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April 1, 1993
ND3MNO:3438

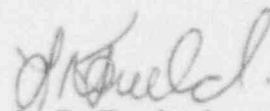
Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, Licensee No. DPR-66
LER 93-005-00

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 93-005-00, 10 CFR 50.73.a.2.vii.D, "Degraded Charging Pump Due to Incorrect Solenoid Valve Quality Assurance Classification."


L. R. Freeland
General Manager
Nuclear Operations

JGT/sl

Attachment

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Handwritten initials/signature

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cc: Mr. T. T. Martin, Regional Administrator
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NSIC Form 366
(9-83)

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 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) Beaver Valley Power Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 3 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional NRC Form 386A's) (17)

DESCRIPTION OF EVENT

On 2/24/93, an engineering review identified a potential discrepancy in the Quality Assurance (QA) Categorization of the solenoid valve, SOV-CH-101B, used to control the cooling water flow to the Lubricating (Lube) Oil Cooler for the 1B Charging Pump. On 3/02/93, the completed evaluation determined that the solenoid valve (SOV) was identified as QA Category 2, when in fact the solenoid is used in a QA Category 1 application. The original solenoid valve was replaced with a commercial grade SOV in August 1986 as a result of maintenance activities. At that time, the component specifications, (ie. stock number/part number), for the SOV were listed as QA category 2 (commercial grade). Throughout the time period from 1986 to the present, the 1B Charging Pump was utilized as the running or standby pump. Failure of the QA Category 2 SOV could theoretically result in a failure of the 1B Charging Pump due to improper temperature control of the lube oil cooler.

CAUSE OF THE EVENT

The original QA Category 1 SOV was installed as part of a design change for the charging pump lubricating oil system in 1986. Following installation of the design change, the QA requirements for the SOV were not incorporated into station documents. The component specifications, (ie. stock number/part number), for the SOVs on all three charging pumps, as they existed in August of 1986, were listed as QA Category 2 (commercial grade). Thus the original QA Category 1 solenoid valve on the 1B charging pump was inappropriately replaced with a commercial grade SOV in August 1986 during maintenance activities.

CORRECTIVE ACTIONS

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

1. The 1B Charging Pump was taken out of service on 3/02/93, the SOV was replaced with a QA Category 1 SOV, and the pump was returned to service on 3/13/93.
2. The SOV component specifications for all three charging pumps were revised to reflect the change in QA Category.

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-630), 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)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Beaver Valley Power Station Unit 1	0 5 0 0 0 3 3 4	9 3	— 0 0 5	— 0 0	0 3	OF	0 3

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

3. The installed solenoid valves on the 1A and 1C Charging Pumps have been verified to be the correct QA Category 1 classification.
4. The present design change process includes increased administrative guidance/procedural controls versus the process in use in 1986. These increased controls were instituted to prevent recurrence of this type of event.

SAFETY IMPLICATIONS

Safety implications were minimal as a result of this event. A review of surveillance tests performed showed no indication of improper lube oil cooler operation. In the event of QA-2 solenoid failure, the most likely failure mechanism would result in overcooling of the charging pump lubricating oil. An analysis conducted by the vendor determined that overcooling is not a concern. If the QA-2 solenoid were to mechanically bind in the open position, all of the lube oil would bypass the lube oil cooler and overheating could occur, which may result in short term pump failure. Although the 1B Charging Pump was functional, the QA Category 2 solenoid valve could not satisfy seismic requirements. The solenoid valve for the lubricating oil system for the charging pumps is not required to be Environmentally Qualified.

REPORTABILITY

This written report is being submitted in accordance with 10CFR50.73.a.2.vii.D, as a single condition that could have caused at least one independent train to become degraded in a system designed to mitigate the consequences of an accident.

PREVIOUS OCCURRENCES

There have been three previously issued Licensee Event Reports for Beaver Valley Power Station (Unit 1: 92-004-00, 92-011-00 and Unit 2: 90-022-00) involving improper component specifications identified through engineering reviews/analyses.