LICENSEE EVENT REPORT

50-285/76-5 Supplement No. 4

CONTROL BLOCK [ ] (1–6)

(PLEASE PRINT ALL REQUIRED INFORMATION)

	LICENSEE NAME	LICENSE NUMBER	LICENSE TYPE	EVENT TYPE
01	NEFCS1 (7–8, 9–14)	00-00000-00 (15–25)	4111 (26–30)	03 (31–32)

	CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER	EVENT DATE	REPORT DATE
01 CONT	[ ] (57–58)	L (59)	L (60)	05002-8 5 (61–68)	09 01 77 (69–74)	09 15 77 (75–80)

EVENT DESCRIPTION

02 During the installation of new recirculation actuation pressure switches (RAS) per

03 Design Change Request DCR 75A-36 it was noted that one of the A Channel switches failed

04 to hold setpoint. The remaining switcnes for B, C and D Channels remained operable as

05 the installation of these switches had not yet been completed.

06 LER 50-285/76-5 Supplement No. 4

	SYSTEM CODE	CAUSE CODE	COMPONENT CODE	PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER	VIOLATION
07	IA (10)	A (11)	INSTRU (12–17)	0 (43)	S382 (44–47)	Y (48)

CAUSE DESCRIPTION

08 The new static-o-ring model 12NN-K6A-XIV switch was found to have drifted out of speci-

09 fication due to being calibrated with less than actual tank level (pressure) causing

10 switch to drift from setpoint. The switch was recalibrated satisfactorily.

	FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
11	E (9)	100 (10–12)	Normal Operation (13–44)	C (45)	Design Change Request in Progress (46–80)

	FORM OF ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE
12	Z (9)	Z (10)	NA (11–44)	NA (45–80)

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION
13	000 (9–11)	Z (12)	NA (13–80)

PERSONNEL INJURIES

	NUMBER	DESCRIPTION
14	000 (9–11)	NA (12–80)

OFFSITE CONSEQUENCES

15 NA

LOSS OR DAMAGE TO FACILITY

	TYPE	DESCRIPTION
16	Z (9)	NA (10–80)

PUBLICITY

17 NA

ADDITIONAL FACTORS

18 See Attachments 1, 2 and 3

19

NAME: J. L. Connolley/G. R. Peterson PHONE: 402-426-4011

ATTACHMENT NO. 1

Safety Analysis

The failure of the new static-o-ring pressure switch for initiation of recirculation actual signal (RAS) would not have impaired the system from performing its design function if required. RAS is initiated on either Channel A or Channel B of the Engineered Safety Features (ESF) System. The A signal switches (A/LC-383) is one of the two out of four logic inputs to Channel A. With one switch failed Channel A of the ESF System was in a two out of three logic while Channel B of the ESF System remained in a two out of four logic. This exceeds the minimum degree of redundancy required by Table 2-3 of the Technical Specification.

ATTACHMENT NO. 2

Corrective Action

The new static-o-ring pressure switch was initially calibrated using a 140" water column. During this calibration the switch operated satisfactorily and was returned to service where a SIRWT level corresponding to approximately 190" water column was placed on the switch causing the shift in setpoint.

The switch was then recalibrated at maximum tank level and has been calibrated/checked on several occasions with no apparent setpoint drift. The calibration procedure for the RAS switches has been revised to calibrate the switches at maximum tank level.

The remaining switches to be installed under DCR 75A-36 will be calibrated at maximum tank level and calibrated/checked prior to being placed in service.

ATTACHMENT NO. 3

Failure Data

This is the first failure of a static-o-ring pressure switch in the RAS system; however, the switches have performed satisfactorily once calibrated at maximum SIRWT tank level.

Also, see Barksdale pressure switch failures LER 50-285/76-5 and subsequent supplements.

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76-05

Omaha Public Power District

1623 HARNEY * OMAHA, NEBRASKA 68102 * TELEPHONE 536-4000 AREA CODE 402

September 27, 1977
FC-418-77

Mr. E. Morris Howard
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 1000
Arlington, TX 76012

Dear Mr. Howard:

Reference: Fort Calhoun Station Unit No. 1
Docket No. 50-285

In accordance with the Fort Calhoun Station's Technical Specifications, the Omaha Public Power District, as holder of facility operating license DPR-40, submits three copies of the following licensee event report supplement 50-285/76-5 to satisfy the requirements of Regulatory Guide 1.16.

Sincerely,

W. C. Jones
Section Manager
Operations

WCJ/WDD:rge

Enclosures

cc: Director, Office of Management
Information and Program Control
U. S. Nuclear Regulatory Commission
Washington, DC 20555 (3)

Director, Office of Inspection and
Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555 (30)

Mr. L. C. Shalla
SARC Chairman
PRC Chairman
Fort Calhoun File (2)