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January 15, 1992 ND3MN0:3239

Jeaver Valley Power Station, Unit No. 2 Docket No. 50-412, License No. NPF-73 LER 90-011-01

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

Gentlemen:

Letter ND3MNO:3157 issued or July 5, 1991 contained an incorrect License Event Report number. It should have been LER-90-011-01.

The contents of the Licensee Frent Report have not changed and the original attachment w____ numbered correctly. The corrected copy is attached.

Dg Jonan T. P. Hoonan

T. P. Roonan General Manager Nuclear Operations

FER/sl

Attachment

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January 15, 1992
ND3MNO:3239
Page two

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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

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LER NUMBER CORRECTION Beaver Valley Power Station, Unit No. 2 Docket No. 50-412, License No. NPF-73 LER 90-011-01

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Gentlemen:

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

LER 90-011-01, 10 CFR 50.73.a.2.iv, "ESF Actuation - Containment Purge Isolation due to High Radiation Signal".

Very truly yours,

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T. P. Noonan General Manager Nuclear Operations

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Attachment

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January 15, 1992 ND3MNO:3238 Page two

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Description of Event

On 9/6/90, the containment building was being purged in preparation for refueling. The ventilation system was aligned to draw outside air through containment. Purge exhaust is directed to atmosphere via a monitored flowpath as a normal gaseous waste discharge. Sampling and analysis of containment atmosphere is conducted prior to the discharge to verify radiological conditions during the purge.

At 1719 hours, containment radiation monitor HVR*RQ104B momentarily spiked high, generating a high radiation signal. This automatically initiated a close signal to the Train B purge inlet and outlet isolation dampers. The inlet damper fully closed, but the outlet damper (HVR*MOD23B) stopped in mid-position. Operators successfully closed HVR*MCD23B via its control switch at 1720 hours.

Cause of Event

The containment radiation monitor spiked nigh due to an electrical disturbance resulting from a lightning strike. At 1715 hours, a lightning storm had begun at the site and was still in progress at the time of this event. At 1719 hours, simultaneously with the high radiation signal in containment, alarms were received on two channels of the Unit 2 seismic monitor and on the Unit 2 loose parts monitoring system. Also, between 1707 and 1722 hours, all wind speed and differential temperature instruments on the meteorological data tower ceased to function. The instruments are monitored by computer and their average data values are reported to the control room once per 15 minutes. The instruments were damaged by an electrical discharge.

The seismic monitor and loose parts alarms were determined to have been spurious. Each seismic channel monitored all three axes of movement, yet one alarmed seismic channel showed movement on only one axis, while the other alarmed seismic channel showed movement on only two axes. Additionally, the other Unit 2 and Unit 1 seismic channels showed no indication of seismic activity. Evaluation of the locse part alarm showed no indication of an actual loose part in the reactor coolant system or secondary plant.

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sampled containment atmosphere following this isolation actuation. They verified there were no identifiable isotopes present.

Previous Similar Events

Review of station documents showed one previous event (Unit 2 LER 89-010) where a containment purge isolation occurred due to a high radiation signal. In this previous event, elevated containment activity was due to localized air turbulence within the reactor cavity resulting from mechanical binding of fuel transfer system isolation valve IAC-102.

Corrective Actions

- 1) Operators verified that a containment purge isolation had been initiated in response to the high radiation signal. When the closure of the outlet damper did not automatically continue to completion, the operators manually isolated the containment purge flow path. The purge outlet isolation damper was inspected to determine why it had not fully closed. This inspection determined that the damper had functioned as designed and stopped movement after the high radiation signal had reset.
- 2) Operations and radiation control personnel verified the normal operation of radiation monitor HVR*RQ104B after the electrical disturbance. Sampling verified that no isotopes were present in the containment atmosphere.
- The damaged wind speed and differential temperature meteorological instruments were replaced.

NRC FORM 3864	LICENSEE EVENT REPORT TEXT CONTINUATION	APPROVED DME NO 3150-0104 EXPIRES 4/30/92 ESTIMATED EURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 500 HRS. FORWARD COMMENTS REGARDING SURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (PSG) 35 NUCLEAR REGULATORY COMMISSION WASHINGTON DC 20558 AND TO THE FARERWORK REQUECTION FROJECT (3150-0104) OFFICE OF MANAGEMENT AND SUDGET WASHINGTON DC 20503										
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Safety Evaluation

There were no safety implications due to this evant. The containment purge system is isolated during normal plant operation and is only used for refueling applications. No fuel movement was in progress at the time of this event. The momentary spike of the containment radiation monitor was in the conservative direction. Automatic closure of the containment purge isolation dampers in response to a high radiation alarm is discussed in Beaver Valley Unit 2 UFSAR Section 9.4.7.3.3, "Containment Purge Air System Safety Evaluation". Subsequent to this event, there were three events involving a high containment radiation alarm where purge isolation damper HVR*MOV23B successfully closed. These subsequent closures demonstrated that the damper would close in response to a sustained high radiation signal.