



Nuclear Group  
P.O. Box 4  
Shippingport, PA 15077-0004

Telephone (412) 393-6000

January 18, 1996  
NPD1VPO:0423

*Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334, Licensee No. DPR-66  
LER-95-011-00*

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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 95-011-00, 10 CFR 50.73.a.2.i.B, "Condition Prohibited by Technical Specifications - Missed Source Range Surveillance."

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

Attachment

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The Nuclear Professionals

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cc: Mr. T. T. Martin, Regional Administrator  
United States Nuclear Regulatory Commission  
Region 1  
475 Allendale Road  
King of Prussia, PA 19406

Mr. D. S. Brinkman  
BVPS<sup>c</sup> Licensing Project Manager  
United States Nuclear Regulatory Commission  
Washington, DC 20555

Mr. Larry Roszbach  
BVPS Senior Resident Inspector  
United States Nuclear Regulatory Commission

Mr. J. A. Hultz  
Ohio Edison Company  
76 S. Main Street  
Akron, OH 44308

Mr. Mark Burns  
Centerior Energy Corporation  
6200 Oak Tree Boulevard  
Independence, OH 44101-4661

INPO Records Center  
700 Galleria Parkway  
Atlanta, GA 30339-5957

Mr. Robert Maiers  
Department of Environmental Resources  
P.O. Box 8469  
State Office Building, 13th Floor  
Harrisburg, PA 17105-8469

Director, Safety Evaluation & Control  
Virginia Electric & Power Company  
P.O. Box 26606  
One James River Plaza  
Richmond, VA 23261

**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 (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) <b>Beaver Valley Power Station Unit 1</b>	DOCKET NUMBER (2) <b>05000334</b>	PAGE (3) <b>1 OF 3</b>
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**Condition Prohibited by Technical Specifications, Missed Source Range Surveillance**

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
12	20	95	95	011	00	01	19	96	N/A	
									N/A	

OPERATING MODE (9) <b>1</b>	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 20 CFR <sup>§</sup> (Check one or more) (11)									
POWER LEVEL (10) <b>100</b>	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 <b>Thomas P. Noonan, Division Vice President Nuclear Operations/ Plant Manager</b>	TELEPHONE NUMBER (include Area Code) <b>(412) 393-7622</b>
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**COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)**

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
A	IG	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 December 18, 1995, at 1611 hours, Unit 1 commenced a plant shutdown from 100% power for maintenance. A step in the shutdown procedure that requires the completion of a source range channel functional test if one had not been performed in the previous 30 days was inadvertently missed. This placed the station in technical specification 3.3.1.1, action statement 5, which requires the performance of a shutdown margin determination every 12 hours. As required by plant procedure, shutdown margin was determined every eight hours during cooldown from mode 3 to mode 5, and once per 24 hours thereafter. When shutdown margin was not determined every 12 hours after the plant entered mode 5, technical specification 3.3.1.1 action statement 5 was violated. On December 21, 1995, an operations supervisor reviewed the required tests for shutdown and noticed that the source range functional test had not been performed. All source range channels were immediately tested and found to be satisfactory at 1330 hours on December 21, 1995. Reactor Coolant System boron concentration and shutdown margin remained above the Technical Specification minimum values at all times. This report is being submitted in accordance with 10 CFR 50.73.a.2.i.B as a condition prohibited by the plant's technical specifications.

**LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION**

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 (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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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Beaver Valley Power Station Unit 1	05000334	95	011	00	2 OF 3

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

**DESCRIPTION OF EVENT**

On December 18, 1995, at 1611 hours, Unit 1 commenced a controlled plant shutdown for the replacement of degraded river water expansion joints. Operators planned to cooldown the plant from 100% power to cold shutdown (mode 5). Operating Manual (OM) Procedure 1OM-51.4.A "Station shutdown - Minimum Load to Startup Mode or Hot standby Mode" was utilized to reduce power from mode 1 to hot standby (mode 3). Instruction step IV.B.5 requires the performer to record the date of the last performance of Operating Surveillance Test (OST) procedure 1OST-2.3 "Nuclear Source Range Channel Functional Test" and to perform the OST if it was not completed in the previous thirty days. The previous source range functional test was completed on August 20, 1995, 121 days earlier. This exceeded the 92 day time limit required by technical specification 3.3.1.1 and the thirty day requirement listed in step IV.B.5 of 1OM-51.4A for performing the source range OST. The on shift control room operations supervisors controlling the shutdown procedure inadvertently missed this requirement to perform a source range channel functional test. This placed the plant in action statement 5 of Technical Specification 3.3.1.1 requiring a shutdown margin determination every 12 hours.

Plant shutdown continued and the plant entered mode 3 at 0005 hours on December 19, 1995 with the source range monitors energized. Procedure 1OM-51.4.C "Station Shutdown - Cooldown From the Hot Standby (Mode 3) to the Hot Shutdown (Mode 4)" was used to shutdown the plant from mode 3 to mode 4. Instruction step IV.A.8 requires the determination of shutdown margin every 8 hours until a stable reactor coolant system temperature is reached in mode 5. Shutdown margin is determined once per 24 hours thereafter. Per the cooldown procedure, the operators completed shutdown margin determinations every eight hours until mode 5 was reached at 0057 hours on December 20, 1995, when they began a once per 24 hour shutdown margin determination. Reactor Coolant system boron concentration and shut down margin remained above the Technical Specification minimum values at all times.

On December 21, 1995, an operations supervisor was reviewing the required tests for shutdown and noticed that 1OST-2.3 had not been completed. He immediately informed the shift supervisor of the discrepancy and the source range functional channel test was completed satisfactorily at 1330 hours on December 21, 1995. From the time of entry into mode 5 until the source range functional test was completed, three shutdown margin determinations were required, two were performed and one was missed.

**CAUSE OF THE EVENT**

Lack of attention to detail by the operations supervisors controlling the plant shutdown procedure was the primary cause of the missed surveillance.

A contributing factor to this event is that the format of the existing shutdown procedure, 1OM-51.4.A, is not arranged so that the review of the past source range OST performance occurs prior to energizing the source range channels and placing them in service. Also, the procedure contains no caution statement to inform the operators that the shutdown margin must be determined every 12 hours if the source range functional test is not complete.

**LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION**

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

**CORRECTIVE ACTIONS**

The following corrective actions have been or will be completed:

1. Operations Surveillance Test, IOST-2.3 was completed satisfactorily at 1330 hours on December 21, 1995.
2. The involved operations supervisors were counseled.
3. Station shutdown procedure, IOM-51.4A, will be revised to incorporate procedural enhancements that will prevent recurrence of this event.
4. Unit 2 shutdown procedures will be reviewed for the applicability of similar enhancements.

**REPORTABILITY**

This written report is submitted in accordance with 10 CFR 50.73.a.2.i.B as a condition prohibited by the plant's technical specifications. Action statement 5, of technical specification 3.3.1.1, requires a shutdown margin determination every 12 hours if the source range channel functional test has not been completed in the previous 92 days. Since the source range channel functional test was last completed 121 days earlier, and a shutdown margin determination was not completed every twelve hours once the plant entered mode 5, the requirements of technical specification 3.3.1.1 were not met.

**SAFETY IMPLICATIONS**

The safety significance was minimal. Source range channels were both in service and providing indication throughout the event and were capable of providing protective functions. Reactor Coolant System boron concentration and shutdown margin remained above the Technical Specification minimum values at all times.

**SIMILAR EVENTS**

There have been no previous reportable events involving a missed source range channel functional coincident with a missed shutdown margin determination at Beaver Valley Unit 1.