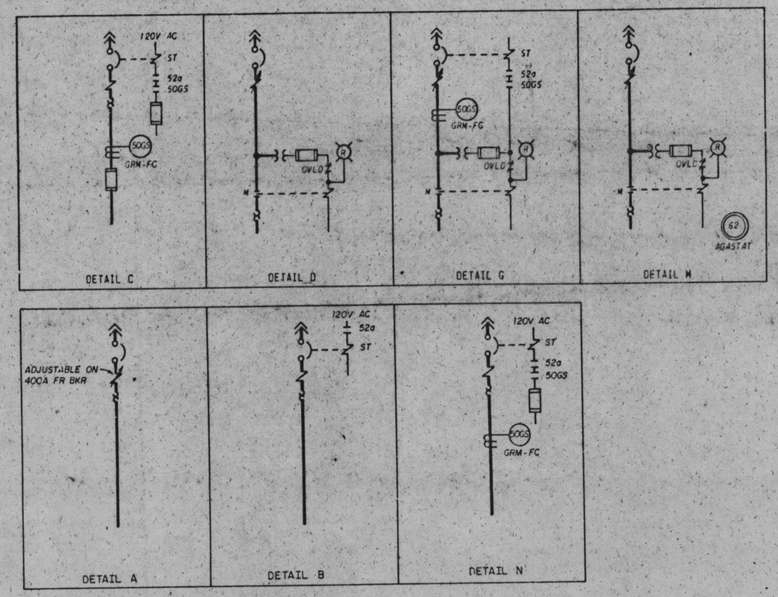
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2ED-52NA-50F	SEE KEY DIAG		-
B1L	SPARE	2ED	4		
B1R	SPARE	2ED	4		
B2	COMMON ZONE WATER CHILLER OIL PUMP	OVF-EMOT-299	D	0.25HP	5GW0740-VF-03
B3	FUTURE - 12 INCH	2ED			
B4	FUTURE - 12 INCH	2ED			
B5	HEAT TRACING SYSTEM FOR	2MC-ET-7	A	75KVA	5GW2740-MC-04
C1L	RAILROAD DOCK UNIT HTR	OVB-EHTR-071	A	25KW	5GW0740-VB-01
C1R	RAILROAD DOCK UNIT HTR	OVB-EHTR-072	A	25KW	5GW0740-VB-01
C2L	COMMON ZONE EL 686 UNIT HTR	OVC-EHTR-135	A	20KW	5GW0740-VC-11
C2R	SPARE	2ED	A		
C3L	150 TON CRANE AREA UNIT HTR	OVB-EHTR-036	A	25KW	5GW0740-VB-01
C3R	150 TON CRANE AREA UNIT HTR	OVB-EHTR-037	A	25KW	5GW0740-VB-01
C4L	150 TON CRANE AREA UNIT HTR	OVB-EHTR-038	A	25KW	5GW0740-VB-01
C4R	COMMON ZONE EL 686 UNIT HTR	OVC-EHTR-136	A	20KW	5GW0740-VC-11
C5	BATTERY ROOM EXH FAN	OVL-EMOT-214	D	5HP	5GW0640-VK-20
C6	AUX BLDG ELEVATOR MACHINERY RM EXH FAN	OVC-EMOT-157	D	0.5HP	5GW0740-VC-04
D1L	NEW FUEL STOR AREA UNIT HTR	OVB-EHTR-039	A	5KW	5GW0740-VB-02
D1R	HEAT TRACING SYSTEM FOR	2MC-ET-19	A	56KVA	5GW2740-MC-08
D2L	FUEL HANDLING ZONE UNIT HTR	2VB-EHTR-032	A	15KW	5GW2740-VB-08
D2R	COM ZONE 50 TON CRANE AUM	OVC-EHTR-150	A	15KW	5GW0740-VC-11
D3	UNIT 2 MAIN FUEL HANDLING BRIDGE INTERFACE	2NF-MCRN-001*	C	15HP	5GW2740-NF-02
D4	COMMON ZONE AREA SUPPLY FAN	OVC-EMOT-002	G	50HP	5GW0740-VC-07
E1L	COMMON ZONE EL 686 UNIT HTR	OVC-EHTR-138	A	20KW	5GW0740-VC-11
E1R	FUEL STOR HANDLING BRDG	2NF-MCRN-003	A	15HP	5GW2740-NF-03
E2L	SPENT FUEL GATE HOIST	2MM-EHOT-075	A	5.33HP	5GW2740-MM-03
E2R	20 TON CRANE AREA UNIT HTR	OVB-EHTR-029	A	15KW	5GW0740-VB-02
E3L	SPARE	2ED	A		
E3R	SPARE	2ED	A		
E4	RB TRANSFER PANEL -2	2NF-EMCP-016	C	1KVA	5GW2740-NF-02
E5	RB TRANSFER PANEL -1	2NF-EMCP-015	C	1KVA	5GW2740-NF-02
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		
G1L	SPARE	2ED	A		
G1R	AIRBORNE RADN MON FDR	2IR-ILPA-015	A	3.4KVA	5GW0640-IR-02
G2L	UNIT 2 NEW FUEL ELEVATOR	2NF-MELV-004	A	5HP	5GW2740-NF-03
G2R	1 TON FUEL GATE CRANE	2MM-MCRN-017	A	5.33KVA	5GW2740-MM-03
G3L	SPENT FUEL EQPT HM UNIT HTR	2VB-EHTR-068	A	5KW	5GW2740-VB-06
G3R	FUEL STOR TRANSFER PNL -1	2NF-EMCP-013	A	1KVA	5GW2740-NF-03
G4	RB NORMAL SUMP PUMP 2A1	2WL-EMOT-002	M	3HP	5GW2740-WD-02
G5	COMMON ZONE WATER CHILLER ROOM AHU	OVC-EMOT-053	D	5HP	5GW0740-VC-04
G6	FUTURE - 12 INCH	2ED			
H1	SEC H BUS GRD RLY*	2ED-50GS-508	SEE KEY DIAG		
H3L	COM ZONE 480V RCPT A,B,C,D	2ED-ERCP-011	B		5GW2740-ED-24
H3R	COM ZONE 480V RCPT A,B,C	2ED-ERCP-010	B		5GW2740-ED-24
H4	FUTURE - 12 INCH	2ED			
H5	FUTURE - 12 INCH	2ED			
H6	FUTURE - 12 INCH	2ED			
J1L	FUEL STOR TRANSFER PNL -2	2NF-EMCP-014	A	1KVA	5GW2740-NF-03
J1R	PURIF BORIC ACID FLTR HOIST	2MM-EHOT-074	A	7.5HP	5GW2740-MM-02
J2L	ROLL-UP DOOR (A 273)	OMA-MOPR-132	A	1.5HP	5GW0740-MA-07
J2R	SPARE	2ED	A		

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3	FUEL HANDLING SYSTEM 480V POWER RECEPTACLES	2NF-ERCP-005	C	4.1KVA	5GW2740-NF-04
J4	SPARE	2ED	N		
J5	SPARE	2ED	D		
J6	FUTURE - 6 INCH	2ED			



NOTES:

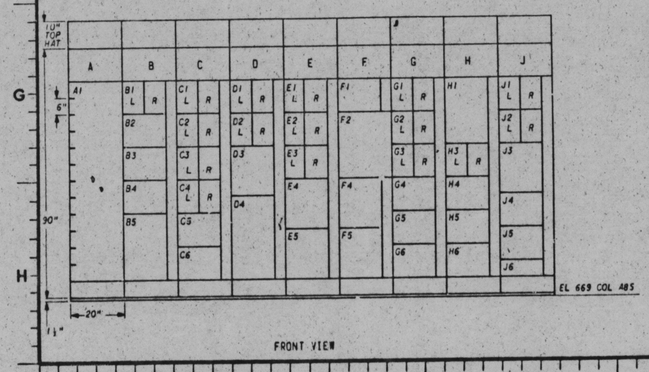
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3P, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "NE" 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, 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 1 STRUCTURE.
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2GW0723-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2AA3	2AW2724-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW2740-EL-24
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC 2A5 COMPUTERIZED CIRCUIT SCHEDULE	5AC2766-ED

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438
Control # 8304150536
Date 4-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

5	S1	2-5-82	CAM	DWM	ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SHEET 3.
4	1299	12-5-81	GCM	DWS	ADDED MC SYSTEM LOAD TO COMPT DIR
3	1006	[illegible]	GCM	DWS	CORRECTED UNID.
2	S1	[illegible]	GCM	DWS	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH. HISTORICAL DATA BASE R4
1	S1	4-15-76	RDH	RGL	INCORPORATED UNID SYS, GEN REV PER ECN S1-VARIOUS.

REV NO	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	PROJ	APPD

DSGN C. R. McINTOSH
DRWN J. R. MANLEY/R. C. MIDGETT
CHKD E. N. LUMIN
SUPV W. W. ANDREWS
INSP
ENGINEER C. T. Garner

SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 2

SINGLE LINE
480V MCC 2A5
2ED-EMCC-50

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C. T. Garner | RECOMMENDED [illegible] | APPROVED R. M. Bridges

KNOXVILLE 12-6-74 | 88 E | SAW2736-ED-1 | A5

RECORD DRAWING AS CONSTRUCTED

COMPANION DWG:
SAW2736-ED-03
SAW2736-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRINT H 1
SIZE F J
SER OR PROJ NE EE CE AD CS IB MD SW BL PA
PRINTS REQD-6