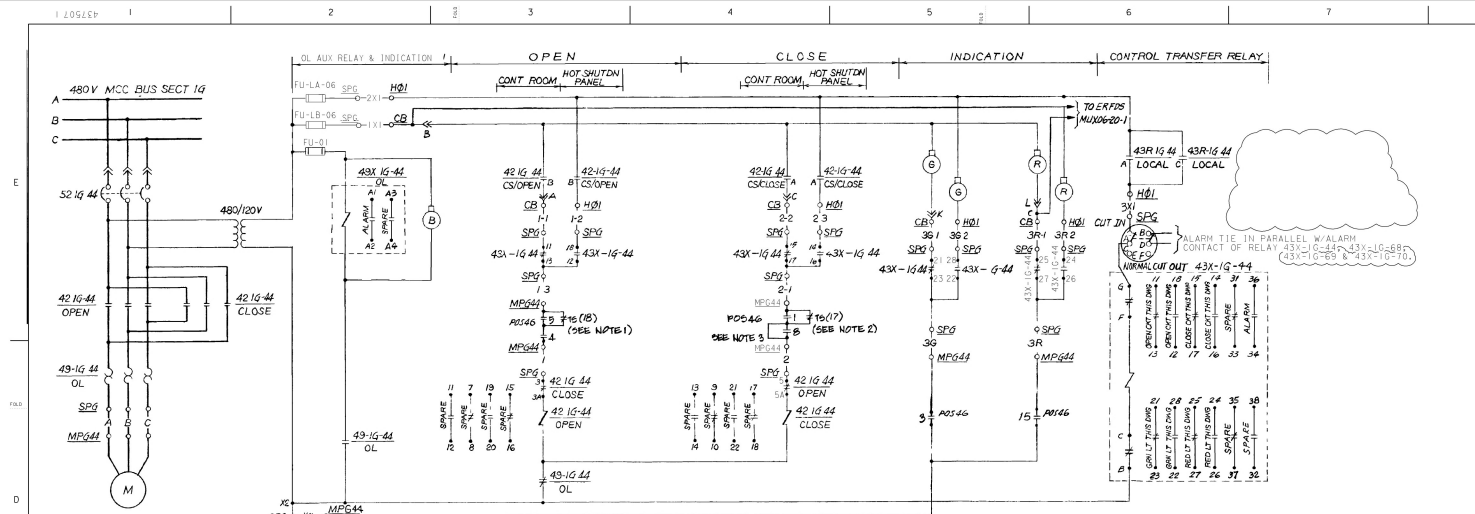
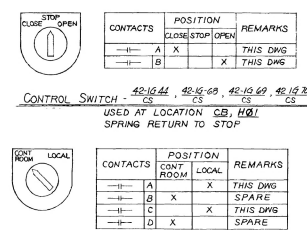




LCV 106 STEAM GEN II AUX FEEDWATER SUPPLY MOV - CKT NO G44P00
STEAM GEN AUX FEEDWATER SUPPLY MOV'S SIMILAR EXCEPT AS SHOWN IN TABLE

VALVE NO	DESCRIPTION	FW PUMP DISCH	MOTOR LOC	CIRCUIT BREAKER NO	BUS SECT	CIRCUIT NO	VALVE POS SWITCH	ALARM CKT NOS	CONTROL TRANSFER RELAY OUT-TO SW	ERFDS INPUT	FUSE NOS
LCV 106	STM GEN II AUX FW SUPPLY MOV	11	MEG44	52-1G-44	SPG	1G	G44P00	46	42-1G-44 CS/CLOSE	MUX06-20-1	FU-1A-06 FU-1B-06
LCV 107	12		MEG44	52-1G-44	SPG	1G	G44P00	47	42-1G-44 CS/CLOSE	MUX06-20-2	FU-1A-06 FU-1B-06
LCV 108	13		MEG44	52-1G-44	SPG	1G	G44P00	48	42-1G-44 CS/CLOSE	MUX06-20-3	FU-1A-06 FU-1B-06
LCV 109	14		MEG44	52-1G-44	SPG	1G	G44P00	49	42-1G-44 CS/CLOSE	MUX06-20-4	FU-1A-06 FU-1B-06



DEVICE NO	FUNCTION	RATING	MFR	TY PE	CAT/DWG	REMARKS
52HHB/AS	480V AIR CIRCUIT BREAKER				REF DWG 11	VALVE FAIL OPEN WHEN T/M IS NOT RUNNING
42-1G-44-60	480V AC MOTOR STARTER REVERSING		WEG		REF DWG 10	
43-1G-44-60	CONTROL TRANSFER RELAY	120V AC	ELECTRO-RELE	24	7803 F	HAND RESET
42-1H-62	RC CONTACTOR	120V AC	WEG	RC21	420N2BR	ENH NO. DC-1/165-ENL
43-1G-44-60	MOTOR OVERLOAD RELAY		WEG			REF PART OF MOTOR STARTER
43-1G-44-60	MOTOR OVERLOAD AUXILIARY RELAY		WEG			PART OF MOTOR STARTER
52-1G-44-60	480V AC AIR CIRCUIT BKR		WEG		REF DWG 10	
LCV 106, 107, 108, 109, 110, 111, 113, 115	STM GEN AUX FW SUPPLY LEVEL CONT					
HIC	HAND INDICATING CONTROLLER				G	SEE TABLE FOR HIC
POS	LCV POSITION SWITCH				G	SEE TABLE FOR SW NOS
TS	TORQUE SWITCH					
POM 110, 111, 113, 115	LCV POSITION MONITOR	120 VAC			G	

CONTACTS	VALVE POSITION	FUNCTION CONTACTS 1-6	FUNCTION CONTACTS 9-16
1	9	1) DRYSD INTR	9) SPARE
2	10	2) SPARE	10) SPARE
3	11	3) GREEN LIGHT	11) SPARE
4	12	4) OPEN LIMIT	12) SPARE
5	13	5) DRYSD INTR	13) SPARE
6	14	6) SPARE	14) SPARE
7	15	7) SPARE	15) SPARE
8	16	8) NOTE 5	16) SPARE

TYPICAL VALVE POSITION SWITCH CONTACT DEVELOPMENT
ACTUAL SETPOINTS ARE IN PIMS

EQUIPMENT LOCATION NUMBERS

SEV 480V MOTOR CONTROL CENTER BUS SECTION 1G
MEG44 - MOTOR OPERATED VALVE LCV 106
CB - CONTROL BOARD, CONDENSATE & FEEDWATER
HSH - HOT SHUTDOWN CONTROL PANEL, FEEDWATER
XLCV10 - INSTR NO LCV10, TERM BOX ELECTRO-HYDRAULIC ACTUATOR
XLCV11 - INSTR NO LCV11, TERM BOX ELECTRO-HYDRAULIC ACTUATOR

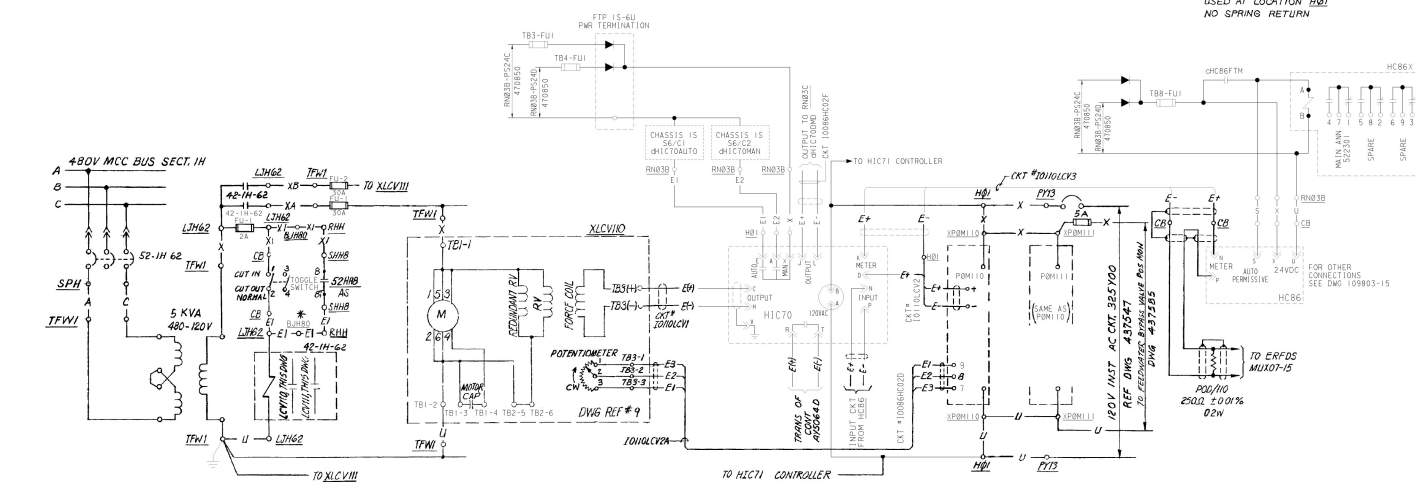
NOTES

1. SWITCH OPENS ON MECHANICAL TORQUE DURING OPENING CYCLE
2. ... CLOSING CYCLE OR FULLY CLOSED VALVE
3. FIELD TO INSTALL JUMPER FOR TORQUE SETTING

REFERENCE DRAWINGS

1. DESCRIPTION OF ELECT SCHEMATIC DWG'S SYMBOLS & CKT DESIG DWG# 060003
2. EQUIPMENT LOCATION NUMBER LIST 101900
3. SINGLE LINE METER & RELAY DIAG, 480V SYSTEM BUS SECT IF 437916
4. SINGLE LINE METER & RELAY DIAG, 480V SYSTEM BUS SECT IH 437543
5. PIPING SCHEMATIC FEEDWATER SYSTEM 108003
6. INSTRUMENT SCHEMATIC MULTIVARIABLE INSTRUMENT SYSTEMS 108036
7. SCHEMATIC DIAGRAM MAIN ANNUNCIATOR 50121
8. SINGLE LINE METER & RELAY DIAG, 120V INSTR AC SYSTEM 437547, 9
9. LCV 110, 111, 113 & 115 ELECTRO-HYDRAULIC ACTUATOR-SHT. 51 REC# 643165
10. SINGLE LINE METER & RELAY DIAG, 480V SYSTEM BUS SECT IG DWG 437542
11. SCHEMATIC DIAG AUX FEEDWATER PUMPS 437583
12. BLOCK DIAG-ERFDS TECH SUPPORT CTR & CONTROL ROOM 445278
13. SCHEMATIC DIAG FEEDWATER MOTOR OPERATED ISOL VALVES 437585
14. SAFETY RELATED PROCESS CONTROL SYS RACKS PFS 663195-41
15. MAIN ANNUNCIATOR SCHEMATIC 522301
16. FUNCTIONAL LOOP DIAGRAM STM GEN I AUX FW SUPP LC-86 108803-15
17. FUNCTIONAL LOOP DIAGRAM STM GEN 2 AUX FW SUPP LC-87 108803-16
18. FUNCTIONAL LOOP DIAGRAM STM GEN 3 AUX FW SUPP LC-88 108803-18
19. FUNCTIONAL LOOP DIAGRAM STM GEN 4 AUX FW SUPP LC-89 108803-19

VALVE NOS LCV106, LCV107, LCV108, LCV109, LCV110, LCV111, LCV113, LCV115



LCV 110 STEAM GEN II AUX FEEDWATER SUPPLY VALVE
STEAM GEN AUX FEEDWATER SUPPLY VALVES SIMILAR EXCEPT AS SHOWN IN TABLE
* BTHRD FOR LCV110, LCV111 & BTHRD FOR LCV113, LCV115

VALVE NO	DESCRIPTION	FW PUMP DISCH	VALVE LOC	120V INSTR AC	DEVELOPER	CONTROL	ELECTRO-HYDRAULIC MODULATING SIGNAL CKT	CIRCUIT BREAKER	LOCAL CONTACTOR	ALARM CKT. NO.	AUX FW PUMP INTL. K.	VALVE POS. MONITOR	OUTPUT CXT TO IND & HCU	ERFDS INPUT
LCV 110	STM GEN II AUX FW SUPPLY	12	XLCV110	325Y00A	EX13	HIC70	1008BHC02D	10101LCV1, 2A	42-1H-62	SPH	42-1H-62	42-1H-62	1011LCV2, 2	MUX 07-15
LCV 111	12		XLCV111	325Y00A	EX13	HIC71	1008BHC02D	1011LCV1, 2A	42-1H-62	SPH	42-1H-62	42-1H-62	1011LCV2, 2	MUX 07-15
LCV 113	13		XLCV113	122Y00	PI11A	HIC72	1008BHC02D	1011LCV1, 2A	42-1H-62	SPH	42-1H-62	42-1H-62	1011LCV2, 2	MUX 07-15
LCV 115	14		XLCV115	122Y00	PI11A	HIC73	1008BHC02D	1011LCV1, 2A	42-1H-62	SPH	42-1H-62	42-1H-62	1011LCV2, 2	MUX 07-15

VALVE NO.	FAIL TO MANUAL AUX RELY	PCS RELY OUTPUT	PCS RACK	FUSES	24VDC PWR SUPPLY	FTP	FUSES	SOFTWARE TAG	CHASSIS/SLOT/CHANNEL	SOFTWARE TAG	CHASSIS/SLOT/CHANNEL
LCV110	HC86X	HC86FTM	RNB18	TBB-FUI	RNB18-P524C/D	15-60	TBB-FUI/TBB-FUI	HC1CT0A00	15/56/C1	HC1CT0A00	15/56/C2
LCV111	HC86X	HC86FTM	RNB18	TBB-FUI	RNB18-P524C/D	25-20	TBB-FUI/TBB-FUI	HC1CT0A00	25/52/C1	HC1CT0A00	25/52/C2
LCV113	HC86X	HC86FTM	RNB18	TBB-FUI	RNB18-P524C/D	15-60	TBB-FUI/TBB-FUI	HC1CT0A00	15/56/C1	HC1CT0A00	15/56/C2

KEY DWG. SECTION 6



NUCLEAR SAFETY RELATED

DATE	REVISION DESCRIPTION	UNIT I	DWG. SCALE
07-10-2017	REVISION PER DCH-21216	ELECTRICAL SCHEMATIC DIAGRAM AUXILIARY FEEDWATER MOTOR OPERATED VALVES	BILL OF MAT'L
D.D. ZNS4			SUPD BY
R.E. RK62			
J.V. N/A			
P.E. N/A			