

TABLE I ANNUNCIATION IN THE CONTROL ROOM

ALARM FUNCTION	PROVIDED BY AUX DEVICE
DISCHARGE VOLUME HIGH WATER LEVEL TRIP A, B, C OR D	
DISCHARGE VOLUME HIGH RADIATION TRIP A, B, C OR D	
MAIN STEAM LINE ISOLATION VALVE CLOSURE TRIP A, B, C OR D	
MAIN STEAM LINE ISOLATION VALVE CLOSURE TRIP BYPASSED A, B, C OR D	
REACTOR VESSEL HIGH WATER LEVEL TRIP A, B, C OR D	
REACTOR VESSEL HIGH PRESSURE A, B, C OR D	
REACTOR VESSEL LOW WATER LEVEL TRIP A, B, C OR D	
REACTOR VESSEL HIGH WATER LEVEL A, B, C OR D	
DRYWELL PRESSURE HIGH / LOW ALARM	
DRYWELL PRESSURE TRIP A, B, C OR D	
NEUTRON MONITORING SYSTEM TRIP A, B, C OR D	
TURBINE STOP VALVE CLOSURE TRIP A, B, C OR D	
TURBINE CONTROL VALVE FAST CLOSURE TRIP A, B, C OR D	
TURBINE STOP AND CONTROL VALVE TRIPS BYPASSED A, B, C OR D	
REACTOR SYSTEM MODE SWITCH SHUTDOWN TRIP BYPASSED	
TRIP ACTUATORS A OR C TRIPPED	
TRIP ACTUATORS B OR D TRIPPED	
MANUAL TRIP A, B, C OR D INITIATED	
MANUAL SCRAM HERMISSEIVE A, B, C OR D	
RECIRC PUMP TRIP SYSTEM A TRIPPED	
RECIRC PUMP TRIP SYSTEM B TRIPPED	
RECIRC PUMP TRIP SYSTEM A MANUAL BYPASSED	
RECIRC PUMP T-P SYSTEM B MANUAL BYPASSED	
RPS SYSTEM A OUT OF SERVICE	
RPS SYSTEM B OUT OF SERVICE	

TABLE II ALARM INPUTS TO COMPUTER

ALARM FUNCTION	CHANNEL(S)	COMPUTER INPUT NUMBER
DISCHARGE VOLUME HIGH WATER LEVEL TRIP	A	C11-NC033
	B	C11-NC034
	C	C11-NC035
	D	C11-NC036
MAIN STEAMLINE ISOLATION VALVE CLOSURE TRIP	A	B2-NC047
	B	B2-NC048
	C	B2-NC049
	D	B2-NC050
DRYWELL HIGH PRESSURE TRIP	A	C71-NC001
	B	C71-NC002
	C	C71-NC003
	D	C71-NC004
REACTOR HIGH PRESSURE TRIP	A	B2-NC001
	B	B2-NC002
	C	B2-NC003
	D	B2-NC004
REACTOR WATER LEVEL 3 TRIP	A	B2-NC005
	B	B2-NC006
	C	B2-NC007
	D	B2-NC008
MANUAL SCRAM TRIP	A	C71-NC009
REACTOR SCRAM TRIP	B	C71-NC010
REACTOR SCRAM TRIP	C	C71-NC011
TURBINE STOP VALVE CLOSURE TRIP	A	C71-NC012
	B	C71-NC013
	C	C71-NC014
	D	C71-NC015
TURBINE CONTROL VALVE FAST CLOSURE TRIP	A	C71-NC016
	B	C71-NC017
	C	C71-NC018
	D	C71-NC019
NEUTRON MONITORING SYSTEM TRIP	A	C51-NC020
	B	C51-NC021
	C	C51-NC022
	D	C51-NC023
REACTOR WATER LEVEL B TRIP	A	B2-NC001
	B	B2-NC002
	C	B2-NC003
	D	B2-NC004
RECIRC PUMP TRIP SYSTEM "A"	A	C71-NC026
RECIRC PUMP TRIP SYSTEM "B"	B	C71-NC027
SDV VENT VALVE CH-FIB0 CLOSED	A	C11-NC054
SDV VENT VALVE CH-FIB1 CLOSED	B	C11-NC055
SDV DRAIN VALVE CH-FIB0 CLOSED	A	C11-N7066
SDV DRAIN VALVE CH-FIB1 CLOSED	B	C11-NC067

- NOTES:
- TRIP CHANNELS FOR THE TURBINE CONTROL VALVE FAST CLOSURE TRIP SHALL BE DERIVED FROM THOSE EVENTS CAUSING FAST CLOSURE OF THE CONTROL VALVES.
 - SYSTEM SHALL BE ARRANGED SO THAT THE BUS CANNOT BE ENERGIZED FROM THE M/G SET AND ALTERNATE SOURCE SIMULTANEOUSLY.
 - DELETED.
 - MAIN STEAM LINE ISOLATION VALVE CLOSURE TRIP SHALL BE ARRANGED SO THAT ANY ONE STEAM LINE MAY BE ISOLATED BY FULL CLOSURE OF ITS ISOLATION VALVES AND THE ISOLATION VALVE FOR ANY OTHER STEAM LINE CAN BE CLOSED (MORE THAN 10%) WITHOUT CAUSING A SCRAM.
 - LOGIC FOR THE TURBINE STOP VALVE CLOSURE TRIP SHALL BE ARRANGED SO THAT CLOSURE OF 3 OUT OF 4 STOP VALVES WILL CAUSE A SCRAM.
 - FOR ANY SINGLE ROD GROUP (GLTCA) AND B SOLENOID CABLES MAY BE RUN TOGETHER WITH NO OTHER WIRING.
 - EQUIPMENT RATINGS ARE ESTIMATED AND PRELIMINARY. ACTUAL VALUES TO BE DETERMINED AT THE TIME OF EQUIPMENT PROCUREMENT.
 - EACH MAIN STEAMLINE RADIATION MONITOR MONITORS ALL FOUR MAIN STEAM LINES.
 - ALL EQUIPMENT & INSTRUMENTS ARE PREPARED BY SYSTEM NUMBER (S/N) UNLESS OTHERWISE NOTED.
 - FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE INSTRUMENT DATA SHEET LISTED IN THE MPL FOR EACH INSTRUMENT.
 - SELENIUM THYRISTOR SUPPRESSORS (OR EQUIVALENT) SHALL BE USED TO SUPPRESS ELECTRICAL ARCING CAUSED BY THE SCRAM SOLENOIDS.
 - THIS DISCHARGE VOLUME HIGH LEVEL BYPASS SWITCH SHALL BE SO CONTROLLED THAT RPS CHANNELS A AND C ARE PHYSICALLY SEPARATED FROM CHANNELS B & D.
- NOTE 12: CLASS I ELECTRICAL PROTECTION ASSEMBLY (EPA) TRIP EPA CIRCUIT BREAKER OVER VOLTAGE UNDER FREQUENCY.

REFERENCE DOCUMENTS:

REFERENCE DOCUMENTS	MPL ITEM NO.
1. PROCESS COMPUTER INPUT/OUTPUT REQUIREMENTS	C71-4010
2. NEUTRON MONITORING SYS IED	C51-1010
3. NEUTRON MONITORING SYS FCD	C51-1020
4. NUCLEAR BOILER SYS FCD	B31-1030
5. CONTROL ROD DRIVE HYD SYS PAID	C11-1010
6. CONTROL ROD DRIVE HYD SYS FCD	C11-1030
7. NUCLEAR BOILER SYS PAID	B31-1010
8. RESIDUAL HEAT REMOVAL SYS PAID	E2-1010
9. PROCESS RADIATION MON. SYS IED	D17-1010
10. REACTOR RECIRC. SYS PAID	B33-1010
11. TURBINE GENERATOR & STEAM BYPASS SYS DESIGN SPEC.	A62-4120
12. PROCESS COMP. IOLIST	C91-4030
13. RPS M/G SET ELEM. DIAG.	C71-1060

SUPPORTING DOCUMENTS:

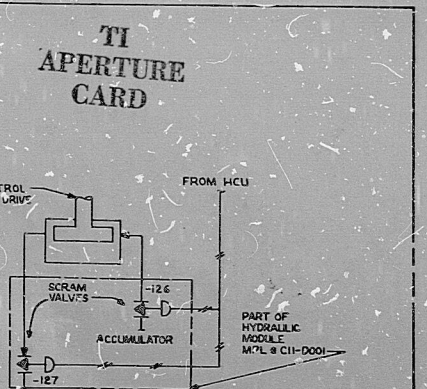
SUPPORTING DOCUMENTS	MPL ITEM NO.
1. PIPING & INSTRUMENT SYMBOLS	A42-1010
2. LOGIC SYMBOLS	A42-1036

LEGEND:

- SWITCHGEAR DEVICE FUNCTION NUMBER ANSI SPEC. C37.2
- COMPUTER INPUT DESIGNATIONS
- ERIS TERMINAL DESIGNATIONS

NOTES: CONTINUED

SCRAM DISCHARGE VOLUME VENT & DRAIN VALVE CONTROL ROOM INDICATORS SHALL INDICATE OPEN WHEN BOTH VALVES ARE OPEN AND SHALL INDICATE CLOSED WHEN EITHER VALVE IS CLOSED.



NO.	REV.	DATE	BY	CHKD.	APP'D.	REVISIONS
3	1	11/15/52	L. BULLOCK			
2	1	11/15/52	L. BULLOCK			
1	1	11/15/52	L. BULLOCK			

762E-427A
 12 CHD BY: [Signature]
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PDR RIDS

