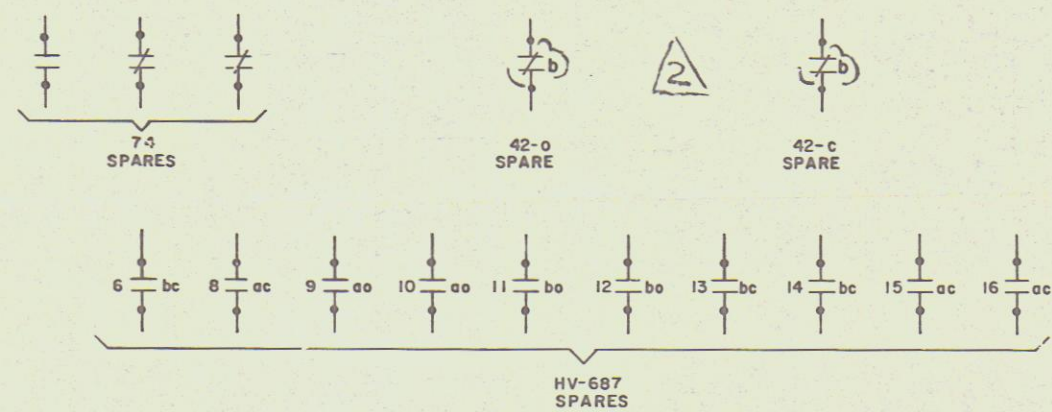
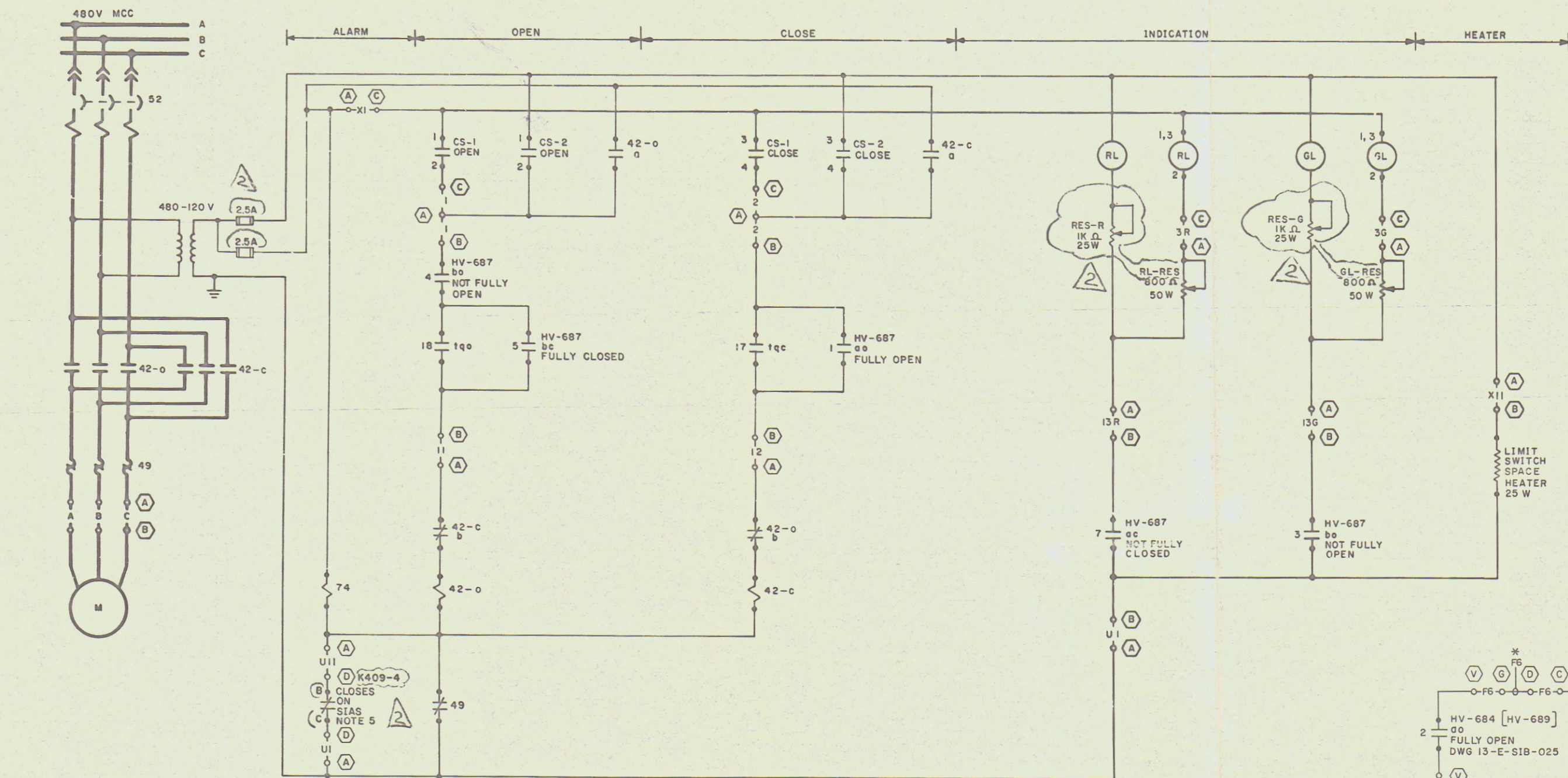


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MOTOR OPERATED VALVE LIMIT SWITCH CONTACT DEVELOPMENT LIMITORQUE			
POSITION SWITCH	VALVE POSITION	CONTACT	ROTOR
INTMD			
CLOSED	OPEN		
ao		1	1
bo		2	1
co		3	1
do		4	1
eo		5	2
fo		6	2
go		7	2
ho		8	2
io		9	3
jo		10	3
ko		11	3
lo		12	3
mo		13	4
no		14	4
oo		15	4
po		16	4

HV-687
tqc CLOSING TORQUE SWITCH 17
tqo OPENING TORQUE SWITCH 18
— SOLID LINE DENOTES CONTACT CLOSED

LOCKED NORMAL CLOSE OPEN	
CS-1	
HS-687	
MICRO SWITCH	
TYPE PTH-3 POSN	
SPRING RTN	
TO NORMAL	
MODEL PTKHA233IC	
NOTE 5	

NORMAL CLOSE OPEN	
CS-2	
GE SWITCH	
TYPE CR2940 SPLSM	
SPRING RTN	
TO NORMAL	
MODEL YS203ANUC	

E-PHA-M3712	F6, F7 (RD) A271	J-SIA-HV-678
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E-PHB-M3808	F6, F7 (RD) A272	J-SIB-HV-679
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(F) J-ESA-C01	
F1, F2 (RA) A271	
(A) E-PHA-M3711	
F2, F7 (RB) A27	
(B) J-SIA-HV-687	

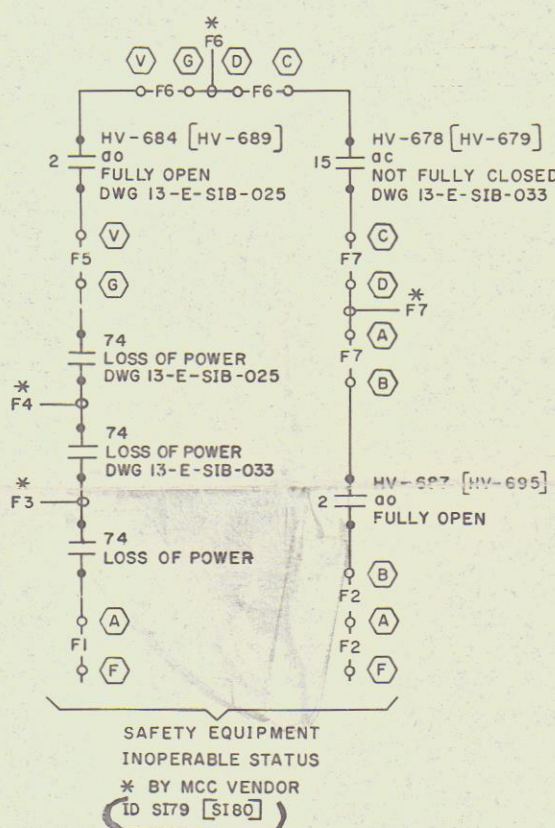
(F)	J-ESB-C01	
	F1, F2	(RA) A2
(A)	E-PHB-M3810	
	F2, F7	(RB) A2
(B)	J-S1B-HV-695	

E-PHA-M3705	F6, F5 (RC) A271	J-SIA-HV-684
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E-PHB-M3804	F6, F5 (RC) A272	J-SIB-HV-689
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SCHEME E-S124-AC-2
INOPERABLE STATUS TRAIN A

SCHEME E-S124-BC-2
INOPERABLE STATUS TRAIN B



SAFETY EQUIPMENT
INOPERABLE STATUS
* BY MCC VENDOR
ID S179 [S180]

J-SAA-C0104	UI, UI1 (RC) A271	E-PHA-M3711
J-RMA-B02E	X1, I1, 2, 3R, 3G, SPI, SP2	J-SIA-HV-687
A, B, C (KA) 8391	X11, I1, 2, 12, 13R, 13G, UI, SPI	J-SIA-HV-687

SCHEME E-S124-AC-1
VALVE J-SIA-HV-687

J-SAB-C0104	UI, UI1 (RC) A272	E-PHB-M3810
J-RMB-B02E	X1, I1, 2, 3R, 3G, SPI, SP2	J-SIB-HV-695
A, B, C (KA) 8392	X11, I1, 2, 12, 13R, 13G, UI, SPI	J-SIB-HV-695

SCHEME E-S124-BC-1
VALVE J-SIB-HV-695

- NOTES:
1. FOR LEGEND AND GENERAL NOTES REFER TO DWGS 13-E-ZZB-001 THROUGH 007.
 2. ○ DENOTES EQUIPMENT NUMBER. FOR COMPLETE EQUIPMENT NUMBER REFER TO CABLING BLOCK DIAGRAM
 3. KEYLOCK REQUIRED ON CS-1, KEY REMOVABLE IN NORMAL POSITION ONLY.
 4. ELEMENTARY DIAGRAM SHOWN IS FOR VALVE HV-687. VALVE HV-695 IS SIMILAR EXCEPT AS NOTED OR INDICATED IN CABLING BLOCK DIAGRAM
 5. SIA5 DENOTES SAFETY INJECTION ACTUATION SIGNAL. V/P N001-13.06-37
 6. INFORMATION IN BRACKETS [] REFERS TO J-SIB-HV-695.

PRC
APERTURE
CARD
Doc# 50-428/529/530
Control # 8204190302
Date 8/21/02
REGULATORY DOCUMENT FILE

CERTIFIED DRAWING

8204190302

NUCLEAR SAFETY RELATED

BECHTEL
LOS ANGELES
ARIZONA NUCLEAR POWER PROJECT
PALO VERDE NUCLEAR
GENERATING STATION

ELEMENTARY DIAGRAM
SAFETY INJECTION SHUTDOWN CLG SYSTEM
CONTAINMENT SPRAY ISOLATION VALVES
J-SIA-HV-687 & J-SIB-HV-695

SCALE	NONE	JOB NO.	DRAWING NO.	REV.
		10407	13-E-SIB-024	2

NO.	DATE	REVISIONS	DR	CHK	DGS	ENG	ESG	CHP	PRM	ENG	NO.	DATE	REVISIONS	DR	CHK	DGS	ENG	ESG	CHP	PRM	ENG
1	10/1/01	ISSUED FOR CONSTRUCTION									2	10/1/01	INCORP. DCN 1 & MISC. REV.								
2	10/1/01	REVISED ALARM CIRCUIT									3	10/1/01	ISSUED FOR CONSTRUCTION								

14.5X

I CERTIFY THAT THE IMAGE CONTAINED ON THIS FRAME WAS MADE IN THE NORMAL AND REGULAR COURSE OF BUSINESS, ON THE DATE STATED BELOW AND THAT IT IS AN ACCURATE REPRODUCTION OF THE DOCUMENT SUBMITTED TO MICROGRAPHICS.

SECTION SUPERVISOR

DATE: 12-16-81 CAMERA OPERATOR

BECHTEL

PALO VERDE NUCLEAR GENERATING STATION UNITS 1, 2 & 3
DRAWING CHANGE NOTICE (DCN)
JOB NO. 10407

UNIT	ASSIGNEE *		
A	C	S	O
1	C	S	O
2	C	S	O
3	C	S	O

CIRCLE APPLICABLE UNIT(S) AND ASSIGNEE
* C - CONSTRUCTION S - STARTUP O - OWNER

DRAWING NO.	SHEET NO.	REV.	DCN NO.
13-E-SIB-024		2	2

JOB NO. 10407 PAGE 1 OF 1
DATE: 11-20-81 BY: R. BODDULA

CHANGE REQUESTED BY: ☒ CLIENT ☒ ENGINEERING ☐ FIELD ☐ SUPPLIER/CONTRACTOR

REASON FOR CHANGE: ICSB DRAWING REVIEW (TASK #35)

DESCRIPTION OF CHANGE
IN THE SAFETY EQUIPMENT INOPERABLE STATUS CIRCUIT,
CHANGE

FROM

TO

AFFECTED EQUIPMENT: VALVES J-SIA-HV-678 &
J-SIB-HV-679
12-11-81

MATERIAL PROCUREMENT RESPONSIBILITY

AFFECTED PURCHASE ORDERS		PM OR MR PREPARED FOR DCN CHANGE
<input type="checkbox"/> BECHTEL OFFICE	<input type="checkbox"/> SUPPLIER/CONTRACTOR	YES
<input type="checkbox"/> BECHTEL FIELD	<input checked="" type="checkbox"/> NONE REQUIRED	NO

GROUP SUPERVISOR: 12/4/81
PROJECT ENGINEER: 12/7/81
NUCLEAR GROUP SUPERVISOR (IF REQUIRED): 12/8/81
PQAE (Q-LISTED P&ID'S AND SINGLE LINE DWGS): 12/8/81

REMARKS: NO CHANGE IN THE QUANTITY OF CIRCUITS IN EE 580
DCN TO FOLLOW: SS-SI-06 TO DATE - 10-9-81

ADDITIONAL DISTRIBUTION: ☐ PROJECT PROCUREMENT MANAGER ☐ COST TREND ENGINEER

PF-1531 (10407) 3/81

CERTIFIED DRAWING

PRC
APERTURE
CARD

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DATE: 12-16-81 CAMERA OPERATOR

SECTION SUPERVISOR

Docket # 60-529/529/830
Control # 8204190292
Date 8/24/12 of Document
REGULATORY DOCKET FILE

8204190302-01