

## U.S. NUCLEAR REGULATORY COMMISSION

## LICENSEE EVENT REPORT

CONTROL BLOCK / / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

/0/1/ /V/A/N/A/S/1/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1/ (4) / / / (5)  
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT  
/0/1/ REPORT /L/ (6) /0/5/0/0/0/3/3/8/ (7) /0/7/0/6/8/3/ (8) /0/8/0/2/8/3/ (9)  
SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On July 6, 1983, with Unit 1 at 100 percent power and one High Head Safety /  
/0/3/ / Injection (HHSI) pump undergoing maintenance, a second HHSI pump was removed /  
/0/4/ / from service at 0229 due to high bearing temperature. This is contrary to the /  
/0/5/ / LCO of T.S. 3.5.2 which requires two operable HHSI pumps in Mode 1. Since the /  
/0/6/ / remaining HHSI pump was operable and a second HHSI pump was restored to operable /  
/0/7/ / within the time limits of the Action Statement, the health and safety of the /  
/0/8/ / public were not affected. This event is reportable pursuant to T.S. 6.9.1.9.b. /  
SYSTEM CAUSE CAUSE COMP. VALVE  
CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE  
/0/9/ /S/F/ (11) /E/ (12) /B/ (13) /P/U/M/P/X/X/ (14) /B/ (15) /Z/ (16)  
LER/RO EVENT YEAR SEQUENTIAL OCCURRENCE REPORT REVISION  
(17) REPORT NO. NO.  
NUMBER /8/3/ /-/ /0/4/7/ /-/ /0/3/ /L/ /-/ /0/  
ACTION FUTURE EFFECT SHUTDOWN ATTACHMENT NPRD-4 PRIME COMP. COMPONENT  
TAKEN ACTION ON PLANT METHOD HOURS SUBMITTED FORM SUB. SUPPLIER MANUFACTURER  
/A/ (18) /Z/ (19) /Z/ (20) /Z/ (21) /0/0/0/0/ (22) /Y/ (23) /Y/ (24) /N/ (25) /P/0/2/5/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The "1B" HHSI pump was tagged out for maintenance at the time of the event. The /  
/1/1/ / "1C" HHSI pump was removed from service due to a high and increasing outboard /  
/1/2/ / motor bearing temperature (>160°F). The "1B" HHSI pump was tested satisfactorily /  
/1/3/ / and returned to service at 1156 on June 6, 1983. /  
/1/4/ / /

FACILITY METHOD OF  
STATUS %POWER OTHER STATUS DISCOVERY DISCOVERY DESCRIPTION (32)  
/1/5/ /E/ (28) /1/0/0/ (29) / NA / (30) /A/ (31) / Operator Observation /  
ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)  
/1/6/ /Z/ (33) /Z/ (34) / NA / / NA /  
PERSONNEL EXPOSURES  
NUMBER TYPE DESCRIPTION (39)  
/1/7/ /0/0/0/ (37) /Z/ (38) / NA /  
PERSONNEL INJURIES  
NUMBER DESCRIPTION (41)  
/1/8/ /0/0/0/ (40) / NA /  
LOSS OF OR DAMAGE TO FACILITY (43)  
TYPE DESCRIPTION  
/1/9/ /Z/ (42) / NA /  
PUBLICITY  
ISSUED DESCRIPTION (45)  
/2/0/ /N/ (44) / NA /

NRC USE ONLY

NAME OF PREPARER E. Wayne Harrell

PHONE (703) 894-5151

8308110030 830802  
PDR ADOCK 05000338  
S PDR

Virginia Electric and Power Company  
North Anna Power Station, Unit No. 1  
Docket No. 50-338  
Attachment to LER 83-047/03L-0

Attachment: Page 1 of 1

#### Description of Event

On July 6, 1983, with Unit 1 at 100% power and the "1B" High Head Safety Injection Pump (HHSI) undergoing maintenance, the "1C" HHSI pump was removed from service due to a high motor bearing temperature ( $>160^{\circ}\text{F}$ ). This is contrary to the LCO of T.S. 3.5.2 requiring two operable HHSI pumps in Mode 1 and reportable pursuant to T.S. 6.9.1.9.b.

#### Probable Consequences of Occurrence

Operability of the Emergency Core Cooling System (ECCS) ensures sufficient core cooling is available in the event of a LOCA or steam line rupture. Since the remaining HHSI pump was operable throughout the event and a second HHSI Pump was restored to operable within the time limits of the Action Statement of T.S. 3.5.2, the health and safety of the public were not affected.

#### Cause of Event

The "1B" HHSI pump was tagged out at the time of the event in order that a design change modification could be performed. At 0229 the operating "1C" HHSI pump was secured and removed from service upon discovery of the high outboard motor bearing temperature. The motor oil reservoir was flushed and refilled and the "1C" pump was started at 0448 on recirculation while motor bearing temperatures were monitored. The outboard motor bearing temperature reached  $166^{\circ}\text{F}$  at 0520 and was slowly rising. Consequently the pump was then secured for maintenance.

Loss of oil to the outboard motor bearing through the motor oil seal is believed to have resulted in the high temperature and caused damage to the outboard bearing, shaft and motor oil seal.

#### Immediate Corrective Action

Since the design change work on the "1B" HHSI pump had not yet been started, the "1B" pump was tested satisfactorily and restored to operable status at 1156 on June 6, 1983.

#### Scheduled Corrective Action

The damage to the "1C" HHSI pump will be repaired.

#### Action Taken To Prevent Recurrence

No further action is required.

#### Generic Implications

There are no generic implications associated with this event.

# Vepco

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
P. O. BOX 402  
MINERAL, VIRGINIA 23117

USNRC REGION II  
ATLANTA, GEORGIA  
83 AUG 8 49:16

August 2, 1983

Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30303

Serial No. N-83-105  
NO/JRR: 11  
Docket No. 50-338  
License No. NPF-4

Dear Mr. O'Reilly:

Pursuant to North Anna Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following License Event Report applicable to North Anna Unit No. 1.

Report No.	Applicable Technical Specifications
LER 83-047/03L-0	T.S. 6.9.1.9.b

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to Safety Evaluation and Control for their review.

Very Truly Yours,

  
E. Wayne Harrell  
Station Manager

Enclosures (3 copies)

cc: Document Control Desk (1 copy)  
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U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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