

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

WASHINGTON_PUBLIC_POWER_SUPPLY_SYSTEM

DOCKET NO. 50-397

NUCLEAR PROJECT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 147 License No. NPF-21

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the Washington Public Power Supply System (licensee) dated April 25, 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 rules and 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 Facility Operating License No. NPF-21 is hereby amended to read as follows:

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ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 147 TO FACILITY OPERATING LICENSE NO. NPF-21

DOCKET NO. 50-397

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change. The corresponding overleaf pages are also provided to maintain document completeness.

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TABLE_3.3.2-1 (Continued)

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ISOLATION ACTUATION INSTRUMENTATION

<u>TRIP</u>	FUNC	TION	VALVE GROUPS OPERATED BY SIGNAL	MINIMUM OPERABLE CHANNELS <u>PER TRIP SYSTEM (a)</u>	APPLICABLE OPERATIONAL CONDITION	<u>ACTION</u>
⁻ 3.	<u>REAC</u>	TOR WATER CLEANUP SYSTEM ISOLA	TION			
	a.	∆ Flow - High	7	1	1, 2, 3	22
	b.	Heat Exchanger Area Temperature - High	7	1	1, 2, 3	22
	c.	Heat Exchanger Area Ventilation Δ Temp		_		
	J	High	7	1	1, 2, 3	22
	d.	Pump Area Temperature - High 1) Pump Room A 2) Pump Room B	7 7	1	1, 2, 3 1, 2, 3	22 22
	e.	Pump Area Ventilation		-	_, _, _	
		1) Pump Room A 2) Pump Room B	7 7	1	1, 2, 3 1, 2, 3	⁻ 22 22
	f.	SLCS Initiation	, 7(f)	Ñ.A.	1, 2, 3	22
	g.	Reactor Vessel Water Level - Low Low, Level 2	7	2	1, 2, 3	22
	h.	RWCU/RCIC Line Routing	_	x		
	i.	Area Temperature - High •RWCU Line Routing Area Temperature - High	7	1	1, 2, 3	22
		Room 509 Room 511	7 7	1	1, 2, 3 1, 2, 3	22 22
		Room 408	7	1.	1, 2, 3	22
		Room 409	7	1	1, 2, 3	22
	j. k.	Manual Initiation Blowdown Flow - High	7 7	l/group 1	1, 2, 3 1, 2, 3	24 27

TABLE 3.3.2-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION

TRIP	FUNC		ALVE GROUPS	MINIMUM OPERABLE CHANNELS <u>PER TRIP SYSTEM (a)</u>	APPLICABLE OPERATIONAL _CONDITION_	ACTION
4.	REAC	CTOR CORE ISOLATION COOLING SYSTE	EM ISOLATION			
	a.	RCIC Steam Line Flow - High	8	1	1, 2, 3	22
	b.	RCIC/RHR Steam Line Flow - High		1	1, 2, 3	22
	c.	RCIC Steam Supply Pressure - Lo	ow 8,9	2	1, 2, 3	22
	d.	RCIC Turbine Exhaust Diaphragm				
		Pressure - High	8	2	1, 2, 3	22
	e.	RCIC Equipment Room Temperature	9		• •	
		- High	8	1	1, 2, 3	22
	f.	RCIC Equipment Room				
		∆ Temperature - High	8	1	1, 2, 3	22
	g.	RWCU/RCIC Steam Line Routing				
	Ũ	Area Temperature - High	8	1	1, 2, 3	22
	h.	Drywell Pressure - High	9	1 2	1, 2, 3	22
	i.	Manual Initiation(h)	8	ī	1, 2, 3	24
5.		SYSTEM SHUTDOWN COOLING MODE ISC	DLATION (i)	N Contraction of the second		
	a.	Reactor Vessel Water Level - Low, Level 3	6	2	1, 2, 3	• 26
	b.	Reactor Vessel (RHR Cut-in			_, _, _	
		Permissive) Pressure - High	6	1	1. 2. 3	26
	c.	Equipment Area Temperature - Hi		ī	1, 2, 3 1, 2, 3	26
	d.	Equipment Area Ventilation	J	-	-, -, -	•
		∆ Temp High	6	1	1, 2, 3	26
	e.	Shutdown Cooling Suction	-	-	-, -, -	
		Flow Rate - High	6	1	1, 2, 3	26
	f.	RHR Heat Exchanger Area	•	-	_, _, _	
	••	Temperature - High				
		Room 606	6	1	1, 2, 3	26
		Room 507	6	1	1, 2, 3	26
		Room 605	ő	1	1, 2, 3	26
		Room 505	ő	1	1, 2, 3	26
	g.	Manual Initiation	6	1/group	1, 2, 3	24
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TABLE 3.3.2-1 (Continued)

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ISOLATION ACTUATION INSTRUMENTATION

ACTION STATEMENTS

		ACTION_STATEMENTS
ACTION	20 -	Be in at least HOT SHUTDOWN within 12 hours and in COLD
ACTION	21 -	SHUTDOWN within the next 24 hours. Be in at least STARTUP with the associated isolation valves
		closed within 6 hours or be in at least HOT SHUTDOWN within
A07701	~~	12 hours and in COLD SHUTDOWN within the next 24 hours.
ACTION	22 -	Close the affected system isolation valves within 1 hour and declare the affected system inoperable.
ACTION	23 -	Be in at least STARTUP within 6 hours.
ACTION		Restore the manual initiation function to OPERABLE status within 8 hours or close the affected system isolation valves within the next hour and declare the affected system inoperable or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
ACTION	25 -	Establish SECONDARY CONTAINMENT INTEGRITY with the standby gas
ACTION	26 -	treatment system operating within 1 hour. Lock close or close, as applicable, the affected system
ACTION	20 -	isolation valves within 1 hour and declare the affected system
ACTION	27 -	inoperable. Close valve RWCU-V-32 within 1 hour or perform ACTION 22.
ACTION	21 -	
		TABLE NOTATIONS
		assed with reactor steam pressure \leq 1060 psig and all turbine s closed.
		ing irradiated fuel in the secondary containment and during CORE
ALTE	RATIONS	S and operations with a potential for draining the reactor
Vess #Dunai		C ALTERATIONS and accustions with a natartial fau durining the
	tor ves	E ALTERATIONS and operations with a potential for draining the ssel.
(a)	requi	nnel may be placed in an inoperable status for up to 6 hours for red surveillance without placing the trip system in the tripped tion provided at least one other OPERABLE channel in the same
		system is monitoring that parameter.
(b)	Also DELET	actuates the standby gas treatment system.
(c) (d)		nnel is OPERABLE if 2 of 4 detectors in that channel are
	OPERA	BLE.
(e)		actuates secondary containment ventilation isolation dampers per 3.6.5.2-1.
(f)		es only RWCU system outboard isolation valve RWCU-V-4.
(g)		valves RHR-V-123A and RHR-V-123B in Valve Group 5 are required
(h)		primary isolation. I initiation isolates RCIC-V-8 only and only with a coincident
(")		or vessel level-low, level 3.
(i)	Not r	equired for RHR-V-8 when control is transferred to the alternate se shutdown panel during operational conditions 1, 2 & 3 and the
	isola	tion interlocks are bypassed. When RHR-V-8 control is
	trans	ferred to the remote shutdown panel under operational modes 1,
		d 3 the associated key lock switch will be locked with the valve
		e closed position. Except RHR-V-8 can be returned to, and ted from, the control room, with the interlocks and automatic
		tion capability reestablished in operational conditions 2 and 3
		reactor pressure is less than 135 psig.
WASHING	TON NUC	IFAR - UNIT 2 3/4 3-15 Amendment No. 58-99-112-137.14

WASHINGTON NUCLEAR - UNIT 2

Amendment No. 58,99,112,137,147

TABLE 3.3.2-2

ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

TRIP	FUNCTION	TRIP SETPOINT	ALLOWABLE VALUE
1.]	PRIMARY CONTAINMENT ISOLATION		
1	 a. Reactor Vessel Water Level 1) Low, Level 3 2) Low Low, Level 2 b. Drywell Pressure - High c. Main Steam Line 1) DELETED 	≥ 13.0 inches* ≥ -50 inches* ≤ 1.68 psig	<pre>≥ 11.0 inches ≥ -57 inches ≤ 1.88 psig</pre>
	2) Pressure - Low 3) Flow - High d. Main Steam Line Tunnel	≥ 831 psig ≤ 115.6 psid	≥ 811 psig ≤ 124.6 psid
	Temperature - High e. Main Steam Line Tunnel	≤ 164°F	≤ 170°F
	ΔTemperature - High f. Condenser Vacuum - Low	$\leq 80^{\circ}F$	≤ 90°F
	g. Manual Initiation	≥ 23 inches Hg absolute pressure N.A.	≥ 24.5 inches Hg absolute pressure N.A.
2.	SECONDARY CONTAINMENT ISOLATION		•
ä	a. Reactor Building Vent Exhaust Plenum Radiation - High		
Ł	5. Drywell Pressure - High	≤ 13.0 mR/h ≤ 1.68 psig	≤ 16.0 mR/h ≤ 1.88 psig
	c. Reactor Vessel Water		
c	Level - Low Low, Level 2 1. Manual Initiation	≥ -50 inches* N.A.	≥ -57 inches N.A.

TABLE 3.3.2-2 (Continued) ISOLATION ACTUATION INSTRUMENTATION SETPOINTS

TRIP_FUNCTION		TRIP_SETPOINT	ALLOWABLE
3.	REACTOR WATER CLEANUP SYSTEM ISOLATION		
	a. ∆ Flow - High b. Heat Exchanger Area	≤ 58.5 gpm	≤ 65.5 gpm
	Temperature - High c. Heat Exchanger Area	≤ 150°F	≤ 160°F
	Ventilation Δ Temp High d. Pump Area Temperature - High	≤ 60°F	≤ 70°F
	Pump Room A Pump Room B	≤ 160°F ≤ 160°F	≤ 180°F ≤ 180°F
	e. Pump Area Ventilation Δ Temp High	2 100 F	2 100 F
	Pump Room A Pump Room B	≤ 70°F ≤ 70°F	≤ 100°F ≤ 100°F
	f. SLCS Initiation g. Reactor Vessel Water Level -	N.A.	N.A.
	Low Low, Level 2 h. RWCU/RCIC Line Routing	≥ -50 inches*	≥ -57 inches
	Area Temperature - High i. RWCU Line Routing Area	≤ 160°F	≤ 180°F
	Temperature - High Room 409 Room 511 Room 408 Room 409 j. Manual Initiation	$\leq 160^{\circ}$ F	≤ 175°F ≤ 180°F ≤ 180°F ≤ 175°F N.A.
	k. Blowdown Flow - High	≤ 264.5 gpm	≤ 271.7 gpm
4.	REACTOR CORE ISOLATION COOLING SYSTEM ISOLATIC	<u>N</u>	
	 a. RCIC Steam Line Flow - High b. RHR/RCIC Steam Line Flow - High c. RCIC Steam Supply Pressure - Low d. RCIC Turbine Exhaust Diaphragm 	≤ 290% of rated flow ≤ 101.5 inches H ₂ 0 ≥ 62 psig	≤ 300% of rated flow ≤ 107.5 inches H ₂ 0 ≥ 58 psig
	Pressure - High e. RCIC Equipment Room	≤ 10.0 psig	.≤ 20.0 psig
	Temperature - High	≤ 160°F	≤ 180°F

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TRI	<u>p fun</u>		CHANNEL CHECK	CHANNEL FUNCTIONAL TEST	CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH <u>SURVEILLANCE REQUIRED</u>
3.	<u>REAC</u>	TOR WATER CLEANUP SYSTEM ISOLA	TION			
	a. b.	∆ Flow - High Heat Exchanger Area	S	Q	R	1, 2, 3
	с.	Temperature - High Heat Exchanger Area	N.A.	SA	R	1, 2, 3
-		Ventilation Δ Temperature - High	N.A	SA	R	1, 2, 3
	d.	Pump Area Temperature - High			_	
		Pump Room A -	N.A	SA	R	1, 2, 3
	e.	Pump Room B Pump Area Ventilation ∆ Temp High	N.A.	⇒ SA _	R	1, 2, 3
		Pump Room A	N.A.	SA	R 🖌	1, 2, 3
		Pump Room B	N.A.	SA	R	1, 2, 3
	f.	SLCS Initiation	N.A.	R	N.A.	1, 2, 3
	g.	Reactor Vessel Water				
-	h.	Level - Low Low, Level 2 RWCU/RCIC Line Routing Area	N.A.	Q	R	1, 2, 3
	i -	Temperature - High RWCU Line Routing Area	N.A.	SA	R	1, 2, 3
		Temperature - High	N.A.	SA	R	1, 2, 3
	j.	Manual Initiation	N.A.	R	N.A.	1, 2, 3
	k.	Blowdown Flow - High	S	Q	R	1, 2, 3
4.	<u>Reac</u>	TOR CORE ISOLATION COOLING SYS	<u>TEM ISOLATI</u>	ON		
	a. b.	RCIC Steam Line Flow - High RCIC/RHR Steam Line Flow -	S	Q	R	1, 2, 3
	c.	High RCIC Steam Supply Pressure -	S	Q	R	1, 2, 3
		Low	Ň.A.	Q	R	1, 2, 3
	d.	RCIC Turbine Exhaust Diaphragm Pressure - High	m N.A.	Q	R	1, 2, 3
	e. £	RCIC Equipment Room Temperature - High RCIC Equipment Room	N.A.	SA	R	1, 2, 3
	f.	RCIC Equipment Room ∆ Temperature - High	N.A.	SA 1	R	1, 2, 3

TABLE 4.3.2.1-1 (Continued) ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

TABLE 4.3.2.1-1 (Continued)

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ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS

TRI	IP_FUI	NCTION	CHANNEL CHECK	CHANNEL FUNCTIONAL TEST	CHANNEL <u>CALIBRATION</u>	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
4.	READ	CTOR CORE ISOLATION COOLING SYS	STEM ISOLATI	<u>ON</u> (Continued)		
	g. h. i.	RWCU/RCIC Steam Line Routing Area Temperature - High Drywell Pressure - High Manual Initiation	N.A. N.A. N.A.	SA Q R	R R N.A.	1, 2, 3 1, 2, 3 1, 2, 3 1, 2, 3
5.	<u>RHR</u>	SYSTEM SHUTDOWN COOLING MODE	ISOLATION			
	a. b.	Reactor Vessel Water Level - Low, Level 3 Reactor Vessel (RHR Cut-in	S	Q	R	1, 2, 3
		Permissive) Pressure – High	n N.A.	Q	R	1, 2, 3
	c.	Equipment Area Temperature - High	N.A.	SA	R	1, 2, 3
	d.	Equipment Area Ventilation △ Temp High	N.A.	SA	R	1, 2, 3
	e.	Shutdown Cooling Return Flow Rate - High	N.A.	Q	R	1, 2, 3
	f.	RHR Heat Exchanger Area Temperature - High	N.A.	SA	R	1, 2, .3
	g.	Manual Initiation	N.A.	R	N.A. '	1, 2, 3

TABLE NOTATIONS

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When reactor steam pressure \geq 1060 psig and/or any turbine stop value is open. When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel. During CORE ALTERATION and operations with a potential for draining the reactor vessel. **

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