CONFIGURATION CHANGE SHEET 1 OF 2

☐ REQUEST ☒ NOTICE NUMBER 10

CLASS: ☒ CRITICAL ☐ ROUTINE DATE 4-5-78

REQUESTED BY K. LOWDER

☐ SPECIFICATION ☒ DRAWING ☐ PROCEDURE ☐ INSTRUCTION

NUMBER 5151028 REVISION 5 CLASS SR

TITLE ELEM. DIGRAM MOV-LCV-1100C (& E)

VENDOR ☐ BECHTEL ☒ EDISON

DESCRIPTION OF CHANGE

INCORPORATE THE FOLLOWING CHANGES

(1.) ADDED "& E" ON TITLE BLOCK & "VOLUME CONTROL TANK DISCHARGE MOV-LCV-1100E, IF.B0183, 42-1183, LOCATION B2A, C09, C22, B01, C49, B02, INTERLOCKS MOV-LCV-1100D, LS-9, LS-10, SIX 9 & 10, 11 & 12, MOV-LCV-1100B, LS-9, LS-10, SIX 9 & 10, 11 & 12, DEVICE LC-1100B-X (12-16), (3-7); AB(6-9), (1-7) & HEATERS BRKR. NO. 8-12A07 & 8-913 ON EQUIP. TABLE.
(2.) ADDED REF. DWGS. 457853, 457259, 5102166 & 5102169
(3.) CHANGED SCHEME NO. 1B2A76 TO 1GB2A76 & DWG. 455369 TO 5154354
(4.) REMOVED "480V BUS MCC 1, 42-12A76, 8-1198, B01, B2A, 83-1, 83-2, SS, RELAY CR1, CR, TRANSF., CONTACTS LS-10(1100B), SIX (11-12), (9-10), B03, LS-9(1100B), LIGHTS (W) & (A), CONTACTS CR(4-5), LS-9, 83-1(3-4), 83-2(7-8), SEL. SW. SS, # NOTE NO 1; WIRE NOS. A, B, C, C1, C21, B1, C41, C2, C22, C42, S1, K62, J.O. 7345 C22, C12; LOC. K01, B2A, A1C & A2C.
OTHER AFFECTED DWGS: 5150626. (5.) ADDED CONTROL SW CS(HS-1100E & "HS-1100C"
EFFECTIVITY DATE: IMMEDIATELY

JUSTIFICATION
SFA-1
TO PROVIDE INDEPENDENT & REDUNDANT POWER TRAINS FOR MOV-LCV-1100C & MOV-LCV-1100E

SIGNATURE Mel Marsh

EVALUATION

EVALUATION – ☐ APPROVE ☐ REJECT
REASON

REGISTERED PROFESSIONAL ENGINEER

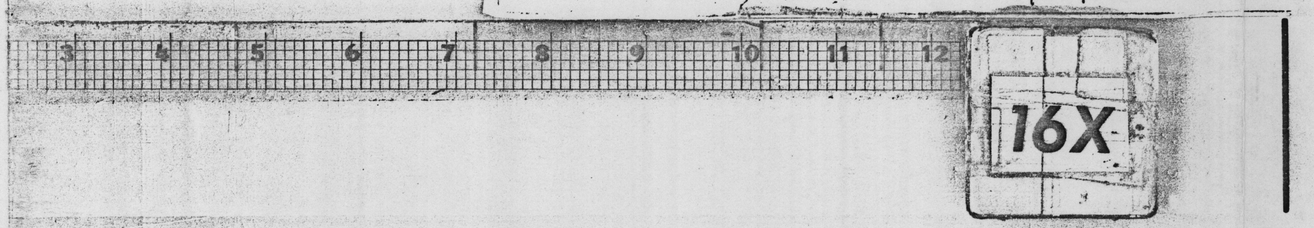
DECISION – ☒ APPROVE ☐ REJECT
COMMENT

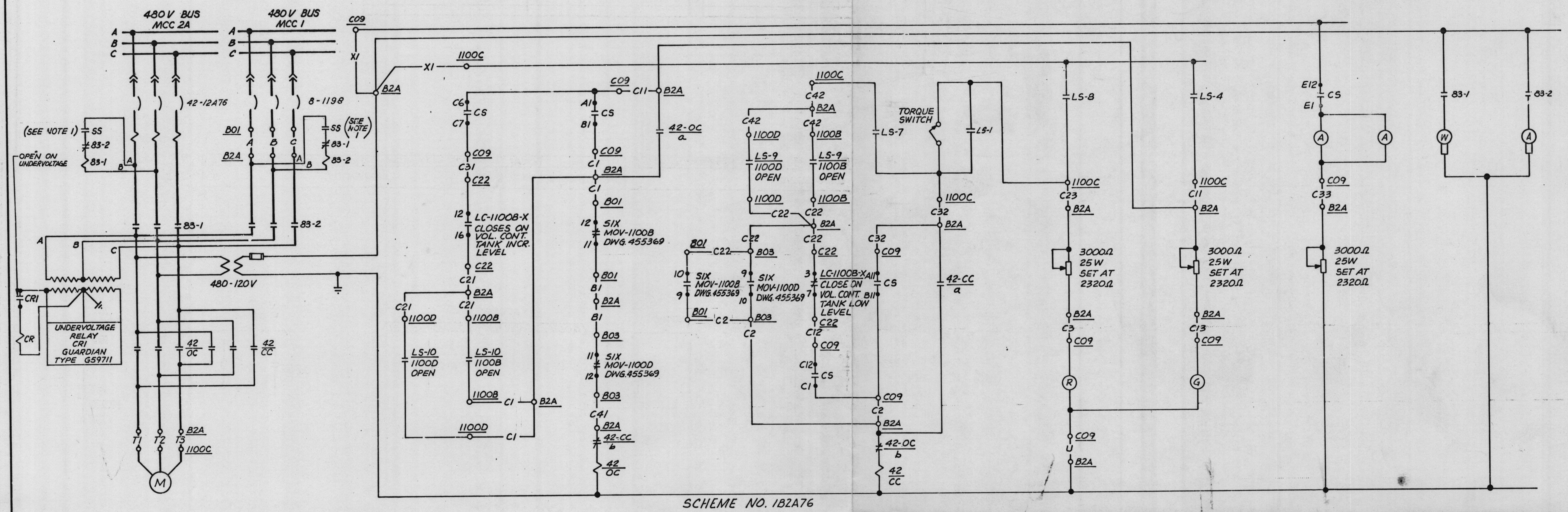
PROJECT ENGINEER

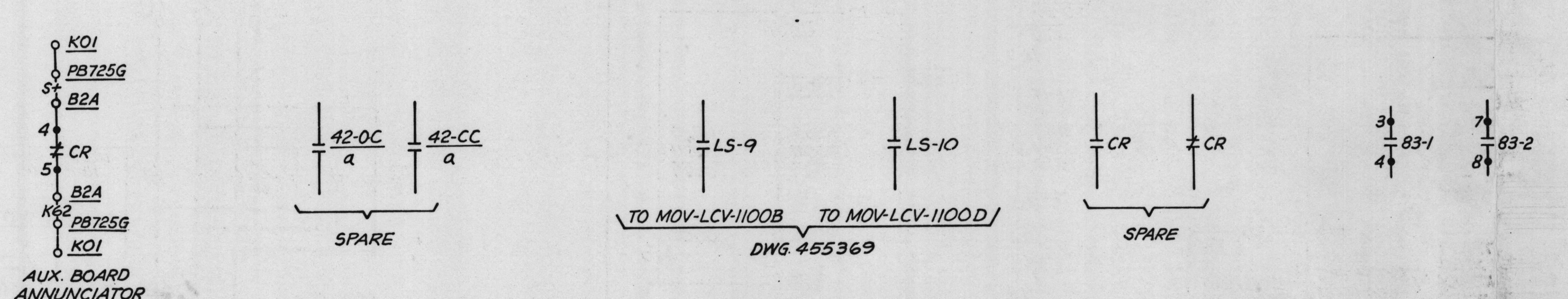
SONGS 1 BACKFIT
APPROVED FOR CONSTRUCTION
SFA-1

	Signed	Direct	N/A
MECH. ENGR.			
ELECT. ENGR.			
C/S ENGR.			
ARCH. ENGR.			
CONTROLS ENGR			
CONSTR. ENGR.			
NUCLEAR ENGR.			
Q.A. ENGR.			
Power Supply			

SIGNATURES	APPR'D	REJECT	N/A
DESIGNER Vivencio Javier	X		
PROJECT GROUP LEADER A.P. Grande	X		
QUALITY ASSURANCE ENGR.			
~~CHECKED~~ CHECKED Mel Marsh	X		

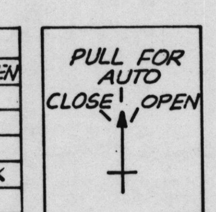




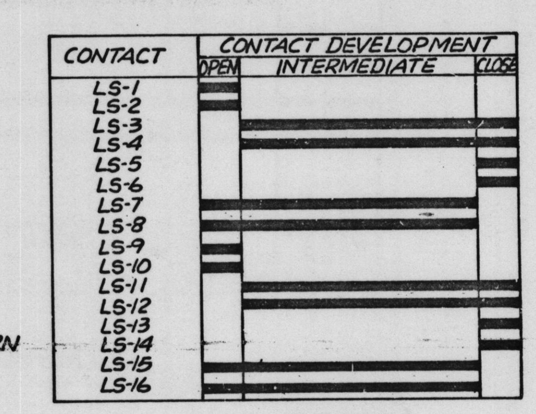


EQUIPMENT	SCHEME NO.	STARTER NO.	INTERLOCKS	LOCATION
VOLUME CONTROL TANK DISCHARGE MOV-LCV-1100C	1B2A76	42-12A76	LS-9, LS-10 (1100B); LS-9, LS-10 (1100D); SIX 9 & 10, 11 & 12 (1100B); SIX 9 & 10, 11 & 12 (1100D)	B2A

CONTACT	POSITION			
	CLOSE	OFF	AUTO	OPEN
A11-B11	X			
A12-B12		X	X	
A1-B1				X
A5-B5	X			
A6-B6		X	X	
A7-B7				X
C12-C1			X	
D12-D1	X	X		X
C6-C7			X	
D6-D7	X	X		X
E12-E1			X	
F12-F1	X	X		X
E6-E7			X	
F6-F7	X	X		X



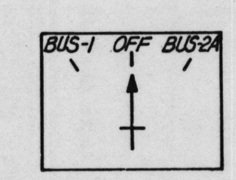
CONTROL SWITCH CS
WEST TYPE "W-2" SPRING RETURN
GREEN OVAL FIXED HANDLE



LIMIT SWITCH

NOTES:
1. SELECTOR SWITCH SS ALIGNS MOV-1100C TO EITHER MCC 1 OR MCC 2A IF BREAKERS 8-1198 OR 42-12A76 RESPECTIVELY, ARE CLOSED. BREAKER NOT SUPPLYING MOV-1100C WILL BE MAINTAINED IN OPEN POSITION

CONTACT	POSITION		
	BUS-1	OFF	BUS-2A
1-2	X		
3-4			X
5-6	X		
7-8			X



SELECTOR SWITCH SS
SQUARE-D CAT. # 9001-KS-43B
MANUAL RETURN CONTACTS
BLACK OVAL HANDLE

SONGS 1
SAFETY RELATED
REACTOR AUXILIARIES

REDRAWN FROM DWG. 449403 (N-1542 SH. 32)

Reference Drawings	
63715	SAFETY INJECT. SYS. SH. 2
5102171	MOTOR CONTROL CENTER 3
5149964	EQUIP. LOCATION INDEX
5149629	DEVICE FUNCTION NOS. & SYMBOLS

No.	Revisions	Date	Approved	O.K.	O.K.	Ck'd.	Made	J.O. No.
5	REC REV. - REVISED TITLE	4-24-78				PK	MK	6705
4	INCORP. CCN. 7 EFF DATE IMMED.	11-28-77					BC	7345
3	INCORP CCN 5 & 6 EFF DATE IMMED	5-12-77						0136
2	INCORP CCN 2,3,4 & 7-EFF 3-15, 3-22-77 & IMMED	4-13-77						7345 0736
1	INCORP CCN 1-EFFECT DATE 10-1-76	10-4-76						0736
0	ISSUED FOR CONSTR.; REVISED & REDRAWN	3-29-76						0736

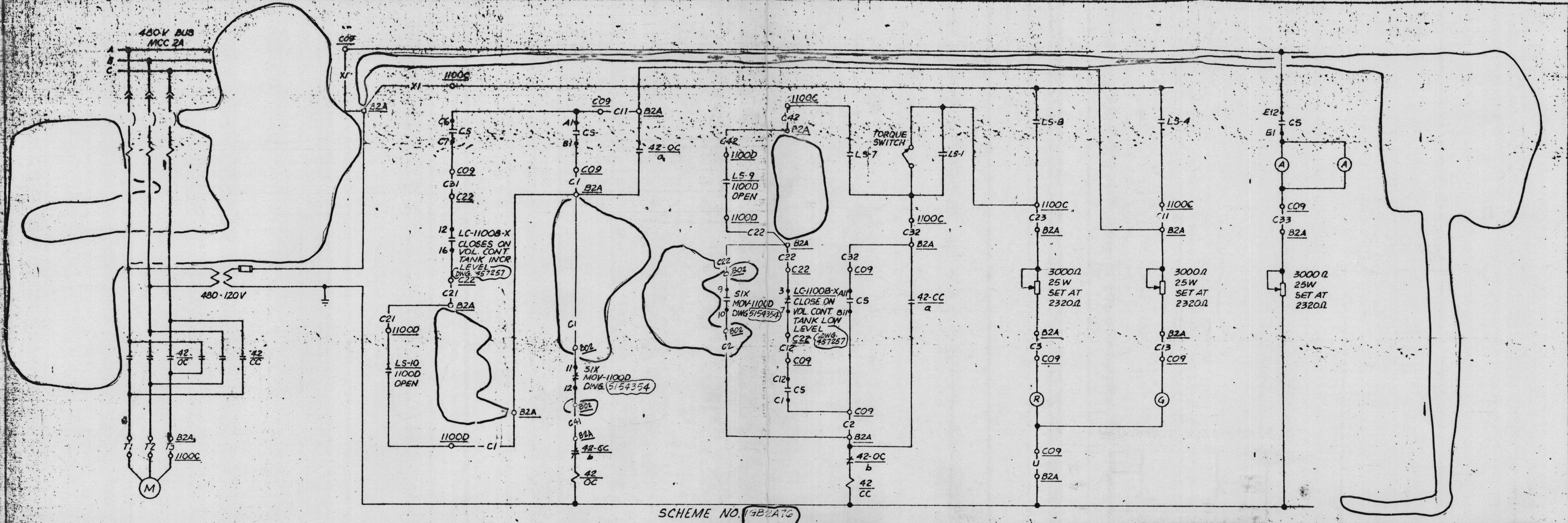
Scale NONE

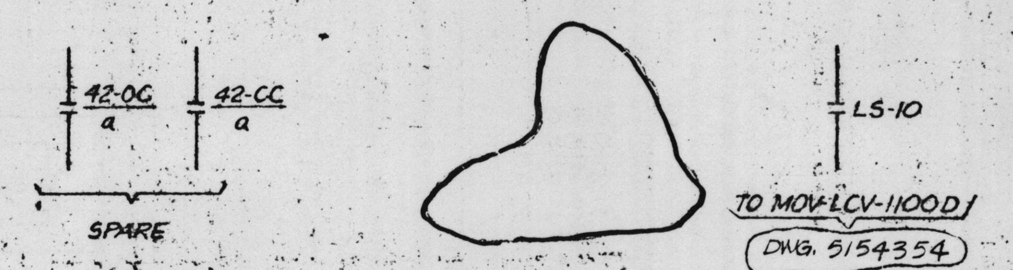
Location SAN ONOFRE NUCLEAR GEN. STA.

ELEMENTARY DIAGRAM
MOV LCV 1100C
(VOLUME CONT. TANK DISCH.)

Southern California Edison Company

5151028-5





CONTACT		POSITION			
		CLOSE	LATERAL IN / OFF	LATERAL OUT / AUTO	OPEN
LATERAL	1-1C			X	
	2-2C			X	
	3-3C			X	
	4-4C			X	
ROTARY	5-5C	X			
	6-6C	X			
	7-7C				X
	8-8C				X

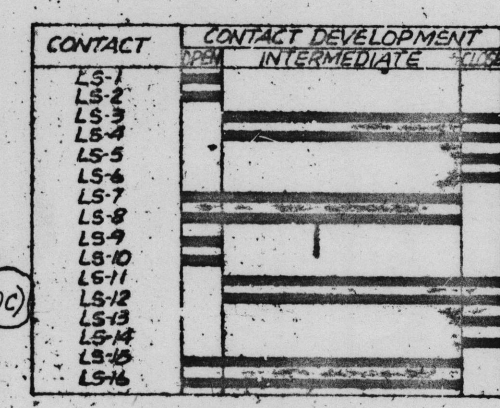
AUTO
CLOSE OPEN

CONTROL SWITCH CS (HS-1100E)
G.E. SB-10
ROTARY ACTION SPRING RETURN TO AUTO (NEUTRAL)
LATERAL ACTION MAINTAINED "IN" OR "OUT"

CONTACT	POSITION			
	CLOSE	OFF	AUTO	OPEN
A11-B11	X			
A12-B12		X	X	
A1-B1				X
A5-B5	X			
A6-B6		X	X	
A7-B7				X
C12-C1			X	
D12-D1	X	X		X
C6-C7			X	
D6-D7	X	X		X
E12-E1			X	
F12-F1	X	X		X
E6-E7			X	
F6-F7	X	X		X

PULL FOR AUTO
CLOSE OPEN

CONTROL SWITCH CS (HS-1100C)
WEST TYPE "W-2" SPRING RETURN
GREEN OVAL FIXED HANDLE



LIMIT SWITCH

EQUIPMENT	SCHEME NO.	STARTER NO.	LOCATION				INTERLOCKS			DEVICE	HEATERS BRKR. NO.
VOLUME CONTROL TANK DISCHARGE MOV-LCV-1100C	1GE2A76	42-12A76	B2A	C09	C22	B02	MOV-LCV-1100D: LS-9	LS-10	SIX 9&10, 11&12	LC-1100B-X (12-16), (3-7)	8-12A07
VOLUME CONTROL TANK DISCHARGE MOV-LCV-1100E	1FB0133	42-1183	B01	C09	C49	B01	MOV-LCV-1100B: LS-9	LS-10	SIX 9&10, 11&12	A8 (6-9), (1-7)	8-413

AFTER
Drwg. # 5151028-5
CCN # 10
Sheet # 2 of 2

SONGS 1
SAFETY RELATED
REACTOR AUXILIARIES

REDRAWN FROM DWG. 449403 (N-1542 SH. 32)

457253	LOGIC DIA. MOV/LCV-1100C		
457254	LOGIC DIA MOV/LCV-1100E		
63715	SAFETY INJECT SYS. SH. 2		
5102 [illegible]	ONE LINE MCC-[illegible]		
5149964	EQUIP. LOCATION INDEX		
5149629	DEVICE FUNCTION NOS. & SYMBOLS	5102169	ONE LINE MCC-2A
Reference Drawings		Reference Drawings	

Reject