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September 25, 1992  
ND3MNO:3354

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

LER 92-007-00

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

Gentlemen:

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

LER 92-007-00, 10 CFR 50.73.a.2.i.B, "Missed Surveillance of Control Rod Position Verification".

Very truly yours,

T. P. Noonan  
General Manager  
Nuclear Operations

DJM/sl

w/Attachment

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## LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.6 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, 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 OF 0 3

PAGE (3)

TITLE (4)

Missed Surveillance of Control Rod Position Verification

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(S)
0	8	2	6	9	2	9	2	0	0	7	0 0 0 9 2 5 9 2
N/A											
0 5 0 0 0											
0 5 0 0 0											

OPERATING MODE (9) 1

POWER LEVEL (10) 0 9 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following): (11)

20.402(b)	20.405(a)	50.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	50.38(a)(1)	50.73(a)(2)(v)	73.71(c)
20.406(a)(1)(ii)	50.38(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)
20.406(a)(1)(iii)	X 50.73(a)(2)(iii)	50.73(a)(2)(vii)(A)	
20.406(a)(2)(i)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.406(a)(2)(ii)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME

T.P. Noonan, General Manager Nuclear Operations

TELEPHONE NUMBER

AREA CODE

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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
A	A	X X 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)

A control rod position surveillance required by Technical Specifications was not performed. With the Unit in Mode 1 operating at 90% power, the afternoon shift declared the Analog Rod Position Indication (ARPI) for control rod K-8 inoperable due to erratic indication. In accordance with Technical Specifications for ARPI (T.S. 3.1.3.2), the correct rod position was verified using the primary voltage of the ARPI channel. Action c of the ARPI Technical Specification requires primary voltage readings at 24 hour intervals with the ARPI out of service. Shift supervision determined that shift primary voltage readings satisfied ARPI Technical Specification requirements. This practice was followed by the daylight shift. On the afternoon shift of 8/26/92, the crew determined that with the rod deviation monitor out of service, primary voltage readings were required every 4 hours to comply with action d of the ARPI Technical Specification. The 4 hour readings are also a surveillance requirement of the control rod operability Technical Specification (T.S. 3.1.3.1). This requirement was immediately implemented. There were no safety implications due to this event. Control rod readings taken before and after the missed surveillance verified control rod K-8 was fully withdrawn, and there was no rod movement while the ARPI was out of service.

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-830), 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)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
Beaver Valley Power Station Unit 1		YEAR SEQUENTIAL NUMBER REVISION NUMBER	
	0 5 0 0 0 3 3 4 9 2	- 0 0 7 - 0 0	0 2 OF 0 3

TEXT (If more space is required, use additional NRC Form 305A's) (17)

Description of Event

On 8/25/92 Unit One was in Mode 1 operating at 90% power. The afternoon shift reactor operator observed the Analog Rod Position Indication (ARPI) for control rod K-8 of control bank C intermittently fluctuating between 228 steps (completely withdrawn) and 210 steps. The ARPI for rod K-8 was declared out of service. In accordance with Technical Specifications for ARPI (T.S. 3.1.3.2), the primary voltage of the ARPI channel was measured and the rod was determined to be fully withdrawn (in alignment with the rest of control bank C). Action c of the ARPI Technical Specification requires primary voltage readings at 24 hour intervals with the ARPI out of service. As a conservative measure, the midnight shift supervision decided to obtain the primary voltage readings each shift. This practice was followed on the following daylight shift. The afternoon shift crew on 8/26/92 correctly determined that with the automatic rod deviation monitor out of service (due to unrelated reasons), primary voltage readings were required every 4 hours to comply with action d of the ARPI Technical Specification. The 4 hour readings are also a surveillance requirement of the control rod operability Technical Specification (T.S. 3.1.3.1). This requirement was immediately implemented.

Cause of The Event

The cause of the missed surveillance was personnel error. The licensed personnel applying the 24 hour Technical Specification requirements for ARPI (T.S. 3.1.3.2 action c) did not recognize that action d required control rod position verification every four hours due to the inoperability of the automatic rod position deviation monitor. The four hour position verification is also required by a control rod operability Technical Specification (T.S. 3.1.3.1) surveillance.

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 (F-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, 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	0 5 0 0 0 3 3 4	9 2	- 0 0 7	- 0 0	0 3	OF 0 3	

TEXT (If more space is required, use additional NRC Form 356A's) (17)

Corrective Actions

- 1) The personnel involved will be counseled concerning the event and the importance of verifying satisfactory application of all Technical Specification surveillance requirements.
- 2) This event will be reviewed in licensed operator retraining. Emphasis will be placed on reviewing the entire text of the applicable Technical Specification before actions are initiated. Additionally, the importance of independently verifying the proper application of Technical Specifications will be discussed.
- 3) Abnormal Operating Procedure 1.1.7, Rod Position Indication Malfunction, will be reviewed and enhanced as necessary to ensure that the Technical Specification action requirements are satisfied when the ARPI malfunctions.

Previous Similar Events

There has been one similar previous reportable event, LER 90-004. This report documented an event where a Quality Assurance audit discovered that the control rod positions were not recorded on the operators' logs on 4/25/89 at 2000 hours. The event was caused by personnel error. The operator failed to take the required readings, and this omission was not discovered by the senior reactor operator reviewing the logs.

Reportability

The failure to perform a required surveillance results in a condition prohibited by Technical Specifications. As such, this event is reportable in accordance with 10CFR50.73.a.2.i.B.

Safety Implications

There were no safety implications due to this event. The operator logs for 8/25/92 at 2020 hours and 8/26/92 at 0400 hours and 1200 hours verified that rod K-8 was fully withdrawn. Data taken by the Technical Services Department (TSD) at 0800 on 8/26/92 also verified that control rod K-8 was at 228 steps. Thus, the required reading at 0000 on 8/26/92 was the only one missed. No control rod movement occurred during the time period that rod K-8 ARPI was out of service.