

PEACH BOTTOM ATOMIC POWER STATION  
Delta, Pennsylvania  
17314

July 5, 1983

Dr. Thomas E. Murley, Administrator  
U. S. Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

SUBJECT: FOLLOW-UP REPORT FOR SEISMIC MONITORING INSTRUMENTATION

REFERENCE: TECHNICAL SPECIFICATION 3.15B and 6.9.3

Dear Dr. Murley:

As reported in a previous letter, the Response Spectrum Analyzer (RSA), a component of the seismic monitoring system, has been experiencing intermittent operability problems. Several attempts that included both on and off-site vendor technical support were made before the problem was finally resolved.

APPARENT CAUSE:

A series of tests were performed to isolate and identify the source of the problem. One test involved removing the AC Auxiliary Relays. The only function of these relays was to provide control room annunciation.

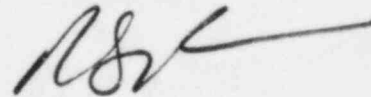
During the time the relays were removed, the RSA did not fail. Further investigation determined that the AC Auxiliary Relays, cables, and fuses had been causing induced noise on the DC signal lines of the seismic instrumentation. The induced noise caused voltage spikes in the DC current, which disrupted integrated circuits and resulted in the intermittent operation.

CORRECTIVE ACTION:

To resolve the problem, the AC Auxiliary Relays, and fuses were removed. The annunciators in the control room now use DC power relays located in the Seismic Warning Panel, a component of the system.

The system has been tested numerous times since the modification was completed and has performed satisfactorily.

Sincerely,



R. S. Fleischmann  
Station Superintendent

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