

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

FEB 0 7 1985

Docket Nos.: 50-387/50-388

Mr. Norman W. Curtis Vice President Engineering and Construction - Nuclear Pennsylvania Power & Light Company 2 North Ninth Street Allentown, Pennsylvania 18101

Dear Mr. Curtis:

SUBJECT: Amendment Nos. 30 and 6 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. 30 and 6 to Facility Operating License Nos. NPF-14 and NPF-22 for the Susquehanna Steam Electric Station, Units 1 and 2 respectively. The amendments are in response to your letters dated September 19, 1984 and January 3, 1985. These amendments change the SSES Unit 1 and Unit 2 Technical Specification Table 3.8.4.2-1 by revising the list of motor operated valves in the Emergency Service Water (ESW) system to support corrective action described in your final report dated September 22, 1984.

A copy of the related safety evaluation supporting Amendment Nos. 30 and 6 to Facility Operating License Nos. NPF-14 and NPF-22 is enclosed.

Sincerely.

A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing

Enclosures:

1. Amendment No. 30 to NPF-14

2. Amendment No. 6 to NPF-22

3. Safety Evaluation

cc w/enclosures:
See next page

8502210035 850207 PDR ADDCK 05000387 Docket Nos.: 50-387/50-388

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A copy of the related safety evaluation supporting Amendment Nos. $_{30}$ and $_{6}$ to Facility Operating License Nos. NPF-14 and NPF-22 is enclosed.

Sincerely,

Original signed by:

A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing

Enclosures:

Amendment No. 30 to NPF-14
 Amendment No. 6 to NPF-22

3. Safety Evaluation

cc w/enclosures:
See next page

LB#1/PL/ MC#my gnone: dh LB#**2**/DL EByAton 1/)2/85 ELW LB#2/DL Goldbeyd ASchwencer /14/85 ADTITOL IMNovak 19/5/85

Susquehanna

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

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

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

FEB 07 1985

Issuance of Amendment No.30 to Facility Operating Licence No NPF-14
Susquehanna Steam Electric Station, Unit 1

Issuance of Amendment No. 6 to Facility Operating License No. NPF-22 Susquehanna Steam Electric Station, Unit 2

DISTRIBUTION

50-387

Docket File

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PRC System

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HDenton

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WMiller, LFMB .

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DBrinkman, SSPB

RJacobs, Resident Inspector EMcPeek, SSPB

DKasum, NMSS



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. 30 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 September 19, 1984 and supplemented on January 3, 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;
 - 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-14 is hereby amended to read as follows:
 - (2) <u>Technical Specification and Environmental Protection Plan</u>

The Technical Specifications contained in Appendix A, as revised through Amendment No. 30, 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 start-up following the first refueling outage.

FOR THE NUCLEAR REGULATORY COMMISSION

A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: FEB 07 1985

3. This amendment is effective upon start-up following the first refueling outage.

FOR THE NUCLEAR REGULATORY COMMISSION

Uripinal stated by:

A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: FEB 07 1985

LB#2/DL eigh EHylton 1/₂ 1/85 OELD/ABLANCE LB#2/DL JGoldberg ASchwencer 1/3/85 1/22/85 AD/L/DL TMNovak 1/5/85

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ATTACHMENT TO LICENSE AMENDMENT NO. 30 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	INSERT
3/4 8-29	3/4 8-29
3/4 8-30	3/4 8-30

TABLE 3.8.4.2-1

MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION

VALVE NUMBER	SYSTEM(S) AFFECTED
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 · ESW
HV-01122D	ESW
HV-01110A	ESW
HV-01110B	ESW
HV-01120A	ESW .
HV-01120B	ESW
HV-01110C HV-01110D	ESW
HV-01120C	ESW
HV-01120D	ESW
HV-08693A	ESW
HV-08693B	ESW
HV-11210A	RHRSW
HV-11210B	RHRSW
HV-11215A	RHRSW
HV-11215B	RHRSW
HV-15766	Cont. Isol.
HV-15768	Cont. Isol.
HV-12603	Cont. Iso].
HV-11345	Cont. Isol.
HV-11313	Cont. Isol.
HV-11346	Cont. Isol.
HV-11314	Cont. Isol.
HV-E11-1F009	RHR RHR
HV-E11-1F040	RHK RWCU
HV-G33-1F001	RHR
HV-E11-1F103A	RHRSW
HV-E11-1F075A	RHR
HV-E11-1F048A	RHR
HV-E11-1F006C	MIIN

TABLE 3.8.4.2-1 (Continued)

MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION

VALVE NUMBER	SYSTEM(S) AFFECTED
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	RHRSW
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	RCIC
HV-E51-1F084	RCIC
HV-E11-1F027B	RHR
HV-E11-1F048B HV-E11-1F015B	RHR
HV-E11-1F015B	RHR
HV-E11-1F006B	RHR
HV-E11-1F021B	RHR
HV-E11-1F010B HV-E11-1F011B	• RHR
HV-E11-1F004B	RHR
HV-E11-1F007B	RHR
HV-E11-1F104B	RHR
HV-E11-1F104B HV-E11-1F026B	RHR
UA-ETT-TLASOD	RHR

TABLE 3.8.4.2-1 (Continued)

MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION

VALVE NUMBER				SYSTEM(S) AFFECTED
HV-E11-1F004C			<i>i</i>	0110
HV-E11-1F015A	• .		•	RHR
HV-E11-1F024A			<i>:</i> •	RHR
HV-E21-1F015A	•			RHR 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				RHRSW
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				RCIC
HV-E51-1F084 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
114 F11-11-050D				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. 6 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 September 19, 1984 and supplemented on January 3, 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;
 - 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) <u>Technical Specification and Environmental Protection Plan</u>

The Technical Specifications contained in Appendix A, as revised through Amendment No. 6, 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 Unit 1 start-up following the Unit 1 first refueling outage.

FOR THE NUCLEAR REGULATORY COMMISSION

A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: FEB 07 1985

3. This amendment is effective upon Unit 1 start-up following the Unit 1 first refueling outage.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

A. Schwencer, Chief Licensing Branch No. 2 Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: FEB 07 1985

LB#1/DL/ LB#2/DL MCampagnone dh EM915 on 1/15/15 1/3/85 OELD LB#2/DL JGoldberg LWASchwencer 1/1/85 1/2/85

AD/L/DL TMNovak 1/2/85

ATTACHMENT TO LICENSE AMENDMENT NO. 6 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	INSERT
3/4 8-31	3/4 8-31
3/4 8-32	3/4 8-32

TABLE 3.8.4.2-1

MOTOR-OPERATED VALVES THERMAL OVERLOAD PROTECTION

•		;
VALVE NUMBER		SYSTEM(S)
VALVE NUMBER	•	AFFECTED
HV-01222A	t ·	
HV-01222B		RHRSW
HV-01224A1		RHRSW
HV-01224B1		RHRSW
HV-0122481		RHRSW
HV-01224B2		RHRSW
HV-0122462 HV-01112A		RHRSW
HV-01112A HV-01112B		ESW
HV-01128		ESW
HV-01122B		ESW
HV-011226		ESW
HV-01112D		· ESW
		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-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
HV-E11-2F103A		RHR
HV-E11-2F075A		RHRSW
HV-E11-2F048A		RHR
HV-E11-2F006C		
		RHR

TABLE 3.8.4.2-1 (Continued)

MOTOR-OPERATED VALVES THERMAL OVERLOAD PROTECTION

SYSTEM(S) AFFECTED	RHR	K CH	CS	HPCI	NSSS	RHR	RHR	RHR	RHR	RHR	RHR	RHR	RHR	RHS (XIX	RHR	RHRSW	RHR	R HR	S	ડ ઇ	3 2	3 8	RHR RHR	RHR	RCIC	RCIC	RHR	RHR	RHR	RHR	RHR	RHR	RHR	RHR	RHR	RHR	RHR
٠.	14C 5A	4A	.5A	7	ဖ	2	P.O.	A :	- 44	6A	A/1	4 /	.	₹ 6	C •		3.A	n w	4 /	4	44	5.A	IA	6A		_	4 (90 G	33	28	99 i	87	2 6	29	Ω (20.0	20 6	90
VALVE NUMBER	HV-E11-2F004C HV-E11-2F015A	E11-	E21-	1.	•		Ė		E11-	1	111	HV-E11-2F00/A		֡֓֓֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓֡֓֓֡֓	ACA030-113-VI	1012-111-VI		t	HV-E11-ZFU1/A HV-E21-25001A		1	1		HV-E11-2F016A	HV-25112		1	• [ı.		1:	1	ı		1	-115	77-TT3-	MV-L11-2F0268

TABLE 3.8.4.2-1 (Continued)

MOTOR-OPERATED VALVES THERMAL OVERLOAD PROTECTION

SSS SEE SEE SEE SEE SEE SEE SEE SEE SEE
**
HV-E21-2F004A HV-E21-2F005A HV-E11-2F016A HV-E11-2F016A HV-E51-2F007 HV-E51-2F048B HV-E11-2F027B HV-E11-2F010B HV-E11-2F010B HV-E11-2F010B HV-E11-2F010B HV-E11-2F010B HV-E11-2F010B



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

SAFETY EVALUATION
AMENDMENT NOS. 30 and 6 TO NPF-14 and NPF-22
SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1 AND UNIT 2
DOCKET NOS. 50-387 AND 50-388

Introduction

The licensee proposed changes to the Technical Specifications of the operating license for the Susquehanna Steam Electric Station, Units 1 and 2. These changes are as a result of the licensee's submittal, final report on a deficiency involving water hammer in the Emergency Service Water (ESW) system dated September 22, 1983 (N. W. Curtis (PP&L) to T. E. Murley (NRC)). As an interim fix for the water hammer problem the licensee installed motor operators into four normally manually-operated valves. These valves are identified as HV-01101 A, B, C, and D. At this time the licensee is proposing to implement a permanent acceptable fix for the ESW system water hammer problem. This permanent fix includes removing the motor operators from HV-01101 A, B, C and D which will be converted to locked-open manually operated valves.

In addition, two 8-inch motor-operated butterfly valves (HV-08693 A and B) will be added in the Unit 1 reactor building in the ESW return lines from the control structure chillers. Since these 8-inch butterfly valves are used in support of the common control structure chillers, they are included in both Unit 1 and Unit 2 Technical Specification Table 3.8.4.2-1.

Evaluation

The licensee's proposed changes to the technical specifications will remove the four previously motor-operated valves, HV-01101 A, B, C, D, from the Unit 2 Technical Specification Table 3.8.4.2-1 and HV-08693 A and B will be added to Table 3.8.4.2-1, Motor-Operated Valves Thermal Overload Protection, for both the Unit 1 and Unit 2 Technical Specifications.

The Unit 2 modifications which have been submitted as a separate proposed amendment include the installation of the two 4-inch motor-operated butterfly valves (HV-21144 A and B) in the ESW return lines from the direct-expansion (DX) units. The Unit 2 modifications are unique to Unit 2 and do not have to be added to the Unit 1 Technical Specifications.

The licensee states that removal of the motor operators from the ESW pump discharge valves (HV-01101 A, B, C and P) without the installation of the motor-operated valves on the ESW return lines from the Unit 2 DX units has been analyzed and found acceptable. The NRC staff agrees with this position as the placement of the HV-08693 A and B valves allow an effective method of resolving the ESW water hammer problem until the modification for Unit? are made during the Unit 2 first refueling outage.

8502210044 850207 PDR ADOCK 05000387 PDR The valves to be installed in the ESW system have environmentally qualified limitorque motor operators. The licensee has stated that the piping was analyzed for the addition of the valves and operators and was appropriately supported. The installation of these valves will be in accordance with Section XI of the ASME Boiler and Pressure Vessel Code.

The NRC staff finds these modifications acceptable from a Technical Specification standpoint. Additionally these modifications are acceptable with regard to system analysis and installation.

Our review shows that the proposed changes to the technical specifications are appropriate and that these changes do not reduce the safety of the plant and are, therefore, acceptable.

Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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 this amendment.

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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: FEB 07 1985