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 FACIL: 50-387 SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1, PENNSYLV 05000387
 50-388 SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2, PENNSYLV 05000388
 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: PENNSYLVANIA POWER & LIGHT CO.
 RECIP. NAME: GRIER, B.H. RECIPIENT AFFILIATION: REGION 1, PHILADELPHIA, OFFICE OF THE DIRECTOR

SUBJECT: SUPPLEMENTS 790507 LTR, REPTS ABNORMAL WEAR OF ROLLER PINS IN CROSSHEAD ASSEMBLIES OF EMERGENCY STANDBY DIESEL GENERATORS. ROLLER PINS SUPPLIED BY COOPER ENERGY SVC.

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 TITLE: CONSTRUCTION DEFICIENCY REPORT (10CFR50.55E).

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NORMAN W. CURTIS
Vice President-Engineering & Construction
821-5381

May 29, 1979

Mr. Boyce H. Grier
Director, Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 18406

SUSQUEHANNA STEAM ELECTRIC STATION
FINAL REPORT OF A DEFICIENCY IN SSES EMERGENCY
DIESEL GENERATOR ROLLER PINS
DOCKET NOS: 50-387/50-388
LICENSE NOS: CPPR-101, CPPR-102
ERS 100450/100508 FILE 840-4
PLA-364

Dear Mr. Grier:

This supplements our PLA-352, dated May 7, 1979, in which we advised you that we were evaluating the subject condition under the terms of 10CFR 50.55(e). The condition relates to the abnormal wear of roller pins in the crosshead assemblies of emergency standby diesel generators being supplied by Cooper Energy Services (CES) for SSES.

We have concluded our evaluation and have determined that the condition is reportable under 10CFR 50.55(e).

The deficiency was detected by CES during performance testing of engines similar to those supplied to SSES. Cooper found that the surface of a roller pin in a crosshead assembly had exhibited abnormal wear. Should the condition progress during long periods of engine operation, it is anticipated that the wear could be so excessive as to cause the engine to malfunction because of the inoperability of intake and exhaust valves.

A serious malfunctioning of the diesel generators could result in a loss of the power supply required for simultaneous shutdown of both reactors. Therefore, a serious malfunction of the diesel generators could be construed to be a safety hazard.

CES had redesigned the parts in question. This resulted in an increase in the diameter of the roller pin in order to provide an interference fit at assembly between the roller pin and the collar. Additionally, the hand flaring operation used to seat the pin ends into the chamfer on the crosshead has been replaced by a more consistent and positive press operation.

PENNSYLVANIA POWER & LIGHT COMPANY

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7906040265 :

May 29, 1979

Repair of the inlet and exhaust valve crosshead assemblies will be performed by CES and is scheduled for completion during the third quarter of 1979. Based on this schedule, the repair work should be accomplished prior to any functional testing of the diesel generators at SSES.

Our contractor, Bechtel, will verify implementation of the repair work, including all necessary documentation.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction

ARS:mcb

cc: Mr. J. G. Davis (15)
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