

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Beaver Valley Power Station, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 3 4 1 OF 2										PAGE (3) 1 OF 2							
TITLE (4) OT-Delta-T/OP-Delta-T Reactor Trip																											
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES N/A					DOCKET NUMBER(S) 0 5 0 0 0													
0	9	16	8	5	8	5	0	1	6	0	0	1	0	0	7	8	5	N/A					0 5 0 0 0				
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																									
1		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)													
POWER LEVEL (10)		20.406(a)(1)(i)				50.38(e)(1)				50.73(a)(2)(v)				73.71(c)													
1 0 0		20.406(a)(1)(ii)				50.38(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)													
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)																	
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)																	
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)																	
LICENSEE CONTACT FOR THIS LER (12)																											
NAME Robert J. Druga, Manager of Technical Services										TELEPHONE NUMBER AREA CODE 4 1 2 6 4 3 5 3 0 8																	
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS								
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)					MONTH DAY YEAR												
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO																	

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On 9/26/85 two (2) Maintenance Surveillance Procedures (MSPs) were in progress: 1) MSP 6.38, Loop A Overpower/Overtemperature Delta-T and 2) MSP 46.04A, Control Room Containment Hydrogen Recorder. As per the procedure MSP 6.38, the Loop A OT-Delta-T and OP-Delta-T bistables were tripped. During the performance of MSP 46.04A, a cable shield inadvertently grounded the Hydrogen recorder's power supply (Vital Bus II). This caused a spike on the Vital Bus, causing the Loop B OT-Delta-T and OP-Delta-T bistables to trip. This completed the 2 out of 3 OT-Delta-T and the 2 out of 3 OP-Delta-T logics of the two reactor trips. Both trips occurred at 10:26. the plant responded normally and the operators stabilized the plant using the reactor trip response procedure. Investigation showed that electrical tape, which had provided insulation for the cable shield, had come loose exposing the shield and allowing it to ground the power supply. The tape was replaced with heat shrink tubing. All similar recorders were inspected to ensure that no additional problems existed. No further problems were found.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Beaver Valley Power Station, Unit 1	0 5 0 0 0 3 3 4 8 5	—	0 1 6	— 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On 9/26/85 two (2) Maintenance Surveillance Procedures (MSPs) were in progress: 1) MSP 6.38, Loop A Overpower/Overtemperature Delta-T and 2) MSP 46.04A, Control Room Containment Hydrogen Recorder. As per the procedure MSP 6.38, the Loop A OT-Delta-T and OP-Delta-T bistables were tripped.

At 1026 hours, the technician performing MSP 46.04A removed the back of the Control Room Containment Hydrogen Recorder, as per procedure, to expose the test points located there. The recorder, which is a current loop device, uses a cable shield to protect against signal noise. When the recorder had been installed, the shield had been insulated using black electrical tape. Over time, the tape had come loose and exposed a section of the shield. When the technician removed the back of the recorder, he bumped the cable shield and caused it to contact a crimped lug connector on the recorder power supply and a guide pin. This shorted the recorder's power supply to ground. As the recorder is powered from Vital Bus II, this resulted in a spike on the Vital Bus. The spike on Vital Bus II caused the Loop B OT-Delta-T and OP-Delta-T bistables to trip. This completed the 2 out of 3 logics for the OT-Delta-T and OP-Delta-T reactor trips, which immediately resulted in a reactor trip. All plant systems responded normally. The operators stabilized the plant using the reactor trip response procedure.

As corrective actions, the tape on the Containment Hydrogen Recorder was replaced with heat shrink tubing. All similar recorders were inspected and it was verified that no other deficiencies existed.



**Duquesne Light**

Nuclear Division  
P. O. Box 4  
Shippingport, PA 15077-0004

Telephone (412) 393-6000

October 7, 1985  
ND1SS1:2565

Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334, License No. DPR-66  
LER 85-016-00

Dr. Thomas E. Murley  
Regional Administrator  
United States Nuclear Regulatory Commission  
Region 1  
Park Avenue  
King of Prussia, PA 19406

Gentlemen:

In accordance with Appendix A, Beaver Valley Technical  
Specifications, the following Licensee Event Report is submitted:

LER 85-016-00, 10 CFR 50.73.a.2.iv, "OT-Delta-T/OP-Delta-T  
Reactor Trip.

Very truly yours,

Wm. S. Lacey  
Plant Manager

Attachment

T. E. Murley  
October 7, 1985  
ND1SS1:2565  
Page two

cc: Director of Management & Program Analysis  
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