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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388 R  
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 RECIP. NAME RECIPIENT AFFILIATION  
 MARTIN, T.T. Region 1 (Post 820201) D

SUBJECT: Special rept: on 940421, documents an occurrence where in  
 Seismic Monitoring Instrumentation, specifically Seismic  
 Monitor Analyzer, was inoperable for greater than thirty  
 days. S

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Pennsylvania Power & Light Company

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May 27, 1994

Mr. T. T. Martin  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION  
SPECIAL REPORT - SEISMIC MONITORING  
INSTRUMENTATION INOPERABLE FOR  
GREATER THAN THIRTY DAYS  
PLAS-603 FILE R41-2

Docket No. 50-387/50-388  
License No. NPF-14/NPF-22

Dear Mr. Martin:

This Special Report, required by Unit 1 and Unit 2 Technical Specification 3.3.7.2 Action a., documents an occurrence wherein Seismic Monitoring Instrumentation, specifically a Seismic Monitor Analyzer, was inoperable for greater than thirty days.

Upon investigating a spurious seismic trigger from the Unit 1 Reactor Building Containment Foundation transducer on April 21, 1994, an unexpected acceleration was observed as having been processed by Seismic Monitor Analyzer VRS-05703 (RSA-50). It was determined that any negative DC offset voltage from the accelerometers (input signal from the field) yielded improper data analysis by the RSA-50.

Further investigations by Engineering and Instrument and Controls personnel, as well as analysis of tape data by the vendor have concluded that a computer software - related problem exists in the RSA-50 analyzer.

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Since final corrective actions have not yet been developed at this time to resolve the software problem, a supplement to this Special Report will be submitted to detail the corrective action plan.

*H. G. Stanley*  
H. G. Stanley  
Vice President - Nuclear Operations

RRW/mjm

cc: U. S. Nuclear Regulatory Commission  
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