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SUBJECT: Forwards Rev 0 of EC-QDET-1004, "Summary of Single Failure Analysis for GE Supplied Instruments Connected to Class 1E Circuits," as stated in 970429 meeting w/NRC staff.

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U.S. Nuclear Regulatory Commission  
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**SUSQUEHANNA STEAM ELECTRIC STATION  
SUMMARY OF SINGLE FAILURE ANALYSIS  
FOR GE SUPPLIED INSTRUMENTS CONNECTED  
TO CLASS 1E CIRCUITS FOR SUSQUEHANNA SES  
UNITS 1 AND 2  
PLA-4635**

**FILE R41-2**

**Docket Nos. 50-387  
and 50-388**

As stated in the meeting with the NRC Staff on April 29, 1997, a summary of the single failure analysis for the GE scope of supply instruments connected to Class 1E circuits is provided as Attachment 1. The study concludes the following:

- Failures of non-Class 1E instruments, within the GE scope of supply, and used for indication only do not prevent the operator from determining the safety status of the plant and from bringing the plant to and maintaining it in a safe condition following an accident.
- Failures of the other non-Class 1E instruments, within the GE scope of supply and connected to Q classified circuits, and the Neutron Monitoring System computer inputs or the cables from the non-Class 1E instruments and the Neutron Monitoring System computer inputs to the protection systems result in:
  - The initiation of the protective action for the Power Range Neutron Monitoring System, the Start-up Range Neutron Monitoring System and the Area Monitoring System.
  - The initiation of the protective action for the Steam Leak Detection System, the Reactor Water Clean-up System and the High Pressure Coolant Injection (HPCI) System even when degraded by a second failure.

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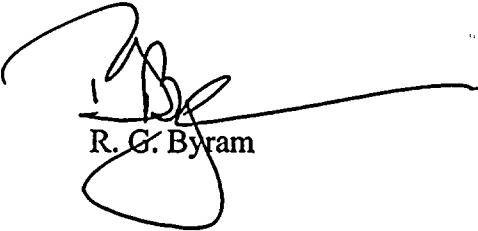
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Therefore, failures of non-Class 1E instruments, within the GE scope of supply and connected to quality classified circuits, and the Neutron Monitoring System computer inputs do not prevent proper protective action at the system level when required.

Also, Attachment 2 contains the responses to the NRC Staff's questions on PP&L's study on the single failure analysis of Unit 2 affiliated instrument circuits within the GE scope of supply.

If you have any questions, please contact Mr. C. T. Coddington at (717) 542-3294.

Very truly yours,



R. G. Byram

Attachments

copy: NRC Region I  
Mr. K. Jenison, NRC Sr. Resident Inspector  
Mr. C. Poslusny, NRC Sr. Project Manager

