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March 30, 1992 . 3MNO:3274

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

LER 92-003-00

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 92-003-00, 10 CFR 50.73.a.2.iv, "ESF Actuation - Inadvertent Closure of Containment Isolation Valves TV-SS-117A,B and C".

Very truly yours,

K.C. Detrousky for

T. P. Noonan General Manager Nuclear Operations

DSC/sl

Attachment

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March 30, 1992 ND3MN0:3274 Page two

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APPROVED OMB NO 3150-0104 EXPIRES 4/30/92

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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Description of Event

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On 2/28/92, operators were removing the Steam Generator Blowdown System from service to support planned maintenance on blowdown sample valve TV-SS-109A2. Operators removed the blowdown system from service by closing its air-operated isolation valves TV-BD-100A,B and C. After these valves were closed, operators deenergized their solenoid operated air valves to ensure that TV-BD-100A,B and C would not open during maintenance activities.

Operators observed that blowdown sample valves TV-SS-117A,B and C unexpectedly closed when they de-energized the solenoid air valves for TV-BD-100A,B and C. Investigation determined that when the control circuit for TV-BD-100A,B and C was de-energized, power was also removed from auxiliary relay 63-SA in the blowdown isolation circuit. Relay 63-SA is used to automatically isolate blowdown during auxiliary feedwater actuations to conserve steam generator inventory. When this relay was de-energized, it initiated an isolation signal to TV-SS-117A,B and C, causing them to close.

Cause of Event

This event was due to a deficiency in the power supply switch list for the solenoid operated air valves. This list specifies the breaker that supplies power to the solenoid air valves for TV-BD-100A,B and C. The list also provides a table of eight other valves powered by the same breaker. Neither TV-SS-117A,B and C nor relay 63-SA are included in this table.

This power supply switch list is a controlled document, part of the operating manual and the normal approved reference document for electrical switching. The operators used this list in preparing their clearance. Due to the deficiency in the list, the operators inadvertently de-energized the auxiliary relay.

Previous Similar Evenus

Review of station documents showed one previous similar event. Unit 2 LER 59-027 involved an ESF actuation that resulted from the inadvertent de-energization of a filtered water valve. The valve was de-energized during a clearance due to a deficiency in the Unit 1 120 Volt AC System Operating Manual load list.

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Corrective Actions

- The power supply switch listing is being changed to indicate that the breaker supplying the solenoids for TV-BD-100A,B and C also supplies auxiliary relay 63-SA and can isolate TV-SS-117A,B and C.
- 2) This event will be included in licensed operator retraining. This training will emphasize that while review of the load list is the minimum investigation necessary for electrical clearances, more extensive review is sometimes advisable for more complex clearances.
- 3) The station's Independent Safety Evaluation Group (ISEG) has initiated an accuracy check of the power supply switch listings. This accuracy check is based on an inspection of a sample of the loads on the listings. Any further samplings/corrective actions will be based on the results of this check.

Reportability

This event is being reported in accordance with 10CFR50.73.a.2.iv as an event involving an unplanned ESF actuation. Although the blowdown isolation signal that initiated this event is not an ESF signal, the blowdown sample valves TV-SS-117A,B and C are containment isolation valve and considered Engineered Safety Feature components.

Safety Analysis

There were no safety implications due to this event. The blowdown system had been removed from service prior to this event and was not affected by the blowdown isolation signal. The blowdown sampling system is only used intermittently by chemistry to determine steam generator chemistry. The sampling system was not being used during this event. Blowdown is primarily used for steam generator chemistry control. While long term isolation of blowdown during operation would lead to undesirable secondary chemistry, the temporary isolation that occurred during this event did not cause any administrative chemistry operating limits to be exceeded.

(References: Beaver Valley Unit 1 UFSAR Section 5.3, "Containment Isolation System" and Section 10.3.8.3, "Secondary Vents and Drains Performance Analysis.")