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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards application for amend to License NPF-14, changing Tech Specs to remove motor operators from emergency svc water (ESW) pump discharge valves & add valves on ESW return lines from control structure chillers.

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

SEP 19 1984

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED AMENDMENTS 47 TO LICENSE NPF-14
AND 8 TO LICENSE NPF-22

ER-100450
PLA-2297

FILE 841-8

Docket Nos. 50-387
50-388

Reference: PLA-1812, N. W. Curtis to T. E. Murley, dated Sept. 22, 1983.

Dear Mr. Schwencer:

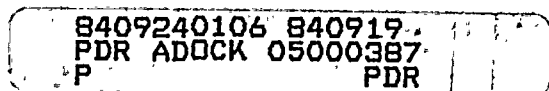
Via the referenced letter, PP&L submitted its final report on a deficiency involving water hammer in the Emergency Service Water (ESW) system. As part of the modifications needed to support the corrective action described in that report, the motor operators from the ESW pump discharge valves (HV-01101A,B,C,D) will be removed, and motor operated valves HV-08693A and B will be added on the ESW return lines from the control structure chillers.

The purpose of this letter is to propose changes to Table 3.8.4.2-1 in the Susquehanna SES Unit 1 and Unit 2 Technical Specifications in order to support the subject modifications, which will be performed during the first refueling outage of Unit 1. Attachment A provides a mark-up of the Unit 1 changes; note that it deletes the addition of the discharge valves which was previously proposed in Proposed Amendment 43 to License No. NPF-14. Attachment B provides a mark-up of the identical changes for Unit 2.

In order to support ESW operability requirements during the Unit 1 first refueling outage, PP&L requests that this change be approved prior to the start of the outage, and that it be conditioned to become effective prior to startup following the outage. This will allow the needed flexibility to perform the modifications anytime during the outage without causing conflicts with the Technical Specifications.

NO SIGNIFICANT HAZARDS CONSIDERATIONS

- I. The proposed change does not involve a significant increase in the probability or consequences of an accident previously evaluated. The



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1. The first part of the report is a general introduction to the project. It describes the objectives of the study and the methods used to collect and analyze the data. The introduction also provides a brief overview of the results of the study.

2. The second part of the report is a detailed description of the data collection process. It describes the procedures used to select the sample, the methods used to collect the data, and the steps taken to ensure the reliability and validity of the data.

3. The third part of the report is a description of the data analysis process. It describes the statistical methods used to analyze the data and the steps taken to ensure the accuracy of the results.

4. The fourth part of the report is a discussion of the results of the study. It describes the findings of the study and discusses the implications of the results for the field of research.

5. The fifth part of the report is a conclusion. It summarizes the findings of the study and provides a final statement on the results of the research.

The results of the study indicate that there is a significant relationship between the variables studied. The findings suggest that the variables are related in a way that is consistent with the theoretical framework of the study. The results also indicate that the data collection process was successful in obtaining reliable and valid data.

The study has several limitations. First, the sample size was relatively small, which may limit the generalizability of the results. Second, the study was cross-sectional, which means that it only provides a snapshot of the relationship between the variables at a single point in time. Third, the study did not control for all possible confounding variables, which may have influenced the results.

Despite these limitations, the study provides valuable insights into the relationship between the variables studied. The findings suggest that the variables are related in a way that is consistent with the theoretical framework of the study. The results also indicate that the data collection process was successful in obtaining reliable and valid data.

The study has several implications for the field of research. First, the findings suggest that the variables are related in a way that is consistent with the theoretical framework of the study. This suggests that the theoretical framework is valid and that the variables are related in a way that is consistent with the theory.

Second, the study provides evidence for the relationship between the variables. This evidence can be used to inform future research and to develop interventions that target the relationship between the variables.

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Mr. A. Schwencer

removal of the motor operators (and installation of manual operators) on the ESW pump discharge valves poses no hazard. These valves will be locked open and are not required to change position in order for the ESW loop to function properly. The addition of the HV-08693A and B valves functionally replace two motor operated valves which will be converted to locked open, manually-operated valves. Hence, the loss of a new valve is no different than the loss of an existing valve.

- II. The proposed change does not create the possibility of a new or different kind of accident from any accident previously evaluated. The original design of the ESW pump discharge valves required manual operators; this change returns them to that design. The control structure chiller motor operated valves are a one-for-one replacement of existing valves.
- III. The proposed change does not involve a significant reduction in a margin of safety. The margin of safety will be improved due to the mitigation of water hammer in the ESW system. As stated in I. above, the proposed modifications do not affect the capability of ESW to function properly under normal or accident conditions.

Any questions on the proposed changes should be directed to Mr. R. Sgarro at (215) 770-7855. Pursuant to 10CFR170.22, the appropriate fees are enclosed.

Very truly yours,



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

Attachments

cc: R. L. Perch - USNRC

T. M. Gerusky, Director
Bureau of Radiation Protection
Pennsylvania Dept. of Environmental Resources
P.O. Box 2063
Harrisburg, PA 17120

The first part of the report deals with the general situation of the country and the progress of the work during the year. It is followed by a detailed account of the various projects and the results obtained. The report concludes with a summary of the work done and the prospects for the future.

The second part of the report deals with the financial aspects of the work. It gives a detailed account of the income and expenditure for the year and shows how the work has been financed. It also gives a summary of the financial position of the institution at the end of the year.