

DEC 03 1985

Docket No. 50-387/388

Mr. Harold W. Keiser
Vice President
Nuclear Operations
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Dear Mr. Keiser:

SUBJECT: AMENDMENT NOS. 52 AND 20 TO FACILITY OPERATING LICENSE NOS.
NPF-14 and NPF-22 SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2

The Nuclear Regulatory Commission has issued the enclosed Amendment Nos. 52 and 20 to Facility Operating License No. NPF-14 and NPF-22 for the Susquehanna Steam Electric Station, Units 1 and 2 respectively. These amendments are in response to your letters dated July 31, 1985 as supplemented on September 13, 1985. These amendments revise the Unit 1 and Unit 2 Technical Specifications to include operational control of the newly installed valves in the spray pond spray array drain lines.

A copy of the related safety evaluation supporting Amendment No. 52 and 20 to Facility Operating License Nos. NPF-14 and NPF-22 is enclosed.

Sincerely,

[Signature]

Anthony Bournia, Acting Director
of BWR Project Directorate No. 3
Division of BWR Licensing

Enclosures:

- 1. Amendment Nos. 52 & 20 to NPF-14 and NPF-22
- 2. Safety Evaluation

cc w/enclosure:
See next page

Distribution:
See next page

8512120167 851203
PDR ADOCK 05000387
P PDR

LB#2/DL/LA
EHylton
10/ /85

LB#2/DL/PM
MCampagnone:dh
10/ /85

OELD
10/ /85

LB#2/DL/BC
WButler
10/ /85

[Handwritten signature]
AD/L/DL/D/DRh
TMNovak
10/10/85

3. This amendment is effective upon completion of the modification but no later than December 31, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

Anthony Bounnia, Acting Director
of BWR Project Directorate No. 3
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: DEC 03 1985

LB#2/DL/LA
EHylton
10/ /85

LB#2/DL/PM
MCampagnone:dh
10/ /85

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WButler
10/ /85

OELD
10/ /85

AD/LB/D
TMNovak
10/24/85

Handwritten signature

3. This amendment is effective upon completion of the modification but no later than December 31, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

Approved by:

Anthony Bournia, Acting Director
of BWR Project Directorate No. 3
Division of BWR Licensing

Attachment:
Changes to the Technical
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10/ /85

OELD
10/ /85

AD/LDL
TNovak
10/26/85

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10/26/85



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

SEP 08 1985

Docket No. 50-387/388

Mr. Harold W. Keiser
Vice President
Nuclear Operations
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Dear Mr. Keiser:

SUBJECT: AMENDMENT NOS. 52 AND 20 TO FACILITY OPERATING LICENSE NOS.
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A copy of the related safety evaluation supporting Amendment No. 52 and 20 to Facility Operating License Nos. NPF-14 and NPF-22 is enclosed.

Sincerely,

Anthony Bournia

Anthony Bournia, Acting Director
of BWR Project Directorate No. 3
Division of BWR Licensing

Enclosures:

1. Amendment Nos. 52 & 20
to NPF-14 and NPF-22
2. Safety Evaluation

cc w/enclosure:
See next page

Mr. Harold W. Keiser
Pennsylvania Power & Light Company

Susquehanna Steam Electric Station
Units 1 & 2

cc:

Jay Silberg, Esq.
Shaw, Pittman, Potts, & Trowbridge
1800 M Street, N. W.
Washington, D.C. 20036

Robert W. Alder, Esquire
Office of Attorney General
P.O. Box 2357
Harrisburg, Pennsylvania 17120

Edward M. Nagel, Esq.
General Counsel and Secretary
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Mr. William Matson
Allegheny Elec. Cooperative, Inc.
212 Locust Street
P. O. Box 1266
Harrisburg, Pennsylvania 17108-1266

Mr. William E. Barberich
Manager-Nuclear Licensing
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Mr. Anthony J. Pietrofitta,
General Manager
Power Production Engineering
and Construction
Atlantic Electric
1199 Black Horse Pike
Pleasantville, New Jersey 08232

Mr. R. Jacobs
Resident Inspector
P.O. Box 52
Shickshinny, Pennsylvania 18655

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Mr. R. J. Benich
Services Project Manager
General Electric Company
1000 First Avenue
King of Prussia, Pennsylvania 19406

Mr. Thomas M. Gerusky, Director
Bureau of Radiation Protection
Resources
Commonwealth of Pennsylvania
P. O. Box 2063
Harrisburg, Pennsylvania 17120

Susquehanna

cc: Governor's Office of State Planning & Development
Attn: Coordinator, State Clearinghouse
P O. Box 1323
Harrisburg, Pennsylvania 17120

Mr. Bruce Thomas, President
Board of Supervisors
R. D. #1
Berwick, Pennsylvania 18603

U. S. Environmental Protection Agency
Attn: EIS Coordinator
Region III Office
Curtis Building
6th and Walnut Streets
Philadelphia, Pennsylvania 19106

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

PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE, INC.
DOCKET NO. 50-387
SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 52
License No. NPF-14

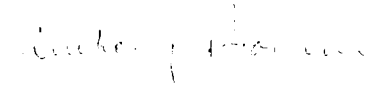
1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
 - A. The application for an amendment filed by the Pennsylvania Power & Light Company, dated July 31, 1985 as supplemented on September 13, 1985 complies with the standards and requirements of the Atomic Energy Act of 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 Facility Operating License No. NPF-14 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. 52, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. PP&L shall operate facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This amendment is effective upon completion of the modification but no later than December 31, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION



Anthony Bournia, Acting Director
of BWR Project Directorate No. 3
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: DEC 03 1985

ATTACHMENT TO LICENSE AMENDMENT NO. 52
FACILITY OPERATING LICENSE NO. NPF-14
DOCKET NO. 50-387

Replace the following pages of the Appendix "A" Technical Specifications with enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

REMOVE

3/4 8-29
3/4 8-30

INSERT

3/4 8-29
3/4 8-30

TABLE 3.8.4.2-1

MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION

<u>VALVE NUMBER</u>	<u>SYSTEM(S) AFFECTED</u>
HV-01222A	RHRSW
HV-01222B	RHRSW
HV-01224A1	RHRSW
HV-01224B1	RHRSW
HV-01224A2	RHRSW
HV-01224B2	RHRSW
HV-01112A	ESW
HV-01112B	ESW
HV-01122A	ESW
HV-01122B	ESW
HV-01112C	ESW
HV-01112D	ESW
HV-01122C	ESW
HV-01122D	ESW
HV-01110A	ESW
HV-01110B	ESW
HV-01120A	ESW
HV-01120B	ESW
HV-01110C	ESW
HV-01110D	ESW
HV-01120C	ESW
HV-01120D	ESW
HV-08693A	ESW
HV-08693B	ESW
HV-01201A1	RHRSW
HV-01201A2	RHRSW
HV-01201B1	RHRSW
HV-01201B2	RHRSW
HV-11210A	RHRSW
HV-11210B	RHRSW
HV-11215A	RHRSW
HV-11215B	RHRSW
HV-15766	Cont. Isol.
HV-15768	Cont. Isol.
HV-12603	Cont. Isol.
HV-11345	Cont. Isol.
HV-11313	Cont. Isol.
HV-11346	Cont. Isol.
HV-11314	Cont. Isol.
HV-E11-1F009	RHR
HV-E11-1F040	RHR
HV-G33-1F001	RWCU
HV-E11-1F103A	RHR
HV-E11-1F075A	RHRSW
HV-E11-1F048A	RHR
HV-E11-1F006C	RHR

TABLE 3.8.4.2-1 (Continued)

MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION

<u>VALVE NUMBER</u>	<u>SYSTEM(S) AFFECTED</u>
HV-E11-1F004C	RHR
HV-E11-1F015A	RHR
HV-E11-1F024A	RHR
HV-E21-1F015A	CS
HV-E41-1F002	HPCI
HV-B21-1F016	NSSS
HV-E11-1F022	RHR
HV-E11-1F010A	RHR
HV-E11-1F011A	RHR
HV-E11-1F004A	RHR
HV-E11-1F006A	RHR
HV-E11-1F027A	RHR
HV-E11-1F007A	RHR
HV-E11-1F104A	RHR
HV-E11-1F026A	RHR
HV-E11-1F028A	RHR
HV-E11-1F047A	RHR
HV-E11-1F073A	RHR
HV-E11-1F003A	RHR
HV-E11-1F017A	RHR
HV-E21-1F001A	CS
HV-E21-1F031A	CS
HV-E21-1F004A	CS
HV-E21-1F005A	CS
HV-E11-1F021A	RHR
HV-E11-1F016A	RHR
HV-15112	RHR
HV-E51-1F007	RHR
HV-E51-1F084	RCIC
HV-E11-1F027B	RCIC
HV-E11-1F048B	RHR
HV-E11-1F015B	RHR
HV-E11-1F006B	RHR
HV-E11-1F021B	RHR
HV-E11-1F010B	RHR
HV-E11-1F011B	RHR
HV-E11-1F004B	RHR
HV-E11-1F007B	RHR
HV-E11-1F104B	RHR
HV-E11-1F026B	RHR



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

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. 20
License No. NPF-22

1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
 - A. The application for an amendment filed by the Pennsylvania Power & Light Company, dated July 31, 1985 as supplemented on September 13, 1985 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 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. 20, 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 amendment is effective upon completion of the modification but no later than December 31, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

Anthony Bournia
Anthony Bournia, Acting Director
of BWR Project Directorate No. 3
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: DEC 31 1985

ATTACHMENT TO LICENSE AMENDMENT NO. 20
FACILITY OPERATING LICENSE NO. NPF-22
DOCKET NO. 50-388

Replace the following pages of the Appendix "A" Technical Specifications with enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

REMOVE

3/4 8-31
3/4 8-32

INSERT

3/4 8-31
3/4 8-32

TABLE 3.8.4.2-1

MOTOR-OPERATED VALVES THERMAL OVERLOAD PROTECTION

<u>VALVE NUMBER</u>	<u>SYSTEM(S) AFFECTED</u>
HV-01222A	RHRSW
HV-01222B	RHRSW
HV-01224A1	RHRSW
HV-01224B1	RHRSW
HV-01224A2	RHRSW
HV-01224B2	RHRSW
HV-01112A	ESW
HV-01112B	ESW
HV-01122A	ESW
HV-01122B	ESW
HV-01112C	ESW
HV-01112D	ESW
HV-01122C	ESW
HV-01122D	ESW
HV-01110A	ESW
HV-01110B	ESW
HV-01120A	ESW
HV-01120B	ESW
HV-01110C	ESW
HV-01110D	ESW
HV-01120C	ESW
HV-01120D	ESW
HV-21144A	ESW
HV-21144B	ESW
HV-08693A	ESW
HV-08693B	ESW
HV-01201A1	RHRSW
HV-01201A2	RHRSW
HV-01201B1	RHRSW
HV-01201B2	RHRSW
HV-21210A	RHRSW
HV-21210B	RHRSW
HV-21215A	RHRSW
HV-21215B	RHRSW
HV-25766	Cont. Isol.
HV-25768	Cont. Isol.
HV-22603	Cont. Isol.
HV-21345	Cont. Isol.
HV-21313	Cont. Isol.
HV-21346	Cont. Isol.
HV-21314	Cont. Isol.
HV-E11-2F009	RHR
HV-E11-2F040	RHR
HV-G33-2F001	RWCU

TABLE 3.8.4.2-1 (Continued)

MOTOR-OPERATED VALVES THERMAL OVERLOAD PROTECTION

<u>VALVE NUMBER</u>	<u>SYSTEM(S) AFFECTED</u>
HV-E11-2F103A	RHR
HV-E11-2F075A	RHRSW
HV-E11-2F048A	RHR
HV-E11-2F006C	RHR
HV-E11-2F004C	RHR
HV-E11-2F015A	RHR
HV-E11-2F024A	RHR
HV-E21-2F015A	RHR
HV-E41-2F002	CS
HV-B21-2F016	HPCI
HV-E11-2F022	NSSS
HV-E11-2F010A	RHR
HV-E11-2F011A	RHR
HV-E11-2F004A	RHR
HV-E11-2F006A	RHR
HV-E11-2F027A	RHR
HV-E11-2F007A	RHR
HV-E11-2F104A	RHR
HV-E11-2F026A	RHR
HV-E11-2F028A	RHR
HV-E11-2F047A	RHR
HV-E11-2F073A	RHR
HV-E11-2F003A	RHRSW
HV-E11-2F017A	RHR
HV-E21-2F001A	CS
HV-E21-2F031A	CS
HV-E21-2F004A	CS
HV-E21-2F005A	CS
HV-E11-2F021A	RHR
HV-E11-2F016A	RHR
HV-25112	RHR
HV-E51-2F007	RHR
HV-E51-2F084	RCIC
HV-E11-2F027B	RCIC
HV-E11-2F048B	RHR
HV-E11-2F015B	RHR
HV-E11-2F006B	RHR
HV-E11-2F021B	RHR
HV-E11-2F010B	RHR
HV-E11-2F011B	RHR
HV-E11-2F004B	RHR
HV-E11-2F007B	RHR
HV-E11-2F104B	RHR
HV-E11-2F026B	RHR



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

SAFETY EVALUATION

AMENDMENTS NOS. 52 AND 20 TO NPF-14 AND NPF-22

SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2

DOCKET NOS. 50-387/388

Introduction

By letter dated July 31, 1985, Pennsylvania Power and Light Company (PP&L), the licensee for Susquehanna Steam Electric Station Units 1 and 2, submitted an amendment request for License No. NPF-14 and 22 concerning the installation of new motor operated valves in each ultimate heat sink (spray pond) spray array drain line for freeze protection. The staff has reviewed the design of the freeze protection system which is necessary to support the proposed change to Technical Specification 3.8.4.2 which adds these new valves to the list of safety-related valves requiring thermal overload protection.

Evaluation

By letters dated July 31 and September 13, 1985, the licensee stated that an automatic start capability has been added to the self-priming pumping system for the spray ponds. This will allow drain down of the spray arrays without operator action to provide freeze protection for the spray piping. Further, a new motor operated valve will be installed in each spray array drain line to isolate the spray arrays from the drain pumps. The function of the drain valves is to close automatically when the spray array isolation valves open on demand. Further, an interlock is also provided that prevents the drain valves from opening unless the spray isolation valves are fully closed. These new motor operator valves are Class 1E and powered from the existing Class 1E motor control centers associated with their respective spray pond, thus satisfying the single failure criterion. The addition of these valves is reflected in Technical Specification Table 3.8.4.2-1 for (MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION) for Units 1 and 2. These valves are safety related and the valves have thermal overload protection devices; however, this protection is continuously bypassed except during testing. By design all safety related valves have their thermal overload protection devices continuously bypassed except during testing so that the valves can perform their safety related function beyond that which the thermal overload protection would limit.

Based on our review of the freeze protection system design, we conclude that it satisfies applicable criteria for assuring spray pond operability and is therefore acceptable. We agree with the licensee's proposal to revise Technical Specification 3.8.4.2 to add these valves to the list of safety-related valves requiring thermal overload protection. Therefore, this change is acceptable.

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P PDR

Environmental Consideration

These amendments involve a change in the installation or use of a facility component located within the restricted area defined in 10 CFR Part 20. The staff has determined that the amendments involve 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 the individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such findings. Accordingly, these amendments meet 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 these amendments.

Conclusion

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: DEC 03 1985