



Duquesne Light

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May 11, 1992
ND3MNO:3302

Beaver Valley Power Station, Unit No. 2
Docket No. 50-412, License No. NPF-73
LER 92-005-00

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 92-005-00, 10 CFR 50.73.a.2.i.B, "Improperly Sealed Containment Penetration During Fuel Movement".

Very truly yours,

T. P. Noonan
General Manager
Nuclear Operations

JGT/sl

Attachment

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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), 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 2		DOCKET NUMBER (2) 0 5 0 0 0 4 1 2	PAGE (3) 1 OF 0 4
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TITLE (4)
Improperly Sealed Containment Penetration During Fuel Movement

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)
0 4	0 9	9 2	9 2	0 0 5	0 0	0 5	1 1	9 2	N/A		0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9) N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)										
POWER LEVEL (10) 0 0 0	20.402(b)	20.405(v)	50.73(a)(2)(i-v)	73.71(b)							
	20.406(a)(1)(i-v)	50.36(e)(1)	50.73(a)(2)(i-v)	73.71(e)							
	20.406(a)(1)(ii)	50.36(e)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
	20.408(a)(1)(ii)	X 50.73(a)(2)(iii)	50.73(a)(2)(vii)(HA)								
	20.408(a)(1)(iv)	50.73(a)(2)(i-v)	50.73(a)(2)(vii)(B)								
	20.408(a)(1)(v)	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
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUF TURE	REPORTABLE TO NRRDS	CAUSE	SYSTEM	COMPONENT	MANUF TURE	REPORTABLE TO NRRDS
D	N, H	X, X, X, X	X, X, X, X	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you 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 4/08/92, at 2020 hours, with the Unit in Refueling, core reload was initiated. Containment (CNMT) integrity for fuel movement from the Spent Fuel Pool to CNMT was established. At 0356 hours on 4/09/92, an outage coordinator, performing a tour through the East Cable Vault (ECV) Room, heard the sound of air flow in the ECV Room. The coordinator identified a temporary seal on a spare electrical penetration which was leaking air out of CNMT. The spare penetration was being used to supply temporary power and camera equipment in CNMT. The ventilation system exhausting the ECV Room was creating a pressure differential between this room and CNMT. The coordinator immediately contacted the control room and the refueling personnel were notified to cease fuel movement. With fuel movement halted, the CNMT ventilation dampers were opened, eliminating the pressure differential and the air outleakage. The Nuclear Regulatory Commission was notified of this event in accordance with 10CFR50.72.b.2.iii.C. The cause for this event was the incorrect use of a temporary seal on a spare penetration through the primary containment. The cabling in the penetration was removed and the penetration was permanently sealed. There were no safety implications as the ventilation from the ECV Room is monitored prior to release.

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 RECORDS AND REPORTS MANAGEMENT BRANCH (P-530) U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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 NRC Form 366A's) (17)

DESCRIPTION OF EVENT

On 4/08/92, at 2020 hours, with the Unit in Refueling, core reload was initiated. Containment (CNMT) integrity for fuel movement from the Spent Fuel Pool to CNMT was established in accordance with administrative procedures. Due to a planned emergency electrical bus outage, the Containment Purge and Exhaust Radiation Monitors were unavailable for service. The Containment Purge and Exhaust Ventilation System was shutdown and the inlet and outlet dampers closed to comply with the Technical Specification ACTION statement for the inoperable radiation monitors. Damper closure is only required during fuel movement. At 0356 hours on 4/09/92, an outage coordinator, performing a tour through the East Cable Vault (ECV) Room, heard the sound of air flow in the ECV Room. The coordinator identified a temporary seal on a spare electrical penetration which was leaking air out of CNMT. The spare electrical penetration was being used to route cabling to supply temporary power and video equipment in CNMT.

The Supplementary Leak Collection and Release Ventilation System was exhausting the ECV Room to atmosphere and causing it to be at a slightly negative pressure with respect to atmospheric pressure. This created a pressure differential between this room and CNMT, as CNMT was at atmospheric pressure and isolated with no ventilation in service. Subsequent testing confirmed that the ECV Room is maintained at a slight negative pressure with respect to atmospheric pressure. The outage coordinator immediately contacted the control room and the refueling personnel were notified to cease fuel movement. With fuel movement halted at 0422 hours, the Technical Specification for the containment radiation monitors did not apply, therefore the CNMT ventilation inlet and outlet dampers were opened lining up the CNMT area to the Supplementary Leak Collection and Release System. This eliminated the pressure differential and the air outleakage.

CAUSE OF THE EVENT

The cause for this event was a procedure deficiency which allowed use of a spare containment penetration to route temporary electrical cables. The procedure that was referenced and used for installing the temporary penetration seal did not address pressure boundary applications. The material used for the temporary seal was appropriate for a fire barrier seal.

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 RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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 NRC Form 366A's (17)

REPORTABILITY

This event was reported to the Nuclear Regulatory Commission at 0615 hours on 4/09/92, in accordance with 10CFR50.72.f.2.iii.C, as a condition which alone could have prevented the fulfillment of a structure to control the release of radioactive material. Subsequent review of the event determined that any release of radioactive material would have been directed to the filtered Supplementary Leak Collection and Release System. Therefore, this written report is being submitted in accordance with 10CFR50.73.a.2.i.B, as a condition prohibited by Technical Specifications. Technical Specification 3.9.4 requires all penetrations providing direct access from the containment atmosphere to the outside atmosphere to be closed or isolated, or exhausting through the Containment Purge and Exhaust System.

CORRECTIVE ACTIONS

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

1. The control room was notified of the source of air outleakage and the refueling personnel were contacted to cease fuel movement. One fuel assembly was in transit at this time and it was placed in a safe position.
2. The cabling in the identified penetration was removed and the penetration was permanently sealed. Required Type "B" Leakage testing was satisfactorily completed after the penetration was sealed.
3. The procedure used for the installation of the temporary electrical cabling through CNMT penetrations will be reviewed and revised as necessary to provide specific guidance.

SAFETY IMPLICATIONS

There were no safety implications to the public as a result of this event. Effluent from the Supplementary Leak Collection and Release Ventilation System is monitored prior to release. In the event that radioactive material had been released through the leaking penetration, the ventilation system radiation monitoring equipment would have detected this and, if above the radiation monitor setpoint, directed the ventilation through the filters prior to release.

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-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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 NRC Form 366A's) (17)

PREVIOUS OCCURRENCES

There has been one similar event previously reported:

Unit 1: LER 91-014-00, "Technical Specification Surveillance Testing Deficiency", which involved the inadvertent deletion of acceptance criteria from a surveillance test.