

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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-250

BROWNS FERRY NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 180 License No. DPR-52

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated May 24, 1990 as supplemented September 17, 1990, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and 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.

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- 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. DPR-52 is hereby amended to read as follows:
 - (2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 180, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

 This license amendment is effective as of its date of issuance and shall be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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Frederick J. Hebdon, Director Project Directorate II-4, NRR Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: December 10, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 180

FACILITY OPERATING LICENSE NO. DPR-52

DOCKET NO. 50-260

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change. Overleaf pages* are provided to maintain document completeness.

REMOVE	INSERT
3.2/4.2-16	3.2/4.2-16
3.2/4.2-17	3.2/4.2-17*
3.2/4.2-40	3.2/4.2-40
3.2/4.2-41	3.2/4.2-41*
3.2/4.2-44	3.2/4.2-44*
3.2/4.2-45	3.2/4.2-45
3.2/4.2-61	3.2/4.2-61
3.2/4.2-61a	3.2/4.2-61a

TABLE 3.2.B (Continued)

BFN Unit 2	Minimum No. Operable Per Irip Sys(1)	Function	Trip Level Setting	Action	Remarks
	2	Instrument Channel - Reactor Low Pressure (PIS-3-74 A & B) (PIS-68-95, 96)	450 psig <u>+</u> 15	A	 Below trip setting permissive for opening CSS and LPCI admission valves.
	2	Instrument Channel - Reactor Low Pressure (PS-3-74 A & B) (PS-68-95, 96)	230 psig <u>+</u> 15	A	 Recirculation discharge valve actuation.
	2	Core Spray Auto Sequencing Timers (5)	6 <u><</u> t <u><</u> 8 sec.	в	 With diesel power One per motor
LU	2	LPCI Auto Sequencing Timers (5)	0 <u><</u> t <u>≺</u> 1 sec.	В	 With diesel power One per motor
.2/4.	1	RHRSW A1, B3, C1, and D3 Timers	13 <u><</u> t <u><</u> 15 sec.	A	 With diesel power One per pump
2-16	2	Core Spray and LPCI Auto Sequencing Timers (6)	$\begin{array}{c} 0 \leq t \leq 1 \text{ sec.} \\ 6 \leq t \leq 8 \text{ sec.} \\ 12 \leq t \leq 16 \text{ sec.} \\ 18 \leq t \leq 24 \text{ sec.} \end{array}$	3	 With normal power One per CSS motor Two per RHR motor
Þ	1	RHRSW A1, B3, C1, and D3 Timers	27 <u><</u> t <u><</u> 29 sec.	A	 With normal power One per pump

BFN Unit 2	Minimum No. Operable Per <u>Trip Svs(1)</u>	Function	Trip Level Setting	Action	Remarks
	1(16)	ADS Timer	105 sec <u>+</u> 7	A	 Above trip setting in conjunction with low reactor water level permissive, low reactor water level, high drywell pressure or high drywell pressure bypass timer timed out, and RHR or CSS pumps running, initiates ADS.
З,	1(16)	ADS Timer (12 1/2 min.) (High Drywell Pressure Bypass Timer)	12 1/2 min. ± 2	A	 Above trip setting, in conjunction with low reactor water level permissive, low reactor water level, 105 sec. delay timer, and RHR or CSS pumps running, initiates ADS.
2/4.	2	Instrument Channel - RHR Discharge Pressure	100 ±10 psig	A	 Below trip setting defers A actuation.
2-17	2	Instrument Channel CSS Pump Discharge Pressure	185 ±10 psig	A	 Below trip setting defers A actuation.
	1(3)	Core Spray Sparger to Reactor Pressure Vessel d/p	2 psid <u>+</u> 0.4	А	 Alarm to detect core sparge pipe break.
		RHR (LPCI) Trip System bus power monitor	N/A	c	 Monitors availability of power to logic systems.
	1	Core Spray Trip System bus power monitor	N/A	c	 Monitors availability of power to logic systems.
A	1	ADS Trip System bus power monitor	N/A	c	 Monitors availability of power to logic systems and valves.

TABLE 3.2.B (Continued)

AMENDMENT NO. 1 6 2

BFI	SURVEILLANCE REQUIREMENTS	TABLE 4.2 FOR PRIMARY CONTAINMENT A	2.A ND REACTOR BUILDING ISOLATION	INSTRUM	ENTATION
£.,	Function	Functional Test	Culibration Frequency		Instrument Check
	Instrument Channel - Reactor Low Water Level (LIS-3-203A-D)	(1) (27)	Once/18 Months	(28)	Once/day
	Instrument Channel - Reactor High Pressure (PS-68-93 & 94)	(31)	Once/18 months		None
3.2/4.2-40	Instrument Channel - Reactor Low Water Level (LIS-3-56A-D)	(1) (27)	Once/18 months	(28)	Once/day
	Instrument Channel – High Drywell Pressure (PIS-64-56A-D)	(1) (27)	Once/18 Months	(28)	N/A
	Instrument Channel – High Radiation Main Steam Line Tunnel	29	(5)		Once/day
	Instrument Channel - Low Pressure Main Steam Line (PIS-1-72, 76, 82, 86)	(29) (27)	Once/18 Months (28)		None
	Instrument Channel - High Flow Main Steam Line (PdTS-1-134-D 256-D 366-D 506-D)	(29) (27)	Once/18 Months (28)		Once/day

Unit 2

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TABLE 4.2.A (Cont'd) SURVEILLANCE REQUIREMENTS FOR PRIMARY CONTAINMENT AND REACTOR BUILDING ISOLATION INSTRUMENTATION

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FN	Function	Functional Test	Calibration Frequency	Instrument Chec	
2	Instrument Channel - Main Steam Line Tunnel High Temperature	Once/3 months (27)	Once/operating cycle	None	
	Instrument Channel - Reactor Building Ventilation High Radiation - Reactor Zone	(1) (22)	Once/3 months	Once/day (8)	
	Instrument Channel – Reactor Building Ventilation High Radiation – Refueling Zone	(1) (22)	Once/3 Months	Once/day (8)	
	Instrument Channel - SGTS Train A Heaters	(4)	(9)	N/A	
3.	Instrument Channel - SGIS Train B Heaters	(4)	(9)	N/A	
2/4.2	Instrument Channel - SGTS Train C Heaters	(4)	(9)	N/A	
2-41	Reactor Building Isolation Timer (refueling floor)	(4)	Once/operating cycle	N/A	
	Reactor Building Isolation Timer (reactor zone)	(4)	Once/operating cycle	N/A	

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BFN	Function	Functional Test	Calibration	<u></u>	Instrument Check
3	Instrument Channel Reactor Low Water Level (LIS-3-58A-D)	(1) (27)	Once/18 Months	(28)	Once/day
	Instrument Channel Reactor Low Water Level (LIS-3-184 & 185)	(1) (27)	Once/18 Months	(28)	Once/day
	Instrument Channel Reactor Low Water Level (LIS-3-52 & 62A)	(1) (27)	Once/18 Months	(28)	Once/day
	Instrument Channel Drywell High Pressure (PIS-64-58E-H)	(1) (27)	Once/18 Months	(28)	none
3.2/4.	Instrument Channel Drywell High Pressure (PIS-64-58A-D)	(1) (27)	Once/18 Months	(28)	none
2-44	Instrument Channel Drywell High Pressure (PIS-64-57A-B)	(1) (27)	Once/18 Months	(28)	none
	Instrument Channel Reactor Low Pressure (PIS-3-74.**P. PS-3-74A&B) (PIS-68-95, PS-58-95) (PIS-68-96, PS-68-96)	(1) (27)	Once/6 Months	(28)	none

TABLE 4.2.8 SURVEILLANCE REQUIREMENTS FOR INSTRUMENTATION THAT INITIATE OR CONTROL THE CSCS

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FN	Function	Functional Test	Calibration	Instrument Check
0	Core Spray Auto Sequencing Timers (Normal Power)	(4)	Once/operating cycle	none
	Core Spray Auto Sequencing Timers (Diesel Power)	(4)	Once/operating cycle	none
	LPCI Auto Sequencing Timers (Normal Power)	(4)	Once/operating cycle	none
	LPCI Auto Sequencing Timers (Diesel Power)	(4)	Once/operating cycle	none
	RHRSW A1, B3, C1, D3 Timers (Normal Power)	(4)	Once/operating cycle	none
ω	RHRSW A1, B3, C1, D3 Timers (Diesel Power)	(4)	Once/operating cycle	none
2/4	ADS Timer (105 sec.)	(4)	Once/operating cycle	none
2-45	ADS Timer (12 1/2 min.) (High Drywell Pressure Sypass Timer)	(4)	Once/operating cycle	none

TABLE 4.2.B (Continued) SURVEILLANCE REQUIREMENTS FOR INSTRUMENTATION THAT INITIATE OR CONTROL THE CSCS

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