

LICENSEE EVENT REPORT

50-285/76-6

CONTROL BLOCK:

PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME						LICENSE NUMBER								LICENSE TYPE					EVENT TYPE					
01	N	E	F	C	S	1	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	1	0	3
7	8	9				14	15										25	26				30	31	32

CONT		CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER						EVENT DATE					REPORT DATE								
01			L	L	0	5	0	-	0	2	8	5	0	3	2	6	7	6	0	4	0	8	7	6
7	8	57	58	59	60	61							68	69				74	75				80	

[illegible]

02	During unit startup with the reactor critical at 0 percent power it was noted that	
7 8 9		
03	B channel APD positive and negative limits were reading 12.1 and -5.4 which exceed	80
7 8 9		
04	the limits of 4.600 and -4.600 at 0 percent power. Channel B is one of four	80
7 8 9		
05	redundant channels.	80
7 8 9		
06		80
7 8 9		

SYSTEM CODE: 07 I A
 CAUSE CODE: E
 COMPONENT CODE: I N S T R U
 PRIME COMPONENT SUPPLIER: N
 COMPONENT MANUFACTURER: B 1 6 5
 VIOLATION: Y

[illegible]

08	The two Bell and Howell 19-301A adder-subtractor modules which are used to generate	
7 8 9		
09	the positive and negative were found to have gone into oscillation and saturated.	80
7 8 9		
10	The positive limit module was replaced. The APD calculator functioned properly.	80
7 8 9		

11	FACILITY STATUS C	% POWER 000	OTHER STATUS NA	METHOD OF DISCOVERY B	DISCOVERY DESCRIPTION Operator Checks	80
7 8	9	10 11 12	13	44	45 46	80
12	FORM OF ACTIVITY RELEASED Z	CONTENT OF RELEASE Z	AMOUNT OF ACTIVITY NA		LOCATION OF RELEASE NA	
7 8	9	10 11	44	45		

PERSONNEL EXPOSURES

NUMBER			TYPE	DESCRIPTION
13	000		Z	NA

PERSONNEL INJURIES

NUMBER				DESCRIPTION
1	4			NA

OFFSITE CONSEQUENCES

1	5	NA
7	8	9

LOSS OR DAMAGE TO FACILITY

TYPE			DESCRIPTION
1	6	2	NA

PUBLICITY

17	NA
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ADDITIONAL FACTORS

18 NA PDR ADUCK 05000285
7 8 9 S PDR

19 See Attachments No. 1, 2 and 3

NAME: Robert Mehaffey

PHONE: 402-426-4011

ATTACHMENT 1

Safety Analysis

The Reactor Protective System is so designed that the failure of B APD Calculator would not have prevented a reactor trip if the unit had exceeded the Technical Specification ASI Limits as shown in Figure 1-4. Under normal operating conditions, the reactor protective system is in a two-out-of-four logic configuration. The failure of B APD placed the RPS in a two-out-of-three logic. The two-out-of-three logic exceeds the minimum required for safe reactor operation as stated in Table 2-2 of the Technical Specifications. A check of A, C, and D channels showed them to be operational.

ATTACHMENT 3

Failure Data

Related failures were reported as listed:

Abnormal Occurrence 50-285/75-12

Abnormal Occurrence 50-285/75-15

LER 50-285/76-7

LER 50-285/76-12

ATTACHMENT 2

Corrective Action

The Bell and Howell 19-301A Adder-Subtractor module used to generate the positive limit was replaced and Surveillance Test ST-RPS-12 Section F.2 was performed. Proper calculator operation was verified and the calculator returned to service.

The APD calculator limits are checked once per shift by Surveillance Test ST-RPS-12 Section F.1 and an operational check is made once per month by Surveillance Test ST-RPS-12 Section F.2.

Omaha Public Power District

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



April 13, 1976
FC-115-76

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 50-285/76-6 to satisfy the requirements of Regulatory Guide 1.16.

Sincerely,

W. C. Jones
Section Manager
Operations

WCJ/WDD:rge

Enclosure

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)

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