

January 1996

Mr. Robert G. Byram
Senior Vice President-Nuclear
Pennsylvania Power and Light Company
2 North Ninth Street
Allentown, PA 18101

SUBJECT: ACCIDENT MONITORING INSTRUMENTATION, SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2 (TAC NO. M93308)

Dear Mr. Byram:

The Commission has issued the enclosed Amendment No.128 to Facility Operating License No. NPF-22 for the Susquehanna Steam Electric Station, Unit 2. This amendment is in response to your letter dated August 11, 1995.

This amendment revises the Unit 2 Technical Specifications (TSs) to reestablish the original operability requirements for the Neutron Flux function, and to delete the footnote that was added to TS page 3/4 3-71 under Amendment No. 115, regarding the length of time that the revised operability values were valid.

A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Biweekly Federal Register Notice.

Sincerely,

/s/

Chester Poslusny, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-388

- Enclosures: 1. Amendment No.128 to License No. NPF-22
- 2. Safety Evaluation

cc w/encls: See next page

DISTRIBUTION

Docket File	JStolz	GHill(2)	JWermiel
PUBLIC	MO'Brien	CGrimes	TLiu
PDI-2 Reading	CPoslusny	ACRS	
SVarga	OGC	WPasciak, RGN-I	

cf for

OFFICE	PDI-2/A	PDI-2/PM	PDI-2/PM	HICB/BC	OGC <i>ULO</i>	PDI-2/D
NAME	MO'Brien	TLiu:rb	CPoslusny	JWermiel	MZOB	JStolz
DATE	11/11/95	12/11/95	12/11/95	12/13/95	12/2/95	12/196

OFFICIAL RECORD COPY
DOCUMENT NAME: SU93308.AMD

9601160175 960103
PDR ADOCK 05000388
P PDR

NRC FILE CENTER COPY

JFO



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

January 3, 1996

Mr. Robert G. Byram
Senior Vice President-Nuclear
Pennsylvania Power and Light Company
2 North Ninth Street
Allentown, PA 18101

SUBJECT: ACCIDENT MONITORING INSTRUMENTATION, SUSQUEHANNA STEAM ELECTRIC
STATION, UNIT 2 (TAC NO. M93308)

Dear Mr. Byram:

The Commission has issued the enclosed Amendment No.128 to Facility Operating License No. NPF-22 for the Susquehanna Steam Electric Station, Unit 2. This amendment is in response to your letter dated August 11, 1995.

This amendment revises the Unit 2 Technical Specifications (TSs) to reestablish the original operability requirements for the Neutron Flux function, and to delete the footnote that was added to TS page 3/4 3-71 under Amendment No. 115, regarding the length of time that the revised operability values were valid.

A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Biweekly Federal Register Notice.

Sincerely,

A handwritten signature in cursive script, appearing to read "Chester Poslusny".

Chester Poslusny, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-388

Enclosures: 1. Amendment No. 128 to
License No. NPF-22
2. Safety Evaluation

cc w/encls: See next page

Mr. Robert G. Byram
Pennsylvania Power & Light Company

Susquehanna Steam Electric Station,
Units 1 & 2

cc:

Jay Silberg, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N Street N.W.
Washington, D.C. 20037

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Bryan A. Snapp, Esq.
Assistant Corporate Counsel
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Mr. Harold G. Stanley
Vice President-Nuclear Operations
Susquehanna Steam Electric Station
Pennsylvania Power and Light Company
Box 467
Berwick, Pennsylvania 18603

Mr. J. M. Kenny
Licensing Group Supervisor
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Mr. Herbert D. Woodeshick
Special Office of the President
Pennsylvania Power and Light Company
Rural Route 1, Box 1797
Berwick, Pennsylvania 18603

Mrs. Maitri Banerjee
Senior Resident Inspector
U. S. Nuclear Regulatory Commission
P.O. Box 35
Berwick, Pennsylvania 18603-0035

George T. Jones
Vice President-Nuclear Engineering
Pennsylvania Power and Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Mr. William P. Dornsife, Director
Bureau of Radiation Protection
Pennsylvania Department of
Environmental Resources
P. O. Box 8469
Harrisburg, Pennsylvania 17105-8469

Dr. Judith Johnsrud
National Energy Committee
Sierra Club
433 Orlando Avenue
State College, PA 16803

Mr. Jesse C. Tilton, III
Allegheny Elec. Cooperative, Inc.
212 Locust Street
P.O. Box 1266
Harrisburg, Pennsylvania 17108-1266

Chairman
Board of Supervisors
738 East Third Street
Berwick, PA 18603



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

PENNSYLVANIA POWER & LIGHT COMPANY

ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-388

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 128
License No. NPF-22

1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
 - A. The application for the amendment filed by the Pennsylvania Power & Light Company, dated August 11, 1995, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of the Facility Operating License No. NPF-22 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 128, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. PP&L shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance and is to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: January 3, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 128

FACILITY OPERATING LICENSE NO. NPF-22

DOCKET NO. 50-388

Replace the following page of the Appendix A Technical Specifications with enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the area of change.

REMOVE

3/4 3-71

INSERT

3/4 3-71

TABLE 3.3.7.5-1 ACCIDENT MONITORING INSTRUMENTATION				
INSTRUMENT	REQUIRED NUMBER OF CHANNELS	MINIMUM CHANNELS OPERABLE	ACTION	APPLICABLE OPERATIONAL CONDITIONS
1. Reactor Vessel Steam Dome Pressure	2	1	80	1,2
2. Reactor Vessel Water Level	2	1	80	1,2
3. Suppression Chamber Water Level	2	1	80	1,2
4. Suppression Chamber Water Temperature	8,6 locations	6,1/location	80	1,2
5. Suppression Chamber Air Temperature	2	1	80	1,2
6. Primary Containment Pressure	2/range	1/range	80	1,2
7. Drywell Temperature	2	1	80	1,2
8. Drywell Gaseous Analyzer				
a. Oxygen	2	1	80	1, 2 [#]
b. Hydrogen	2	1	82	1, 2 [#]
9. Safety/Relief Valve Position Indicators	1/valve ^{*,**}	1/valve ^{*,**}	80	1,2
10. Containment High Radiation	2	1	81	1,2
11. Noble gas monitors ^{**}				
a. Reactor Bldg. Vent	1	1	81	1,2 and ***
b. SGTS Vent	1	1	81	1,2 and ***
c. Turbine Bldg. Vent	1	1	81	1,2
12. Primary Containment Isolation Valve Position	1/valve	1/valve	80	1,2
13. Neutron Flux	2	1	80	1,2

* Acoustic monitor.

** Mid-range and high-range channels.

*** When moving irradiated fuel in the secondary containment.

See Special Test Exception 3.10.1.

** Compliance with these requirements for the "S" SRV acoustic monitor is not required for the period beginning January 21, 1994, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the sixth refueling and inspection outage.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 128 TO FACILITY OPERATING LICENSE NO. NPF-22
PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE INC.
SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2
DOCKET NO. 50-388

1.0 INTRODUCTION

By letter dated August 11, 1995, the Pennsylvania Power and Light Company (PP&L or the licensee) submitted a request for changes to the Susquehanna Steam Electric Station (SSES), Unit 2, Technical Specifications (TSs). The requested changes would revise the Unit 2 TSs to reestablish the original operability requirements for the Neutron Flux function, and to delete the footnote that was added to TS page 3/4 3-71 under Amendment 115, regarding the length of time that the revised operability values were valid.

2.0 BACKGROUND

On March 1, 1995, the Commission approved a request for an exigent amendment to Unit 2 TS Table 3.3.7.5-1 (Amendment No. 115). The exigent amendment allowed for the continued operation of Unit 2 with one Required Channel of Neutron Flux Accident Monitoring, and no Minimum Channels Operable. This was a change from the two Required Channels and one Minimum Channel that had previously been required. The Commission's approval was contingent upon reestablishing the original functional operability no later than the Unit 2 seventh refueling outage.

At the time of the exigent amendment request, SSES used the Ex-Core Neutron Monitoring system to provide the TS required function, and to comply with Regulatory Guide (RG) 1.97. Subsequently, PP&L evaluated the use of the existing Neutron Monitoring System - Average Power Range Monitor (APRM) subfunction to provide the Neutron Flux Accident Monitoring Instrumentation. PP&L concluded that the APRM subfunction could be used to perform Neutron Flux Accident Monitoring.

As a result, PP&L modified TS Bases 3/4.3.7.5, Accident Monitoring Instrumentation, for both SSES, Units 1 and 2, to allow the APRM subfunction to perform post-accident neutron flux monitoring. PP&L also determined that, the original operability requirements shown in Item No. 13 of TS Table 3.3.7.5-1, could be safely applied to the APRM subfunction, given the design of the Neutron Monitoring System at SSES. PP&L placed administrative controls for Unit 2 TS Table 3.3.7.5-1 to ensure that the original conservative channel operability requirements were maintained.

3.0 EVALUATION

The proposed amendment would revise SSES, Unit 2, TSs Table 3.3.7.5-1 to reestablish the original operability requirements for the Neutron Flux function, and to delete the footnote that was added to TS page 3/4 3-71 under Amendment No. 115, regarding the length of time that the revised operability values were valid. Specifically, the proposed changes are as follows:

- Revise Item #13, Required Number of Channels from 1 to 2.
- Revise Item #13, Minimum Channel Operable from 0 to 1.
- Delete Footnote ###.

The revision of the channel operability values for Neutron Flux in TSs Table 3.3.7.5-1 is not safety related. The values are being revised back to the values that have existed previously in the TSs table, while Susquehanna Unit 1 TSs contain the original values.

PP&L has been administratively controlling the channel operability values for Neutron Flux since implementing the changeover from Ex-core detectors to the APRMs which was in Amendment No. 115. The administrative controls ensure that two channels are required to be operable, with one channel as a minimum. The proposed change would discontinue the administrative controls and replace with the TS requirements.

Deletion of footnote ###, which was added as a result of Amendment No. 115, is an administrative action and not safety related. Elimination of this notation is based on PP&L having reestablished the Neutron Flux function as required by the TSs.

The proposed change to Table 3.3.7.5-1 reestablishes channel operability values that had been present in the table prior to the approval of TS Amendment No. 115. Implementing the proposed change will not impact plant safety margins, and there is no current impact as the channel operability values are being administratively controlled. Deletion of footnote ### is an administrative in nature. Based upon the above reasons, the staff considers the proposed changes acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania State official was notified of the proposed issuance of the amendment. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no

significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (60 FR 47623). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: T. Liu

Date: January 3, 1996