

LICENSEE EVENT REPORT

CONTROL BLOCK: [] [] [] [] [] [] [] [] [] [] [] [] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | N | E | F | C | S | 1 | (2) | U | 0 | - | U | 0 | 0 | 0 | 0 | 0 | 0 | - | U | 0 | 0 | (3) | 4 | 1 | 1 | 1 | 1 | (4) | [] [] [] [] [] [] (5)

CON'T

01 | REPORT SOURCE | L | (6) | 0 | 5 | 0 | 0 | 0 | 2 | 8 | 5 | (7) | 1 | 2 | 1 | 1 | 8 | 2 | (8) | 1 | 2 | 1 | 5 | 8 | 2 | (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During performance of "refueling" surveillance test ST-ESF-3, F.2, "Containment
03 | Pressure Channel Check", pressure switch A/PC-742-1 was found to initiate above the
04 | Technical Specification limit of 5 psig. Pressure switch A/PC-742-1 is one of four
05 | switches in the "A" channel of the containment pressure high signal (CPHS) initi-
06 | ation matrix. During the time period A/PC-742-1 would have failed to initiate at
07 | or below 5 psig, the other three pressure switches of the "A" channel were oper-
08 | ational and a CPHS could have been initiated by two of these three switches actuat-
09 | ing. Additionally, the redundant "B" channel pressure switches which initiate the
10 | "B" CPHS were fully operable and would have actuated to mitigate the consequences
11 | of an accident, if required.

09	SYSTEM CODE	IB (11)	CAUSE CODE	E (12)	CAUSE SUBCODE	X (13)	COMPONENT CODE	INSTRU (14)	COMP. SUBCODE	S (15)	VALVE SUBCODE	Z (16)
(17)	LER/RO REPORT NUMBER	82	EVENT YEAR	82	SEQUENTIAL REPORT NO.	021	OCCURRENCE CODE	03	REPORT TYPE	L	REVISION NO.	0
18	ACTION TAKEN	EA	FUTURE ACTION	LA	EFFECT ON PLANT	Z	SHUTDOWN METHOD	Z	HOURS	0000	ATTACHMENT SUBMITTED	Y
24	NPRD-4 FORM SUB.	N	PRIME COMP. SUPPLIER	X	COMPONENT MANUFACTURER	B069						

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The District postulates that switch A/PC-742-1 was out of calibration due to
11 | instrument drift. The "out-of-specification" switch was immediately calibrated
12 | and brought back to within satisfactory operating limits. The switch will be
13 | changed out with an exact duplicate as soon as replacement parts become available.

15	FACILITY STATUS	H (28)	% POWER	000 (29)	OTHER STATUS	NA (30)	METHOD OF DISCOVERY	B (31)	DISCOVERY DESCRIPTION	Annual Calibration (32)
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16	ACTIVITY CONTENT	Z (33)	RELEAED OF RELEASE	Z (34)	AMOUNT OF ACTIVITY	NA (35)	LOCATION OF RELEASE	NA (36)
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17	PERSONNEL EXPOSURES	000 (37)	TYPE	Z (38)	DESCRIPTION	NA (39)
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18	PERSONNEL INJURIES	000 (40)	DESCRIPTION	NA (41)
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19	LOSS OF OR DAMAGE TO FACILITY	Z (42)	DESCRIPTION	NA (43)
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20	PUBLICITY ISSUED	NA (44)
68	PDR	8301180104
69	ADOCK	05000385
70	S	PDR

8301180104 830110
PDR ADOCK 05000385
S PDR

NRC USE ONLY

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LER No. 82-021
Omaha Public Power District
Fort Calhoun Station Unit No. 1
Docket No. 05000285

ATTACHMENT NO. 1

Safety Analysis

The Fort Calhoun Station is designed with sufficient redundancy such that no single failure of the engineered safeguards features (ESF) system can prevent the plant from being safely shutdown.

During the time period pressure switch A/PC-742-1 was considered to be failed in the nonconservative direction, the CPHS matrix logic was still capable of fulfilling its design function of actuating applicable ESF signals and shutting down the plant. Although one of the eight pressure switches feeding the CPHS matrix was not functioning properly, a CPHS signal could still have been initiated by either of the redundant "A" and "B" channel systems, if required. The "A" channel could have initiated a CPHS upon actuation of two of the three operational pressure switches and the "B" channel, which was fully operational, would have initiated a CPHS upon actuation of two-out-of-four of its pressure switches. Thus, the redundancy of the CPHS actuation system was sufficient to ensure plant safety.

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ATTACHMENT NO. 2

Corrective Action

The A/PC-742-1 pressure switch was recalibrated and verified to be operating within required tolerances. Although the District postulates that the A/PC-742-1 pressure switch simply drifted out of calibration tolerance, the District will install a new switch, for precautionary reasons, when replacement parts become available. This changeout is expected to be completed in the next few weeks. After changeout, the existing switch will be carefully inspected for any apparent damage or problems to determine whether the other containment pressure switches warrant replacement or inspection. The District believes the timing of this switch inspection is justified since the Fort Calhoun Station is presently in a refueling outage which is expected to last until April 1, 1983.

Additionally, because the Fort Calhoun Station containment pressure high switch channels have experienced slight drifting in the past (which was not of a degree to require reportability) and as a result of this incident, the District will temporarily increase the surveillance frequency for these channels. The District will check and calibrate the containment pressure high signal channels approximately every six months, vice the refueling outage frequency specified in the surveillance tests, until the District is confident that significant drifting is not a recurrent problem for these switches, including the newly installed switch. The Fort Calhoun Station surveillance tests (ST) manual will not be revised to reflect this new frequency since it is anticipated only to be a temporary measure. Assurance of the more frequent testing will be accomplished by identifying this schedule on the plant's tickler system.

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ATTACHMENT NO. 3

Failure Data

This is the first reportable failure of a CPHS switch to remain at or below the 5 psig setpoint required by Technical Specification 2.14.