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SUBJECT: Special rept:on 890414,triaxial time history accelerometer horizontal trigger circuits identified as inoperable.

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Beaver Valley Power Station, Unit No. 2
Docket No. 50-412, License No. NPF-73
Special Report

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

Gentleman:

In accordance with Appendix A, Beaver Valley Technical Specification 3.3.3.3, "Seismic Instrumentation," the following Special Report is submitted.... This report is required when the conditions specified in Technical Specification 3.3.3.3.b are not satisfied.

On April 14, 1989, 2ERS-ACS-1 and -3, Triaxial Time History Accelerometer horizontal trigger circuits for the Containment Structure and the Switchyard, were identified as being inoperable since May, 1987, as a result of an incorrect calibration procedure. On April 1, 1989, a Response Spectrum Analyzer Trouble alarm was observed, indicating an internal fault. A maintenance work request was generated to correct this condition. During troubleshooting of the central control cabinet, with a vendor representative present, these accelerometer trigger circuits were identified as having incorrect setpoints. The accelerometer analog trigger circuits cause tape recording of all three directional sensor inputs and annunciation, when the setpoint value is reached. The accelerometer trigger circuit cards contain switches which provide annunciation when their respective setpoint is reached. The setpoints are values measured in g-forces. It was discovered that the horizontal trigger setpoint value (0.01g) for both accelerometer trigger card were set at the vertical alarm switch setpoint value (0.037g). The cause for this event was due to a deficient surveillance procedure which incorrectly specified the setpoint values.

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The surveillance procedure was immediately revised to reflect the correct setpoint values and the accelerometer trigger circuits were calibrated to the correct values.

There were no safety implications to the public as a result of this event because no seismic activity occurred during the entire period the horizontal accelerometer trigger circuits were incorrectly calibrated. The trigger circuits function to initiate automatic magnetic tape recording of the seismic event, no other automatic plant actuations are designed to occur from a trigger circuit. In addition, the vertical accelerometer trigger circuits were correctly calibrated and operational throughout the entire time period.

Very truly yours,

T. P. Noonan
General Manager
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JT/cj

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