



Duquesne Light

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January 10, 1991
ND3MNO:3087

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
LER 90-018-00

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 90-018-00, 10 CFR 50.73.a.2.iv, "Engineered Safety Features Actuation - Automatic Start of River Water Pump Due to Operator Error".

Very truly yours,

T. P. Noonan
General Manager
Nuclear Operations

JGT//sl

Attachment

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cc: Mr. T. T. Martin, Regional Administrator
United States Nuclear Regulatory Commission
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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-30), U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555 AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET WASHINGTON, DC 20503

FACILITY NAME (1): Beaver Valley Power Station Unit 1

DOCKET NUMBER (2): 0 5 0 0 0 3 3 4 1

PAGE (3): 1 OF 0 3

TITLE (4): Engineered Safety Features Actuation - Automatic Start of River Water Pump Due to Operator Error

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	11	90	090	018	00	01	10	91	N/A	
										0 5 0 0 0	

OPERATING MODE (9): 1

POWER LEVEL (10): 1 0 0

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

<input type="checkbox"/> 20.402(b)	<input checked="" type="checkbox"/> 20.405(e)	<input type="checkbox"/> 60.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 60.36(a)(1)	<input type="checkbox"/> 60.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 60.36(a)(2)	<input type="checkbox"/> 60.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 386A)
<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 60.73(a)(2)(i)	<input type="checkbox"/> 60.73(a)(2)(vii)(A)	
<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 60.73(a)(2)(ii)	<input type="checkbox"/> 60.73(a)(2)(vii)(B)	
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 60.73(a)(2)(iii)	<input type="checkbox"/> 60.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12):

NAME: T.P. Noonan, General Manager Nuclear Operations

TELEPHONE NUMBER: 4 1 2 6 4 3 - 1 2 5 8

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS
A	B	S	X	X	X	X	X	X	N

SUPPLEMENTAL REPORT EXPECTED (14):

YES (If yes, complete EXPECTED SUBMISSION DATE): NO:

EXPECTED SUBMISSION DATE (15):

MONTH	DAY	YEAR

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

On 12/11/90, Operations personnel were performing a surveillance test to verify operability of the "B" Train Auxiliary River Water Pump, WR-P-9B. During the performance of this test, at 1252 hours, a low pressure automatic start of the standby River Water Pump, WR-P-1C, occurred. Since the river water pumps receive a Safety Injection Signal and are considered Engineered Safety Features (ESF) components, the automatic start of this pump on low system pressure is considered an ESF actuation. The cause for the pump start was operator error. The operator failed to perform a step in the surveillance procedure which maintains the discharge valve closed prior to the start of WR-P-9B. The omitted step resulted in the mispositioning the discharge valve for WR-P-9B. The discharge valve automatically opened as designed upon the start of WR-P-9B, allowing pressure in the river water system header to decrease to the automatic standby pump start setpoint. The control switch for the discharge valve was placed in the "CLOSED" position as was required for the surveillance test and WR-P-1C was shutdown. The surveillance test was completed with no additional problems. There were no safety implications as a result of this event. The river water system remained fully operable at all times. The automatic pump start occurred as a result of a low pressure design feature.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-430), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Beaver Valley Power Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 3 4	LER NUMBER (6)			PAGE (3) 9 0 — 0 1 8 — 0 0 0 2 OF 0 3
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	

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

DESCRIPTION OF EVENT

On 12/11/90, with the Unit in Power Operation (Operating Mode 1) at 100% reactor power, Operations personnel were performing a surveillance test to verify operability of the "B" Train Auxiliary River Water Pump, WR-P-9B. During the performance of this test, at 1252 hours, a low pressure automatic start of the standby River Water Pump, WR-P-1C, occurred. Since the river water pumps receive a Safety Injection Signal and are considered Engineered Safety Features (ESF) components, the automatic start of this pump on low system pressure is considered an ESF actuation.

CAUSE OF THE EVENT

The cause of the event was operator error. The operator failed to perform a step in the surveillance procedure prior to the start of WR-P-9B. The omitted step would have required the operator to position the control switch for the 9B Auxiliary River Water Pump discharge valve (MOV-RW-116B) in the "CLOSED" position. This would have kept the discharge valve shut upon the WR-P-9B pump start. With the discharge valve shut, pump flow is directed to recirculation through a flow measuring device. The operator omitted this step, resulting in the MOV-RW-116B control switch being in the "AUTO" position upon pump start. In the "AUTO" position, the discharge valve opened as designed upon the start of WR-P-9B, allowing pressure in the river water system header to decrease to the automatic standby pump start setpoint.

CORRECTIVE ACTIONS

The following corrective actions have been taken as a result of this event:

1. The control switch for MOV-RW-116B was placed in the "CLOSED" position and WR-P-1C was shutdown. The surveillance test was completed with no further problems.
2. The involved operator was counseled regarding this event and the proper performance of procedures.
3. A Human Performance Enhancement System (HPES) evaluation is being performed on this event.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-30), U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3180-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Beaver Valley Power Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 3 4 9 0	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENT. NUMBER	REVISION NUMBER		
		9 0	0 1 8	0 0	0 3	OF 0 3

TEXT (if more space is required, use additional NRC Form 306A's) (17)

REPORTABILITY

This event was reported to the Nuclear Regulatory Commission at 1327 hours on 12/11/90, in accordance with 10CFR50.72.b.2.ii. This written report is being submitted in accordance with 10CFR50.73.a.2.iv.

SAFETY IMPLICATIONS

There were no safety implications as a result of this event. The river water system remained fully operable at all times. The automatic pump start occurred as a result of a low pressure design feature.

PREVIOUS OCCURRENCES

There are two previously reported similar events for Beaver Valley Unit 1:

LER 88-015-00 "Automatic Start of the 1B River Water Pump"

This event involved an automatic start of the standby pump due to low river water header pressure as a result of river water flow adjustments to the Component Cooling Water Heat Exchangers.

LER 89-005-00 "River Water Pump Automatic Start"

This event involved an automatic start of the standby pump due to low river water header pressure as a result of reach rod failure allowing a recirculation valve to be open draining pressure in the auxiliary river water system header.