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- INDICATING LIGHTS ONLY**
- STOP
  - RESET
  - ON
  - START
  - START
  - MOTOR RESET DELAY
  - LOCAL CONTROL
  - SAFETY CIRCUIT
  - LCRD RECYCLE
  - PROGRAM TIMER ON
  - ON
  - 125VDC POWER AVAILABLE
- 125 VDC INDICATING LIGHT**
- STOP
  - RESET
  - ON
  - START
  - MOTOR RESET DELAY
  - LOCAL CONTROL
  - SAFETY CIRCUIT
  - LCRD RECYCLE
  - PROGRAM TIMER ON
  - ON
  - 125VDC POWER AVAILABLE
- 120 VAC INDICATING LIGHTS**
- STOP
  - RESET
  - ON
  - START
  - MOTOR RESET DELAY
  - LOCAL CONTROL
  - SAFETY CIRCUIT
  - LCRD RECYCLE
  - PROGRAM TIMER ON
  - ON
  - 125VDC POWER AVAILABLE
- 125 VDC INDICATING LIGHT**
- STOP
  - RESET
  - ON
  - START
  - MOTOR RESET DELAY
  - LOCAL CONTROL
  - SAFETY CIRCUIT
  - LCRD RECYCLE
  - PROGRAM TIMER ON
  - ON
  - 125VDC POWER AVAILABLE

- NOTES:**
- SEE SHEET 1, NOTE 1.
  - TWO INPUTS ARE PROVIDED FOR WIRE NUMBER P3. THE RETURN OF ONE INPUT IS CONNECTED TO WIRE NUMBER N1 TO MONITOR CIRCUIT BREAKER OPERABILITY WHEN TRIPPED. THE RETURN OF THE OTHER INPUT IS CONNECTED TO WIRE NUMBER 2 TO MONITOR CIRCUIT BREAKER OPERABILITY AND TRIP COIL CONTINUITY WHEN CLOSED. THE "AND" GATE IDENTIFIED BY AN \* IS FORMED BY THE LATTER CONNECTION AND IS NOT PART OF THE SOLID STATE LOGIC.
  - POWER TO THE OUTPUT DRIVER CONTACTS FOR THE CLOSE CIRCUIT IS SUPPLIED BY WIRE NO "P3".
  - VENDOR'S TERMINAL CONNECTION POINTS ARE SHOWN IN ○
  - RCP BC490 IS WIRED AND FURNISHED BY CHILLER VENDOR.
  - "PVTO" NOT USED
  - CONTACTS OPEN ON CONDITION STARTED.
  - SEE SHEET 7 FOR LOGIC WITHIN REMOTE SHUTDOWN PANEL.

**BK400 COMPRESSOR MOTOR CLASS 1B CHANNEL D**

**CROSS REFERENCE TABLE**

CHILLER	CLASS 1B CHANNEL	SWITCHGEAR	BREAKER	RCP	HS-	PD5L-	TERM. CAB	LOGIC CAB	CONSOLE	RSP
BK400	D	A404	52-40412	BC490/BC491	9652B1	2402B	DC657	DC652	CC51E	C399
BK403	B	A402	52-40211	BC487/BC488	9666B1	2554	BC657	BC652		

  

FSL	COMP PT	OIAC	SEQ START	PROC START INHIBIT	BYPASS IND	4KV BUS FAIL	RSP TAKEOVER LIGHT	RSP TAKEOVER CH. TRANSFER
9646B2	D4623	CG63	J-105 SH 10 ARR EY	J-105 SH 10 ARR HB	J-101 SH 13 ARR AB	J-106 SH 5 ARR FQ	J-103 SH 3 ARR EB	J-103 SH 3 ARR CV
9666B1	D543B	CG63	J-105 SH 6 ARR AA	J-105 SH 6 ARR AB	J-101 SH 13 ARR IJ	J-106 SH 3 ARR ID	J-103 SH 2 ARR Z	J-103 SH 5 ARR BA

**PRO APERTURE CARD**

NO.	DATE	REVISION	BY	CHKD	APP'D	REASON
1	11-78	ISSUED FOR CONSTRUCTION				
2	11-78	REVISED AND REDRAWN				
3	11-78	REVISED SAFETY INTERFACE AND AS NOTED				
4	11-78	REVISED AS NOTED FOR DESIGN FREEZE				

**BECTEL**  
SAN FRANCISCO

**PUBLIC SERVICE ELECTRIC AND GAS COMPANY**  
HOPE CREEK GENERATING STATION

**LOGIC DIAGRAM**  
RUX. 8LOG CONTROL AREA CHILLED WATER SYSTEM  
CHILLER BK400/BK403 COMPRESSOR MOTOR

JOB NO.	DRAWING NO.	REV.
10855	H-90-0 SHT 3 Q	3

**24X**

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**DANNY**  
Customer Operator

**MRC**

RIDS

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