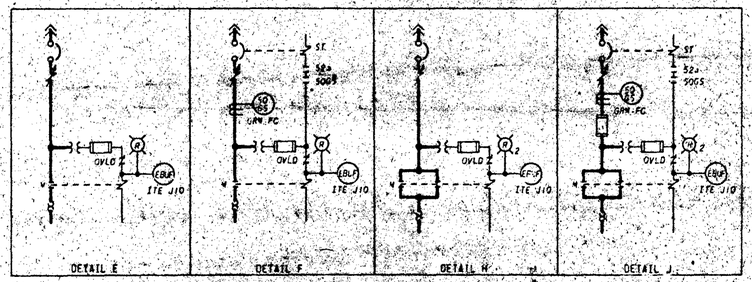
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
A1	MAIN BREAKER	1EI-52NA-62F-A	SEE KEY DIAG		
B1	FUTURE - 12 INCH	1EI	E		
B2	SPARE	1EI	E		
B3	RBS NAOH TANK 1A MOV (RBS - HV124)	INS-IFCV-081-A	H	0.67HP	5GW0640-NS-05
B4	ERCW OUTLET RBC UNIT 1A1-A MOV	IKE-IFCV-275-A	H	0.33HP	5GW1740-KE-22
B5	ZONE 1A MECH EQPT ROOM EXHAUST FAN	IVA-EMOT-023-A	F	0.50HP	5GW1740-VA-04
C1	LR CNTMT ISOLATION VALVE BLEED TO WD & SAMPLE	INL-IFCV-150-A	H		5GW0640-NL-10
C2	ERCW SUPPLY HDR 1A TO WASTE DISPOSAL MOV	IKE-IFCV-400-A	H	0.13HP	5GW1740-KE-20
C3	CHR PUMP 1A-A SUCT FROM RB EMER SUMP MOV (CH-HV94)	IND-IFCV-098-A	H	0.70HP	5GW1740-ND-08
C4	ERCW INLET RBC UNIT 1A1-A MOV	IKE-IFCV-268-A	H	0.33HP	5GW1740-KE-22
C5	CHR LPI CROSSCONNECT ISOLATION MOV	IND-IFCV-048-A	H	16 HP	5GW1740-ND-05
C6	SPARE	1EI	E		
D1	ERCW SUCTION SUPPLY TO AFW PUMP 1A MOV	ICA-IFCV-030-A	H	0.5HP	5GW0640-CA-06
D2	ERCW SUPPLY HDR 1A TO WASTE DISPOSAL MOV	IKE-IFCV-402-A	H	0.13HP	5GW1740-KE-20
D3	ERCW SUCTION SUPPLY TO AFW PUMP 1A MOV	ICA-IFCV-029-A	H	0.50HP	5GW0640-CA-05
D4	SPARE	1EI	E		
D5	SPARE	1EI	H		
D6	ERCW SUPPLY HDR 1A TO 2A MOV	IKE-IFCV-161-A	H	1 HP	5GW1740-KE-15
E1	RBS SUPPLY 1A MOV (RBS-HV44)	INS-IFCV-031-A	H	4 HP	5GW0640-NS-06
E2	AFW ELEC PUMP DISCHARGE CROSSCONNECT MOV	ICA-IFCV-087-A	H	16 HP	5GW0640-CA-04
E3	CHR PUMP 1A-A SUCTION FROM RWST MOV (CH-HV74)	IND-IFCV-010-A	H	1.9H.P	5GW1740-ND-10
E4	CONT BLDG ESF MCR AHU	QVK-EMOT-011-A	W	75 HP	5GW0640-VK-19
E6	FUTURE - 6 INCH	1EI			
F1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
F2	120V 1Ø CKT BKR COMPT		SEE KEY DIAG		
F4	FUSE COMPT		SEE KEY DIAG		
F5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
G1	ERCW SUPPLY MCR A TO UNIT 1 SPENT FUEL POOL MOV	IKE-IFCV-181-A	H	0.33HP	5GW1740-KE-16
G2	SPARE	1EI	J		
G3	CONT BLDG ESF MECH EQPT ROOM AHU	QVK-EMOT-015-A	E	7.5 HP	5GW0640-VK-19
G4	SPARE	1EI	F		
H1	RBS NAOH SUPPLY TO CHR PUMP SUCTION MOV (RBS-HV144)	INS-IFCV-105-A	H	0.06 HP	5GW0640-NS-07
H2	AFW TO ST GEN 1A FROM ELEC AFW PUMP 1A MOV	ICA-IFCV-037-A	H	1.6 HP	5GW0640-CA-13
H3	CNTMT ISOLN VALVE MKUP & PURIFICATION TO CF TANK F	INL-IFCV-149-A	H		5GW0640-NL-10
H4	CNTMT ISOLN VALVE MKUP & PURIFICATION TO CF TANK J	INL-IFCV-151-A	H		5GW0640-NL-11
H5	CONT BLDG CHILLED WATER PUMP	QVK-EMOT-003-A	F	50 HP	5GW0640-VK-17
J1	BORIC ACID PUMP 1B-B	INB-EMOT-008-A	E	15 HP	5GW1740-NB-07

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
J2	ELEC AFW PUMP 1A-A RM AHU	IVA-EMOT-050-A	E	10 HP	5GW1740-VA-06
J3	SPARE	1EI	E		
J4	SPARE	1EI	E		
J5	ZONE 1A SSCS ROOM AHU	IVA-EMOT-240-A	E	7.5HP	5GW1740-VA-08
J6	SPARE	1EI	E		
K1	ZONE 1A ESSENTIAL ELEC EQPT ROOM EXH FAN	IVA-EMOT-033-A	E	10HP	5GW1740-VA-05
K2	ZONE 1A MECH EQPT ROOM SUPPLY FAN	IVA-EMOT-009-A	T	15 HP	5GW1740-VA-02
K3	ZONE 1A FAN ROOM AHU	IVA-EMOT-042-A	E	7.5HP	5GW1740-VA-07
K4	SPARE	1EI	H		
K5	MKUP/HPI PUMP 1A2-A ROOM AHU	IVA-EMOT-049-A	E	75HP	5GW1740-VA-06
K6	SPARE	1EI	H		
L1	CHR PUMP 1A-A ROOM AHU	IVA-EMOT-052-A	E	15HP	5GW1740-VA-08
L2	MKUP HPI PUMP 1A2-A LUBE OIL PUMP	INV-EMOT-858-A	E	1 HP	5GW1740-NV-05
L3	RBS PUMP 1A-A ROOM AHU	IVA-EMOT-051-A	E	10HP	5GW1740-VA-06
L4	DUMP TO SUMP ISOLATION MOV	IND-IFCV-235-A	R	0.7 HP	5GW1740-ND-12
L5	SPARE	1EI	C		
M1L	ALT FOR SP 125V CL 1E BAT CHGR	1EU-EBC-34-S	A	44KVA	5GW1G40-EU-01
M1R	SPARE	1EI	A		
M2	CHR PUMP 1A-A AUX LUBE OIL PUMP	IND-EMOT-216-A	E	1 HP	5GW1740-ND-04
M3	ZONE 1A ESSENTIAL ELEC EQPT ROOM SUPPLY FAN	IVA-EMOT-015-A	E	75 HP	5GW1740-VA-03
M4	CHR LETDOWN MOV (CH-HV118)	IND-IFCV-185-A	J	95 HP	5GW1740-ND-09
M5	CHR LETDOWN MOV (CH-HV128)	IND-IFCV-085-A	J	25 HP	5GW1740-ND-06
N1	ERCW BOOSTER PUMP AHU	IVA-EMOT-314-A	E	75 HP	5GW1740-VA-09
N2L	CONT BLDG CHILLER OIL PUMP	QVK-EMOT-343-A	A	5 HP	5GW0640-VK-17
N2R	ZONE 1A MTR CHILLER OIL PUMP	IVK-EMOT-300-A	A	8 HP	5GW1740-VE-04
N3	FUTURE - 12 INCH	1EI			
N4	CHR INJECTION MOV (CH-HV1A)	IND-IFCV-080-A	H	264 HP	5GW174-ND-11
N6	FUTURE - 6 INCH	1EI			
S1	RB COOLING FAN IVJ-EMOT-035-A	IVJ-ECMS-035-A	X		5GW1740-VJ-02



NOTES

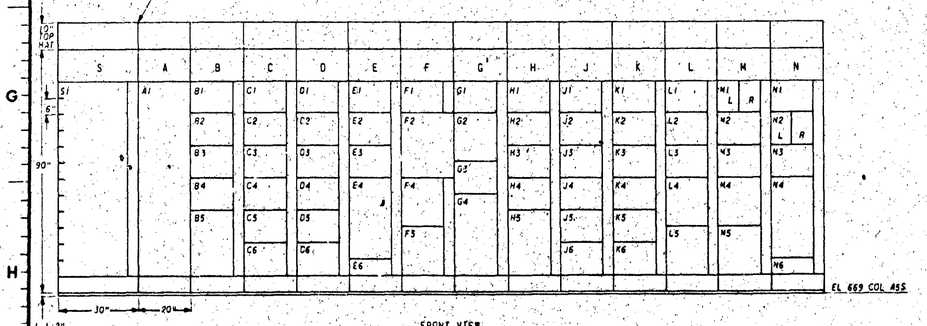
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 82PS-86242 BY GOULD/AEIE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE TO 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "ME" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE TO 100A FRAME THERMAL MAGNETIC WITH 15A TRIP, ITE "BQ" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT 250V TRIP FCAN 600 MITIGER TYPE T.
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 TO 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 4.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNQ FUSE. THE SECONDARY OF THE 250 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 5KVA 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 DIAGRAM 2GW0720-RP-01
480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 2AW1729-EI-1
480V MCC COMPARTMENT TYPICALS 5GW1740-EI-11
480V MCC 1E2-A COMPUTERIZED CIRCUIT SCHEDULE 5GW0747-RP
. . . . . 5AC1764-EI

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438
Control # 8304055536
Date 3-25-83
of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD

COMPANION DWG
SAW1734-EI-03
SAW1734-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

REV NO.	ECN NO.	DATE	DSN	PRP	CHK	SUPV	QUAL	ISSUE
3	1181							
2	5174							
1	5183	4-2-84						

ADDED LOAD SIZE AND SCH DWG REF COLUMN TO TABLES, REVISED NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SH 3 CORRECTED UNID IN COMPT MIL ADDED "NL" LOAD
RECORD DWG REV FOR THE MCC COMPUTERIZED CNT SCH HISTORICAL DATA BASE R4
INCORPORATED UNID SYS. GEN REV PER ECN 5I-VARIOUS. ADDED AMU, SHD INCREASED CAPACITIES OF 3HD PER ECN 57.

ORGN ROGER D. HALL
DRWN L. A. TEMPLETON 3-31-83
CHKD G. M. LASHLEY
SUPV W. L. ALDRIDGE
ENGINEER C. T. Garner

SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 1

SINGLE LINE 480V MCC 1E2-A 1EI-EMCC-62-A

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
Q

SUBMITTED	RECOMMENDED	APPROVED
C. T. Garner	G. L. Jones	R. M. Lodge

KNOXVILLE 2-6-84 | 88 | E | 5AW1734-EI-1 | 44

RECORD OF APPROVED AS CONSTRUCTED