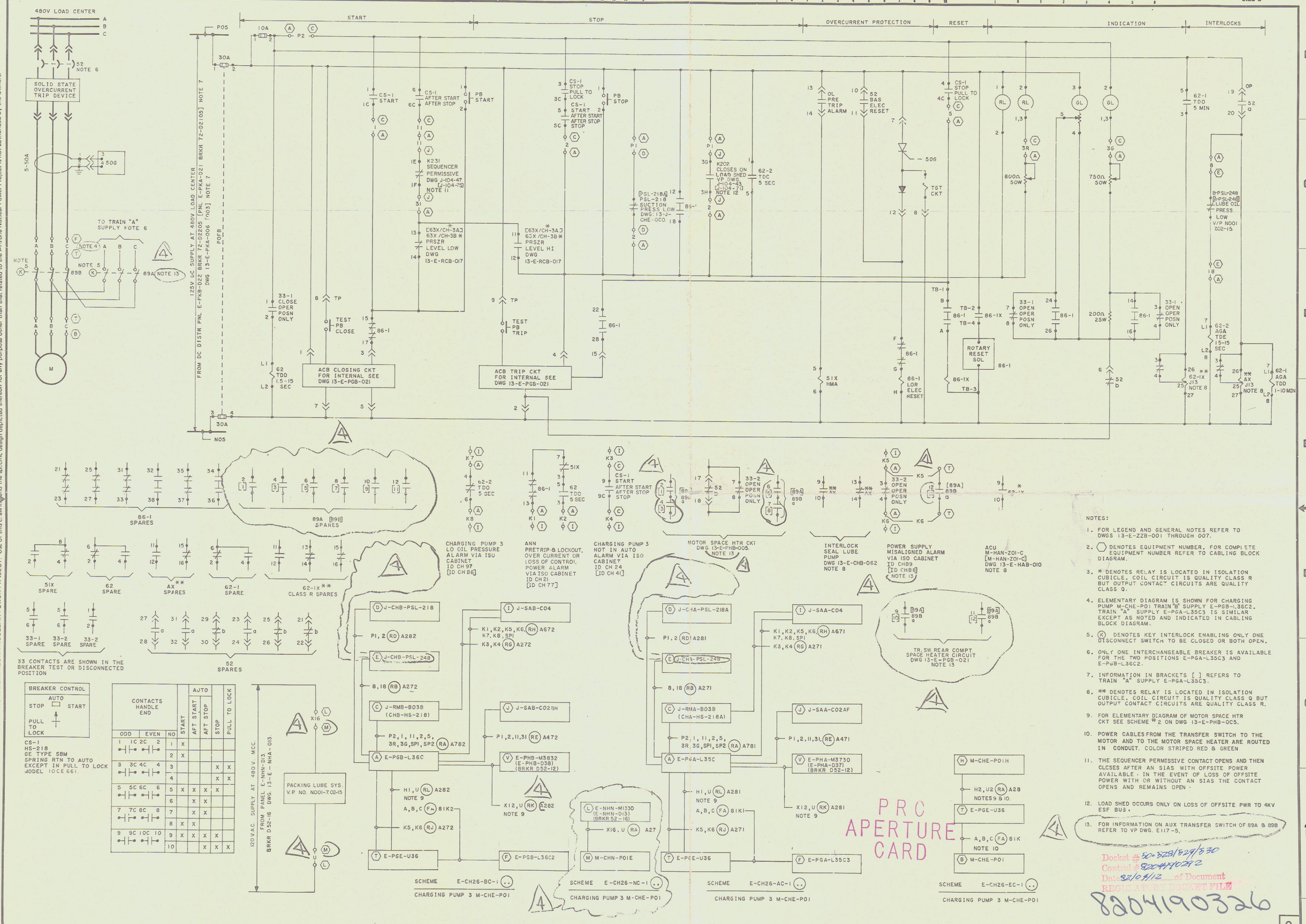

NOTES:

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. * DENOTES RELAY IS LOCATED IN ISOLATION CUBICLE. COIL CIRCUIT IS QUALITY CLASS R BUT OUTPUT CONTACT CIRCUITS ARE QUALITY CLASS Q.
4. ELEMENTARY DIAGRAM IS SHOWN FOR CHARGING PUMP M-CHE-P01 TRAIN "B" SUPPLY E-PGB-L36C2. TRAIN "A" SUPPLY E-PGA-L35C3 IS SIMILAR EXCEPT AS NOTED AND INDICATED IN CABLING BLOCK DIAGRAM.
5. (K) DENOTES KEY INTERLOCK ENABLING ONLY ONE DISCONNECT SWITCH TO BE CLOSED OR BOTH OPEN.
6. ONLY ONE INTERCHANGEABLE BREAKER IS AVAILABLE FOR THE TWO POSITIONS E-PGA-L35C3 AND E-PGB-L36C2.
7. INFORMATION IN BRACKETS [ ] REFERS TO TRAIN "A" SUPPLY E-PGA-L35C3.
8. ** DENOTES RELAY IS LOCATED IN ISOLATION CUBICLE. COIL CIRCUIT IS QUALITY CLASS Q BUT OUTPUT CONTACT CIRCUITS ARE QUALITY CLASS R.
9. FOR ELEMENTARY DIAGRAM OF MOTOR SPACE HTR CKT SEE SCHEME #2 ON DWG 13-E-PHB-005.
10. POWER CABLES FROM THE TRANSFER SWITCH TO THE MOTOR AND TO THE MOTOR SPACE HEATER ARE ROUTED IN CONDUIT. COLOR STRIPED RED & GREEN
11. THE SEQUENCER PERMISSIVE CONTACT OPENS AND THEN CLOSES AFTER AN SIAS WITH OFFSITE POWER AVAILABLE. IN THE EVENT OF LOSS OF OFFSITE POWER WITH OR WITHOUT AN SIAS THE CONTACT OPENS AND REMAINS OPEN.
12. LOAD SHED OCCURS ONLY ON LOSS OF OFFSITE PWR TO 4KV ESF BUS.
13. FOR INFORMATION ON AUX TRANSFER SWITCH OF 89A & 89B REFER TO VP DWG. E117-5.

NUCLEAR SAFETY RELATED

DWG. NO.	REFERENCE
N001-7.02-15	GAULIN CORP. V/P D15427
E117-5	GOLDEN GATE DWG. 79023
13-M-CHP-002	P & I DIAGRAM
13-E-PGA 005,006	SINGLE LINE DIAGRAM
N001-20.01-36	C-E E/D B-SYS 80-414-302 SH. 2

NO.	DATE	REVISIONS	DR	CH'K	DGS	ENG	EGS	CHF ENG	PRJ ENG
4	2/12/82	INCORPORATED D.C.N. 6 AND GENERAL REVISION.		I.T.	ST				
3	2/25/81	INCORPORATED D.C.N'S 2,3,4 & 5 MADE GENERAL REVISIONS.			ST				
2	10/31/79	INCORP DCN # 1 & GEN REV		I.T.	ST				
1	8/24/77	ADDED CE & ITE INFORMATION	PTS		ST				
0	7/13/77	ISSUED FOR CONSTRUCTION	DDI		ST				

BECHTEL
LOS ANGELES

ARIZONA NUCLEAR POWER PROJECT
PALO VERDE NUCLEAR GENERATING STATION

ELEMENTARY DIAGRAM
CHEMICAL & VOLUME CONTROL SYSTEM
CHARGING PUMP 3
M-CHE-P01

SCALE	JOB NO.	DRAWING NO.	REV.
NONE	10407	13-E-CHB-026	4

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