREVENT RECURRENCE:

A design change is in progress which will relocate the charging pumps and will increase the NPSH to these pumps. The design change is scheduled for completion in the fall of 1983.

 ATTACHMENT 1 (PAGE 2 OF 2) SURRY POWER STATION, UNIT NO. 1 DOCKET NO: 50-280 REPORT NO: 83-039/03L-0 EVENT DATE: 08-31-83

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## 7. GENERIC IMPLICATIONS:

This is a generic problem to both units at Surry.

# Vepco

VIRGINIA ELECTRIC AND POWER COMPANY Surry Power Station P. Offor 315 Surry, Virginia. 23883 Serial No: 83-066 Docket No: 50-280 License No: DPR-32

SEP 2 6 1983

Mr. James P. O'Reilly Regional Administrator Suite 2900 101 Marietta Street, NW Atlanta, Georgia 30303

Dear Mr. O'Reilly

Pursuant to Surry Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following Licensee Event Report for Surry Unit 1.

## Report Mumber

Applicable Technical Specification

83-039/03L-0

T. S. 6.6.2.b(2)

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be reviewed by Safety Evaluation and Control.

Very truly yours,

Wilson Station Manager

Enclosure

cc: Document Control Desk, USNRC 016 Phillips Bldg. Washington, D. C. 20555

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