LICENSE AUTHORITY FILE CC

Docket Nos. 50-259(260/296

APR 2 2 1985

DO NOT REMOVE

Posted Correction to Amolt. 111 to DPR-52

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

Dear Mr. Parris:

On April 5, 1985 we issued Amendment Nos. 116, 111 and 86 to Facility Operating License Nos. DPR-33, DPR-52 and DPR-68 in response to your application dated October 19, 1984.

Those amendments contained errors. Changes made by Amendments Nos. 114, 108 and 86 were inadvertently omitted, and footers did not indicate previous amendments. Corrected pages are enclosed. Certain pages have been revised for improved legibility. Only the pages marked "corrected (date)" have corrected Technical Specifications.

Sincerely,

Richard J. Clark, Project Manager Operating Reactors Branch #2 Division of Licensing

1

Enclosures: As stated

cc w/enclosures: See next page

JPartlow		
SNorris	ELJordan	ACRS (10)
RClark	BGrimes	OPA, CMiles
WLong	TBarnhart (12)	RDiggs
OELD	WJones	Gray File
LJHarmon	EButcher	Extra - 5
	JPartlow SNorris RClark WLong OELD LJHarmon	JPartlow SNorris ELJordan RClark BGrimes WLong TBarnhart (12) OELD WJones LJHarmon EButcher

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DL:ORB#2	DL:ORB#2	DL:ORB#2	DL:ORB#2
SNor is:rc	WLong `	RClark	DVassallo
04/19/85	04/ ງັ/8Š	04/19/85	04/12/85

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

cc:

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ATTACHMENT TO LICENSE AMENDMENT NO. 116

FACILITY OPERATING LICENSE NO. DPR-33

DOCKET NO. 50-259

Revise Appendix A as follows:

1. Remove the following pages and replace with identically numbered pages.

57, 58, 59, 60, 61, 86, 88, 109

2. The marginal lines on these pages denote the area being changed.



etting Action (1) Remarks
A or 1. Refer to Table 3.7.A for list of (B and E) valves.
D
J
K
F and G 1. Part of Group 6 Logic.
C 1. Refer to Table 3.7.A for list of valves.
C C
F and G 1. Refer to Table 3.7.A for list of valves.
J 1. Refer to Table 3.7.A for list of valves.
2. Same as Group 2 initiating logic
H or F
H or G or A

TABLE 3.2.A PRIMARY CONTAINMENT AND REACTOR BUILDING ISOLATION INSTRUMENTATION



NOTES FOR TABLE 3.2.A

1. Whenever the respective functions are required to be operable, there shall be two operable or tripped trip systems for each function.

If the first column cannot be met for one of the trip systems, that trip system or logic for that function shall be tripped (or the appropriate action listed below shall be taken). If the column cannot be met for all trip systams, the appropriate action listed below shall be taken.

Initiate an orderly shutdown and have the reactors in Cold Shutdown Condition in 24/ hours.

- Initiate an orderly load reduction and have Main Steam Lines 8 isolated within eight hours.
- C. Isolate Reactor Water Cleanup System.
- D. Isolate Shutdown Cooling
- E. Initiate primary containment isolation wighin 24 hours.
- P. The handling of spent fuel will be prohibited and all operations over spent fuels and open reactor wells shall be prohibited.
- G. Isolate the reactor building and staft the standby gas treatment system.
- N. Inmediately perform a logic system functional test on the logic in the other trip systems and daily thereafter not to exceed 7 days.
- 1 DELETE
- .i. Withdraw TIP.
- X. Manually isolate the afferted lines. Refer to section 4.2.E for the

requirements of an inoperable system. L. If one SGTS train is inoperable take actions H or action A and F. If two SGTS trains are inoperable take actions A and F. 2. When it is determined that a channel is failed in the unsafe condition.

- the other channels that monitor the same variable shall be functionally rested immediately before the trip system or logic for that function is tripped. The trip system or the logic for that function may remain untripped for short periods of time to allow functional testing of the other trip system or logic for that function.
- 3. There are four SUBSOFS per steam line of which two must be operable.
- 4. Only required in Run Mode (interlocked with Mode Switch).
- 5. Not required in Run/Mode (bypassed by mode switch).

Amendment No. 116

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- Channel shared by RPS and Primary Containment & Reactor Vessel Isolation Control System. A channel failure may be a channel failure in each system.
- 7. A train is considered a trip system.
- 8. Two out of three SGTS trains required. A failure of more than one will require action A and F.
- 9. (Deleted)
- 10. Refer to Table 3.7.A and its notes for a listing of Isolation Valve Groups and their initiating signals.
- 11. A channel may be placed in an inoperable status for up to four hours for required surveillance without placing the trip system in the tripped condition provided at least one OPERABLE channel in the same trip system is monitoring that parameter.
- 12. A channel contains four sensors, all of which must be operable for the channel to be operable.

Power operations permitted for up to 30 days with 15 of the 16 temperature switches operable.

In the event that normal ventilation is unavailable in the main steam line tunnel, the high temperature channels may be bypassed for a period of not to exceed four hours. During periods when normal ventilation is not available, such as during the performance of secondary containment leak rate tests, the control room indicators of the affected space temperatures shall be monitored for indications of small steam leaks. In the event of rapid increases in temperature (indicative of steam line break), the operator shall promptly close the main steam line isolation valves.

13. The nominal serpoints for alarm and reactor trip (1.5 and 3.0 times background, respectively) are established based on the normal background at full power. The allowable setpoints for alarm and reactor trip are 1.2-1.8 and 2.4-3.6 times background, respectively.

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TABLE 4.2.A SURVEILLANCE REQUIREMENTS FOR PRIMARY CONTAINMENT AND REACTOR BUILDING IBOLATION INSTRUMENTATION

	Punction	Eunctional Test	Calibration Prequency	Instrument Check
	Instrument Channel - Reactor Building Ventilation Bigh Radiation - Refueling Jone	(1) (14) (22)	once/3 months	once/day (8)
	Instrument Channel - SGTS Train A Heaters	(*)	(9)	N/A
	Instrument Channel SGTS Train B Heaters	(9)	(9)	R/A
	Instrument Channel - SGTS Train C Heaters	(4)	(9)	N/A
	Reactor Building Isolation Timer (refueling floor)	(4)	once/operating cycle	NZĄ
86	Reactor Building Isolation Timer (reactor zone)	(4)	once operating cycle	N/A

Amendment No. 11

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Amendment No. 116

Group & Logic once/operating NZX H/A cycle (18) Group # (Initiating) Logic Checked Juring N/A N/A channel functional test. No further test required. Reactor Building Isolation once/6 months (18) (6) (refueling floors Logic N/A Reactor Building Isolation once/6 months (18) (6) N/X (reactor sone) Logic SGTS Train & Logic once/6 months (19) N/A

Functional Test

TABLE 4.2.A SURVEILLANCE REQUIREMENTS FOR PRIMARY CONTAINMENT AND REACTOR BUILDING ISOLATION INSTRUMENTATION

Calibration Frequency

N/A SGTS Train & Logic Qnce/6 months (19) N/A H/A SGTS Train C Logic once/i months (19) H/ A N/A 88 Instrument Channel -Reactor Cleanup System Floor Drain High Temperature (1) onceroperating cycle NZA. Instrument Channel -Reactor Cleanup System Space High Temperature (23) a. RTD once/operating cycle (once/operating cycle) K/A b. Temperature Switch (1)

Instrument Check

Punction

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MOTES FOR TABLED 4.2.A THROUGH 4.2.H

- 1. Functional tests shall be performed once per month.
- Functional tests shall be performed before each startup with a required frequency not to exceed once per week.
- 3. This instrumentation is excepted from the functional test definition. The functional test will consist of injecting a simulated electrical signal into the measurement channel.
- L. Testei during logic system functional tests.
- 5. Refer to Table 4.1.B.
- 6. The logic system functional tests shall include a calibration once per operating cycle of time delay relays and timers necessary for proper functioning of the trip systems.
- 7. The functional test will consist of verifying continunity across the inhibit with a volt-ohmmeter.
- 8. Instrument checks shall be performed in accordance with the definition of Instrument Check (see Section 1/0, Definitions). An instrument check is not applicable to a particular setpoint, such as Upscale, but is a qualitative check that the instrument is behaving and/or indicating in an acceptable manner for the particular plant condition. Instrument check is included in this table for convenience and to indicate that an Instrument Check will be performed on the instrument. Instrument checks are not required when these instruments are not required to be operable or are tripped.
- 9. Calibration frequency shall be once/year.
- 1C. DELETE
- 11. Portion of the logic/is functionally tested during outage only.
- 12. The detector will be inserted during each operating cycle and the proper amount of travel into the core verified.
- 13. Functional test/will consist of applying simulated inputs (see note 3). Local alarm lights representing upscale and downscale trips will be verified, but/no rod block will be produced at this time. The inoperative trip will be initiated to produce a rod block (SRM and IRM inoperative also bypassed with the mode switch in RUN). The functions that cannot be verified to produce a rod block directly will be verified during the operating cycle.

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ATTACHMENT TO LICENSE AMENDMENT NO. 111

FACILITY OPERATING LICENSE NO. DPR-52

DOCKET NO. 50-260

Revise Appendix A as follows:

1. Remove the following pages and replace with identically numbered pages.

57, 58, 59, 60, 61, 86, 88, 109

2. The marginal lines on these pages denote the area being changed.



TABLE 3.2.A PRIMARY CONTAINMENT AND REACTOR BUILDING ISOLATION INSTRUMENTATION

Minimum No.

Amendment

No.

. Instrument Channels Operable

P	er Trip S	ys(1)(11) Function	Trip Level Setting	Action (1)	Remarks
	2	Group 2 (Initiatin) Logic	N/A	A or (B and E)	1. Refer to Table 3.7.A for list of valves.
	1	Group 2 (RHR Isolation- Actuation) Logic	N/A	D	
	1	Group 8 (The Actuation) Logic	N/A	J	
	1	Group 2 (Drywell Sump Drains-Actuation) Logic	N/A	K	
	1	Group 2 (Reactor Euilding & Refueling Floor, and Dry- well Vent and Purge- Actuation) Logic	NA CONTRACTOR CONTRACTOR	F and G	1. Part of Group 6 Logic.
	2	Group 3 (Initiating) Logic	N/A N/A	С	1. Refer to Table 3.7.A for list of valves.
	è	Group 3 (Actuation) Logic	N/A	C	
32	1	Group 6 Logic	N/A	F and G	1. Refer to Table 3.7.A for list of valves.
	1	Group 8 (Initiating) Logic	N/A	3	1. Refer to Table 3.7.A for list of valves.
					2. Same as Group 2 initiating logic.
	1	Reactor Building Isolation (refueling floor) Logic	N/A	H or F	
	1	Reactor Building Isolation (reactor zone) Logic	N/A	H or G or A	



NOTES FOR TABLE 3.2.A

Whenever the respective functions are required to be operable, there 1. shall be two operable or tripped trip systems for each function.

If the first column cannot be met for one of the trip systems, that trip system or logic for that function shall be tripped (or the appropriate action listed below shall be taken). If the column cannot be met for all trip systems, the appropriate action listed below shall be taken.

- Initiate an orderly shutdown and have the reactors Α. in Cold Shutdown Condition in 24 hours.
- Initiate an orderly load reduction and have Main Steam Lines 8. isolated within eight hours.
- C. Isolate Reactor Water Cleanup System
- D. Isolate Shutdown Cooling
- E. Initiate primary containment isolation within 24 hours.
- F. The handling of spent fuel will be prohibited and all operations over spent fuels and open reactor wells shall be prohibited.
- G. Isolate the reactor building and start the standby gas treatment system.
- H. Immediately perform a logic system functional test on the logic in the other trip eveteneand daily thereafter not to exceed 7 days.

ι. DELETE

- .i . Withdraw TIP.
- K. Manually isolate the affected lines. Refer to section 4.2.E for the

requirements of an inoperable system. L. If one SGTS train is inoperable take actions H or action A and F. If two SGTS trains are inoperable take actions A and F. 2. When it is determined that a channel is failed in the unsafe condition.

the other channels that monitor the same variable shall be functionally cested immediately before the trip system or logic for that function is tripped. The trip system or the logic for that function may remain untripped for short periods of time to allow functional testing of the other trip system or logic for that function.

3. There are four sensors per steam line of which two must be operable.

4. Only required in Run Mode (interlocked with Mode Switch).

5. Not required in Run Mode (bypassed by mode switch).

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- Channel shared by RPS and Primary Containment & Reactor Vessel Isolation Control System. A channel failure may be a channel failure in each system.
- 7. A train is considered a trip system.
- 8. Two out of three SGTS trains required. A failure of more than one will require action A and F.
- 9. (Deleted)
- 10. Refer to Table 3.7.A and its notes for a listing of Isolation Valve Groups and their initiating signals.
- 11. A channel may be placed in an inoperable status for up to four hours for required surveillance without placing the trip system in the tripped condition provided at least one OPERABLE channel in the same trip system is monitoring that parameter.
- 12. A channel contains four sensors, all of which must be operable for the channel to be operable.

Power operations permitted for up to 30 days with 15 of the 16 temperature switches operable.

In the event that normal ventilation is unavailable in the main steam line tunnel, the high temperature channels may be bypassed for a period of not to exceed four hours. During periods when normal ventilation is not available, such as during the performance of secondary containment leak rate tests, the control room indicators of the affected space temperatures shall be monitored for indications of small steam leaks. In the event of rapid increases in temperature (indicative of steam line break), the operator shall promptly close the main steam line isolation values.

13. The nominal serpoints for alarm and reactor trip (1.5 and 3.0 times background, respectively) are established based on the normal background at full power. The allowable serpoints for alarm and reactor trip are 1.2-1.8 and 2.4-3.6 times background, respectively.



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b. Temperature Switch

{!)

(once/operating cycle)

KX1

NOTES FOR TABLES 4.2.A THROUGH 4.2.H

- 1. Functional tests shall be performed once per month.
- 2. Functional tests shall be performed before each startup with a required frequency not to exceed once per week.
- This instrumentation is excepted from the functional test definition. The functional test will consist of injecting a simulated electrical signal into the measurement channel.
- 4. Tested during logic system functional tests.
- 5. Refer to Table 4.1.B.
- 6. The logic system functional tests shall include a calibration once per operating cycle of time delay relays and timers necessary for proper functioning of the trip systems.
- 7. The functional test will consist of verifying continunity across the inhibit with a volt-ohmmeter.
- 8. Instrument checks shall be performed in accordance with the definition of Instrument Check (see Section 1.0, Definitions). An instrument check is not applicable to a particular setpoint, such as Upscale, but is a qualitative check that the instrument is behaving and/or indicating in an acceptable manner for the particular plant condition. Instrument check is included in this table for convenience and to indicate that an Instrument Check will be performed on the instrument. Instrument checks are not required when these instruments are not required to be operable or are tripped,
- 9. Calibration frequency shall be once/year.

10. DELETE

- 11. Portion of the logic is functionally tested during outage only.
- 12. The detector will be inserted during each operating cycle and the proper amount of travel into/the core verified.
- 13. Functional test vill consist of applying simulated inputs (see note 3). Local alarm lights representing upscale and downscale trips vill be verified, but no rod block will be produced at this time. The inoperative trip vill be initiated to produce a rod block (SRM and IRM inoperative also bypassed with the mode switch in RUN). The functions that cannot be verified to produce a rod block directly will be verified during the operating cycle.

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ATTACHMENT TO LICENSE AMENDMENT NO. 86

FACILITY OPERATING LICENSE NO. DPR-68

DOCKET NO. 50-296

Revise Appendix A as follows:

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 Remove the following pages and replace with identically numbered pages.

59, 60, 61, 62, 63, 89, 91, 106

2. The marginal lines on these pages denote the area being changed.



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Amendment No.

86

(m.)

per Tri	Sys(1)(11)	Function	Trip Level Setting	Action (1)		Remarks
2	Group	2 (Initiating) Logic	NZA	A or (B and E)	1.	Refer to Table 3.7.A for list of valves.
1	Group Actua	2 (RHR Isolation- tion) Logic	N/A	D		
1	Group Logic	8 (Tip-Actuation)	N/A	J		
1	Group Drain	2 (Drywell Sump s-Actuation) Logic	N/A	ĸ		
1	Group 8 Ref well Actua	2 (Reactor Building ueling Floor, and Dry- Vent and Purge- tion) Logic	NA	F and G	1.	Part of Group 6 Logic.
2	Group	3 (Initiating) Logic	N/A	с	1.	Refer to Table 3.7.A for list of valves.
ຸ 1	Group	3 (Actuation) Logic	N/A	С		
• <u> </u>	Group	6 Logic	N/A	F and G	1.	Refer to Table 3.7.A for list of valves.
1	Group	θ (Initiating) Logic	N/A	t	1.	Refer to Table 3.7.A for list of valves.
					2.	Same as Group 2 initiating logic.
1	React (refu	or Building Isolation eling floor} Logic	N/A	H or F		
1	React (reac	or Building Isolation tor zone) Logic	N/A	H or G or A		

TABLE 3.2.A PRIMARY CONTAINMENT AND REACTOR BUILDING ISOLATION INSTRUMENTATION

Amendment No.

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NOTES FOR TABLE 3.2.A

 Whenever the respective functions are required to be operable, there shall be two operable or tripped trip systems for each function.

If the first column cannot be met tor one of the trip systems, that trip system or logic for that function shall be tripped (or the appropriate action listed below shall be taken). If the column cannot be met for all trip systems, the appropriate action listed below shall be taken,

- A. Initiate an orderly shutdown and have the reactor in Cold Shutdown Condition in 24 hours.
- B. Initiate an orderly load reduction and have Main Steam Lines isolated within eight hours.
- C. Isolate Reactor Water Cleanup System
- D. Isolate Shutdown Cooling.
- E. Initiate primary containment isolation within 24 hours.
- F. The handling of spent fuel will be prohibited and all operations over spent fuels and open reactor wells shall be prohibited.
- G. Isolate the reactor building and start the standby gas treatment system.
- H. Immediately perform a logic system functional test on the logic in the other trip systems and daily thereafter not to exceed 7 days.
- I. DELETE
- J. Withdraw TIP.
- Manually isolate the affected lines. Refer to section
 4.2.E for the requirements of an inoperable system.
- L. If one SGTS train is inoperable take actions H or action A and F. If two SGTS trains are inoperable take actions A and F.
- 2. When it is determined that a channel is failed in the unsafe condition, the other channels that monitor the same variable shall be functionally tested immediately before the trip system or logic for that function is tripped. The trip for short periods of time to allow functional testing of the other trip system or logic for that function.

- 3. There are four channels per steam line of which two must be operable.
- 4. Only required in Run Mode (interlocked with Mode Switch).
- 5. Not required in Run Mode (bypassed by Mode Switch).
- 6. Channel shared by RPS and Primary Containment & Reactor Vessel Isolation Control System. A channel failure may be a channel failure in each system.
- 7. A train is considered a trip system.
- 8. Two out of three SGTS trains required. A failure of more than one will require actions A and F.
- 9. (Deleted)
- 10. Refer to Table 3.7.A and its notes for a listing of Isolation Valve Groups and their initiating signals.
- 11. A channel may be placed in an inoperable status for up to four hours for required surveillance/maintenance without placing the trip system in the tripped condition provided at least one OPERABLE channel in the same trip system is monitoring that parameter.
- 12. A channel contains four sensors, all of which must be operable for the channel to be operable.

Power operations permitted for up to 30 days with 15 of the 16 temperature switches operable.

In the event that normal ventilation is unavailable in the main steam line tunnel, the high temperature channels may be bypassed for a period of not to exceed four hours. During periods when normal ventilation is not available, such as during the performance of secondary containment leak rate tests, the control room indicators of the affected space temperatures shall be monitored for indications of small steam leaks. In the event of rapid increases in temperature (indicative of steam line break), the operator shall promptly close the main steam line isolation valves.

13. The nominal serpoints for alarm and reactor trip (1.5 and 3.0 times background, respectively) are established based on the normal background at full power. The allowable serpoints for alarm and reactor trip are 1.2-2.8 and 2.4-3.6 times background, respectively.

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Instrument Check TABLE 4.2.A SURVEILLANCE REQUIREMENTS FOR PRIMARY CONTAINMENT AND REACTON BUILDING IBOLATION INSTRUMENTATION once/day (8) Ž Ž 2 N Ş once/operating cycle pnce/operating cycle Calibration Prequency once/3 sonths Ē 6 Ē **Tunctional Test** (22) (11) (12) Ξ E £ Ξ E Instrument Channel -Reactor Building Ventilation High Badlation - Refueling Zone Reactor Building Isolation Timer (refueling floor) Reactor Building Teolation Timer (reactor zone) lastruscat Channel -8678 Train A Beaters Lastrument Channel -6678 Train C Beaters Instrument Channel -BGTS Train B Hoaters **PUDGLION** 89

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Amendment No/ 86

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Group 6 Logic once/operating H/X H/X cycle (18) Group (Initiating) Logic Checked during IVA. R/A 5 channel functional test. No further test required. Reactor Building Isolation once/6 months (18) (6) K/A (refueling floor) Logic Reactor Building Isolation once/6 months (18) (6) N/A (reactor zone) Logic SGTS Train & Logic once/6 months (19) K/X N/A SGTS Train & Logic (91) oace/6 months K/X K/A SGTS Train C Logic once/6 months [19] 8/A R/A 2 Instrument Channel -Reactor Cleanup System Floor Drain High Temperature (1) once/operating cycle W/A Instrument Channel -Reactor Cleanup System Space Righ Temperature (23) once/operating cycle a. RTD N/A fonce/operating cycle

Functional Test

(1)

b. Temperature Switch

Function

Instrument Check

TABLE 4.2.A

SURVEILLANCE REQUIREMENTS FOR PRIMARY CONTAINMENT AND REACTOR BUILDING ISOLATION INSTRUMENTATION

Calibration Frequency

NOTES FOR TABLES 4.2.A THROUGH 4.2.H

- 1. Functional tests shall be performed once per month.
- 2. Functional tests shall be performed before each startup with a required frequency not to exceed once per week.
- 3. This instrumentation is excepted from the functional test definition. The functional test will consist of injecting a simulated electrical signal into the measurement channel.
- 4. Tested during logic system functional tests/
- 5. Refer to Table 4.1.B.
- 6. The logic system functional tests shall include a calibration once per operating cycle of time delay relays and timers necessary for proper functioning of the trip systems.
- 7. The functional test will consist of verifying continuity across the inhibit with a volt-ohmmeter.
- 8. Instrument checks shall be performed in accordance with the definition of Instrument Check (see section 1.0, Definitions). An instrument check is not applicable to a particular setpoint, such as Upscale, but is a qualitative check that the instrument is behaving and/or indicating in an acceptable manner for the particular plant condition. Instrument check is included in this table for convenience and to indicate that an Instrument Check will be performed on the instrument. Instrument checks are not required when these instruments are not required to be operable or are tripped.
- 9. Calibration frequency shall be once/year.
- 10 DELETE
- 11. Portion of the logic is functionally tested during outage only.
- 12. The detector will be inserted during each operating cycle and the proper amount of travel into the core verified.
- 13. Functional test will consist of applying simulated inputs (see note 3). Local alarm lights representing upscale and downscale trips will be verified, but no rod block will be produced at this time. The inoperative trip will be initiated to produce a rod block (SRM and IRM inoperative also bypassed with the mode switch in RUN). The functions that cannot be verified to produce a rod block directly will be verified during the operating cycle.

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