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July 28, 1994
ND3MNO:3597


Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, Licensee No. DPR-66
LER 94-007-00

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 94-007-00, 10 CFR 50.73.a.2.iv., "Engineered Safety Feature Actuation-Automatic Start of WR-P-1B."


L. R. Freeland
General Manager
Nuclear Operations

GFZ/clp

Attachment

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cc: Mr. T. T. Martin, Regional Administrator
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LICENSEE EVENT REPORT (LER)

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

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS
INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD
COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION
AND RECORDS MANAGEMENT BRANCH (MNRB 7714), U.S. NUCLEAR
REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, 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)

05000334

PAGE (3)

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Engineered Safety Feature Actuation - Automatic Start of WR-P-1B

EVENT DATE (5)			LER NUMBER (6)			REPORT NUMBER (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
06	28	94	94	-- 007 --	00	07	28	94	N/A	05000
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 20 CFR § (Check one or more) (11)							
5			20.402(b)			20.405(c)			X 50.73(a)(2)(iv) 73.71(b)	
POWER LEVEL (10)			20.405(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v) 73.71(c)	
0			20.405(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii) OTHER	
			20.405(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A) (Specify in abstract below and in Text)	
			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)(ix) NRC Form 366A	

LICENSEE CONTACT FOR THIS LER (12)

NAME

L. R. Freeland, General Manager Nuclear Operations

TELEPHONE NUMBER (include Area Code)

(412) 643-1258

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC				COMPONENT	MANUFACTURER	REPORTABLE TO NRC
A	BS	XXX	XXX	N						

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

On 6/28/94, the Reactor Plant River Water pump WR-P-1B automatically started due to low River Water header pressure. This was an unplanned Engineered Safety Feature actuation. Unit 1 was in Mode 5, Cold Shutdown, with the Reactor Plant River Water pump WR-P-1C running. Work was scheduled to be performed on MOV-RW-103A and 103B, the "A" River Water header to Recirculation Spray Heat Exchanger Isolation valves. When MOV-RW-103B was opened, the piping downstream of it began to fill. The piping had been drained previously for other valve work and not refilled. This resulted in a low River Water header pressure. WR-P-1B was the standby Reactor Plant River Water pump and automatically started, as designed, to correct the low pressure condition. There were no safety implications as a result of this event.

This is being reported, in accordance with 10 CFR 50.73(a)(2)(iv), as an unplanned automatic actuation of an Engineered Safety Feature.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.6 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
			YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Beaver Valley Power Station Unit 1		05000334	94	007	00	2 OF 3

TEXT (If more space is required, use additional copies of NRC Form 366a) (17)

DESCRIPTION OF EVENT

On June 19, 1994, with Unit 1 in Mode 5, Cold Shutdown, the 1C Recirculation Spray Heat Exchanger Isolation valve, MOV-RW-104C was "tagged out" of service to permit maintenance on the valve. A portion of the River Water header associated with MOV-RW-104C was drained. The A River Water Header to Recirculation Spray Heat Exchanger Isolation valves, MOV-RW-103A and 103B, were two of the upstream isolation points. On June 26, 1994, the "tag-out" for MOV-RW-104C was removed, and immediately a "testing tag-out" was posted. The drained portion of the river header was not filled at this time because the "testing tag-out" was restored and separate "tag-outs" were generated to allow work to be done on MOV-RW-103A and 103B. These "tag-outs" required that MOV-RW-103A and 103B be open. While opening MOV-RW-103B, the drained portion of the river water header began to fill causing a low River Water header pressure. WR-P-1B was the standby Reactor Plant River Water pump and automatically started, as designed, to correct the low pressure condition.

CAUSE OF EVENT

The cause of this event was determined to be personnel error resulting from inadequate equipment "tag-out" coordination and restoration.

CORRECTIVE ACTIONS

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

1. A walkdown of the affected piping was performed to verify that no damage occurred from the transient. None was found.
2. The individuals responsible for the coordination of this evolution were counseled.
3. This event will be presented in future Licensed Operator Retraining classes to demonstrate the importance of properly coordinating tag-out evolutions.

PREVIOUS SIMILAR EVENTS

The following similar events, involving the automatic starting of the standby Reactor Plant River Water pump due to low system pressure, have occurred at Beaver Valley Unit 1:

1. LER 92-010 involved the automatic start of WR-P-1A. Following surveillance testing, procedure steps were being performed to manipulate valves to restore the river water system to normal alignment. These manipulations caused a momentary decrease in the river water system pressure, causing the automatic starting of the standby pump.
2. LER 90-018 involved the automatic start of WR-P-1C. During the performance of a surveillance test an operator failed to perform a procedure step involving valve manipulation. The omitted step permitted pressure in the river water system to decrease to below the automatic standby pump start setpoint.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 30.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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

3. LER 89-005 involved an automatic start of WR-P-1B. During the performance of surveillance testing of the auxiliary river water pump WR-P-9B, valve manipulation connects the auxiliary river water header to the normal river water header. Connecting these two headers caused a decrease in the normal river water header pressure to below the standby pump start setpoint. The pressure decrease was due to an undetected partially open auxiliary river water recirculation isolation valve allowing the auxiliary river water header to depressurize. The valve was partially open due to a mechanical problem with the valve reach rod linkage that lead operators to believe the valve was closed.

REPORTABILITY

Since the Reactor Plant River Pumps are Engineered Safety Feature (ESF) components, this event is considered an ESF actuation. The Nuclear Regulatory Commission was notified via the Emergency Notification System at 1250 hours on June 28, 1994, in accordance with 10 CFR 50.72 (b) (2) (ii). This written report is being submitted in accordance with 10 CFR 50.73 (a) (2) (iv).

SAFETY ANALYSIS

There were no safety concerns as a result of this event. The Reactor Plant River Water system remained fully operable at all times. WR-P-1B was in standby and automatically started due to low pressure sensed on the A River Water header as designed.