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NOTE: PRESS HARD YOU ARE MAKING FIVE (5) COPIES

1177 (3)
ADMINISTRATIVE PROCEDURE 3 CHANGE TYPE:
ON-THE-SPOT CHANGE TO GREEN (ORANGE)
PROCEDURE TITLE RESponse Time Test of S.S. 25. Laic Ry Tip *Expires:
ALL ON-THE-SPOT CHANGES TO BE CONSIDERED FOR APPLICABILITY TO BOTH UNITS.
UNIT 1 PROCEDURE NO. 190-18. 4.002 REV. NO. 0 CHANGE NO. 1
UNIT 2 PROCEDURE NO. 2PD - 18.4.00 Z REV. NO. O CHANGE NO.
PROPOSED CHANGE: PAGE 18
Add Step 9.12
If the Shift Supervisor whote the Shfety reinstated ex Iumper terminals
Injection Block remotalish I Jumper termiNALS
2 And 6 ON TOI And have the control Operator
depress the S.I. Reset for Trains A & B.
Senior Shift Supervisor Shift Supervisor
REASON FOR CHANGE:
TO Add S.I. Block
ACTION TAKEN FOR OTHER UNIT:
AUTHORIZATION: MINIMATE DUTY SENIOR SHIP SUPERVISOR DATE OR SHIFT SUPERVISOR
**SIGNATURE ALSO VERIFIES THAT APPLICABILITY TO BOTH UNITS HAS BEEN CONSIDERED.
ACCEPTABLE: POST CHANGE-REVIEW/APPROVAL
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DEPARMENT HEAD WISTS
SZ 106 July 1 1/24/80
SORC (CHAIRMAN) DATE
MANAGER - SALEM GENERATING STATION DATE
RETURN COMPLETED OR REJECTED FORM TO DEPARTMENT REQUESTING CHANGE.
FOLLOW-UP TO REJECTED ON-THE-SPOT CHANGE
ACTION TAKEN:
DEDEGRAFE BY
PERFORMED BY: SIGNATURE DATE
RETURN TO DEPARTMENT HEAD FOR ROUTING THROUGH POST CHANGE-REVIEW/APPROVAL CYCLE.

SALEM NUCLEAR GENERATING STATION

PUBLIC SERVICE ELECTRIC & GAS COMPANY ELECTRIC GENERATION DEPARTMENT

PROCEDURE APPROVAL COVER SHEET

SAFETY RELATED

PROCEDURE:

1PD-18.4.002 - RESPONSE TIME TEST OF SOLID STATE

REMARKS:

PROTECTION SYSTEM LOGIC - Rx TRIP, TRAIN A

REV	SUBMITTED	EED APPROVED	QA REVIEWED	PERF. ENGR. APPROVED	SORC REVIEWED	STA. SUPT. APPROVED
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NUMBER —	<u> </u>	PD-18	<u>.4.0</u>	02	
REV. NO.	0				
DATE	_5	/3/82			
PAG	3E	1	OF	28	

TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

1.0 Purpose:

- 1.1 To obtain the response time from the Hagan bistable switches and other inputs through the SSPS Logic to the reactor trip breaker UV coil.
- 1.2 To obtain the response time from the UV coil to the opening of the reactor trip breakers.
- 1.3 To be used in conjunction with other procedures for the total response time of the Reactor Trip signal from sensor to the opening of the reactor trip breakers.

2.0 References:

- 2.1 Performance Department Manual.
- 2.2 Reactor Protection System Logic Diagrams 221050 thru 221065.
- 2.3 Westinghouse Instruction Manual Solid State Protection.
- 2.4 Hagan Interconnection Diagrams 220000 thru 220092.

NUMBER -	1PD-	18.4.0	02
REV. NO.	0	· .	
DATE	5/3/	82	
PAG	GE 2	OF	28

TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

3.0 Precautions:

- 3.1 Special care should be taken in the removal and handling of wire, connections, and test equipment on energized equipment.
- 3.2 Care should be taken in the use of the visicorder, such that a minimum quantity of the light sensitive paper is wasted.
- 4.0 Limitations and Actions:
 - 4.1 None stated.

NUMBER -	1PD-18	3.4.0	02	_
REV. NO.	0			
DATE	5/3/82	2		
PAC	SE 3	OF	28	

TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

5.0 Test Equipment:

Device	PD No.	Recal. Date
Visicorder Model 1912		
Test Leads & Jumpers	N/A	N/A
Test Resistor for		4
Hagan Input Signals	N/A	N/A
Toggle Switches (4)	N/A	N/A
Latern Type 6VDC	•	· .
Battery (2) or Equiv.	N/A	N/A

NUMBER -	1PD-	18.4.0	02
REV. NO.	0		
DATE	5/3/	82	
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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTECTION	SYSTEM	LOGIC	_
÷.	Rx Trip,	Train	A					,		

- 6.0 Prerequisites:
 - 6.1 The Reactor will be shut down and the plant will be in the refueling mode of operation (Modes 5 or Mode 6).

Senior Shift Supervisor/Shift Supervisor

Date/Time

6.2 The Senior Shift Supervisor/Shift Supervisor has granted permission to perform this procedure.

Senior Shift Supervisor/Shift Supervisor

Date/Time

6.3 The individual assigned to perform this procedure is qualified to do so in accordance with the Solid State Protection System Qualification Card.

Job Supervisor

NUMBER -	1PD-18	3.4.0	02
REV. NO.	_ 0		
DATE	5/3/82	2	_
ΡΔΟ	3F 5	OF	20

TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

- 6.0 Prerequisites: (Continued)
 - 6.4 The Control Operator responsible for the portion of the plant to be tested is aware of all the alarms and indications which will be affected by the performance of this procedure. Specifically, Coolant Temperatures must be determined from Loop Wide Range Indication, Coolant Pressure read from the Loop Hot Leg Indication, Pressurizer Level from the Cold Calibration Channel Indication, and Steam Generator Level from the Wide Range Indication.

Control Operator

6.5 Have the Control Operator place the pressurizer level controller in Manual.

Control Operator

6.6 Instrumentation shall have been energized and operating for at least one half hour to attain equilibrium conditions.

Job Supervisor

NUMBER —	1	PD-	18.	4.0	02	
REV. NO.	0					
DATE	5	/3/	82			
PAC	3E	6		OF	28	

TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

- 7.0 System Line-up:
 - 7.1 None stated.

(115 VAC).

NUMBER -	1	PD-	-18.	4.0	02	
REV. NO.	0					
DATE	5	/3/	/82			
PAC	E-	7		OF	28	

TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

Inst	ructions:	Initi
8.1	Lift the following leads at the NIS:	
	8.1.1 Rack 78 - TB123-1	
	8.1.2 Rack 79 - TB223-1	<u> </u>
	(S.R. H.V. Block CKT)	
8.2	Install a jumper across TB507-4 and TB507-5 in	
•	both Train A and Train B.	
	CANTION I TErmiNAIS MAYbe energized (150AC)	A
8.2.	1 Lift wires; A Train - BB 629 TermiNAL &	
	B Train - K E29 TermiNAL 9	В
8.3	(Source Range High Flux At Shut Down And Marm) Place the Input Error Inhibit switch for Train B	
	in the "Inhibit" position.	
		,
8.4	Place the Train A Mode Selector switch in the	
	"Test" position.	
8.5	Class all Bongton Mrin Signals by installing tost	
0.5	Clear all Reactor Trip Signals by installing test jumpers or resistors as specified in Table I.	
	lambers of regrecore as shectfred in rapie r.	
8.6	Connect Visicorder Channel 1 to the output terminals	
	of the Bistable Switch under test as shown in Table 2	

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NUMBER -	1PD-18.4.002
REV. NO.	0
DATE	5/3/82
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		•	
FITLE	RESPO	ONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC -	,
		rip, Train A	
8.0	Inst	ructions: (Continued)	Initia
	Ω 7	Connect Visicorder Channel 2 to UV coil terminals	
	0.7	TB508-1 and TB508-2 (+43 VDC) in SSPS Train A Output Cabinet.	
	8.8	Place the coincident bistable switch or switches as listed in Table 2 to the TRIP position.	·.
	8.9	Adjust the visicorder to obtain a good quality step function trace.	
	8.10	Verify the UV coil voltage at approximately 43 VDC on the LOGIC TEST PANEL meter (UV COIL VOLTAGE) in the SSPS OUTPUT LOGIC BAY.	
·	8.11	Start the visicorder and immediately place the bistable switch under test to the TRIP position.	
	8.12	Stop the visicorder after the UV coils are de-energized Record on Table 2 the elapsed time from the trip signal to the time the UV coil voltage decays to 30% of its initial value. Label all visicorder traces, and store visicorder paper for future reference.	
	8.13	Repeat Steps 8.5 through 8.12 for the bistables as indicated in Table 2, Step 1 through 4.	

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SALEM GENERATING STATION

PERFORMANCE DEPARTMENT (I & C)

TEST PROCEDURE

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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTECTION	SYSTEM	LOGIC -
	Rx Trip,	Train	n A			·			

8.0 Instructions: (Continued)

Initial

- 8.14 For Steps 5 through 48 in Table 2, the P7 permissive must be present. Actuate P7 by placing the Operation Selector switch to the Detector A and B position on power range drawers N41 and N42 and increase (clockwise) the Detector A and Detector B Test Signal until the POWER RANGE P10 PERMISSIVE light energizes.
 (Note: Depress BLOCK POWER RANGE "A" and BLOCK POWER RANGE "B" at the control bezel when power range test signals are above the P7 permissive and reset the rate trip as necessary.)
 - 8.14.1 For Steps 25 through 36, connect channel 3 of the visicorder to coil contacts 5 and 6 on K633.
 - 8.14.2 For Steps 25A through 36A, connect channel 3 of the visicorder to coil contacts 5 and 6 on K634.

NOTE: The UV Coil will remain de-energized for this step.

8.15 Repeat Step 8.6 through 8.12 for the bistable as indicated in Table 2, Step 5 through 36.

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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTECTION	SYSTEM	LOGIC	_
	Rx Trip,	Train	ı A					· .	·	

8.0 Instructions: (Continued)

Initial

- 8.16 For Steps 37 through 48 in Table 2, the P8 permissive must be present. Actuate P8 by placing the Operation Selector switch to the Detector A and B position on power range drawers N41 and N42. Increase (clockwise) the Detector A and Detector B Test Signal until the POWER RANGE P8 PERMISSIVE light energizes. (Note: Depress BLOCK POWER RANGE "A" and BLOCK POWER RANGE "B" at the control bezel when the power range test signals are above the P7 permissive and reset the rate trip as necessary.)
- 8.17 Repeat Step 8.6 through 8.12 for the bistable as indicated in Table 2, Steps 37 through 48.
- 8.18 For Steps 37 through 63 in Table 3, the P7 permissive must be present. Actuate P7 by placing the Operation Selector switch to the Detector A and B position on power range drawers N41 and N42. Increase (clockwise) the Detector A and Detector B Test Signal until the POWER RANGE P10 PERMISSIVE light energizes. (Note: Depress BLOCK POWER RANGE "A" and BLOCK POWER RANGE "B" at the control bezel when the power range test signals are above the P7 permissive and reset the rate trip as necessary.)

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TITLE	RESPO	ONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC -	
`	Rx T	rip, Train A	
8.0	Inst	ructions: (Continued)	Initial
•			
	8.19	CAUTION: Terminals may be energized (115VAC). Connect	
		channel 3 of visicorder to coil contacts 5 and 6 on	
		K632. Short terminal 1 to 5 on A.R. timer.	
		•	
	8.20	Disconnect the field wires connected to the terminals	
		listed in Table 3, Steps 37 through 40.	,
	8.21	Connect a toggle switch across terminals. (Toggle	
		switch in OFF position will produce a trip.)	
•			
	8.22	Connect visicorder channel 1 across the terminals.	
	8.23	Repeat Steps 8.7 through 8.12 for Table 3, Steps	
		37 through 40. (For a coincident channel trip,	
		place the toggle switch to OFF.)	
	8.24	Remove the toggle switches from terminals of Table 3,	
٠		Steps 37 through 40 and reconnect the field wires.	
•	8.25	Disconnect the field wires connected to the terminals	
		listed in Table 3, Steps 41 through 44.	
	0 00		
	8.20	Connect a toggle switch across each terminal. (Toggle	

switch in OFF position will produce a trip.)

8.27 Connect visicorder Channel 1 across the terminals.

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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTECTION	SYSTEM	LOGIC	_
•	Rx Trip,	Trair	ı A							

8.0) Ins	tructio	ns: (Continued)
-----	-------	---------	-------	------------

Initial

- 8.28 Repeat Steps 8.7 through 8.12 for Table 3, Steps 41 through 44. (For a coincident channel trip, place the toggle switch to OFF.)
- 8.29 Remove the toggle switches from the terminals of Table 3, Steps 41 through 44 and reconnect the field wires.
- NOTE: For Steps 45 through 56 in Table 3, the channel under the coincident channel bistables are actuated by placing the operations selector switch to the Detector A and B position on the power range drawers in the NIS cabinets, and increasing (clockwise) the Detector A and Detector B Test Signal potentiometers until the required trip light energizes on the drawer.
- 8.30 Connect visicorder Channel 1 to the terminals listed in Table 3 for the channel under test. Repeat Steps8.7 through 8.12 for Table 3, Steps 45 through 55.
- 8.31 Connect visicorder Channel 1 to the terminals listed in Table 3 Step 56.

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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTECTION	SYSTEM	LOGIC	
	Rx Trip,	Train	ı A				•			

8.0 Instructions: (Continued)

Initial

8.32 The Senior Shift Supervisor/Shift Supervisor has verified the following breakers are cleared and tagged: No. 11 Control Rod Power Supply M-G breaker on No. 1E 460VAC bus and No. 12 Control Rod Power Supply M-G Breaker on No. 1G 460 VAC bus.

Senior Shift Supervisor/Shift Supervisor

Date/Time

- 8.33 Connect Channel 3 of the visicorder to the Spare "B" contact of the auxiliary switch of Reactor Trip Breaker A.
- 8.34 Connect the spare conductors of cable RP363-AT (located in the bypass breaker terminal cabinet) to TB3 terminals 11 & 12 in the Trip Breaker terminal cabinet.
- 8.35 Connect the spare conductors of cable RP363-AT (located in the SSPS Train A Logic Cabinet) to the visicorder. (Note: In series with one conductor, connect a 6VDC latern-type battery.)

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TITLE	RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC -	_
	Rx Trip, Train A	_
•		•
8.0	Instructions: (Continued)	<u>Initial</u>
	8.36 Close Reactor Trip Breaker A from the control console	
	and repeat Steps 8.7 through 8.12 for Table 3, Step 56	•
	To close the trip breaker, place the Mode Selctor Swit	ch
	in Operate.	
	Response Time of Reactor Trip	
	Breaker A	
	8.37 Remove the connections made in Step 8.33. Place the	
	Mode Selector Switch in Test.	
	8.38 CAUTION: Terminals may be energized (115VAC)	
	Disconnect the field wires connected to the terminals	
,	listed in Table 3, Steps 57 through 59.	
	8.39 Connect a toggle switch across each terminal.	
	(Toggle switch in OFF position will produce a trip.)	
·	8.40 Connect visicorder Channel 1 across the terminals.	
		•
	8.41 Repeat Steps 6.7 through 6.12 for Table 3, Steps	
	57 through 59. (For a coincident channel trip,	
	place the toggle switch to OFF.)	
	F-100 0 005510 0100 00 01.1,	
	8.42 Remove the toggle switches from terminals of Table 3,	
	Steps 57 through 59 and reconnect the field wires.	

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TITLE	RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC -	
	Rx Trip, Train A	
8.0	Instructions: (Continued)	Initial
	8.43 Disconnect the field wires connected to the terminals listed in Table 3, Steps 60 through 63.	
	8.44 Connect a toggle switch across each terminal. (Toggle switch in OFF position will produce a trip.)	
	8.45 Connect visicorder Channel 1 across the terminals.	
	8.46 Repeat Steps 6.7 through 6.12 for Table 3, Steps 60 through 63. (For a coincident channel trip, place the toggle switches to OFF.)	
	8.47 Remove the toggle switches from terminals of Table 3, Steps 60 through 63 and reconnect the field wires.	

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TITLE	RESF	PONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC -	_
· · · ·		rip, Train A	-
9.0	Retu	rn To Normal:	Initial
	9.1	Remove visicorder Channels 1 through 3 from the SSPS Equipment Cabinets.	·
	9.2	Remove test resistors, jumpers, and reland leads in the Hagan and SSPS cabinets as indicated in Table I.	
	9.3	Remove test equipment and jumpers from reactor trip breaker terminal cabinet.	
	9.4	Return NIS power range drawers to normal and clear any associated alarms.	·.
	9.5	Place the Input Error Inhibit switch for Train A in "Inhibit".	
	9.6	Place the Mode Selector switch for Train A in the	

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TITLE	RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A	
9.0	Return To Normal: (Continued)	Initial
	9.7 Initiate the Safety Injection Blocks for both TRAIN A and TRAIN B from the Control Bezel.	
	Steam Line S.I. Block	A
·		B
	Pressurizer S.I. Block	A
·		В
	9.8 Place the Input Error Inhibit switch for both TRAIN A and TRAIN B in the "NORMAL" position.	
	CAUTIONITERMINALS MAYbe energized (HSUM)	Α .
)	9.8.1 Recensed wires! A Train - BBC29 Terminal to Btrain - K629 Terminal #9	В
•	9.9 Remove the jumper from TB507-4 and TB507-5 in both TRAIN A and TRAIN B.	
	9.10 Verify that the Green and the Amber General Warning Test LED's in both TRAINS are LIT.	

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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTECTION	SYSTEM	LOGIC	_
	Rx Trip,	Train	n A							

9.0 Return To Normal: (Continued)

Initial

- 9.11 Reconnect the Leads lifted at the following locations:
 - 9.11.1 NIS Rack 78 TB 123-1
 - 9.11.2 NIS Rack 79 TB 223-1

9.12 If the Shift Supervisor wants the remodated Ex Safety Injection Block remodated I Jumper terminals 2 and 6 on TDI And have the Control Operator depress the S.I. Reset for Trains A+B.

Sewier Shift Supervisor Shift Supervisor

Co. X Se

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TITLE	RESPONSE	TIME	TEST	OF	SOLID	STATE	PROTEC	TION	SYSTEM	LOGIC	=
	Rx Trip,	Train	<u>A</u>							·	
10.0	Remarks:		W.O.	·	· .		_ 1.0.			_	
							· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		_
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11.0	Completio	m•						•	•		
	00	•									
	11.1 Comp	jeted	Bv:						•		
	TT. T COMP	,100ca	27		chnici	ian		Date	 · -	Time	
							•				
	11.2 Appr	oved	By:					,		•	
-			<u> </u>	Su	pervis	sor	- - :	Date		Time	

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC Rx Trip, Train A

TABLE I

A. Test Resistors installed in the following Test Jacks and the CT switch placed in TEST:

I. REACTOR COOLANT TEMPERATURE

TJ-411-1 Rack 2 TJ-421-1 Rack 6 TJ-431-1 Rack 13 TJ-441-1 Rack 15 TJ-412-1 Rack 2 TJ-422-1 Rack 6 TJ-432-1 Rack 13 TJ-442-1 Rack 15

NOTE: To clear LOW TAVG signals, open states block connections
1, 2, 3, 4, 6, 7, 8 and 9 in the above racks.

II. REACTOR COOLANT FLOW

TJ-414	Rack	3	TJ-424	Rack	3	TJ-434	Rack	3	TJ-444	Rack	3
TJ-415	Rack	7	TJ-425	Rack	7	TJ-435	Rack	7	TJ-445	Rack	7
TJ-416	Rack	12	TJ-426	Rack	12	TJ-436	Rack	12	TJ-446	Rack	12

III. PRESSURIZER PRESSURE

TJ-455 Rack 1 TJ-456 Rack 10 TJ-457 Rack 12 TJ-474 Rack 14

IV. STEAM GENERATOR LEVEL

TJ-517 Rack	3,1	TJ-527	Rack	31	TJ-537	Rack	31	TJ-547	Rack	31
TJ-518 Rack	11	TJ-528	Rack	11	TJ-538	Rack	11	TJ-548	Rack	11
TJ-519 Rack	8	TJ-529	Rack	4	ŤJ−539	Rack	4	TJ-549	Rack	8

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

TABLE I (Continued)

- B. Install the following Jumpers in SSPS INPUT RELAY BAY:
 - I. TURBINE AUTO STOP OIL

TB-109-1 to TB-109-2

TB-209-1 to TB-209-2

TB-308-1 to TB-308-2

II. TURBINE STEAM STOP VALVES

TB-109-3 to TB-109-4

TB-209-3 to TB-209-4

TB-308-3 to TB-308-4

TB-407-3 to TB-407-4

III. REACTOR COOLANT PUMP BREAKERS

TB-109-9 to TB-109-10

TB-209-9 to TB-209-10

TB-308-9 to TB-308-10

TB-407-9 to TB-407-10

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

							
STEP	BISTABLE	RACK	TERMINALS	COINCIDENT	RACK	TIME	RESPONSE
	UNDER TEST		HAGAN RACK	CHANNEL		UV COIL	
OVERT	EMPERATURE DE	LTA T					
1	BS-411C	2	TB 1-11&12	BS-441C	15		
2	BS-421C	6	TB 2-5&6	BS-441C	15		
3	BS-431C	13	TB 3-3&4	BS-441C	15		
4	BS-441C	15	TB 3-3&4	BS-431C	13		
ESS	URIZER PRESSUI	RE/LOW	(ABOVE P7)				
5	BS-455C	1	TB 1-7&8	BS-474A	14		
6	BS-456C	10	TB 2-9&10	BS-474A	14		
7	BS-457C	12	TB 4-1&2	BS-474A	14		
8	BS-474A	14	TB 3-1&2	BS-457C	12 .		
PRESS	URIZER PRESSU	RE HIGH					
9	BS-455A	1	TB 1-1&2	BS-474C	14		
10	BS-456A	10	TB 2-3&4	BS-474C	14		
11	BS-457A	12	TB 3-7&8	BS-474C	14		
12	BS-474C	14	TB 2-11&12	BS-457A	12		
LOSS	OF FLOW TWO LO	DOP (AB	OVE P-7 AND I	BELOW P-8)		•	
13	BS-414	- 3	TB 2-7&8	BS-416	12		
	·			BS-424	3		
				BS-425	7	•	
14	BS-415	7	TB 2-7&8	BS-416	12		
				BS-424	3		
				BS-425	7		
15	BS-416	12	TB 2-3&4	BS-414	3		
				BS-424	3		
				BS-425	7		

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

STEP	BISTABLE	RACK	TERMINALS	COINCIDENT	RACK	TIME	RESPONSE
	UNDER TEST		HAGAN RACK	CHANNEL		UV COIL	·
16	BS-424	3	TB 2-11&12	BS-426	12		
				BS-414	3		
				BS-415	7	•	
17	BS-425	7	TB 2-11&12	BS-426	12		
				BS-414	3		
			•	BS-415	7		
18	BS-426	12	TB 2-7&8	BS-424	3		
				BS-414	3		
	·			BS-415	. 7'		
19	BS-434	3	TB 3-3&4	BS-436	12		•
				BS-414	3		
				BS-415	7		
20	BS-435	7	TB 3-3&4	BS-436	12		
				BS-414	3		
				BS-415	7		·
21	BS-436	12	TB 2-11&12	BS-434	3		
				BS-414	3		·
				BS-415	7		
22	BS-445	7	TB 3-7&8	BS-446	12		
		·		BS-414	3		
				BS-415	7		
23	BS-444	3	TB 3-7&8	BS-446	12		
				BS-414	3		
				BS-415	7		
24	BS-446	12	TB 3-3&4	BS-444	3		
				. BS-414	3		

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

							
STEP	BISTABLE	RACK	TERMINALS	COINCIDENT	RACK	TIME RE	SPONSE
	UNDER TEST		HAGAN RACK	CHANNEL		nn coir	· K633.
				BS-415	7		
STEAM	GENERATOR WA	TER LEV	EL LOW-LOW				
25	BS-517B	31	TB 1-9&10	BS-519B	8		
26	BS-518B	11	TB 1-3&4	BS-519B	8		
27	BS-519B	8	TB 2-5&6	BS-517B	31		
8	BS-527B	31	TB 2-3&4	BS-529B	4		
29	BS-528B	11	TB 1-11&12	BS-529B	4		
30	BS-529B	4	TB 1-3&4	BS-527B	31		
31	BS-537B	31	TB 2-9&10	BS-539B	4		
32	BS-538B	11	TB 2-7&8	BS-539B	4		
33	BS-539B	4	TB 1-7&8	BS-537B	31		
34	BS-547B	31	TB 3-3&4	BS-549B	8		
35	BS-548B	11_	TB 3-3&4	BS-549B	8		
36	BS-549B	8	TB 2-9&10	BS-547B	31		

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

STEP	BISTABLE	RACK	TERMINALS	COINCIDENT	RACK	TIME RESPONSE	
	UNDER TEST	<u> </u>	HAGAN RACK	CHANNEL		UV COIL	K634
25A	BS-517B	31	TB 1-9&10	BS-519B	8		
	1			BS-549B	8		
				BS-548B	11		
26A	BS-518B	11	TB 1-3&4	BS-519B	8		
	<u> </u>	<u> </u>		BS-549B	8		
	<u> </u>	<u> </u>		BS-548B	11		
A	BS-519B	8	TB 2-5&6	BS-517B	31	·	·
				BS-549B	8.		
				BS-548B	11		
28A	BS-527B	31	TB 2-3&4	BS-529B	4		
				BS-549B	8		
			·	BS-548B	11		
29A	BS-528B	11	TB 1-11&12	BS-529B	4		
		<u> </u>		BS-549B	8		
				BS-548B	11	· · · · · · · · · · · · · · · · · · ·	
30A	BS-529B	4	TB 1-3&4	BS-527B	31		
		<u> </u>		BS-549B	8		
		<u> </u>		BS-548B	11		
31A	BS-537B	31	TB 2-9&10	BS-539B	4		
	<u> </u>			BS-549B	8		
 		1		BS-548B	11		
32A	BS-538B	11	TB 2-7&8	BS-539B	4		
				BS-549B	8		
				BS-548B	11		
33A	BS-539B	4	TB 1-7&8	BS-537B	31		
		<u> </u>		BS-549B	8		
L				BS-548B	11		

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

			<u> </u>			
STEP BISTABLE		TERMINALS	COINCIDENT	RACK	TIME RE	SPONSE
UNDER TEST		HAGAN RACK	CHANNEL		UV COIL	K634
GENERATOR WA	TER LEV	EL LOW-LOW A	ND START MOT	OR DRIV	EN AUX F.W.	PUMP
BS-547B	31	TB 3-3&4	BS-549B	8	·	
			BS-529B	4		1-
			BS-528B	11		
BS-548B	11	TB 3-3&4	BS-549B	8		
			BS-529B	4		
			BS-528B	11		
BS-549B	8	TB 2-9&10	BS-547B	31		
			BS-529B	4		
			BS-528B	11		
SS OF FLOW SI	NGLE LO	OP (ABOVE P8)			
BS-414	3	TB 2-7&8	BS-416	12		
BS-415	7	TB 2-7&8	BS-416	12		
BS-416	12	TB 2-3&4	BS-414	3		
BS-424	3	TB 2-11&12	BS-426	12		
BS-425	7	TB 2-11&12	BS-426	12	-	-
BS-426	12	TB 2-7&8	BS-424	3 ·		
BS-434	3	TB 3-3&4	BS-436	12		
BS-435	7	TB 3-3&4	BS-436	12		
BS-436	12	TB 2-11&12	BS-434	3		
BS-444	3	TB 3-7&8	BS-446	12		
BS-445	7	TB 3-7&8	BS-446	12		
BS-446	12	TB 3-3&4	BS-444	3		
	BS-548B BS-548B BS-549B SS OF FLOW SI BS-414 BS-415 BS-416 BS-424 BS-425 BS-426 BS-434 BS-435 BS-436 BS-444 BS-445	UNDER TEST GENERATOR WATER LEV BS-547B 31 BS-548B 11 BS-549B 8 SS OF FLOW SINGLE LO BS-414 3 BS-415 7 BS-416 12 BS-424 3 BS-425 7 BS-426 12 BS-434 3 BS-435 7 BS-436 12 BS-444 3 BS-445 7	BISTABLE UNDER TEST HAGAN RACK GENERATOR WATER LEVEL LOW-LOW AND BS-547B 31 TB 3-3&4 BS-548B 11 TB 3-3&4 BS-549B 8 TB 2-9&10 SS OF FLOW SINGLE LOOP (ABOVE P8 BS-414 3 TB 2-7&8 BS-416 12 TB 2-3&4 BS-424 3 TB 2-11&12 BS-425 7 TB 2-11&12 BS-425 7 TB 2-11&12 BS-426 12 TB 2-7&8 BS-434 3 TB 3-3&4 BS-435 7 TB 3-3&4 BS-436 12 TB 2-11&12 BS-444 3 TB 3-3&4 BS-436 12 TB 2-11&12 BS-444 3 TB 3-7&8 BS-445 7 TB 3-7&8	UNDER TEST	BISTABLE UNDER TEST RACK HAGAN RACK TERMINALS COINCIDENT CHANNEL RACK CHANNEL GENERATOR WATER LEVEL LOW-LOW AND START MOTOR DRIVERS 31 TB 3-3&4 BS-549B 8 BS-547B 31 TB 3-3&4 BS-549B 8 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 11 BS-549B 8 TB 2-9&10 BS-547B 31 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 4 BS-529B 11 BS-529B 4 BS-529B 11 BS-529B 4 BS-529B 12 BS-416 12 BS-424B 12 BS-416 12 BS-426B 12 BS-416 12 BS-446B 12 BS-426	BISTABLE RACK TERMINALS COINCIDENT RACK TIME RE UNDER TEST HAGAN RACK CHANNEL UV COIL

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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

	·	······································	TABLE III			
STEP	CHANNEL	SSPS INPUT	SSPS INPUT	COINCIDENT	TIME RES	PONSE
·	UNDER TEST	TERMINALS	TERMINALS	CHANNEL	UV COIL	K632
RCP U	NDERVOLTAGE	(ABOVE P7)				
37	Bus H	TB 109-5	TB 109-6	Channel 3 (F)		
38	Bus É	TB 209-5	TB 209-6	Channel 3 (F)		
39	Bus F	TB 308-5	TB 308-6	Channel 1 (H)		
40	·Bus G	TB 407-5	TB 407-6	Channel 1 (H)		
P U	NDER FREQUEN	CY (ABOVE P7)				
41	Bus H	TB 108-9	TB 108-10	Channel 3 (F)		
42	Bus E	TB 208-9	TB 208-10	Channel 3 (F)		
43	Bus F	TB 307-9	TB 307-10	Channel 1 (H)		
44	Bus G	TB 409-1	TB 409-2	Channel 1 (H)		
POWER	RANGE LOW F	LUX LEVEL TRI	P .	·		
45	N41	TB 102-7	TB 102-8	N42		
46	N42	TB 202-7	TB 202-8	N41		
47	N43	TB 301-7	TB 301-8	N41		
48	N 4 4	TB 401-7	TB 401-8	N41		
POWER	RANGE HIGH	FLUX LEVEL TR	IP			
49	N41	TB 102-9	TB 102-10	N42		
50	N42	TB 202-9	TB 202-10	N41		
51	N43	TB 301-9	TB 301-10	N41		
52	N 4 4	TB 401-9	TB 401-10	N41		
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TITLE RESPONSE TIME TEST OF SOLID STATE PROTECTION SYSTEM LOGIC - Rx Trip, Train A

STEP	CHANNEL	SSPS INPUT	SSPS INPUT	COINCIDENT	TIME RESPONSE
	UNDER TEST	TERMINALS	TERMINALS	CHANNEL	UV COIL
POWER		IVE RATE TRIP			3, 332
53	N41 .	TB 106-7	TB 106-8	N42	
54	N42	TB 207-1	TB 207-2	N41 ·	
55	N43	TB 304-11	TB 304-12	N41	
_56	N44	TB 405-9	TB 405-10	N41 a	
RBI	NE AUTO STOP	OIL PRESSURE	SWITCHES		
57	1.	TB 109-1	TB 109-2	2	
58	2	TB 209-1	TB 209-2	3	
59	3	TB 308-1	TB 308-2	1	
TURBI	NE STEAM STO	P VALVES			
60	1	TB 109-3	TB 109-4	2, 3, 4	
61	2	TB 209-3	TB 209-4	1, 3, 4	
62	3	TB 308-3	TB 308-4	1, 2, 4	
63	4	TB 407-3	TB 407-4	1, 2, 3	