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ACCESSION NBR: 8704130636 DOC. DATE: 87/04/08 NOTARIZED: NO DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388  
 AUTH. NAME AUTHOR AFFILIATION  
 KAUFFMAN, J. T Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 ADENSAM, E. BWR Project Directorate 3

SUBJECT: Application for amends to Licenses NPF-14 & NPF-22, re increasing maximum allowable concentration of sodium pentaborate solution pursuant to 10CFR50.90. Fee paid.

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Pennsylvania Power & Light Company

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

John T. Kauffman  
Executive Vice President-Operations  
215 / 770-5043

APR 08 1987

Ms. E. Adensam, Project Director  
Director of Nuclear Reactor Regulation  
BWR Project Directorate No. 3  
Division of BWR Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
PROPOSED AMENDMENT NO. 96 TO NPF-14 AND  
PROPOSED AMENDMENT NO. 49 TO NPF-22  
PLA-2838 FILE A17-2, S053A

Dear Ms. Adensam:

Pursuant to 10CFR50.90, Pennsylvania Power & Light Co. requests amendments, in the form of Technical Specification changes, to Operating Licenses NPF-14 and NPF-22 for Susquehanna Steam Electric Station Units 1 and 2.

This request modifies Figure 3.1.5-2 which is entitled "Sodium Pentaborate Solution Concentration" to increase the maximum allowable concentration from 13.8% to 15.8%.

Pursuant to FSAR Section 9.3.5, the minimum average concentration of natural boron in the reactor to provide adequate shutdown margin, after operation of the Standby Liquid Control system, is 660 ppm. The saturation temperature of the solution is 59°F at the low level alarm volume and approximately 49°F at the tank overflow volume. The concentration will be achieved if the solution is mixed properly and maintained above the saturation temperature. In light of the proposed change, the minimum average concentration remains at 660 ppm. The saturation temperature however will increase from 59°F to 70°F at the maximum allowable solution concentration limit. This increase in temperature will be compensated for by increasing the heat trace setting from 80°F to 90°F.

The proposed change does not:

- (1) involve an increase in the probability or consequences of an accident previously evaluated. Standby Liquid Control (SLC) system operation is discussed in FSAR Chapter 15.8 - Event 51, as a special safety system which means it is not required to perform its function during a design

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basis event. The system is however, required to be reliable to a degree consistent with its role as a special safety system. The system reliability is dependent on maintaining the boron solution above the saturation temperature. The proposed increase in concentration level does increase the solution saturation temperature from 59°F to 70°F which increases the risk of precipitation if the heat tracing fails and lowers the design margin between heat trace setting and precipitation point from 20°F to 10°F. This risk has been reduced by the installation of a heat trace trouble alarm in the main control room and increasing the heat trace setting from 80°F to 90°F.

- (2) create the possibility of a new or different kind of accident from any accident previously evaluated. As stated in Part (1), the SLC system integrity remains intact, enabling SLC to perform its intended function as a special safety system.
- (3) involve a reduction in the margin of safety. The margin of safety with regards to the boron solution has been maintained by the increased heat trace setting and trouble alarm in the control room.

We request these amendments be approved and made effective September 5, 1987.

Pursuant to 10CFR170.22, the appropriate fee is enclosed.

If you have any questions, please contact D. J. Walters at (215) 770-6536.

Very truly yours,



J. T. Kauffman  
Executive Vice President - Operations

Enclosure

- cc: NRC Document Control Desk (original)  
NRC Region I  
Mr. L. R. Plisco - NRC Resident Inspector  
Mr. M. C. Thadani - NRC Project Manager  
Mr. T. M. Gerusky - Pa. DER

2000-01-01  
I  
The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This not only helps in tracking expenses but also ensures compliance with tax regulations. The second part of the document provides a detailed breakdown of the company's financial performance over the past year. It includes a comparison of actual results against budgeted figures, highlighting areas of both success and concern. The final section outlines the company's strategic goals for the upcoming year, focusing on cost reduction and revenue growth. It also mentions the need for improved communication and collaboration between departments to achieve these objectives.

The following table summarizes the key financial metrics for the period. It shows a steady increase in revenue, which is a positive sign for the company's growth. However, there is a notable increase in operating expenses, particularly in the marketing and research & development departments. This has led to a decrease in operating profit, which is a cause for concern. The company's net income has also declined, primarily due to higher interest and tax expenses. The management team is committed to addressing these challenges and implementing measures to improve the company's financial health. This includes streamlining operations, negotiating better terms with suppliers, and exploring new market opportunities. The company's strong balance sheet and access to capital resources provide a solid foundation for these efforts.

In conclusion, the company has made significant progress in several key areas, but it also faces several challenges that need to be addressed. The management team is confident that with the right strategies and execution, the company can overcome these challenges and achieve its long-term goals. The company's strong financial position and experienced management team are key assets in this regard. The company is committed to transparency and will continue to provide regular updates on its financial performance and strategic initiatives. The company's dedication to excellence and innovation is a source of pride and will continue to drive its success in the future.

BEFORE THE  
UNITED STATES NUCLEAR REGULATORY COMMISSION

In the Matter of

:

PENNSYLVANIA POWER &  
LIGHT COMPANY

:

Docket No. 50-387

PROPOSED AMENDMENT NO. 96

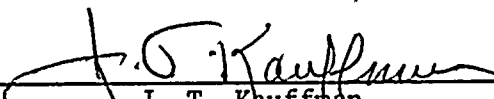
FACILITY OPERATING LICENSE NO. NPF-14

SUSQUEHANNA STEAM ELECTRIC STATION  
UNIT NO. 1


Licensee, Pennsylvania Power & Light Company, hereby files proposed Amendment No. 96 to its Facility Operating License No. NPF-14 dated July 17, 1982.

This amendment contains a revision to the Susquehanna SES Unit 1 Technical Specifications.

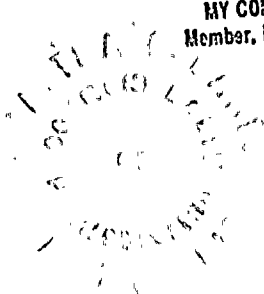
PENNSYLVANIA POWER & LIGHT COMPANY  
BY:

  
\_\_\_\_\_  
J. T. Kauffman  
Executive Vice President-Operations

Sworn to and subscribed before me  
this 8<sup>th</sup> of April, 1987.

  
\_\_\_\_\_  
Notary Public

MARTHA C. BARTO, NOTARY PUBLIC  
ALLENTOWN, LEHIGH COUNTY  
MY COMMISSION EXPIRES JAN. 15, 1990  
Member, Pennsylvania Association of Notaries



MEMORANDUM FOR THE DIRECTOR

DATE: 10/15/54  
SUBJECT: [Illegible]

TO: SAC, [Illegible]

Reference is made to your report of [Illegible] dated [Illegible] and to the report of [Illegible] dated [Illegible].

It is noted that [Illegible] advised that [Illegible]

The Bureau is advised that [Illegible]

Very truly yours,  
[Illegible Signature]





BEFORE THE  
UNITED STATES NUCLEAR REGULATORY COMMISSION

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In the Matter of :

PENNSYLVANIA POWER &  
LIGHT COMPANY :

Docket No. 50-388

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PROPOSED AMENDMENT NO. 49

FACILITY OPERATING LICENSE NO. NPF-22

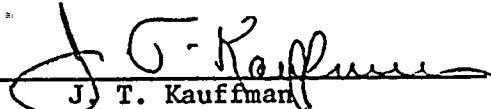
SUSQUEHANNA STEAM ELECTRIC STATION  
UNIT NO. 2

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Licensee, Pennsylvania Power & Light Company, hereby files proposed Amendment No. 49 to its Facility Operating License No. NPF-22 dated March 23, 1984.


This amendment contains a revision to the Susquehanna SES Unit 2 Technical Specifications.

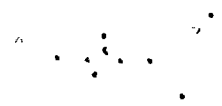
PENNSYLVANIA POWER & LIGHT COMPANY  
BY:

  
J. T. Kauffman

Executive Vice President-Operations

Sworn to and subscribed before me  
this 8th of April, 1987.

  
Notary Public  
MARTHA C. BARTO, NOTARY PUBLIC  
ALLENTOWN, LEHIGH COUNTY  
MY COMMISSION EXPIRES JAN. 15, 1990  
Member, Pennsylvania Association of Notaries



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