

LICENSEE EVENT REPORT

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

0	1	N	E	F	C	S	1	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	1	4		5				
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LICENSEE CODE										LICENSE NUMBER										LICENSE TYPE										CAT		58	

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REPORT SOURCE										DOCKET NUMBER										EVENT DATE										REPORT DATE									

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During steady state power operation, it was noted that the "B" channel of the

0 3 | Reactor Protective System Axial Power Distribution negative setpoint was fluctuating

0 4 | in the non-conservative direction. The reactor protective system "B" channel for

0 5 | Axial Power Distribution was bypassed with the three remaining Axial Power Dis-

0 6 | tribution channels (i.e., A, C, and D) still operable.

0 7 |

0 8 |

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SYSTEM CODE					CAUSE CODE					CAUSE SUBCODE					COMPONENT CODE					COMP. SUBCODE					VALVE SUBCODE																													
EVENT YEAR					SEQUENTIAL REPORT NO.					OCCURRENCE CODE					REPORT TYPE					REVISION NO.																																		
8 3					0 0 5					0 3					L					0																																		
ACTION TAKEN					FUTURE ACTION					EFFECT ON PLANT					SHUTDOWN METHOD					HOURS					ATTACHMENT SUBMITTED					NPRD-4 FORM SUB.					PRIME COMP. SUPPLIER					COMPONENT MANUFACTURER														
C 18					Z 19					Z 20					Z 21					0 0 0 0					Y 23					Y 24					N 25					B 1 6 5														
33					34					35					36					37					40					41					42					43					44					47				

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The Bell and Howell potentiometer module (part #384612-001) failed allowing the

1 1 | reactor protective system "B" channel Axial Power Distribution setpoints to fluctuate

1 2 | or drift in the non-conservative direction. The module was replaced, recalibrated

1 3 | and satisfactorily tested prior to returning the "B" Axial Power Distribution Channel

1 4 | back to normal operation. The RPS will continue to be monitored by both visual in-

1 5 | spection and surveillance testing to detect future failures.

1	5	E	28	1	0	0	29	NA	30	A	31	Visual Inspection	32											
7	8	9	10	11	12	13	14	15	16	17	18	19	20											
FACILITY STATUS					% POWER					OTHER STATUS					METHOD OF DISCOVERY					DISCOVERY DESCRIPTION				
1 5					1 0 0					NA					A					Visual Inspection				
ACTIVITY RELEASED					CONTENT OF RELEASE					AMOUNT OF ACTIVITY					LOCATION OF RELEASE									
1 6					Z 33					Z 34					NA					NA				
PERSONNEL EXPOSURES					TYPE					DESCRIPTION														
1 7					0 0 0					Z 38					NA									
PERSONNEL INJURIES					TYPE					DESCRIPTION														
1 8					0 0 0					NA														
LOSS OF OR DAMAGE TO FACILITY					TYPE					DESCRIPTION														
1 9					Z 42					NA														
PUBLICATION					ISSUED					DESCRIPTION														
2 0					N 44					NA														

NAME OF PREPARER Randy Mueller

PHONE: 402-426-4011

NRC USE ONLY

LER No. 83-005
Omaha Public Power District
Fort Calhoun Station Unit No. 1
Docket No. 05000285

ATTACHMENT NO. 1

Safety Analysis

The Reactor Protective System (RPS) is so designed that no single failure can prevent the safe and systematic shutdown of the reactor if required.

During the time the RPS "B" channel for Axial Power Distribution (APD) was inoperable, the remaining three redundant RPS Axial Power Distribution Channels were operable, available and fully capable of performing their design function, i.e., providing adequate reactor protection.

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ATTACHMENT NO. 2

Corrective Action

The negative Axial Power Distribution setpoint was originally found to be drifting intermittently on 7/5/83. Maintenance Order 20894 was immediately initiated to investigate and repair the problem. Originally the problem was believed to have been caused by a faulty "adder-subtraction" module. The "adder-subtraction" module was therefore replaced, the "B" channel APD unit was calibrated and satisfactorily tested, and returned to service on 7/8/83. Subsequent drifting problems prompted initiation of Maintenance Order 21015. Upon further analysis, the Bell and Howell dual potentiometer module (S/N 384612-001) was found to be the cause of negative setpoint drift problems. The module was replaced per Maintenance Order 21015. In addition, the original "adder-subtraction" module was returned to service and the spare installed per Maintenance Order 20894 was returned to Stores. The applicable sections of calibration procedure CP-B/APD were performed, the "B" channel APD unit was satisfactorily tested per applicable sections of surveillance test ST-RPS-12, F.2 and the "B" channel APD was taken out of bypass and returned to service on 7/11/83.

All RPS channels will continue to be monitored by both visual inspection and the surveillance testing program to detect future failures.

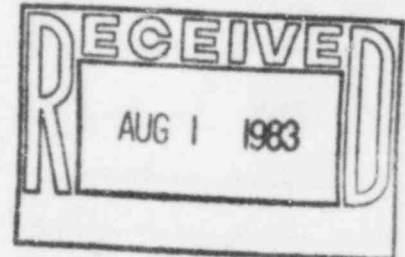
LER No. 83-005
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Fort Calhoun Station Unit No. 1
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ATTACHMENT NO. 3

Failure Data

This is the second event of a potentiometer module failure in the RPS.
The first failure was reported per LER 79-002.

Omaha Public Power District
1623 Harney Omaha, Nebraska 68102
402/536-4000
July 28, 1983
FC-561-83



Mr. W. C. Seidle, Chief
Reactor Project Branch 2
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Subject: Fort Calhoun Station Unit No. 1
Docket No. 05000285

Dear Mr. Seidle:

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 (3) copies of Licensee Event Report 83-005 [regarding Technical Specification 5.9.2.b(1)] to satisfy requirements of Regulatory Guide 1.16.

Sincerely,

A handwritten signature in cursive script, appearing to read "W. C. Jones".

W. C. Jones
Division Manager
Production Operations

WCJ/MRC:jmm

Enclosures

cc: Director, Office of Management
Information & Program Control (3)
Director, Office of Inspection &
Enforcement (30)
Institute of Nuclear Power Operations

SARC Chairman
PRC Chairman
Fort Calhoun File (2)
Mr. L. A. Yandell, Senior
Resident Inspector