

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. 54 License No. NPF-14

- 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 November 26, 1985, as supplemented on January 15, 1986, 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.
- 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

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The Technical Specifications contained in Appendix A, as revised through Amendment No. 54 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. ł

FOR THE NUCLEAR REGULATORY COMMISSION

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Elinor G. Adensam, Director BWR Project Directorate No. 3 Division of BWR Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: FEB 1 4 1986

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ATTACHMENT TO LICENSE AMENDMENT NO. 54

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. The corresponding overleaf page is also provided to maintain document completeness.

REM	UVE	•	INS	ERT	
3/4 3/4	3-11 3-12	*	3/4 3/4	3-11 3-12	(overleaf)
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TABLE 3.3.2-1

ISOLATION ACTUATION INSTRUMENTATION

	++ 1P		TCOLATION		APPLICABLE	
TRIP	FUNC	TION	SIGNAL(s)(a)	PER TRIP SYSTEM (b)	CONDITION	ACTION
1.	PRIM	ARY CONTAINMENT ISOLATION				
	a.	Reactor Vessel Water Level				
		1) Low, Level 3	A ·	2	1, 2, 3	20
		2) Low Low, Level 2	В	2	1, 2, 3	20
		3) Low Low Low, Level 1	X	2	1, 2, 3	20
	Ь.	Drywell Pressure - High	Y,Z,X	2	1, 2, 3	20
	c.	Manual Initiation	NA ,	1	1, 2, 3	24
	d.	SGTS Exhaust Radiation-High	R	1	1, 2, 3,4***,5***	20
	.e.	Main Steam Line Radiation-Hi	gh C	2	1, 2, 3	20
2.	<u>SECO</u>	NDARY CONTAINMENT ISOLATION				
	a.	Reactor Vessel Water Level - Low Low, Level 2	**	2	1, 2, 3 and *	25
· .	b.	Drywell Pressure - High	**	2	1, 2, 3	25
	c.	Refuel Floor High Exhaust Du Radiation - High	ct **	2	*	25
	d.	Railroad Access Shaft Exhaus Duct Radiation - High	t **	. 2	* -	25
	e.	Refuel Floor Wall Exhaust Du Radiation - High	ct **	2	*	25
	f.	Manual Initiation	· NA	1	1, 2, 3 and *	24

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Ámendment No. 54

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TABLE 3.3.2-1 (Continued)

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ISOLATION ACTUATION INSTRUMENTATION

TRIP	FUNC	TION S	SOLATION IGNAL(s)(a)	MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM (b)	APPLICABLE OPERATIONAL CONDITION	ACTION
3.	<u>MAIN</u> a.	<u>I STEAM LINE ISOLATION</u> Reactor Vessel Water Level - Low, Low, Low, Level 1	x	2	1, 2, 3	21
	b.	Main Steam Line Radiation - High	C	2	1, 2, 3	21
	c.	Main Steam Line Pressure - Low	р	2	1	- 22
	d.	Main Steam Line Flow - High	D	2/line	1, 2, 3	20
	e.,	Condenser Vacuum - Low	UA	2	1, 2, 3	21
	f.	Reactor Building Main Steam Li Tunnel Temperature - High	ne E	2	1, 2, 3	21
	g.	Reactor Building Main Steam Li Tunnel ∆ Temperature - High	ne E	2	1, 2, 3	21 .
	h.	Manual Initiation	NA	1	1, 2, 3	24
×	i.	Turbine.Building Main Steam Line Tunnel Temperature-High	E	2	1, 2, 3	21
4.	REAC	TOR WATER CLEANUP SYSTEM.ISOLAT	ION			
	a.	RWCU 🛆 Flow - High	J	1	1, 2, 3	23
	b.	RWCU Area Temperature - High	M	3	1, 2, 3	23
¥	C.	RWCU Area Ventilation \triangle Temp.	- W	3	1, 2, 3	23
	d.	SLCS Initiation	_ I	2	1, 2, 3	23
,	е.	Reactor Vessel Water Level - Low Low, Level 2	В	. 2	1, 2, 3	23
•	f.	RWCU Flow - High	J	1	1, 2, 3	23
	g. ,	,Manual Initiation	NA	1	1, 2, 3	24

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Amendment No. 38

TABLE 4.3.2.1-1

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ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

TRIP	FUNC	<u>, , , , , , , , , , , , , , , , , , , </u>	CHANNEL CHECK	CHANNEL FUNCTIONAL	CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
1.	PRIM	ARY CONTAINMENT ISOLATION				
	a.	Reactor Vessel Water Level -				
		1) Low, Level 3	S	. M	R	1, 2, 3
		2) Low Low, Level 2	S	M 1	R	1, 2, 3
		3) Low Low Low, Level 1	S	, M	R	1, 2, 3
	b	Drywell Pressure - High	NA	м	R	1, 2, 3
	c. d e.	Manual Initiation SGTS Exhaust Radiation - High Main Steam Line Radiation - Hig	NA S Jh S	R M M	NA R R	1, 2, 3 1, 2, 3, 4, 5, 1, 2, 3
2.	<u>SECO</u> a.	NDARY CONTAINMENT ISOLATION Reactor Vessel Water Level - Low Low, Level 2	S	М	R	1, 2, 3 and *
	b. .	Drywell Pressure - High	ŇA	M	Q	1, 2, 3
	c.	Refuel Floor High Exhaust Duct Radiation - High	S	м	R	*
-	d.	Railroad Access Shaft Exhaust Duct Radiation - High	S	M	R	*
••	e.	Refuel Floor Wall Exhaust Duct Radiation - High	S .	м	R .	*
	f.	Manual Initiation	NA	R	NA	1, 2, 3 and *

SUSQUEHANNA - UNIT 1

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Amendment No. 54

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ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS CHANNEL **OPERATIONAL CHANNEL** FUNCTIONAL CHANNEL CONDITIONS FOR WHICH TRIP FUNCTION CHECK TEST CALIBRATION SURVEILLANCE REQUIRED MAIN' STEAM LINE ISOLATION 3. Reactor Vessel Water Level a. Low, Low Low, Level 1 S М R 1, 2, 3 Main Steam Line b. Radiation - High S М R 1, 2, 3 Main Steam Line C. Pressure - Low NA М Q 1 Main Steam Line d. Flow - High S 1, 2, 3 1, 2**, 3** М R Condenser Vacuum - Low NA e. М Q f. Reactor Building Main Steam Line Tunnel Temperature - High NA М 1, 2, 3 Q Reactor Building Main Steam Line g. Tunnel Δ Temperature - High М NA 1, 2, 3 Q Manual Initiation h. R NA 1, 2, 3 NA **i**. Turbine Building Main Steam Line NA М 1, 2, 3 Q Tunnel Temperature - High REACTOR WATER CLEANUP SYSTEM ISOLATION 4. RWCU \triangle Flow - High a. S М 1, 2, 3 R RWCU Area Temperature - High b. NA М 1, 2, 3 Q RWCU Area Ventilation Δ C. Temperature - High NA М 1, 2, 3 Q d. SLCS Initiation NA R NA 1, 2, 3 Reactor Vessel Water e. Level - Low Low, Level 2 S М 1, 2, 3 R f. RWCU Flow - High S 1, 2, 3 М R Manual Initiation NA g. NA R 1, 2, 3

TABLE 4.3.2.1-1 (Continued)

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Amendment No. 38



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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555 PÉNNSYLVANIA POWER & LIGHT COMPANY

ALLEGHENY ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-388

SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 22 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 November 26, 1985, as supplemented on January 15, 1986, 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.
- 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) <u>Technical Specifications and Environmental Protection Plan</u>

The Technical Specifications contained in Appendix A, as revised through Amendment No. 22 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 as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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Elinor G. Adensam, Director BWR Project Directorate No. 3 Division of BWR Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: FEB 1 4 1986

ATTACHMENT TO LICENSE AMENDMENT NO. 22

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. The corresponding overleaf page is also provided to maintain document completeness.

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	-	· · ·	ISOLATION ACTU	ATION INSTRUMENTATION		
TRIP	FUNC	TION	ISOLATION SIGNAL(S)(a)	MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM (b)	APPLICABLE OPERATIONAL CONDITION	ACTION
1.	PRIM	ARY CONTAINMENT ISOLATION		5		
	a.	Reactor Vessel Water Level		-		
		1) Low, Level 3	A _.	2	1, 2, 3	20
		2) Low Low, Level 2	. B	2	1, 2, 3	20
		3) Low Low Low, Level 1	x	- 2	1, 2, 3	20
	b.	Drywell Pressure - High	Y,Z	2	1, 2, 3	20
	c.	Manual Initiation	NA	1 ·	1, 2, 3	24
	d.	SGTS Exhaust Radiation - High	R	1	1, 2, 3, 4***, 5***	20
	e.	Main Steam Line Radiation - High	С	-2	1, 2, 3	20
2.	<u>SECC</u>	NDARY CONTAINMENT ISOLATION				
	a.	Reactor Vessel Water Level Low Low, Level 2	- **	2 -	1, 2, 3 and *	25
	b.	Drywell Pressure - High	**	2	1, 2, 3	25
I	c.	Refuel Floor High Exhaust Duct Radiation - High	**	· · · · · · · · · · · · · · · · · · ·	*	25
	d.	Railroad Access Shaft Exhau Duct Radiation - High	st **	2	*	25
	·e.	Refuel Floor Wall Exhaust Duct Radiation - High -	**	. 2	*	25
	f.	Manual Initiation	NA	1	1, 2, 3 and *	24
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TABLE 3.3.2-1

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SUSQUEHANNA - UNIT 2

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Amendment No. 22

TABLE 3.3.2-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION

TRIP	FUNC	I TION, S	SOLATION SIGNAL(S)(a)	MINIMUM OPERABLE CHANNELS PER TRIP SYSTEM (b)	APPLICABLE OPERATIONAL CONDITION	ACTION				
3.	MAIN a.	STEAM LINE ISOLATION Reactor Vessel Water Level - Low, Low, Level 2	B	2	1, 2, 3	21				
	ь.	Main Steam Line Radiation - High	C _	2	1, 2, 3	21				
	c.	Main Steam Line Pressure - Low	r P	2	1	22				
	d.	Main Steam Line Flow - High	D	2/line	1, 2, 3	· 20				
	e.	Condenser Vacuum - Low	UA	`2	1, 2, 3.	21				
	f.	Reactor Building Main Steam Line Tunnel Temperature - High	E	2	1, 2, 3	21				
	g.	Reactor Building Main Steam Line Tunnel ∆ Temperature - Hi	E gh	2	1, 2, 3	21				
	h.	Manual Initiation	NA	1	1, 2, 3	24				
	i.	Turbine Building Main Steam Li Tunnel Temperature - High	ne E	2	1, 2, 3	21				
4.	REAC	REACTOR WATER CLEANUP SYSTEM ISOLATION								
	a.	RWCU & Flow - High	J	1	1, 2, 3	23				
	b.	RWCU Area Temperature - High	W	3	1, 2, 3	23				
	c.	RWCU Area Ventilation Δ Temperature - High	W	3	1, 2, 3	23				
•	d	SLCS Initiation	Ι	2.	1, 2, 3	23				
	e.	Reactor Vessel Water Level - Low Low, Level 2	В	2	1, 2, 3	23				
	f.	RWCU Flow - High	J	1	1, 2, 3	23				
	′g،	Manual Initiation	NA	1	1, 2, 3	24				

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TABLE 4.3.2.1-1

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ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

TRI	<u>p fun</u>	<u>CTION</u>	CHANNEL CHECK	CHANNEL FUNCTIONAL <u>TEST</u>	CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
1.	PRI	MARY CONTAINMENT ISOLATION				
	a.	Reactor Vessel Water Level -			u .	
		1) Low, Level 3 2) Low Low, Level 2 3) Low Low Low, Level 1	S S S	M M M	R R R	1, 2, 3 1, 2, 3 1, 2, 3
۴	b.	Drywell Pressure - High	NA	М	R	1, 2, 3
	c.	Manual Initiation	NA	R	NA	1, 2, 3
	đ.	[°] SGTS Exhaust Radiation - High	S	М	R	1, 2, 3, 4, 5
	e.	Main Steam Line Radiation - High	S	М	R	1, 2, 3
2.	SECO	ONDARY CONTAINMENT ISOLATION				
	a.	Reactor Vessel Water Level - Low Low, Level 2	S	м	R	1, 2, 3 and *
	b.	Drywell Pressure - High	NA	М	Q	1, 2, 3
	с.	Refuel Floor High Exhaust Duc Radiation - High	t' S	• M	Ŕ	* *
	d.	Railroad Access Shaft Exhaust Duct Radiation - High	S	 М	R	* *
	е.	Refuel Floor Wall Exhaust Duc Radiation - High	t S	М	R	*
n.	f.	Manual Initiation	NA	R .	NA	• 1, 2, 3 and *

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TABLE 4.3.2.1-1 (Continued)

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ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

TRIP	FUNC	TION	CHANNEL CHECK	CHANNEL FUNCTIONAL TEST	CHANNEL . CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE_REQUIRED
3.	MAIN	STEAM LINE ISOLATION				
	a.	Reactor Vessel Water Level -			-	•
*		Low Low, Level 2	S	М	R	1, 2, 3
	b.	Main Steam Line Radiation -	~		n	1 0 0
	~	Hign Nain Staam Lina Proceuma -	5	M	к	1, 2, 3
	6.	Low	NA	М	. 0	1
	d.	Main Steam Line Flow - High	Ś	M	Ř	1, 2, 3
	e.	Condenser Vacuum - Low	NA	M	- Q	1, 2**, 3**
	f.	Reactor Building Main Steam			·	
		Line Tunnel Temperature - High	n NA	N	Q	1, 2, 3
	g. -	Reactor Building Main Steam				
		Line lunnel A lemperature -	NΛ	м ``	n n	1 2 3
	h	Riyn Manual Initiation	NA NA	P D	NA	1 2 3
	1. 1.	Turbine Ruilding Main Steam	in	N	INA	±, 2, 0
	••	Line Tunnel Temperature - High	n NA	М	Q	1, 2, 3
4	RFAC	TOR WATER CLEANUP SYSTEM ISOLAT	TION		·	
•• •			<u> </u>	11	D "	1 2 2
	a. L	RWLU A FIOW - HIGH DUCH Amon Tomponatumo - High	5	្រ ម	R O	1 2 3
	U. C	RWCU Area Temperature - High RWCII Area Ventilation A		13	ų	1, 2, 5
	L .	Temperature - High	NA	. M	0	1, 2, 3
٠	d.	SLCS Initiation	NA	R	ÑA	1, 2, 3
	е.	Reactor Vessel Water Level -				
	-	Low Low; Level 2	S	М	R	1, 2, 3
•	f.	RWCU Flow - High	S	М	R	1, 2, 3
	g.	Manual Initiation	NA	R	NA ·	1, 2, 3
			•		-	

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