Docket Nos. 50-259/260/296

Mr. Hugh G. Parris Manager of Power Tennessee Valley Authority 500A Chestnut Street, Tower II Chattanooga, Tennessee 37401

Dear Mr. Parris:

On June 11, 1984, we issued Amendment Nos. 100, 94 and 67 to Facility Operating License Nos. DPR-33, DPR-52 and DPR-68 for the Browns Ferry Nuclear Plant, Units 1, 2 and 3. There were errors on several pages. A set of pages to replace those with errors is enclosed.

We apologize for any inconvenience this may have caused you.

Sincerely,

Richard J. Clark, Project Manager

Operating Reactors Branch #2

Division of Licensing

Enclosures: As stated

cc w/enclosures: See next page

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Mr. Hugh G. Parris Tennessee Valley Authority Browns Ferry Nuclear Plant, Units 1, 2 and 3

cc:

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TABLE 3.2.C INSTRUMENTATION THAT INITIATES ROD BLOCKS

Channels Per Trip Function (5)	Function	:
		Trip Level Setting .
4(1)	APRM Upscale (Flow Bias)	≤0.664 + 42\$ (2)
4(1)	APRH Upscale (Startup Hode) (8)	ر <u>≼</u> 12≴
4(1)	APRH Downscale (9)	ے عراق
4(1)	APRM Inoperative	(10b)
2(7)	RBM Upscale (Flow Bias)	
2(7)	RBM Downscale (9)	S 0.660 + 407 (2)(13)
2(7)	RBM Inoperative	≥35
6(1)	IRM Upscale (8)	(10e)
6(1)		≤108/125 of full scale
6(1)	IRM Downscale (3) (8)	≥5/125 of full scale
6(1)	IRM Detector not in Startup Position (8)	(11)
1	IRH Inoperative (8)	(10%)
3(1) (6)	SRH Upscale (8)	≤ 1X10 ⁵ counts/sec.
3(1) (6)	SRM Downscale (4) (8)	` ≥3 counta/sec.
3(1) (6)	SRM Detector not in Startup Position (4)(8)	(11)
3(1) (6)	SRH Inoperative (8)	(10a)
2(1)	Flow Bias Comparator	
2(1)	Flow Bias Upscale	≤ 10¶ difference in recirculation flows
1	Rod Block Logic	≤115% recirculation flow
2(1)	RCSC Restraint (PS85-61A, P)	II/A
1(12)		147 psig turbine first stage prossing
	liigh Water Level in West Scram Discharge Tank (1.5-85-451.)	<25 gal.
1(12)	High Water Level in East Scrapp Discharge Tank (1.5-85-45H)	<25 gal.

NOTES FOR TABLE 3.2.C

1. The minimum number of operable channels for each trip function is detailed for the startup and run positions of the reactor mode selector switch. The SRM, IRM, and APRM (startup mode), blocks need not be operable in "run" mode, and the APRM (flow biased) rod blocks need not be operable in "startup" mode.

With the number of OPERABLE channels less than required by the minimum OPERABLE channels per trip function requirement, place at least one inoperable channel in the tripped condition within one hour.

2. W is the recirculation loop flow in percent of design. Trip level setting is in percent of rated power (3293 MWt).

A ratio of FRP/CMFLPD < 1.0 is permitted at reduced power. See specification 2.1 for APRM control rod block setpoint.

- 3. IRM downscale is bypassed when it is on its lowest range.
- 4. SRM's A and C downscale functions are bypassed when IRM's A, C, E, and G are above range 2. SRM's B and D downscale function is bypassed when IRM's B, D, F, and H are above range 2.

SRM detector not in startup position is bypassed when the count rate is ≥ 100 CPS or the above condition is satisfied.

- 5. During repair or calibration of equipment, not more than one SRM or RBM channel nor more than two APRM or IRM channels may be bypassed. Bypassed channels are not counted as operable channels to meet the minimum operable channel requirements. Refer to section 3.10.B for SRM requirements during core alterations.
- 6. IRM channels A, E, C, G all in range 8 or above bypasses SRM channels A and C functions.

IRM channels B, F, D, H all in range 8 or above bypasses SRM channels B and D functions.

- 7. The following operational restraints apply to the RIM only.
 - a. Both RBM channels are bypassed when reactor power is ≤30% and when a peripheral control rod is selected.
 - b. The RIM need not be operable in the "startup" position of the reactor mode selector switch.
 - c. Two REM channels are provided and only one of these may be bypassed from the console. An REM channel may be out of service for testing and/or maintenance provided this condition does not last longer than 24 hours in any thirty day period.
 - d. If minimum conditions for Table 3.2.C are not met, administrative controls, shall be immediately imposed to prevent control rud with run.).

NOTES FOR TABLE 3.2.C

1. The minimum number of operable channels for each trip function is detailed for the startup and run positions of the reactor mode selector switch. The SRM, IRM, and APRM (startup mode), blocks need not be operable in "run" mode, and the APRM (flow biased) rod blocks need not be operable in "startup" mode.

With the number of OPERABLE channels less than required by the minimum OPERABLE channels per trip function requirement, place at least one inoperable channel in the tripped condition within one hour.

2. W is the recirculation loop flow in percent of design. Trip level setting is in percent of rated power (3293 MWt).

A ratio of FRP/CMFLPD < 1.0 is permitted at reduced power. See specification 2.1 for APRM control rod block setpoint.

- 3. IRM downscale is bypassed when it is on its lowest range.
- 4. SRM's A and C downscale functions are bypassed when IRM's A, C, E, and G are above range 2. SRM's B and D downscale function is bypassed when IRM's B, D, F, and H are above range 2.

SRM detector not in startup position is bypassed when the count rate is ≥ 100 CPS or the above condition is satisfied.

- 5. During repair or calibration of equipment, not more than one SRM or RBM channel nor more than two APRM or IRM channels may be bypassed. Bypassed channels are not counted as operable channels to meet the minimum operable channel requirements. Refer to section 3.10.8 for SRM requirements during core alterations.
- 6. IRM channels A, E, C, G all in range 8 or above bypasses SRM channels A and C functions.

IRM channels B, F, D, H all in range 8 or above bypasses SRM channels B and D functions.

- 7. The following operational restraints apply to the RIM only.
 - a. Both RBM channels are bypassed when reactor power is ≤30% and when a peripheral control rod is selected.
 - b. The RIM need not be operable in the "startup" position of the reactor mode selector switch.
 - c. Two REM channels are provided and only one of these may be bypassed from the console. An REM channel may be out of service for testing and/or maintenance provided this condition does not last longer than 24 hours in any thirty day period.
 - d. If minimum conditions for Table 3.2.C are not met, administrative controls, shall be immediately imposed to prevent control rod with result.

NOTES FOR TABLE 3.2.C

1. The minimum number of operable channels for each trip function is detailed for the startup and run positions of the reactor mode selector switch. The SRM, IRM, and APRM (startup mode), blocks need not be operable in "run" mode, and the APRM (flow biased) rod blocks need not be operable in "startup" mode.

With the number of OPERABLE channels less than required by the minimum OPERABLE channels per trip function requirement, place at least one inoperable channel in the tripped condition within one hour.

2. W is the recirculation loop flow in percent of design. Trip level setting is in percent of rated power (3293 MWt).

A ratio of FRP/CMFLPD < 1.0 is permitted at reduced power. See specification 2.1 for APRM control rod block setpoint.

- 3. IRM downscale is bypassed when it is on its lowest range.
- 4. SRM's A and C downscale functions are bypassed when IRM's A, C, E, and G are above range 2. SRM's B and D downscale function is bypassed when IRM's B, D, F, and H are above range 2.

SRM detector not in startup position is bypassed when the count rate is ≥ 100 CPS or the above condition is satisfied.

- 5. During repair or calibration of equipment, not more than one SRM or RBM channel nor more than two APRM or IRM channels may be bypassed. Bypassed channels are not counted as operable channels to meet the minimum operable channel requirements. Refer to section 3.10.8 for SRM requirements during core alterations.
- 6. IRM channels A, E, C, G all in range 8 or above bypasses SRM channels A and C functions.

IRM channels B, F, D, H all in range 8 or above bypasses SRM channels B and D functions.

- 7. The following operational restraints apply to the RIM only.
 - a. Both RBM channels are bypassed when reactor power is ≤30% and when a peripheral control rod is selected.
 - b. The RIM need not be operable in the "startup" position of the reactor mode selector switch.
 - c. Two REM channels are provided and only one of these may be bypassed from the console. An REM channel may be out of service for testing and/or maintenance provided this condition does not last longer than 24 hours in any thirty day period.
 - d. If minimum conditions for Table 3.2.C are not met, administrative controls, small be immediately imposed to prevent control red witherawal.