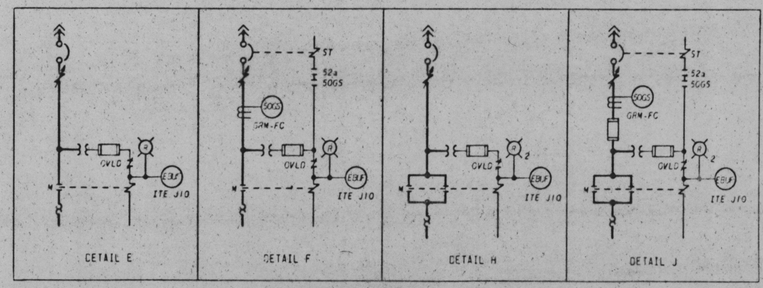
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
A1	MAIN BREAKER	2EI-52NA-62F-A	SEE KEY DIAG		
B1	ZONE 2A ESSENTIAL ELEC EQPT ROOM SUPPLY FAN	2VA-EMOT-015-A	E	7.5 HP	5GW2740-VA-03
B2	MKUP/HPI PUMP 2A2-A LUBE OIL PUMP	2NV-EMOT-858-A	E	1 HP	5GW2740-NV-05
B3	SPARE	2EI	C		
B4	DUMP TO SUMP ISOLATION MOV	2ND-IFCV-235-A	R	0.7 HP	5GW2740-ND-12
B6	FUTURE - 12 INCH	2EI			
C1	ERCW OUTLET RBC UNIT 2A1-A MOV	2KE-IFCV-275-A	H	0.33 HP	5GW2740-KE-22
C2	AFW TO STEAM GEN 2A FROM ELEC AFW PUMP 2A MOV	2CA-IFCV-037-A	H	1.6 HP	5GW0640-CA-13
C3	ERCW SUCTION SUPPLY TO AFW PUMP 2A MOV	2CA-IFCV-030-A	H	0.5 HP	5GW0640-CA-06
C4	DHR LPI CROSSCONNECT ISLN MOV	2ND-IFCV-048-A	H	1.6 HP	5GW2740-ND-05
C5	ZONE 2A MECH EQPT ROOM EXHAUST FAN	2VA-EMOT-023-A	F	50 HP	5GW2740-VA-04
D1	ERCW SUPPLY HDR 2A TO WASTE DISPOSAL MOV	2KE-IFCV-400-A	H	0.13 HP	5GW2740-KE-20
D2	ERCW INLET RBC UNIT 2A1-A MOV	2KE-IFCV-268-A	H	0.33 HP	5GW2740-KE-22
D3	DHR PUMP 2A-A SUCTION FROM RB INNER SUMP MOV (DH-HV93)	2ND-IFCV-098-A	H	0.7 HP	5GW2740-ND-08
D4	ERCW SUPPLY HDR 2A TO 1A MOV	2KE-IFCV-161-A	H	2.6 HP	5GW2740-KE-15
D5	ERCW SUCTION SUPPLY TO SWP PUMP MOV	2CA-IFCV-029-A	H	0.5 HP	5GW0640-CA-05
D6	ERCW SUPPLY HDR 2A TO WASTE DISPOSAL MOV	2KE-IFCV-402-A	H	0.13 HP	5GW2740-KE-20
E1	RBS SUPPLY FROM TANK 1A MOV (RBS-HV104)	2NS-IFCV-081-A	H	0.46 HP	5GW0640-NS-05
E2	RBS SUPPLY 2A MOV (RBS-HV44)	2NS-IFCV-031-A	H	4 HP	5GW0640-NS-06
E3	CNTMT ISOLATION VALVE BLEED TO WG A SAMPLE	2NL-IFCV-150-A	H		5GW0640-NL-10
E4	SPARE	2EI	H		
E5	ERCW BOOSTER PUMP 4HU	2VA-EMOT-314-A	E	7.5 HP	5GW2740-VA-09
E6	FUTURE - 12 INCH	2EI			
F1	DHR PUMP 2A-A SUCTION FROM RWST MOV (DH-HV74)	2ND-IFCV-010-A	H	1.9 HP	5GW2740-ND-10
F2	SPENT FUEL COOLER 2A INLET MOV (FC-HV114)	2KC-IFCV-164-A	H	0.33 HP	5GW2740-KC-19
F3	ERCW HDR 2A TO SPENT FUEL POOL MOV	2KE-IFCV-181-A	H	0.33 HP	5GW2740-KE-16
F4	AFW ELEC PUMP DISCHARGE TO UNIT HDR 1A1-A MOV	2LA-IFCV-087-A	H	1.6 HP	5GW0640-CA-04
F5	CNTMT ISLN VALVE MAKE UP & PURIFICATION TO CF TANK 1	2NL-IFCV-149-A	H		5GW0640-NL-10
F6	SPARE	2EI	E		
G1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
G2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
G4	FUSE COMPT		SEE KEY DIAG		
G5	MCC CONTROL TRANSFORMER 2ND DISCONNECT SWITCH		SEE KEY DIAG		
H1L	ALT FOR 1P-125V DC LIE BAT CHGR	2EU-EBC-54-S	A	3 KVA	5GW2640-EU-01
H1R	SPARE	1EI	A		
H2	SPARE	2EI	E		
H3	FUTURE - 12 INCH	2EI			
H4	CHR INJECTION MOV (CH-HV18)	2ND-IFCV-080-A	H	26 HP	5GW2740-ND-11
H6	FUTURE - 6 INCH	2EI			
J1	SPARE	2EI	E		

COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
J2	MAKEUP HPI PUMP 2A2-A ROOM AU	2VA-EMOT-849-A	E	7.5 HP	5GW2740-VA-06
J3	SPARE	2EI	J		
J4	SPENT FUEL COOLER 2A OUTLET MOV (FC-HV139)	2KC-IFCV-373-A	H	0.33 HP	5GW2740-KC-19
J5	RBS-DHR PUMP SUCTION MOV (RBS-HV-4A)	2NS-IFCV-105-A	H	0.66 HP	5GW0640-NS-07
J6	FUTURE-6 INCH	2EI			
K1	SPARE	2EI	E		
K2	BORIC ACID PUMP 2B-B	2NB-EMOT-006-A	E	15 HP	5GW2740-NB-07
K3	ELEC AFW PUMP 2A-A RM AHU	2VA-EMOT-050-A	E	10 HP	5GW2740-VA-06
K4	ZONE 2A ESSENTIAL ELEC EQPT ROOM FAN FAN	2VA-EMOT-033-A	E	10HP	5GW2740-VA-05
K5	DHR PUMP 2A-A AUX LUBE PUMP	2ND-EMOT-216-A	E	1 HP	5GW2740-ND-04
K6	SPARE	2EI	H		
L1	RBS PUMP 2A-A ROOM AHU	2VA-EMOT-051-A	E	15 HP	5GW2740-VA-06
L2	SPARE	2EI	E		
L3	DHR PUMP 2A-A ROOM AHU	2VA-EMOT-052-A	E	15 HP	5GW2740-VA-06
L4	DHR LETDOWN MOV (DH-HV11B)	2ND-IFCV-185-A	J	3.5 HP	5GW2740-ND-09
L5	DHR LETDOWN MOV (DH-HV12A)	2ND-IFCV-085-A	J	3.5 HP	5GW2740-ND-06
M1	ZONE 2A SSCS ROOM AHU	2VA-EMOT-240-A	E	7.5 HP	5GW2740-VA-08
M2	CNTMT ISLN VALVE MKUP & PURIFICATION TO CF TANK 2	2NL-IFCV-151-A	H		5GW0640-NL-11
M3	ZONE 2A FAN ROOM AHU	2VA-EMOT-042-A	E	7.5 HP	5GW2740-VA-07
M4	ZONE 2A MECH EQPT ROOM SUPPLY FAN	2VA-EMOT-009	T	5 HP	5GW2740-VA-02
M5L	SPARE	2EI	A		
M5R	ZONE 2A ANTR CHILLER OIL PUMP	2VE-EMOT-300-A	A	1 KVA	5GW2740-VE-04
M6	FUTURE-12 INCH				
S1	PJ COOLING FAN 2VJ-EMOT-035-A	2VJ-ECMS-035-A	X	N/A	



NOTES:

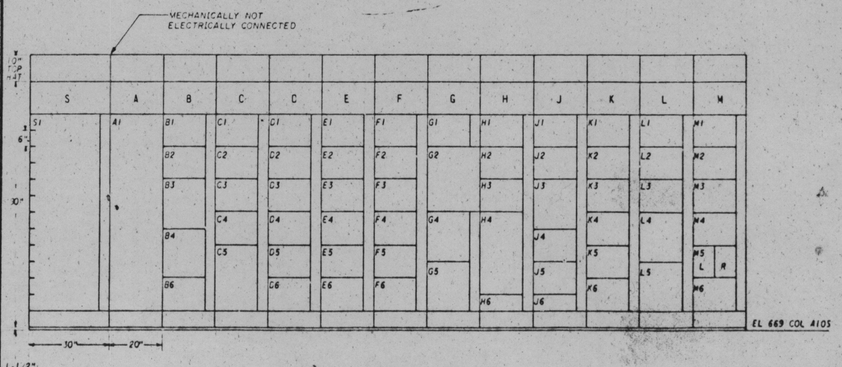
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-36242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3p, 65OV WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "ME" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 1p, 150A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "BQ" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FCRN 600, MIDGET TYPE 2.
5. FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "J" CURRENT LIMITING. FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
6. ALL CONTROL TRANSFORMERS ARE 1Ø, 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNQ FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRM FUSE.
7. GROUND FAULT PROTECTION (50GS), ITE TYPE GRM-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
8. THE PRIMARY OF THE 5 KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMANN TYPE JHC-15 FUSE.
9. THE MOTOR CONTROL CENTER ARRANGEMENT IS CONTROLLED BY THE FRONT VIEW LOCATED ON THIS DRAWING. COMPARTMENT CONFIGURATION CONTROL DRAWINGS ARE REFERENCED IN THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE. THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE DOCUMENTS DEVICE RATINGS AND ALL ADJUSTABLE CIRCUIT BREAKER SETTINGS.
10. THIS MCC IS CLASS 1E.
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2EX2-A	2AW2728-EI-1
480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW2740-EI-11
480V MCC COMPARTMENT TYPICALS	5PW0747-RP
480V MCC 2E2-A COMPUTERIZED CIRCUIT SCHEDULE	5AC2764-EI

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438
Control # 830505536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

COMPANION DWG:
5AW2734-EI-03
5AW2734-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

REV	DESCRIPTION
4	S1, 1B1 ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SHEET 3. DELETE "VK" SYS LOAD FROM COMPT K1
3	1174, S1 CORRECTED UNIDS, ADDED IFCV'S 149, 150, 151
2	S1 RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4
1	S1, B3 INCORPORATED CNTD SYS. DEN. REV PER ECN 51. VARIOUS INCREASE AMJ CAPACITIES AND ADD AMJ PER ECN 33

DESIGN BUGER, Q. HALL
DRAWN R.E. WILLIAMS
CHKD D.M. LASSETER
SUPV A.H. MARRIOTT
MSP
ENGINEER C.T. Garner

SCALE: NTS — EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 2

SINGLE LINE
480V MCC 2E2-A
2EI-EMCC-62-A

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
Q

SUBMITTED	RECOMMENDED	APPROVED
C.T. Garner	C.T. Garner	C.M. Colyer

KNOXVILLE | 12-6-74 | 88 | E | 5AW2734-EI-1 | R4

RECORD DRAWING AS CONSTRUCTED