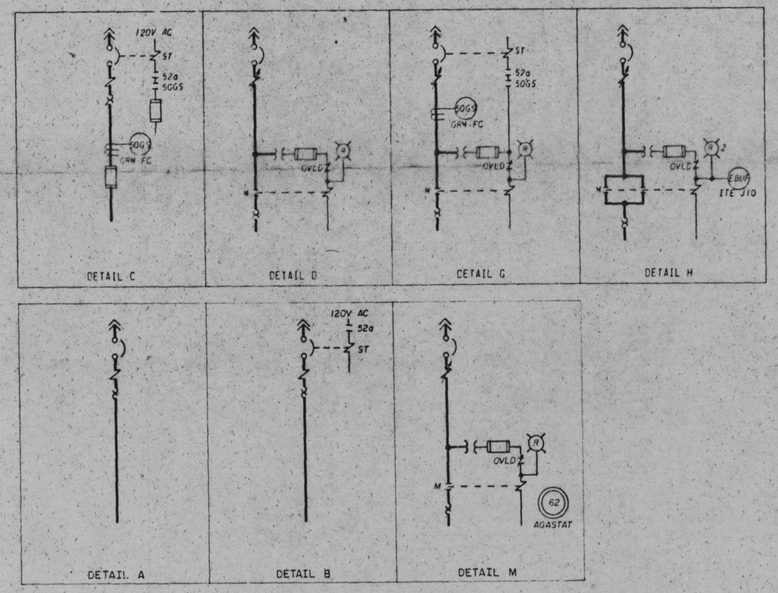
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-50F	SEE KEY DIAG		
B1L	COM ZONE EL 686 UNIT HTR	OVC-EHTR-133	A	20KW	5GW0740-VC-11
B1R	COM ZONE EL 686 UNIT HTR	OVC-EHTR-134	A	20KW	5GW0740-VC-11
B2L	UNIT 1 NEW FUEL ELEVATOR	INF-MELV-004	A	5HP	5GW1740-NF-03
B2R	UNIT 1 F HOLDING BRDG INTERFACE	INF-MCRN-003	A	15HP	5GW1740-NF-03
B3L	10 TON PURIFIC BA CEMIN FLTR HOIST	IMM-EMOT-074	A	7.5KVA	5GW1740-MM-02
B3R	UNIT 1 F STOR XFR PNL 1	INF-EMCP-013	A	1KVA	5GW1740-NF-03
B4L	ROLL UP DOOR (2074)	DMA-MDOR-283	A	1.5HP	5GW0740-MA-08
B4R	5 TON EQPT HATCH HOIST	DMM-MHHE-089	A	8.5HP	5GW0740-MM-02
B5	COMMON ZONE #ATER CHILLER OIL PUMP	OVF-EMOT-298	G	0.25HP	5GW0740-VF-02
B6	HPFP & SERVICE #ATER ISCN MOD	ORF-IFCV-157	H	0.37HP	5GW0640-RF-04
C1L	RAILROAD DOCK UNIT HTR	OVB-EHTR-070	A	25KW	5GW0740-VB-01
C1R	RAILROAD DOCK UNIT HTR	OVB-EHTR-071	A	25KW	5GW0740-VB-01
C2L	#ASTE PKG AREA UNIT HTR	OVB-EHTR-074	A	5KW	5GW0740-VB-02
C2R	EL 667 150 TON CRANE A UH	OVB-EHTR-033	A	25KW	5GW0740-VB-01
C3L	6 TON UNDER HUNG RR CRANE	OMM-MCRN-011	A	10.5KVA	5GW0740-MM-02
C3R	TOILET HOT #TR HTR EL 610	OVP-EHTR-720	A	9KW	5GW0740-YP-02
C4	BATTERY ROOM EXH FAN	OVL-EMOT-213	D	5HP	5GW0640-VK-20
C5	COMMON ZONE #ATER CHILLER ROOM AHU	OVC-EMOT-052	D	5HP	5GW0740-VC-04
C6	HPFP & SERVICE #ATER ISCN MOD	ORF-IFCV-158	H	0.37HP	5GW0640-RF-04
D1L	EL 667 150 TON CRANE A UH	OVB-EHTR-034	A	25KW	5GW0740-VB-01
D1R	EL 667 150 TON CRANE A UH	OVB-EHTR-035	A	25KW	5GW0740-VB-01
D2L	#ASTE PKG AREA UNIT HTR	OVB-EHTR-075	A	5KW	5GW0740-VB-02
D2R	COM ZONE 20 TON CRANE A UH	OVC-EHTR-148	A	15KW	5GW0740-VC-11
D3L	COM ZONE 20 TON CRANE A UH	OVC-EHTR-149	A	15KW	5GW1740-VC-11
D3R	UNIT 1 FUEL HANDLING ZONE UH	IV2-EHTR-032	A	15KW	5GW1740-VB-08
C4	FUEL HANDLING SYSTEM 480V POWER RECEPTACLE	INF-ERCP-005	C	4.1KVA	5GW1740-NF-04
C5	UNIT 1 MAIN FUEL HANDLING BRIDGE INTERFACE	INF-MCRN-001	C	15HP	5GW1740-NF-02
E1	MCC LOSS OF VOLTAGE RELAY		SEE KEY DIAG		
E2	120V-IP-UNIT BKR COMPT		SEE KEY DIAG		
E4	FUSE COMPT		SEE KEY DIAG		
E5	MCC CONTROL TRANSFORMER & DISCONNECT SWITCH		SEE KEY DIAG		
F1	SEC F BUS GRD RLY	1ED-50GS-50B	SEE KEY DIAG		
F1L	COM ZONE 480V MCPT A,B,C,D	1ED-ERCP-010	B		5GW1740-ED-22
F1R	FUTURE - HALF COMPT	1ED-			
F4	FUTURE - 12 INCH	1ED-			
F5	FUTURE - 12 INCH	1ED-			
F6	FUTURE - 12 INCH	1ED-			
G1L	COM ZONE EL 686 UNIT HTR	OVC-EHTR-137	A	20KW	5GW0740-VC-11
G1R	#ASTE PKG AREA UNIT HTR	OVB-EHTR-076	A	5KW	5GW0740-VB-02
G2L	UNIT 1 SPENT FUEL EQPT RM UH	IV2-EHTR-068	A	5KW	5GW1740-VB-08
G2R	AIRBORNE RADN MON FDR	1IR-ELPA-015	A	3.4KVA	5GW0640-IR-02
G3L	SPARE	1ED-	A		
G3R	5 TON FUEL GATE CRANE	IMM-MCRN-017	A	5.33HP	5GW1740-MM-03
G4	RB TRANSFER PANEL 1	INF-EMCP-015	C	1KVA	5GW1740-NF-02
G5	RB NORMAL SUMP PUMP 1A1	IWL-EMOT-002	M	3HP	5GW1740-WD-02
G6	FUTURE - 6 INCH	1ED			
H1L	AUX BLDG ROLLING OVHD DR 424	DMA-MDOR-220	A	1.5HP	5GW0740-MA-05
H1R	SPARE	1ED	A		
H2L	UNIT 1 FUEL STOR XFR PNL 2	INF-EMCP-014	A	1KVA	5GW1740-NF-03
H2R	1 TON SPENT FUEL GATE HOIST	IMM-EMOT-075	A	5.33KVA	5GW1740-MM-03
H3	RB TRANSFER PANEL 2	INF-EMCP-016	C	1KVA	5GW1740-NF-02
H4	COMMON ZONE AREA SUPPLY FAN	OVC-EMOT-001	G	50HP	5GW0740-VC-07
J1L	ELEV MACHINERY RM UNIT HTR	OVC-EHTR-142	A	5KW	5GW0740-VC-16
J1R	FUTURE - HALF COMPT	1ED			
J2	AUX BLDG ELEVATOR MACHINERY RM EXH FAN	OVC-EMOT-003	D	0.5HP	5GW0740-VC-04

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3	SPARE	1ED-	D		
J4	FUTURE - 12 INCH	1ED-			
J5	FUTURE - 12 INCH	1ED-			
J6	FUTURE - 12 INCH	1ED-			



NOTES

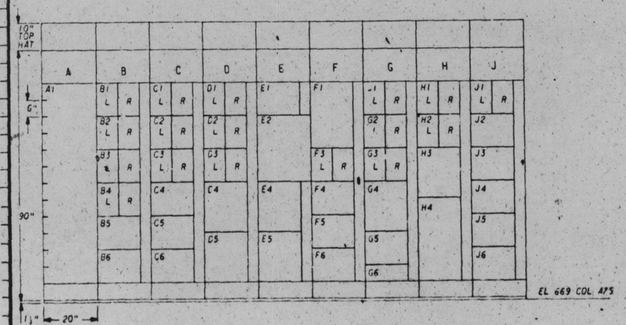
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76K5-84242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3Φ, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HEM" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 1Φ, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "BQ" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM C00, WIDEST 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 FRQ 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 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 10A 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 I 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 1A3	2AW1728-ED-1
120V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-22
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC 1A5 COMPUTERIZED CIRCUIT SCHEDULE	5AC1766-EQ

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



PRC APERTURE CARD

Docket # 50-438 50-439
Control # 830
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

COMPANION DWG:
5AW1736-ED-03
5AW1736-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

REV NO	ECN NO	DATE	DSGN	DFTMN	CHKD	SUPV	CHGR	INSP	SUPVR	RECM	APPD
4	S1										
ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 8 AND 9 AND MOVED KEY DIAGRAM TO SHEET 3.											
3	S1		30								
ADDED LOAD.											
2	S1										
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.											
1	S1	4-15-76									
INCORPORATED UNID 5A5, GUN REV PER ECN S1-VARIOUS.											

DSGN C.R. McINTOSH
DFTMN C.W. TEWALT & C. HOLLADAY
CHKD E.N. JOHN
SUPV W.L. AUGBEDDS
INSP
ENGINEER C.T. Garner

SCALE EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 1

SINGLE LINE
480V MCC 1A5
1ED-EMCC-50

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
C.T. Garner	J.L. Longer	R.M. Hodges

KNOXVILLE | 12-6-77 | 88 | E | 5AW1736-ED-1 | R4

RECORD DRAWING AS CONSTRUCTED