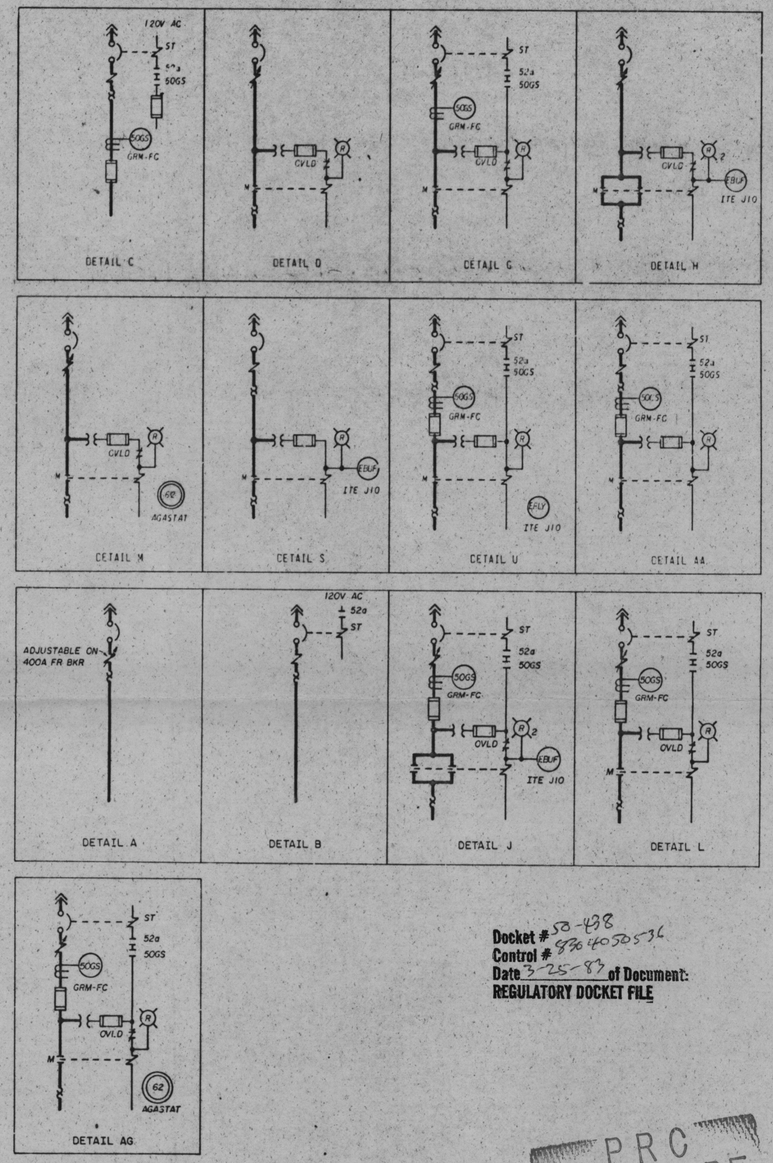
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-53F	SEE KEY DIAG		
B1	RETURN HDR TRAIN 1SLN MOV	1KC-1FCV-380	H	0.66HP	5GW1740-KC-22
B2	RETURN HDR TRAIN 1SLN MOV	1KC-1FCV-141	H	0.66HP	5GW1740-KC-08
B3	UNIT 1 AUX INSTR ROOM AHU	OVL-EMOT-562	D	7.5 HP	5GW0640-VK-15
B4	COMPUTER ROOM AHU	OVL-EMOT-569	D	10 HP	5GW0640-VK-15
B5	COMMUNICATION ROOM AHU	OVL-EMOT-560	D	10HP	5GW0640-VK-15
B6	DSL GEN BLDG SUMP PUMP B	1WE-EMOT-010	M	1.5HP	5GW1740-WE-03
C1L	NORTH CORRIDOR DUCT HTR	OVK-EHTR-031	A	10KW	5GW0640-VK-28
C1R	SPARE	1ED	A		
C2	SODIUM HYDROXIDE RECIRCULATION PUMP	1NS-EMOT-244	D	10HP	5GW0640-NS-09
C3	SPARE		J		
C4	CF TANK 1B BLEED & SAMPLE MOV (CF-HV28)	1NL-1FCV-066	J	0.33HP	5GW0640-NL-03
	1372				
C6	SPARE	1ZD	H		
D1L	ZONE 1B CCS COOLER A UH	1VA-EHTR-213	A	10KW	5GW1740-VA-19
D1R	5 TON DHR PUMP 1B HOIST	1MM-MMHE-021	A	7.5HP	5GW1740-MM-03
D2L	CB INSTR SHOP OFF STOR DUCT HTR	OVK-EHTR-012	A	15KW	5GW0640-VK-28
D2R	ZONE 1B EL 686 UNIT HTR	1VA-EHTR-203	A	25KW	5GW1740-VA-20
D3	SPARE	1ED	J		
D4	DOME ACCESS ROTATING PLATFORM	1MA-MMET-015	C	10HP	5GW0740-MA-05
D6	STEAM GEN 1B MFW STOP MOV	1CF-1FCV-072	H	9.5HP	5GW1640-CF-12
E1L	5 TON MUHPT PMP & RBS PMP HOIST	1MM-MMHE-021	A	7.5HP	5GW1740-MM-03
E1R	ZONE 1B EL 686 UNIT HTR	1VA-EHTR-202	A	25KW	5GW1740-VA-20
E2	SPARE	1ED	C		
E3	5 TON REACTOR BLDG J1B CRANE	1MM-MCRN-008	C	8HP	5GW1740-MM-04
E5	UNIT 1 AUX FUEL HANDLING BRIDGE	1NF-MCRN-002	C	15HP	5GW1740-NF-04
E6	FUTURE - 6 INCH	1ED			
F1	SEC F GRD BUS RLY	1ED-50GS-53B	SEE KEY DIAG		
F3L	SEC CNTMT 480V RCPT A,B,C,D	1ED-ERCP-034	B		5GW1740-ED-21
F3R	SEC CNTMT 480V RCPT A,B,C,D	1ED-ERCP-004	B		5GW1740-ED-21
F4	HOT MACH SHOP DISTRIBUTION BOARD	1MS-EDP-01	A	96.6KVA	5GW0740-MS-01
F6	SPARE	1ED	H		
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 AND DISCONNECT SWITCH		SEE KEY DIAG		
H1L	SPARE	1ED	A		
H1R	ANNS PERS ACCESS AIRLOCK	OMA-MDOR-676	A	2.25KVA	5GW0740-MA-04
H2L	EL 649 RB INTERFACE A UH	1VA-EHTR-205	A	5KW	5GW1740-VA-20
H2R	FUTURE - HALF COMPT	1ED			
H3	STUP CIRCULATION PUMP 1B DISCHARGE TO ST GEN MOV	1CF-1FCV-084	H	1.6HP	5GW1640-CF-10
H4	SPARE	1ED	C		
H5	SPARE	1ED	L		
J1L	EL 649 MN ST SAF V RM 1B UH	1VC-EHTR-144	A	25KW	5GW0740-VC-05
J1R	EL 649 MN ST SAF V RM 1B UH	1VC-EHTR-145	A	25KW	5GW0740-VC-05
J2L	ZONE 1B EL 610 RB INTERFACE A UH	1VA-EHTR-207	A	5KW	5GW1740-VA-20
J2R	ZONE 1B EL 669 UNIT HTR	1VA-EHTR-209	A	10KW	5GW1740-VA-20

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3L	ZONE 1B EL 649 UNIT HTR	1VA-EHTR-211	A	10KW	5GW1740-VA-19
J3R	MAIN CONT ROOM DUCT HTR	OVK-EHTR-029	A	10KW	5GW0640-VK-28
J4	REACTOR VESSEL CAVITY SUMP PUMP 1A2	1WE-EMOT-206	AG	1.5HP	5GW1740-WE-02
J5	RB NORMAL CIRCULATION FAN	1VH-EMOT-110	L	20HP	5GW1740-VH-05
K1	SPREADING ROOM EXH FAN	OVL-EMOT-064	D	3HP	5GW0640-VK-21
K2	SPREADING ROOM SUPPLY FAN	OVL-EMOT-062	D	5HP	5GW0640-VK-21
K3	RC PUMP P1B2 SPACE HTR	INC-EHTR-008	U	0.94KW	5GW1740-NC-05
K4	SPARE	1ED	L		
K6L	UNIT 1 DECONTN RM HOT WTR HTR	ORE-EHTR-042	A	18KW	5GW0740-YM-10
K6R	EL 669 PERS ACCESS AIR LOCK	OMA-MDOR-702	A	0.5HP	5GW0740-MA-13
L1	PRI CONTAINMENT 480V PWR RCPT A,B,C,D	1ED-ERCP-005	C		5GW1740-ED-21
L2	PRI CONTAINMENT 480V PWR RCPT A,B,C	1ED-ERCP-006	G		5GW1740-ED-21
L4	MAIN STEAM SAFETY VALVE ROOM 1A EXHAUST FAN	1VC-EMOT-817	D	5HP	5GW0740-VC-18
L5	SODIUM HYDROXIDE TK HTR	1NS-EHTR-003	S	10KW	5GW0640-NS-02
L6	ZONE 1B AIR PREHEAT SECONDARY PUMP	1VU-EMOT-072	D	1.5HP	5GW0740-VU-06
M1	SPARE	1ED	C		
M2	RB ELEVATOR	1ME-MELV-005	C	5HP	5GW0740-ME-01
M4	CRDM STRUCTURE FAN	1VH-EMOT-117	L	7.5HP	5GW1740-VH-07
M5	CRDM STRUCTURE FAN	1VH-EMOT-121	L	7.5HP	5GW1740-VH-08
N1	RB PURGE SUPPLY FAN	1VH-EMOT-009	M	25HP	5GW1740-VH-02
N2	SPARE	1ED	C		
N3	15 TON EQPT HATCH HOIST	1MM-MMHE-036	C	15HP	5GW1740-MM-01
N5L	SPARE	1ED	A		
N5R	SPARE	1ED	A		
N6L	SPARE	1ED	A		
N6R	SPARE	1ED	A		
P1	SPARE	1ED	C		
P2	0.5 TON RB DOME HOIST	1MM-EMOT-078	C		
P4*	MAIN STEAM DRAIN PUMP	1SM-EMOT-513	G	60HP	5GW1640-SM-09
P6	FUTURE - 6 INCH	1ED			



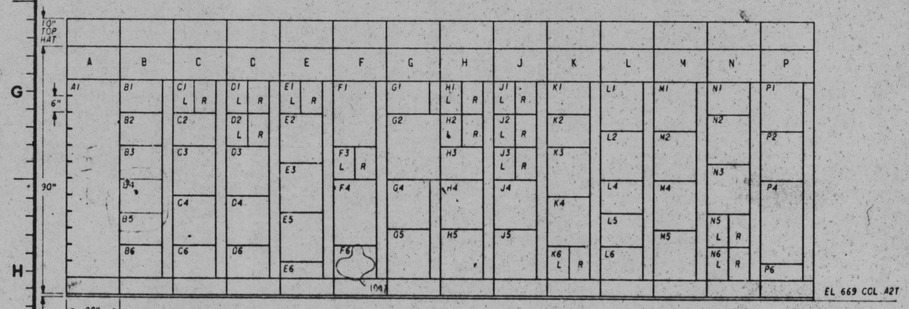
NOTES:

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3P, 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 1P, 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 1P, 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 5KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMAN 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 1 STRUCTURE.
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 1B2	5AW1727-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-21
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC 1B4 COMPUTERIZED CIRCUIT SCHEDULE	5AC1765-ED

SYMBOLS



REV NO	ECN NO	DATE	DSGN	DRFTM	CHKD	SUPV	ENGR	INSP	DUBN	RECD	APPD
5	1181,1007,1372 1,1,1189										
	ADDED "VL" SYSTEM LOADS TO COMPTS B3, B4, AND B5. SWAP COMPT F6 WITH COMPT B2 IN MCC 1B3. DELETED NL LOAD FROM COMPT C3. ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES. REVISED NOTES 8 AND 9 AND MOVED KEY DIAGRAM TO SHEET 3. ADD VC LOAD TO COMPT L4.										
4	614	2-16-90	KBM	DLC	TAD	JS					
	MOVE LOAD (MS-EDP-01 FROM COMPT F6L TO F4 BECAUSE OF INCREASE IN LOAD SIZE										
3	614, S1	3-21-80	KBM	TAD	JB	JB	JS				
	DELETED LOADS, ADDED LOAD. MADE MINOR CHANGES										
2	S1	-	KBM	JS	TAD	JB	KBA				
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.										
1	S1, 134	4-15-76	CRM	AR	RGL	WRT	CTG				
	INCORPORATED UNID SYS, GEN REV PER ECN S1. VARIOUS. REMOVE LOADS PER ECN 134.										

DESIGN: ROGER C. HALL
DRFTM: R.A. MANKEY/R.E. WILLIAMS
CHKD: D.W. LASLEY
SUPV: W.L. ALDRIDGE
INSP:
ENGINEER: C. T. Garner

SCALE: NTS — EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 1.

SINGLE LINE
480V MCC 1B4
1ED-EMCC-53

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED: C. T. Garner — RECOMMENDED: [illegible] — APPROVED: [illegible]

KNOXVILLE | 12-6-74 | 88 | E | 5AW1735-ED-1 | R5

RECORD DRAWING AS CONSTRUCTED

COMPANION DWG: 5AW1735-ED-03
5AW1735-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

Docket # 50-438
Control # 8604050536
Date 3-25-86 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

THIS DRAWING IS UNDER CONFIGURATION CONTROL