

Pennsylvania Power & Light Company

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Norman W. Curtis
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MAR 23 1984

Dr. T. E. Murley
Regional Administrator, Region 1
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION
REVISED FINAL REPORT ON A DEFICIENCY
INVOLVING THE HYDROGEN RECOMBINERS
ER 100508 FILE 821-10
PLA-2137

Docket No. 50-388

Reference: (1) PLA-1807 dated August 26, 1983

Dear Dr. Murley:

This letter serves to provide the Commission with a revised final report on a deficiency involving the hydrogen recombiners. This deficiency was originally reported by telephone to Mr. E. C. McCabe of NRC Region I by Mr. J. Saranga of PP&L on July 28, 1983.

In reference (1) PP&L reported that this deficiency arose due to the lack of protective bushings where the recombiner cables enter the recombiner cabinet. Contact with rough edges at this location caused fraying of the fabric sheath which surrounds the cable.

Although there is no specific requirement for bushings in the Bechtel purchase specification for the hydrogen recombiners, standard industry practice and the National Electrical Code (referenced in the Bechtel specification) require abrasion protection for cables entering cabinets.

The stainless steel flex conduit discussed in Reference (1) proved difficult to install when it was placed on the Unit 2 C&D recombiners. As a result, the remaining recombiners were wrapped with heat shrink tubing. The heat shrink tubing is held in place by ty-raps at both ends. Attachment 1 provides a tabulation of the corrective action taken on each recombiner. The heat shrink tubing provides additional surface area to take the wear associated with any vibration or movement and is adequate for this application.

PP&L believes that the fraying of the cables was incurred during the handling process for the shipment, installation, and testing of the recombiners. This opinion is supported by the equipment vendor, Westinghouse Electric

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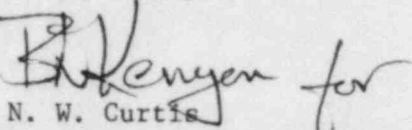
Page 2

SSES PLA-2137
ER 100508 File 821-10
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Corporation. The type of handling which the recombiner was exposed to during the shipment, installation, and pre-operational testing phase is not expected to occur in the future.

As a result of the above, PP&L feels that the recombiners will function as required. This letter completes our actions on this deficiency.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction-Nuclear

Copy to:

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Attachment 1

Unit 1 & 2 Recombiner Corrective Action to
Prevent Cable Fraying

Unit 1

1E440A	Heat shrink tubing with tyrap to hold heat shrink in place
1E440B	Heat shrink tubing with tyrap to hold heat shrink in place
1E440C	Heat shrink tubing with tyrap to hold heat shrink in place
1E440D	Heat shrink tubing with tyrap to hold heat shrink in place

Unit 2

2E440A	Heat shrink tubing with tyrap to hold head shrink in place
2E440B	Heat shrink tubing with tyrap to hold head shrink in place
2E440C	Flexible conduit with double layer of glass cloth electrical tape
2E440D	Flexible conduit with double layer of glass cloth electrical tape