|                 | UPDATE REPORT - PREVIOUS REPORT DATE 10-19-83  |
|-----------------|--|
| -               | LICENSEE EVENT REPORT  |
| /0/1/           | CONTROL BLOCK / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) $\underline{/\nu/A/N/A/S/1/(2)}$ $\underline{/0/0/-/0/0/0/0/-/0/0/(3)}$ $\underline{/4/1/1/1/1/(4)}$ $\underline{///(5)}$ LICENSZE CODELICENSE NUMBERLICENSE TYPECAT   |
| /0/1/           | $\frac{\text{REPORT}}{\text{SOURCE}} \frac{1}{L} \frac{10}{5} \frac{10}{5} \frac{10}{0} \frac{10}{3} \frac{3}{3} \frac{8}{8} \frac{10}{2} \frac{10}{3} \frac{10}{3$ |
|                 | EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)   |
| /0/2/           | / On September 21, 1983, with Unit 1 at 100 percent power and one High Head Safety /   |
| /0/3/           | / Injection (HHSI) pump out of service, a second HKSI pump was removed from service/   |
| /0/4/           | / at 2350 due to high bearing vibrations. This is contrary to the LCO of T.S. /  |
| /0/5/           | / 3.5.2 which requires two operable HHSI pumps in Mode 1. Since the remaining HHSI/  |
| /0/6/           | / pump was operable and a second HHSI pump was restored to operable within the time/   |
| /0/7/           | / limits of the Action Statement, the health and safety of the public were not /   |
| /0/8/           | / affected. This event is reportable pursuant to T.S. 6.9.1.9.b.       /         SYSTEM       CAUSE       COMP.       VALVE         CODE       CODE       SUBCODE       COMPONENT CODE       SUBCODE   |
| /0/9/           | $\frac{/S/F}{(11)} \frac{/E}{(12)} \frac{/B}{(12)} \frac{/P/U/M/P/X/X}{(14)} \frac{/B}{(15)} \frac{/Z}{(16)}$ $\frac{/Z}{(16)}$ REVISION REVISION REVISION REVISION  |
| (17)            | LER/RO     EVENT TEAR     REPORT NO.     CODE     TIPE     NO.       NUMBER $/8/3/$ $/-/$ $/0/6/1/$ $///$ $/0/3/$ $/X/$ $/-/$ $/1/$  |
| ACTION<br>TAKEN | FUTURE         EFFECT         SHUTDOWN         ATTACHMENT         NPRD-4         PRIME COMP. COMPONENT           ACTION         ON PLANT         METHOD         HOURS         SUBMITTED         FORM SUB.         SUPPLIER         MANUFACTURER  |
| <u>/x</u> / (18 | 3) $\underline{/A/}$ (19) $\underline{/Z/}$ (20) $\underline{/Z/}$ (21) $\underline{/0/0/0/}$ (22) $\underline{/Y/}$ (23) $\underline{/Y/}$ (24) $\underline{/N/}$ (25) $\underline{/P/0/2/5/}$ (26)   |
| C               | AUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)   |
| /1/0/           | / The "1C" HHSI pump was tagged out for maintenance at the time of the event. The /  |
| /1/1/           | / "1A" HHSI pump was removed from service due to high thrust bearing vibrations. /   |
| /1/2/           | / The "IC" HHSI pump was tested satisfactorily and returned to service at 1931 on /  |
| /1/3/           | / September 22, 1983. /  |
| /1/4/           | 1/   |
|                 | FACILITY METHOD OF<br>STATUS ZPOWER OTHER STATUS DISCOVERY DISCOVERY DESCRIPTION (32)  |
| /1/5/           | <u>/E/ (28) /1/0/0/ (29) / NA / <sup>(30)</sup> /B/ (31) / Surveillance Test /</u>   |
|                 | RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)   |
| /1/6/           | /Z/ (33) /Z/ (34) / NA / / NA // NA // NA //   |
| <u>/1/7/</u>    | NUMBER         TIPE         DESCRIPTION (39)           /0/0/0/ (37) /Z/ (38)         /         NA         /           PERSONNEL INJURIES         /         /         /   |
| /1/8/           | NUMBER     DESCRIPTION (41)       /0/0/0/     (40) /       NA     /       LOSS OF OR DAMAGE TO FACL ITY     /  |
| /1/9/           | TYPE DESCRIPTION (43)<br><u>/Z/</u> (42) / NA (43)   |
| /2/0/           | ISSUED         DESCRIPTION (45)         NRC USE ONLY           /N/ (44)         /         NA         ////////////////////////////////////  |
|                 | NAME OF PREPARER E. Wayne Harrell PHONE (703) 894-5151   |
|                 | 8403060153 840229<br>PDR ADOCK 05000338  |

#### UPDATE REPORT - Previous Report Date 10-19-83

Virginia Electric and Power Company North Anna Power Station, Unit No. 1 Attachm Docket No. 50-338 Attachment to J.ER 83-061/03X-1

Attachment: Page 1 of 2

## Description of Event

On September 21, 1983, with Unit 1 at 100 percent power and the "IC" High Head Safety Injection Pump (HHSI) out of service, the "IA" HHSI pump was removed from service due to high thrust bearing vibrations (2.8 mils) encountered during the monthly surveillance test. 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 "1C" HHSI pump was tagged out at the time of the event in order to facilitate design change work on the Service Water System. At 2350, the "1A" HHSI pump was found to have high thrust bearing vibrations (2.8 mils.) via the monthly surveillance test. The "1A" pump was secured and removed from service and the "1B" pump was started.

An inspection of the "IA" HHSI pump revealed a warped pump shaft which resulted in the high thrust bearing vibrations.

## Immediate Corrective Action

The "1C" HHSI pump was tested satisfactorily and restored to operable status at 1931 on September 22, 1983.

## Scheduled Corrective Action

The pump shaft of the "IA" HHSI pump was replaced and the pump was tested satisfactorily on October 15, 1983 pursuant to the applicable requirements.

Three of the six HHSI pump shafts have been replaced on the two units at North Anna. The remaining shafts are scheduled to be replaced with the latest generation shaft by January 1, 1985.

4

# Action Taken To Prevent Recurrence

An investigation revealed that new shafts often require straightening at the factory. This used to be accomplished by peening the high side of the bow. It is believed that during operation the shaft tends to revert back to its o iginal shape as the stresses created during peening are relieved. Present peening methods should eliminate this problem.

# Generic Implications

There are no generic implications associated with this event.



VIRGINIA ELECTRIC AND POWF". "OMPANY NORTH ANNA POWER STATION

P. C. BOX 402 MINERAL, VIRGINIA 23117

February 29, 1984

U. S. Nuclear Regulatory Commission Decument Control Desk Olf Phillips Building Washington, D.C. 20555 Serial No. N-83-141A NO/JRR: 11 Docket No. 50-338

License No. NPF-4

#### Dear Sirs:

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

Report No.

Applicable Technical Specifications

LER 83-061-03X-1

T.S. 6.9.1.9.b

IE22 11,

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 for Station Manager

Enclosures (3 copies)

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