

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 0 2

PAGE (3)

TITLE (4)

Reactor Trip Due To Low Level Amplifier Installation

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	DOCKET NUMBER(S)													
1	2	3	8	4	8	4	0	1	7	0	0	0	1	2	1	8	5	N/A	0	5	0	0	0

OPERATING MODE (9)

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)

5	20.402(b)	20.406(e)	X	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)	20.406(a)(1)(i)	50.36(c)(1)		50.73(a)(2)(v)	73.71(c)
0	20.406(a)(1)(ii)	50.36(c)(2)		50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
0	20.406(a)(1)(iii)	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	
0	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, 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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) ☐ NO ☒ X

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR

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

The plant was in a Cold Shutdown condition, Mode 5, and the control rod shutdown banks were being withdrawn to facilitate plant startup after the Fourth Refueling Outage. Maintenance Surveillance Procedure (MSP) 2.03 on the Power Range Nuclear Instrumentation was in progress. The Loop I Overpower delta T (OP Δ T) and Overtemperature delta T (OT Δ T) Reactor Trip bistables were in a tripped condition as a requirement of the MSP. A Meter and Control Repairman (MCR) was working in the process racks troubleshooting a separate problem with the loop temperature protection instrumentation. During the course of this troubleshooting, an instantaneous output signal excursion was generated which tripped the Loop II OP Δ T and OT Δ T bistables momentarily, thus satisfying the two of three coincidence logic and tripping the reactor.

The incident report from this event will be routed to all licensed operators personnel as information intended to warn of the hazards present during module installation.

8502210274 850121
PDR ADOCK 05000334
S PDRIE22
Y

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 4	—	0 1 7	—	0 0 0	2	OF 0 2

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

On 12/23/84, with the plant in a Cold Shutdown condition and the Reactor Coolant System borated to approximately 2000 ppm, control rod shutdown banks A and B were being withdrawn from the core and the Reactor Trip Breakers were closed. Shutdown bank A was withdrawn 225 steps and shutdown bank B was withdrawn 5 steps. Maintenance Surveillance Procedure (MSP) 2.03, "Power Range Neutron Flux Detector N41 Quarterly Calibration", was in progress. The Loop I Overpower delta T (OP Δ T) and Overtemperature delta T (OT Δ T) Reactor Trip bistables were in the tripped condition, as required by the MSP.

A Meter and Control Repairman (MCR) was working in the process racks troubleshooting a separate problem with loop temperature protection instrumentation. During the course of this troubleshooting, the MCR was swapping low level amplifier modules in an attempt to locate the source of the problem. At approximately 1444 hours, as the MCR inserted one of the modules, it generated an instantaneous output signal excursion that tripped the Loop II OP Δ T and OT Δ T bistables momentarily, thus satisfying the two of three coincidence logic and tripping the reactor.

The incident report from this event will be routed to all licensed operations personnel as information intended to warn of the hazards present during module installation.

There were no adverse implications to the health and safety of the plant personnel or the general public. The reactor trip breakers opened and the withdrawn control rods fell into the core as designed. All emergency equipment was operable.



Duquesne Light

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

Telephone (412) 393-6000

January 21, 1985
ND1SS1:2332

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
LER 84-017

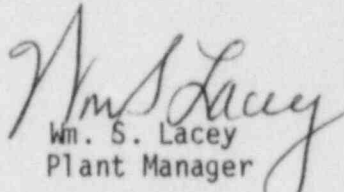
Dr. Thomas E. Murley
Regional Administrator
United States Nuclear Regulatory Commission
Region I
Park Avenue
King of Prussia, PA 19046

Gentlemen:

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

LER 84-017, 10 CFR 50.73.a.2.iv, "Engineered Safeguards Features System Actuation".

Very truly yours,


Wm. S. Lacey
Plant Manager

md

Attachment

1E22
11

T. E. Murley
January 21, 1985
ND1SS1:2332
Page two

cc: Director of Management & Program Analysis
United States Nuclear Regulatory Commission
Washington, D.C. 20555

C. A. Roteck, Ohio Edison

Director, Office of Inspection and Enforcement Headquarters
United States Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. Peter Tam, BVPS Licensing Project Manager
United States Nuclear Regulatory Commission
Washington, D.C. 20555

W. Troskoski, Nuclear Regulatory Commission, BVPS Site Inspector

Mr. Alex Timme, CAPCO Nuclear Projects Coordinator, Toledo Edison

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, GA 30339

G. E. Muckle, Factory Mutual Engineering, Pittsburgh

Mr. J. A. Triggiani, Operating Plant Projects Manager
Mid Atlantic Area
Westinghouse Electric Corporation
Nuclear Services Integration Division
Box 2728
Pittsburgh, PA 15230

American Nuclear Insurers
c/o Dottie Sherman, ANI Library
The Exchange Suite 245
270 Farmington Avenue
Farmington, CN 06032