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SUBJECT: Application for amends to Licenses NPF-14 & NPF-22, re increasing maximum allowable concetration 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 0 8 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, SO53A

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 $59^{\circ}F$ at the low level alarm volume and approximately $49^{\circ}F$ 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 $59^{\circ}F$ to $70^{\circ}F$ at the maximum allowable solution concentration limit. This increase in temperature will be compensated for by increasing the heat trace setting from $80^{\circ}F$ to $90^{\circ}F$.

The proposed change does not:

 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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FILE A17-2, SO53A PLA-2838 Ms. E. Adensam

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 $59^{\circ}F$ to $70^{\circ}F$ which increases the risk of precipitation if the heat tracing fails and lowers the design margin between heat trace setting and precipitation point from $20^{\circ}F$ to $10^{\circ}F$. 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 $80^{\circ}F$ to $90^{\circ}F$.

- (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,

authno

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

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BEFORE THE UNITED STATES NUCLEAR REGULATORY COMMISSION

In the Matter of

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Docket No. 50-387

PENNSYLVANIA POWER & LIGHT COMPANY

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. Т.

Executive Vice President-Operations

Sworn to and subscribed before me this & of MLL , 1987.

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

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BEFORE THE UNITED STATES NUCLEAR REGULATORY COMMISSION

In the Matter of

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Docket No. 50-388

PENNSYLVANIA POWER & LIGHT COMPANY

PROPOSED AMENDMENT NO. 49

FACILITY OPERATING LICENSE NO. NPF-22

SUSQUEHANNA STEAM ELECTRIC STATION UNIT NO. 2

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:

T. Kauffman

Executive Vice President-Operations

Sworn colland subscribed before me . 1987.

Notai

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

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