

# CATEGORY 1

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 BYRAM, R.G.      Pennsylvania Power & Light Co.      *see report*  
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SUBJECT: Transmits util Single Failure Analysis for affiliated instrument circuits supplied by GE for plant.

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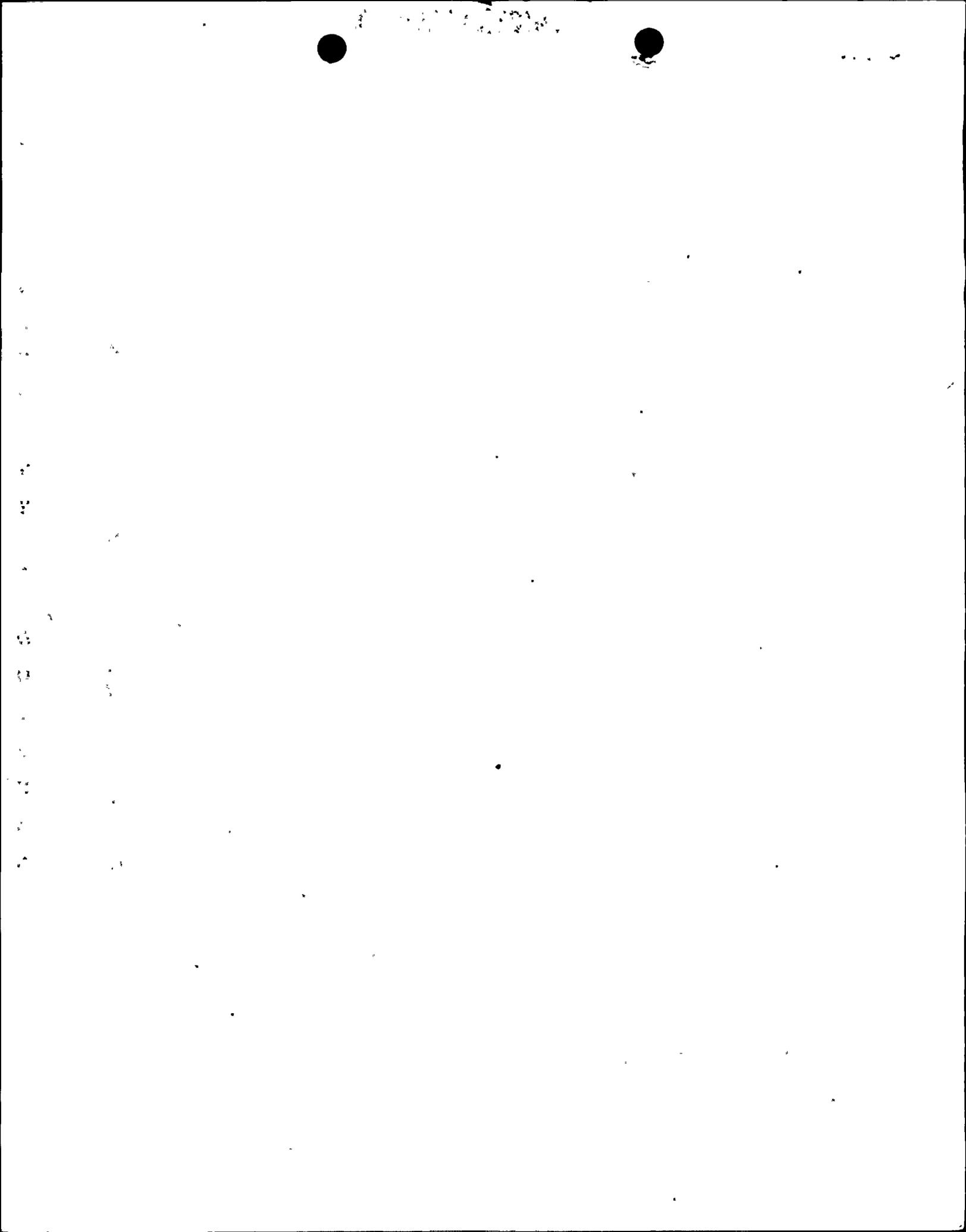
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**Pennsylvania Power & Light Company**

Two North Ninth Street • Allentown, PA 18101-1179 • 610/774-5151

Robert G. Byram  
Senior Vice President-Nuclear  
610/774-7502  
Fax: 610/774-5019

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U.S. Nuclear Regulatory Commission  
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**SUSQUEHANNA STEAM ELECTRIC STATION  
CLASS 1E/NON-CLASS 1E ISSUE: SINGLE  
FAILURE ANALYSIS OF UNIT 1 AFFILIATED  
INSTRUMENT CIRCUITS WITHIN THE GE  
SCOPE OF SUPPLY**

PLA-4472

FILE R41-2

Docket No. 50-387

The purpose of this letter is to transmit Pennsylvania Power & Light Company's Single Failure Analysis (EC-QDET-1002) for the affiliated instrument circuits supplied by GE for Susquehanna SES Unit 1. The GE Power Range Monitoring System affiliated instrument circuits are not included since these circuits were previously sent to the NRC. Also the affiliated circuits for the computer and annunciation systems are not included since the computer and annunciation input circuits have been previously sent to the NRC.

The result of the Single Failure Analysis shows that each GE affiliated circuit meets the acceptance criteria and that a common mode failure of the Non-Class 1E GE instruments along with a single random failure (Fault) in the raceway system does not prevent proper protection action at the system level when required. In all cases, the redundant division (channels) is available to perform the protection action. Also in all cases, the stated safety function for each of the GE affiliated circuits is maintained.

The Single Failure Analysis for the affiliated instrument circuits supplied by GE for Susquehanna SES Unit 2 will be submitted by September 6, 1996.

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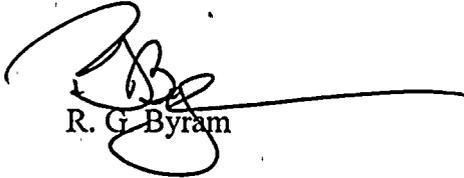
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If you have any questions, please contact Mr. C. T. Coddington at (717) 542-3289.

Very truly yours,



R. G. Byram

Attachment

copy: NRC Region I  
Ms. M. Banerjee, NRC Sr. Resident Inspector  
Mr. C. Poslusny, NRC Sr. Project Manager

