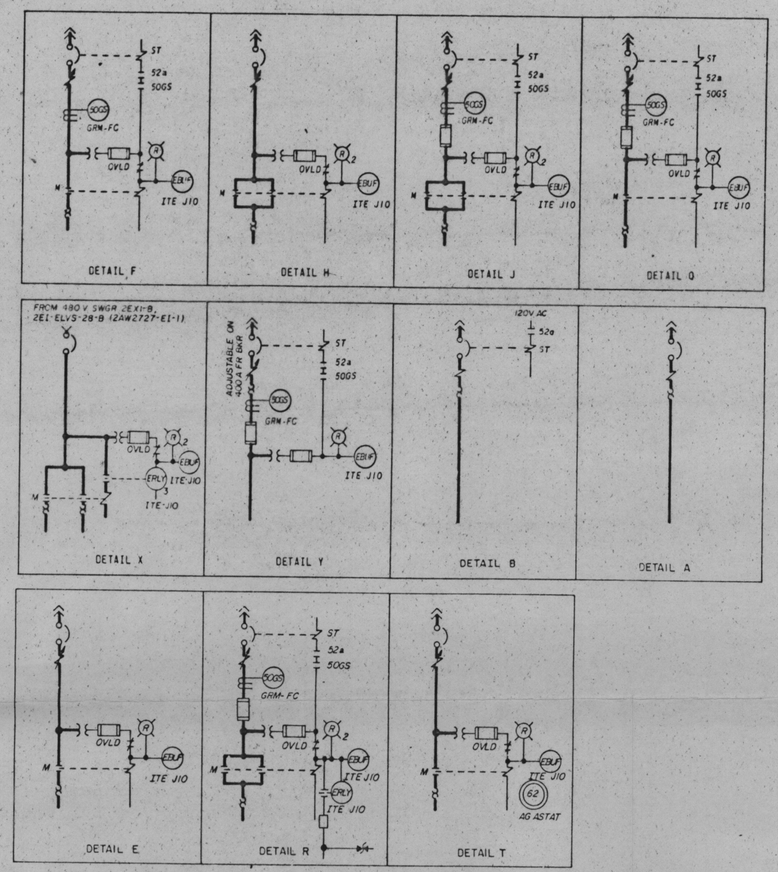
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DRAWING REFERENCE
A1	MAIN BREAKER	2EI-52NA-66F-B	SEE KEY DIAG		
B1	ZONE 2B WATER CHILLER AREA AHU	2VA-EMOT-132-B	E	20 HP	5GW2740-VA-16
B2	ZONE 2B ESSENTIAL ELEC EQPT ROOM EXH FAN	2VA-EMOT-132-B	E	10 HP	5GW2740-VA-13
B3	FUTURE - 12 INCH	2EI			
B4	MKUP LETDOWN OUTLET ISOLATION MOV (MU-HV2A)	2NV-IFCV-026-B	J	0.7 HP	5GW2740-NV-08
B5	MKUP LETDOWN OUTLET ISOLATION MOV (MU-HV2B)	2NV-IFCV-033-B	J	0.7 HP	5GW2740-NV-08
C1	CC WATER COOLER 007-B HX INLET MOV	2KC-IFCV-316-B	H	0.66 HP	5GW2740-KC-28
C2	MKUP HPI PUMP 2B1-B ROOM AHU	2VA-EMOT-138-B	E	7.5 HP	5GW2740-VA-14
C3	ZONE 2B CCS PUMP ROOM AHU	2VA-EMOT-139-B	E	15 HP	5GW2740-VA-14
C4	DUMP TO SUMP ISOLATION MOV	2ND-IFCV-238-B	R	0.7 HP	5GW2740-ND-13
C5	LETDOWN LINE DUMP TO SUMP ISOLATION MOV	2ND-IFCV-239-B	R	0.7 HP	5GW2740-ND-14
D1L	NOR PDR SP 125VDC LIE BAT CHGR	2EU-EBC-55-S	A	44 KVA	5GW2640-EU-02
D1R	ZONE 2B RTH CHILLER OIL PUMP	2VE-EMOT-302-B	A	8 KVA	5GW2740-VE-07
D2	SPARE	2EI	E		
D3	ZONE 2B 125V VITAL BATTERY RM AHU	2VA-EMOT-135-B	E	10 HP	5GW2740-VA-15
D4	SPARE	2EI	E		
D5	SPARE	2EI	E		
E1	HYDROGEN RECOMBINER 2B-B	2NO-EHTR-005-B	Y	75KW	5GW0640-NO-05
E4L	CNTMT HYDROGEN ANALYZER	2EX-IXPR-902-B	A	6.6 KVA	5GW0640-NO-07
E4R	SPARE	2EI	A		
E5	FUTURE - 12 INCH	2EI			
E6L	HEAT TRACING SYSTEM FOR	2MC-ET-3A	B	15 KVA	5GW1740-MC-02
E6R	HEAT TRACING SYSTEM FOR	2MC-ET-12A	B	20 KVA	5GW2740-MC-05
F1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
F2	120V-1P CKT BKR COMPT		SEE KEY DIAG		
F4	FUSE COMPT		SEE KEY DIAG		
F5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
G1	SPARE	2EI	Q		
G2	SPARE	2EI	J		
G4	ZONE 2B MECH EQPT ROOM SUPPLY FAN	2VA-EMOT-130-B	T	10 HP	5GW2740-VA-10
G5	ZONE 2B ESSENTIAL ELEC EQPT ROOM SUPPLY FAN	2VA-EMOT-128-B	E	7.5 HP	5GW2740-VA-11
G6	ZONE 2B EL 669 ESSENTIAL ELEC EQPT ROOM AHU	2VA-EMOT-136-B	E	20 HP	5GW2740-VA-15
H1	MKUP PUMP RECIRCULATION MOV (MU-HV498)	2NV-IFCV-411-B	H	1.6 HP	5GW2740-NV-13
H2	MKUP HPI TO RCP P2B1 MOV (MU-HV51C)	2NV-IFCV-213-B	H	0.5 HP	5GW2740-NV-16
H3	MKUP HPI TO RCP P2B2 MOV (MU-HV51D)	2NV-IFCV-225-B	H	0.5 HP	5GW2740-NV-16
H4	ERCW INLET RBC UNIT 2B1-B MOV	2KE-IFCV-310-B	M	0.33 HP	5GW2740-KE-23
H5	DHR TO MKUP/HPI PUMP MOV	2ND-IFCV-162-B	M	0.66 HP	5GW2740-ND-07
H6	ERCW SUPPLY HCR B TO DSL GEN 2B-B HX MOV	2KE-IFCV-296-B	M	0.13 HP	5GW2740-KE-19
J1	TRAIN 2B HPI PUMP SUCTION FROM BWST MOV (MU-HV47B)	2NV-IFCV-413-B	H	1.66 HP	5GW2740-NV-12

COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DRAWING REFERENCE
J2	ERCW OUTLET RBC UNIT 2B1-B MOV	2KE-IFCV-316-B	H	0.33 HP	5GW2740-KE-23
J3	FUTURE - 18 INCH	2EI			
J4	TRAIN B TO TRAIN A SEAL INJ ISLN MOV	2NV-IFCV-536-B	H	0.7 HP	5GW2740-NV-14
J5	HYDROGEN RECIRCULATION FAN	2NO-EMOT-001-B	Q	20 HP	5GW0640-NO-02
K1	MKUP LETDOWN SHUTOFF INLET MOV (MU-HV1C)	2NV-IFCV-022-B	J	0.66 HP	5GW2740-NV-17
K2	MKUP LETDOWN SHUTOFF INLET MOV (MU-HV1C)	2NV-IFCV-029-B	J	0.66 HP	5GW2740-NV-17
K4	RCP P2A1 MKUP SEAL RETURN MOV (MU-HV37A)	2NV-IFCV-062-B	J	0.33 HP	5GW2740-NV-09
K5	RCP P2A2 MKUP SEAL RETURN MOV (MU-HV37B)	2NV-IFCV-065-B	J	0.33 HP	5GW2740-NV-09
L1	RCP P2B1 MKUP SEAL RETURN MOV (MU-HV37C)	2NV-IFCV-068-B	J	0.33 HP	5GW2740-NV-10
L2	RCP P2B2 MKUP SEAL RETURN MOV (MU-HV37D)	2NV-IFCV-071-B	J	0.33 HP	5GW2740-NV-10
L4	CC WATER COOLER 007-B HX BYPASS MOV	2KC-IFCV-317-B	H	0.66 HP	5GW2740-KC-28
L5	ZONE 2B MECH EQPT ROOM EXHAUST FAN	2VA-EMOT-092-B	F	40 HP	5GW2740-VA-12
M1	RB CC OUTLET ISOLATION MOV (CC-HV1)	2KC-IFCV-211-B	J	0.66 HP	5GW2740-KC-14
M2	RB CC OUTLET ISOLATION MOV (CC-HV24)	2KC-IFCV-148-B	J	0.66 HP	5GW2740-KC-09
M4	MKUP/HPI PUMP 2B1-B LUBE OIL PUMP	2NV-EMOT-838-B	E	1 HP	5GW2740-NV-06
M5	MKUP DUMP TO SUMP 3 WAY MOV	2NV-IFCV-051-B	J	0.33 HP	5GW2740-NV-11
M6	FUTURE - 6 INCH	2EI			
S1	RB COOLING FAN 2VJ-EMOT-034-B	2VJ-ECMS-034-B	X		



NOTES:

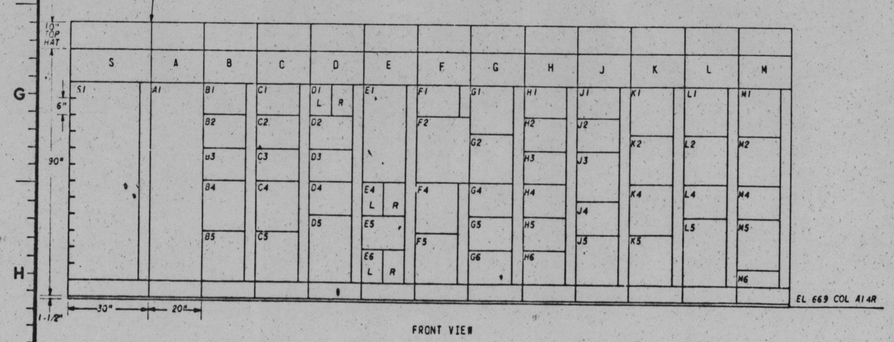
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76KS-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3Φ, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HE" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS AR 1Φ, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "BQ" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 600, WIDGET 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 1Φ, 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 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 2EXI-B. . . . 2AW2727-EI-1
480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC. 5GW2740-EI-10
480V MCC COMPARTMENT TYPICALS 5GW0747-RP
480V MCC 2EI-B COMPUTERIZED CIRCUIT SCHEDULE. . 5AC2763-EI

SYMBOLS:

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



NO	ECN NO	DATE	DSGN	DRWN	CHK	SUPV	ENGR	SUPR	TURN	REVW	APPR
7	S1	1-10-93									
ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLE, REVISED NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SHEET 3											
6	1299	6-1-92									
RELOCATE AND DECLASSIFY "MC" SYSTEM LOADS											
5	851,1299	4-25-91									
ADDED "IX" SYSTEM LOAD TO COMPT E4L ADDED "MC" SYSTEM LOAD TO COMPT B3R											
4	1006	12-16-0									
ADDED LOAD											
3	613,51	3-11-90									
ADDED LOADS, CORRECT UNID											
2	S1	1-5-90									
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4											
1	S1,83	11-28-8									
INCORPORATED UNID 593, DGN REV PER ECN 51 - VARIOUS. INCREASED CAPACITY OF SWG AND CHILLED WATER PUMP PER ECN 83.											

DESGN L. P. WOODLEY
DRWN B. SPENCER/A. HOLLAND
CHKD W. T. BOLHEDI
SUPV M. A. MARESSOW
ENGINEER C. T. Garner

SCALE: NTS — EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 2

SINGLE LINE
480V MCC 2EI-B
2EI-EMCC-66-B

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED C. T. Garner — RECOMMENDED A. R. Spencer — APPROVED R. M. Hodges

KNOXVILLE 12-6-76 / 88 | E | 5AW2733-EI-1 | R7

RECORD DRAWING AS CONSTRUCTED

Docket # 50-438
Control # 8304050536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

COMPANION DWG:
5AW2733-EI-03
5AW2733-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRINT # 2
SIZE # 0

THIS SCEN. DRAWING IS 1:100