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SUBJECT: Updates 901219 response to unresolved item 90-200-05 in electrical distribution sys functional insp.Corrective actions:fixed tap setting on existing transformers will be changed.

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DEC 31 1991

Director of Nuclear Reactor Regulation
Attention: Mr. C.L. Miller, Project Director
Project Directorate I-2
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
UPDATED RESPONSE TO UNRESOLVED ITEM
90-200-05 **Docket Nos. 50-387**
PLA-3689 **FILE R41-2** **and 50-388**

Dear Mr. Miller:

In our response to the Electrical Distribution System Functional Inspection (PLA-3478, dated December 19, 1990), we indicated in our response to Unresolved Item 90-200-05 on degraded grid relay setpoints that voltage regulating transformers would be installed in the 120 volt AC circuits in order to correct the voltage problems and allow for future load growth. However, during the procurement phase, several concerns with the reliability of the voltage regulating transformers were identified. These concerns are:

- The probability of occurrence of a malfunction of VRTs is higher compared with the existing transformers. The high failure rate is based on the fact that the VRT design utilizes a large number of electronic components to accommodate the voltage regulation function.

- The increase in probability of occurrence of the VRTs malfunction will increase the challenges to the safety systems.

Based on the above concerns, PP&L decided not to install the VRTs as originally planned. In order to meet our commitment of correcting the 120 volt AC voltage problems in the Unit 1 Sixth Refueling and Inspection Outage and in the Unit 2 Fifth Refueling and Inspection Outage, the fixed tap setting on the existing transformers will be changed. By changing the transformer taps, all Class 1E circuits will meet their minimum performance

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requirements with degraded grid voltage of 0.912 pu at 4160 AC bus. The H_2/O_2 analyzer circuits may not have sufficient voltage to operate for the worst voltage condition; however, these analyzer circuits do have sufficient voltage to operate post-LOCA when they are required.

If you have any questions, please contact Mr. C.T. Coddington at (215) 774-7915.

Very truly yours,

H. W. Keiser

cc: NRC Document Control Desk (original)
NRC Region I
Mr. G. S. Barber, NRC Sr. Resident Inspector
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