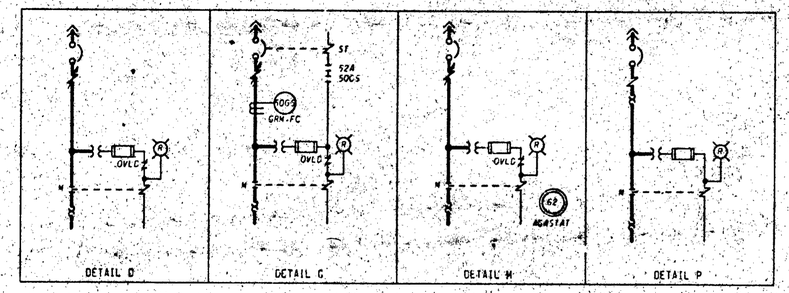
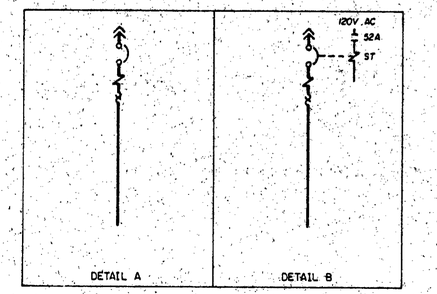
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-55F	SEE KEY DIAG		
B1	SPARE	1ED	D		
B2L	HEAT TRACING SYSTEM FOR	1MC-ET-8	A	30KVA	5GW1740-MC-04
B2R	HEAT TRACING SYSTEM FOR	1MG-ET-15	A	20KVA	5GW1740-MC-07
B3L	24V MICROWAVE BAT CHGR #1	1ET-EBC-1	A	7.5KVA	9GW7388-ET-01
B3R	48V DC BATTERY CHGR #1	1EW-EDC-1	A	14KVA	9GW7388-ET-01
B4	SPARE	1ED	D		
B5	SPARE	1ED	D		
B6L	SPARE	1ED	A		
B6R	EVAPORATOR PACKAGE, 1A	0NB-MEVP-036	A	25.45 KVA	5GW0740-NB-08
C1	BORIC ACID ADDITIONS TANK HTR A	0NB-EHTR-025A	P	9KW	5GW0740-NB-07
C2	CONCENTRATED BORIC ACID STORAGE TANK 1A HTR A	1NB-EHTR-027A	P	9KW	5GW1740-NB-06
C3	RC BLEED TRANSFER PUMP 1A1	1NB-EMOT-001	G	40HP	5GW1740-NB-05
C5	RC DISTILLATE TRANSFER PUMP 1A1	1NB-EMOT-011	G	40HP	5GW1740-NB-08
D1	SEC D BUS GRD RLY	1ED-50GS-55B	SEE KEY DIAG		
D3L	COM ZONE 480V RCPT A,B,C,D	1ED-ERCP-012	B		5GW1740-ED-16
D3R	3 TON PIPE CHASE H HOIST	0MM-MMHE-071	A	8.25KVA	5GW0740-MM-02
D4	FUTURE -36 INCH	1ED			
E1	CAUSTIC PUMP	0NB-EMOT-019	D	1HP	5GW0740-NB-04
E2	CAUSTIC MIX TANK AGITATOR	0NB-EMOT-035	D	0.33HP	5GW0740-NB-04
E3	RB NORMAL SUMP PUMP 1A2	1WL-EMOT-001	W	3HP	5GW1740-WD-02
E4	LITHIUM HYDROXIDE TANK AGITATOR	0NB-EMOT-014	D	0.33HP	5GW0740-NB-04
E5	BORIC ACID MIX TANK AGITATOR	0NB-EMOT-024	D	1HP	5GW0740-NB-04
E6	LITHIUM HYDROXIDE PUMP 1A	0NB-EMOT-017	D	0.5HP	5GW0740-NB-03
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	1ED	D		
G2	TRITIATED WASTE TRANSFER PUMP	0WL-EMOT-005	W	10HP	5GW0740-WD-03
G3	COMMON & FUEL HANDLING ZONE PREHEAT SECONDARY PMP	0VU-EMOT-076	D	2HP	5GW0740-VU-08
G4	EVAPORATOR DISTILLATE TEST TANK PUMP 1A	0NB-EMOT-010	D	15HP	5GW0740-NB-05
G5	COMMON ZONE EL 649 AHU	0VC-EMOT-049	G	40HP	5GW0740-VC-12
H1	DISTILLATE SEAL WATER TRANSFER PUMP 1A	0NB-EMOT-021	D	0.75HP	5GW0740-NB-10
H2	SF POOL SKIMMER PUMP 1A	1NM-EMOT-006	W	10HP	5GW1740-NM-03
H3	TRITIATED AUX BLDG SUMP PUMP A	0WL-EMOT-009	W	8HP	5GW0740-WD-06
H4L	6 TON DEMIN HOIST	0MM-MMHE-066	A	10.75KVA	5GW0740-MM-02
H4R	FUTURE-HALF COMPT	1ED			
H5	FUTURE -12 INCH	1ED			
H6	FUTURE -12 INCH	1ED			
J1	FUTURE -12 INCH	1ED			
J2	FUTURE -12 INCH	1ED			

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3	COMMON ZONE EL 629 AHU	0VC-EMOT-050	D	25HP	5GW0740-VC-04
J4	YARD DIESEL FUEL OIL TRANSFER PUMP	0FD-EMOT-001	D	10HP	5GW0740-FD-03
J5	YARD AUX BOILER FUEL OIL PUMP A	0FD-EMOT-003	D	10HP	5GW0740-FD-06
J6	SPARE	1ED	D		
K1	HYDRAZINE PUMP 1A	0NB-EMOT-015	D	0.5HP	5GW0740-NB-03
K2	SPARE	1ED	D		
K3	SPARE	1ED	D		
K4	SPARE	1ED	D		
K5	COMMON ZONE EL 686 AHU	0VC-EMOT-047	G	40HP	5GW0740-VC-12
L1	FUTURE - 24 INCH	1ED			
L3L	FUEL HANDLING AREA UNIT HTR	0VB-EHTR-077	A	15KW	5GW0740-VB-01
L3R	SPARE	1ED	A		
L4	SPARE	1ED	P		
L5	BORIC ACID MIX TANK HTR A	0NB-EHTR-024A	P	50KW	5GW0740-NB-06



DETAIL D | DETAIL C | DETAIL H | DETAIL P



DETAIL A | DETAIL B

NOTES

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76K5-86242 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 39, 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 ARE 10, 100A FRAME THERMAL MAGNETIC WITH 15A TRIP. ITE "BQ" SERIES
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT AMP-TRAP, FORM 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 FRN FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRN FUSE.
7. GROUND FAULT PROTECTION (50GS), ITE TYPE GRN-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 NON-CLASS 1E LOCATED IN A CATEGORY I STRUCTURE
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2GW072C-RA-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 1RB2	2GW17.7-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-16
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC SXF1 COMPUTERIZED CIRCUIT SCHEDULE	5AC0762-ED

SYMBOLS:

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	REP	SUBMITTED	RECOMMENDED	APPRD
6	51	3-22-90	RCM	DLC	RCM	WKR	WKR	DLS	RCM		
ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 8 AND 9 AND MOVED KEY DIAGRAM TO SHEET 3.											
5	51, 1299	12-23-89	RCM	DLC	RCM	WKR	WKR	DLS	RCM		
DELETED "VL" SYSTEM LOADS FROM COMPT B1 AND B5. ADDED MC SYSTEM LOAD TO COMPT B2R											
4	1006	12-16-80	RCM	DLC	RCM	WKR	WKR	DLS	RCM		
ADDED LOAD											
3	770, 51	8-21-8[illegible]	RCM	WS	RCM	WS	RCM	DLS	RCM		
DELETED LOAD. MADE MINOR CHANGES.											
2	51	12-20-79	DYR	DLC	RCM	WKR	DLS	RCM	DLS	RCM	
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4											
1	51.03	2-25-76	LPV	AH	RGL	WRT	GTG	—	DLS	DLS	RCM
INCORPORATED UNID SYS, GEN REV PER ECN 51 VARIOUS. INCREASE HEAT REMOVAL CAPACITIES OF HVAC AHU PER ECN 53											

DRAWN R.C. ROBERTS/E.N. IRWIN
DRAWN C.B. [illegible]/R.E. WILLIAMS
CHKD L.P. KELLEY
SUPV D.L. ALDREGOR
INSP
ENGINEER G.T. Garner

SCALE: NTS — EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 1

SINGLE LINE
480V MCC SXF1
1ED-EMCC-55

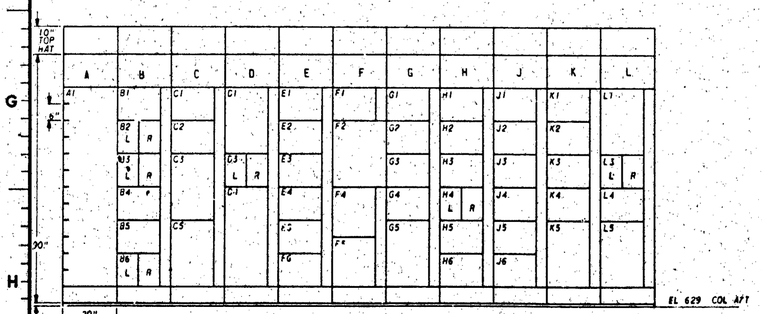
BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED G.T. Garner — RECOMMENDED — APPROVED R.M. Hodges

KNOXVILLE 12-6-74 — 88 E 5AW0732-ED-1 R6

RECORD DRAWING AS CONSTRUCTED



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

PRC APERTURE CARD

COMPANION DWG:
5AW0732-ED-03
5AW0732-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE