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NPD1VPO:0461

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, Licensee No. DPR-66
LER-96-002-00

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

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

LER 96-002-00, 10 CFR 50.73.a.2.i.B, "Technical Specification 3.0.3 Entry Due to Isolation of Control Room Emergency Breathing Air Pressurization System".

T. P. Noonan
Division Vice President
Nuclear Operations/Plant Manager

STC/nlc

Attachment

220051

DELIVERING QUALITY ENERGY

IE22

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FORM 366 (5-92) U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Beaver Valley Power Station Unit 1	05000334	1 OF 3

Technical Specification 3.0.3 Entry Due to Isolation of Control Room Emergency Breathing Air Pressurization System

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 NAME	DOCKET NUMBER
03	22	96	96	002	00	04	17	96	Beaver Valley Unit 2	05000412
									FACILITY NAME: N/A	DOCKET NUMBER:

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 20 CFR §(Check one or more) (11)					
POWER LEVEL (10)	63	20.402(b)		20.405(c)		50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)	OTHER
		20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	(Specify in abstract below and in Text NRC Form 366A)
		20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER (include Area Code)
T. P. Noonan, Division Vice President Nuclear Operations/Plant Manager	(412) 393-7622

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS				COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	IL	XXXX	XXXX	N						

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (if yes, complete EXPECTED SUBMISSION DATE)	X	NO				

ABSTRACT (Limited to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On March 22, 1996 at 1631 hrs, while performing a source check on a Containment High Range Radiation Monitor at Beaver Valley Power Station (BVPS) Unit 1, an electrical noise spike caused a spurious High Radiation Alarm on a Control Room Radiation Monitor and actuated the Control Room Emergency Breathing Air Pressurization System (CREBAPS). Following confirmation that the actuating signal was invalid, operators manually isolated the air bottle subsystem discharge at 1634 hrs. Since Unit 1 and Unit 2 Control Rooms are in a common pressure envelope, both Units entered Technical Specification 3.0.3.

After resetting the invalid radiation signal, the Air Bottle subsystem and the Control Room Habitability System was returned to normal system arrangement. The station exited Technical Specification 3.0.3. at 1705 hours. Since the Control Room Emergency Habitability System Air Bottles were isolated, this event is being reported in accordance with 10CFR50.73.a.2.i.B as a condition prohibited by Technical Specifications.

DESCRIPTION OF EVENT

On March 22, 1996, at 1631 hrs, with Beaver Valley Power Station BVPS Unit 1 in Mode 1 at 63 % power and BVPS Unit 2 in Mode 1 at approximately 100% power, a Unit 1 Control Room Operator was performing Technical Specification Surveillance Logs which required a source check on the Containment High Range Radiation Monitor RM-RM-219B. While pressing the source check push button on RM-RM-219B, both RM-RM-219B and the adjacent RM-RM-218B (Control Room Radiation Monitor) located in the same cabinet, began to count up. A High Radiation Alarm was subsequently received on RM-RM-218B and a CREBAPS initiation signal was generated.

Immediately following the alarm, the CREBAPS began discharging into the Control Room, as designed. All actuations occurred as designed. Both BVPS Unit 1 and Unit 2 Control Rooms are in the same pressure envelope. After verifying that the no valid CREBAPS actuation signals existed, an operator was dispatched to isolate the air bottles in accordance with operating procedure 1/2OM-44A.4A.A, "Post Control Room Habitability System Actuation/Recovery." At 1634 hours the CREBAPS air bottles were isolated and BVPS Unit 1 and Unit 2 entered Technical Specification 3.0.3.

After resetting the invalid RM-RM-218B high radiation signal, the CREBAPS was returned to normal system arrangement. The bottled air subsystem was unisolated at 1705 hrs and BVPS Unit 1 and Unit 2 exited Technical Specification 3.0.3. The air bottles remained above the Technical Specification 3.7.7.1 limit of 1825 psig. The Technical Specification 3.0.3 entry was limited to 31 minutes.

CAUSE OF EVENT

The cause of this event is attributed to be circuit noise interactions in radiation monitor rack 7 which houses both RM-RM-218B(A) and RM-RM-219B (A). The containment high range radiation monitors and the control room radiation monitors are located in the same cabinet. The close proximity makes them susceptible to electrical noise produced when either is energized.

CORRECTIVE ACTIONS

1. Caution Tags have been placed on RM-RM-219A and RM-RM-219B to warn to prevent check source operation.

2. The cause of the undesired instrument response will be evaluated to determine if additional actions or modifications are warranted to preclude inadvertent CREBAPS actuations.

REPORTABILITY

This written report is being submitted in accordance with 10 CFR 50.73.a.2.i.B as a condition prohibited by Technical Specifications due to entry into Technical Specification 3.0.3.

SAFETY IMPLICATIONS

There were minimal safety implications due to this event. The CREBAPS functioned as designed. The air bottle subsystem pressure remained above the 1825 psig limit required by Technical Specification 3.7.7.1. The subsystem was inoperable only because it was manually isolated for 31 minutes during which time it could have been manually returned to service if needed.

SIMILAR EVENTS

The following similar events have been previously reported regarding the isolation of the CREBAPS and entry into Technical Specification 3.0.3 in the past two years:

Beaver Valley Power Station Unit 1:
LER 1-95-005 - "Technical Specification 3.0.3 Entry Due to Isolation of Control Room Emergency Breathing Air Pressurization System."
LER 1-95-008 - "Technical Specification 3.0.3 Entry Due to Isolation of Control Room Emergency Habitability System."

Beaver Valley Power Station Unit 2:
LER 2-95-001 - "Condition Prohibited by Technical Specifications - Entry Into Technical Specification 3.0.3 Due to Isolation of Control Room Habitability Air Bottle Subsystem."

LER 2-95-002 - "Condition Prohibited by Technical Specifications - Entry Into Technical Specification 3.0.3 Due to Isolation of Control Room Habitability Air Bottle Subsystem."