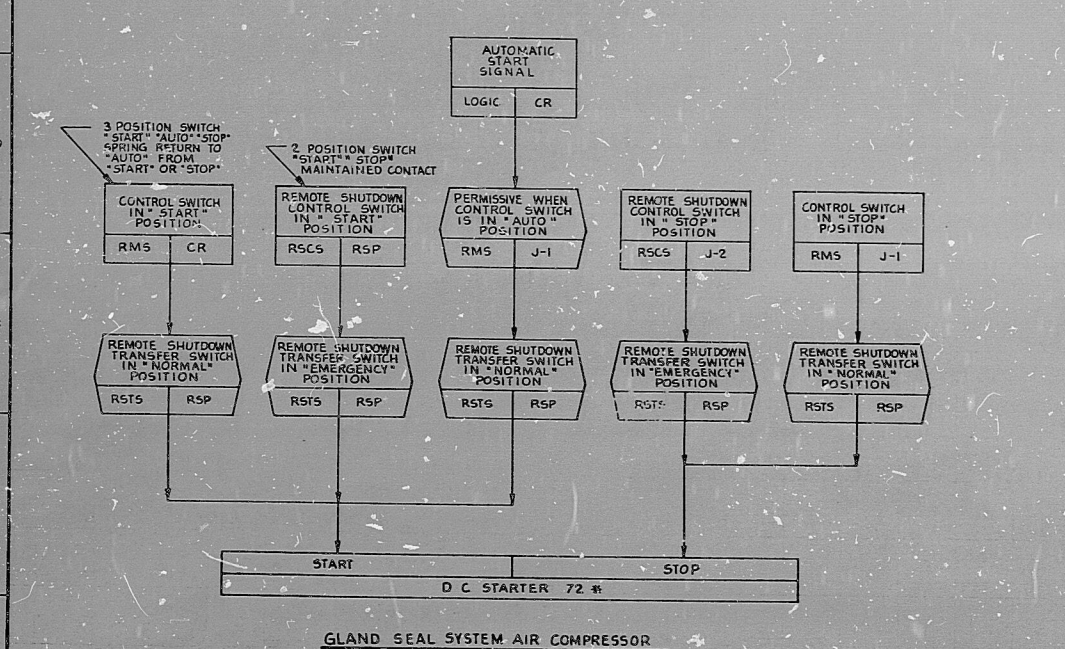


FIG. 1
TYPICAL VALVE CONTROL (SEE TABLE 1 FOR VLV APPL)



GLAND SEAL SYSTEM AIR COMPRESSOR

TABLE 1
TYPICAL MOTOR OPERATED VALVES WITH REMOTE SHUTDOWN (SEE FIGURE 1 FOR TYPICAL CONTROL)

MPL NO.	DESIGNATION	NOTE	SUPPL DOC.
E12-F003A	HEAT EXCHANGER SHELL SIDE OUTLET VALVE	10	B
E12-F044A	RHR PUMP SUCTION VALVE	10	B
E12-F016A	SHUTDOWN COOLING VALVE	3	B
E12-F016B	SHUTDOWN COOLING VALVE	3	B
E12-F018	OUTBOARD SHUTDOWN ISOLATION VALVE	4	4
E12-F029	SUCTION COOLING ISOLATION VALVE	4	4
E12-F011A	RHR HX FLOW TO SUPPRESSION POOL VALVE	3	B
E12-F037A	SHUTDOWN SPRAY UPPER POOL COOLING	3	B
E12-F042A	RHR INJECTION VALVE	3	B
E12-F033A	SHUTDOWN COOLING INJECTION VALVE	3	B
E12-F044A	RHR PUMP MINIMUM FLOW VALVE	3	B
E12-F023	REACTOR HEAD SPRAY ISOLATION VALVE	4	4
E12-F044A	TEST RETURN VALVE	3	B
E12-F016A	RHR HX FLOW TO RCIC VALVE	3	B
E12-F027A	RHR INJECTION SHUTOFF VALVE	3	B
E12-F027A	HEAT EXCHANGER SHELL SIDE INLET VALVE	3	B
E12-F015A	HEAT EXCHANGER SHELL SIDE BYPASS VALVE	3	B
E12-F040	DISCHARGE TO RADWASTE ISOLATION VALVE (OUTBOARD)	4	4
E12-F032A	STEAM LINE ISOLATION VALVE	4	4
E12-F028A	HX SERVICE WATER DISCHARGE VALVE	3	B
E51-F043	STEAM SUPPLY LINE ISOLATION VALVE (INBOARD)	4	6
E51-F049	STEAM SUPPLY LINE ISOLATION VALVE (OUTBOARD)	1	6
E51-F010	PUMP SUCTION FROM CONDENSATE STORAGE TANK VALVE	6	6
E51-F019	TEST BYPASS VALVE TO CONDENSATE STORAGE TANK VALVE	6	6
E51-F013	RCIC INJECTION SHUTOFF VALVE	6	6
E51-F019	MINIMUM FLOW TO SUPPRESSION POOL VALVE	6	6
E51-F022	TEST BYPASS COND STORAGE TANK VALVE	6	6
E51-F031	PUMP SUCTION FROM SUPPRESSION POOL VALVE	6	6
E51-F045	STEAM TO TURBINE VALVE	6	6
E51-F046	RCIC TURBINE COOLING WTR SUPPLY VALVE	6	6
E51-F060	TURBINE EXHAUST TO SUPPRESSION POOL VALVE	10	6
E51-F076	STEAM LINE WARM-UP LINE ISOLATION VALVE	4	6
E51-F077	VAC BREAKER ISOL VALVE (OUTBOARD)	6	6
E51-F078	VAC BREAKER ISOL VALVE (INBOARD)	6	6
---	TRIP TROTTLE VALVE	6	6

LEGEND
 RSP REMOTE SHUTDOWN PANEL
 RSTS REMOTE SHUTDOWN TRANSFER SWITCH
 * SWITCHING DEVICES FUNCTION NUMBER
 ANSI SPEC. C37.2
 RSCS REMOTE SHUTDOWN CONTROL SWITCH

- NOTES:
- THIS FCD SHOWS ONLY THE PORTIONS APPLICABLE TO REMOTE SHUTDOWN SYSTEM. OTHER SYSTEM LOGICS ARE SHOWN TO THE EXTENT NECESSARY TO UNDERSTAND THE REMOTE SHUTDOWN LOGIC.
 - FOR DETAILED SYSTEM LOGIC SEE APPLICABLE SUPPLEMENTAL DOCUMENTS.
 - FIGURE 1 SHOWS TYPICAL VALVE CONTROL. SEE TABLE 1 FOR APPLICABLE VALVES.
 - THE CONTROL IS APPLICABLE FOR ISOLATION VALVES ONLY.
 - THE CONTROL IS APPLICABLE FOR VALVES WITH AUTOMATIC CONTROL.
 - ALL POWER FOR OPERATION OF DC VALVE MOTORS SHALL ORIGINATE FROM PLANT DC POWER. AC MOTOR OPERATED VALVES SHALL BE FED FROM STANDBY AC BUS.
 - REMOTE SHUTDOWN TRANSFER SWITCHES ARE 2 POSITION SWITCH "NORMAL" "EMERGENCY" MAINTAINED CONTACT.
 - DURING REMOTE SHUTDOWN OPERATION THE NORMAL CONTROL POWER SUPPLY SHALL BE DISCONNECTED AND THEN CONNECTED TO AN INDEPENDENT CONTROL POWER SUPPLY AT THE REMOTE SHUTDOWN PANEL.
 - ELECTRICAL SEPARATION SHALL BE IN ACCORDANCE WITH SUPPL DOC. 10.
 - THESE VALVE CONTROL SWITCHES DO NOT HAVE "AUTO" POSITION.
 - REFER TO SUPPL DOCS 4, 6 AND 8 TO DETERMINE SEAL-IN REQUIREMENTS.
 - REMOTE SHUTDOWN LOGIC IS SUPPLEMENTARY TO SYSTEM LOGIC. SUPPL DOCS 4, 6 & 8. IN CASE OF CONFLICT BETWEEN THE SYSTEM LOGIC ON THIS FCD AND THE SYSTEM LOGIC ON THE SYSTEM FCD THE LATTER SHALL GOVERN.

SUPPLEMENTAL DOCUMENTS: UNDER THE FOLLOWING IDENTITIES ARE TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.

- C61-1010 REMOTE SHUTDOWN SYSTEM IED
- C61-4010 REMOTE SHUTDOWN SYSTEM DESIGN SPEC
- B21-1010 NUCLEAR BOILER SYSTEM P&ID
- B21-1030 NUCLEAR BOILER SYSTEM FCD
- E51-1010 RCIC SYSTEM P&ID
- E51-1030 RCIC SYSTEM FCD
- E12-1010 RESIDUAL HEAT REMOVAL SYSTEM P&ID
- E12-1030 RESIDUAL HEAT REMOVAL SYSTEM FCD
- A42-1030 LOGIC SYMBOLS
- A62-4030 ELECTRICAL EQUIPMENT SEPARATION FOR SAFEGUARD SYSTEM

MPL NO: C61-1030

DESIGNED BY	DATE	REVISION	CLASS
DIGER	11/10/53	1	ORIGINAL
EVANS	11/11/53	2	REVISED
WILHELM	11/11/53	3	REVISED
KREIB	11/11/53	4	REVISED

APPLICABLE PRACTICES: ALL UNLESS OTHERWISE SPECIFIED

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED	11/10/53
2	REVISED	11/11/53
3	REVISED	11/11/53
4	REVISED	11/11/53

PROJECT: REMOTE SHUTDOWN SYSTEM

DRAWN BY: RIVERBEND

SCALE: 1/8" = 1'-0"

DATE: 11-30-53

PROJECT NO: 828E 278AA 0

AM-0423

TI
APERTURE
CARD

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PDR RIDS

