NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Beaver Valley Power Station Unit 1	0 5 0 0 0 3 3 4	1 OF 0 2

TITLE (4)
Energization of Containment Purge Exhaust Monitor Results in ESF Actuation

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)
									N/A	0 5 0 0 0
1 2	1 3	8 7	8 7	— 0 2 0	— 0 0	0 1	1 2	8 8	N/A	0 5 0 0 0

OPERATING MODE (9): 5

POWER LEVEL (10): 0 0 0

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

20.402(b)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
20.405(c)(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 (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
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 (AREA CODE)
William S. Lacey, Plant Manager	4 1 2 6 4 3 - 1 1 2 5 8

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	I L	M O N	V 1 1 5	Y					

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

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

On 12/13/87 at 0130 hours, in accordance with Station shutdown procedures, the containment purge and exhaust radiation monitors (RM-VS-104A and B) were energized. Both monitors spiked above their high-high setpoint initiating flow through the main filter banks. Approximately ten minutes later both monitors fell below their alarm setpoints and the ventilation dampers were realigned. At approximately 0830 hours, in preparation for a batch release of containment atmosphere new alarm setpoints were calculated. A radiation technician proceeded to adjust the alarm setpoints on (RM-VS-104A) and placed the control knob to calibrate. After adjusting the alarm setpoints, he turned the control knob back to operate. This initiated train "A" flow through the main filter banks. The operator reset the radiation monitor and realigned the ventilation dampers. There were no safety implications resulting from this event since the systems functioned as designed on receipt of a high-high radiation signal.

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	PAGE (3)
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

On 12/13/87, Mode 5 was entered and containment vacuum broken. At 0130 hours, in accordance with Station shutdown procedures, the containment purge exhaust monitors (RM-VS-104A and B) were energized. Upon energization, the monitors spiked above the high-high alarm setpoint initiating flow through the main filter banks (train "A" and "B"). All ventilation dampers actuated in accordance with design. At 0140 hours, the dampers were returned to normal. Later the same day (approximately 0830 hours) in preparation for a batch release of containment, a Radioactive Waste Discharge Authorization (RWDA) was prepared. In accordance with the RWDA, new alarm setpoint calculations were generated. When a radiation technician completed adjusting the alarm setpoints on (RM-VS-104A) and placed the detector's control knob back to "operate" the high-high alarm setpoint was actuated. This initiated train "A" flow through the main filter banks. The operators reset the radiation monitor and realigned the ventilation dampers.

The cause of the first ESF actuation was a result of a power spike encountered when the monitor was turned on. The spike resulted form the inherent behavior of the monitor. The cause of the second ESF actuation was the failure of the radiation technician to depress the reset button when placing the control knob back to operate.

To prevent an inadvertent ESF actuation when energizing the containment purge exhaust monitors, the station shutdown procedures will be revised to have the operators manually align the dampers to exhaust through the main filter banks prior to energizing (RM-VS-104A and B). After the monitors indicate less than the alarm setpoints, the dampers will be placed back to their normal system arrangement. In order to prevent an ESF actuation from occurring when the alarm setpoints are changed on process and effluent monitors, all radiation technicians were instructed to depress the monitor's reset button while turning the control knob from "calibrate" to "operate" and to continue depressing the reset button until meter indication is well below the alarm setpoints. The radiation control department's procedures will also be changed to alert the radiation technicians to depress the reset button in order to prevent inadvertent ESF actuations.

There were no safety implications resulting from this event. The supplementary leak collection and release system functioned as designed and diverted flow through the main filter banks on receipt of a high-high radiation activity alarm.

Duquesne Light

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January 12, 1988
ND3SPM:0135

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
LER 87-020-00

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

Gentlemen:

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

LER 87-020-00, 10 CFR 50.73.a.2.iv, "Energization and Calibration of Containment Purge Exhaust Monitor Results in ESF Actuations".

Very truly yours,

Wm. S. Lacey
Plant Manager

tlu

Attachment

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1/1

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