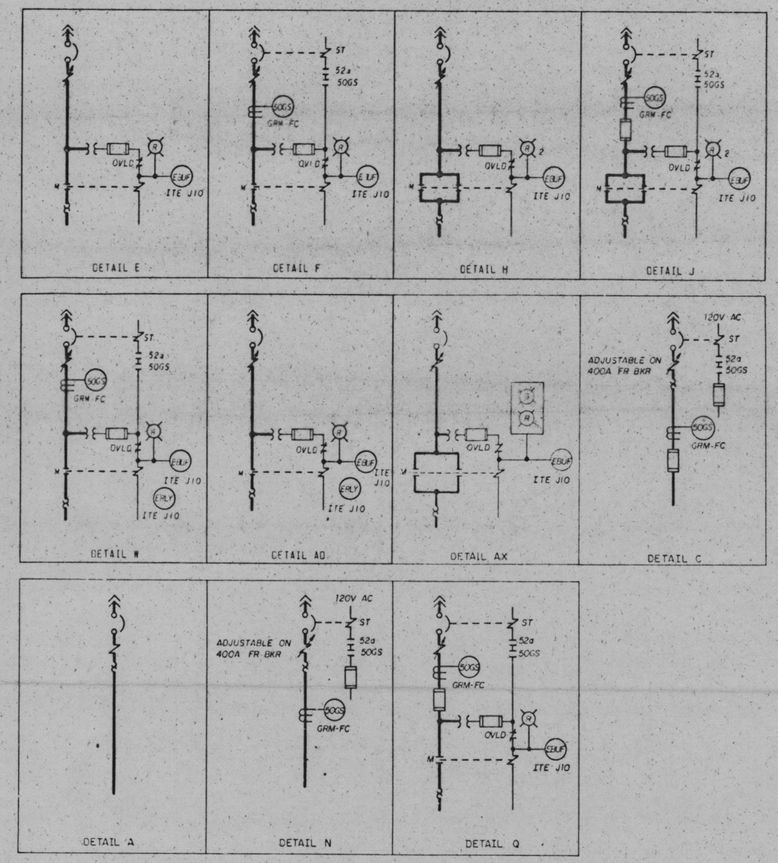
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2EI-52NA-65F-A	SEE KEY DIAG		-
B1	TRAIN 2A SERVICE AIR ISLN MOV	2RJ-IFCV-028-A	H	0.13HP	5GW2640-RK-03
B2	STARTUP & RECIRC PMP ISLN FROM ST GEN A	2SM-IFCV-053-A	H	2.6HP	5GW2640-SM-02
B3	TRAIN A ERCW SUPPLY TO AFW TURBINE PUMP MOV	2CA-IFCV-017-A	H	1HP	5GW0640-CA-10
B4	TRAIN A ERCW SUPPLY TO AFW TURBINE PUMP MOV	2CA-IFCV-016-A	H	1HP	5GW0640-CA-09
B5	SPARE	2EI	F		
C1	PRESSURIZER SPRAY ISOLATION MOV (RC-HV10)	2NC-IFCV-010-A	J	0.7HP	5GW2740-NC-12
C2	FUEL HANDLING AREA SUPPLY FAN	2VB-EMOT-001-A	E	25HP	5GW2740-VB-02
C3	CFT 2A ISOLATION OUTLET MOV (CF-HV14)	2NL-IFCV-076-A	J	26.4HP	5GW0640-NL-04
D1	SEC CONTAINMENT CLEANUP FAN	2VX-EMOT-003-A	AD	25HP	5GW2740-VX-04
D2	RCP P2A1 LUBE OIL PUMP A	2NC-EMOT-029-A	Q	25HP	5GW2740-NC-10
D4	FUEL HANDLING AREA EXH FAN	2VB-EMOT-009-A	W	75HP	5GW2740-VB-05
E1	TO 480-208-120V XFMR FOR STANDBY AC LIGHTING CAB	2EN-ELS-003	C	42.5KVA	5GW2747-EN-01
E2	RC PRESSURIZER SPRAY HEATER ISLN MOV (RC-HV11)	2NC-IFCV-057-A	J	1.9HP	5GW2740-NC-13
E4	FIRE DETECTION SYSTEM EMERGENCY FDR	DEV 43-044	C	30KVA	9GW0717-00-01
F1	TRAIN 2A ESS CONTROL AIR ISLN MOV	2RJ-IFCV-267-A	H	0.7HP	5GW2640-RK-03
F2	FIRE PROTECTION SYSTEM ISOLATION MOV	2RF-IFCV-403-A	H	0.13HP	5GW0640-RF-45
F3	CRD COOLING PUMP 2A-A	2KD-EMOT-001-A	E	25HP	5GW2740-KD-02
F4L	FUEL HANDLING AREA RH HTR	2VB-EHTR-029-A	A	24KW	5GW2740-VB-06
F4R	SEC CNTMT CLEANUP RH HTR	2VX-EHTR-005-A	A	24KW	5GW2740-VX-06
F5	ZONE 2A EL 590 AREA AHU	2VA-EMOT-186-A	E	7.5HP	5GW2740-VA-08
F6	FIRE PROTECTION SYSTEM ISOLATION MOV	2RF-IFCV-407-A	H	0.13HP	5GW0640-RF-46
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		
H1	SPARE	2EI	C		
H2	ST GEN B ATMOSPHERIC DUMP VLV COLD SHUTDOWN	2SM-IFCV-869-A	AX	0.37HP	5GW2640-SM-31
H3	RCP P2B2 LUBE OIL PUMP A	2NC-EMOT-035-A	Q	25HP	5GW2740-NC-09
H6	SPARE	2EI	E		
J1	CONE FLOODING TANK 002 VENT TO WD RC DRAIN TANK	2NL-IFCV-064-A	J	0.13HP	5GW0640-NL-02

1372 S1

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	SPARE	2EI	J		
J4	CRD COOLING RB OUTLET ISOLATION MOV (CC-HV4)	2KD-IFCV-054-A	H	0.33HP	5GW2740-KD-04
J6	FUTURE - 12 INCH	2EI			
K1	SPARE	2EI	E		
K2	RCP P2A2 LUBE OIL PUMP A	2NC-EMOT-031-A	Q	25HP	5GW2740-NC-07
K4	RCP P2P1 LUBE OIL PUMP A	2NC-EMOT-033-A	Q	25HP	5GW2740-NC-11
L1L	MCR INL AIR RADN MON FDR	2IR-ILPM-026-A	A	3.4KVA	5GW0640-IR-02
L1R	STATION VENT RADN MON FDR	2IR-ILPM-047-A	A	3.4KVA	5GW0640-IR-02
L2L	PRI CNTMT RADN MON FDR	2IR-ILPM-001-A	A	3.4KVA	5GW0640-IR-02
L2R	CNTMT	2IR-ILPM-028-A	A	3.4KVA	5GW0640-IR-02
L3	ZONE 2A EL 629 AREA AHU	2VA-EMOT-185-A	E	3HP	5GW2740-VA-08
L4	DHR FAN	2VX-EMOT-002-A	E	3HP	5GW2740-VX-03
L5	SPARE	2EI	N		
M1L	SPARE	2EI	A		
M1R	STA VENT NO 2 RADN MON FDR	2IR-ILPR-018-A	A	3.4KVA	5GW0640-IR-02
M2	SPARE	2EI	E		
M3	ZONE 2A EL 649 ESSENTIAL ELEC EQPT ROOM AHU	2VA-EMOT-045-A	E	20HP	5GW2740-VA-07
M4	SPARE	2EI	Q		
M5	SPARE	2EI	J		

1125 S1



NOTES

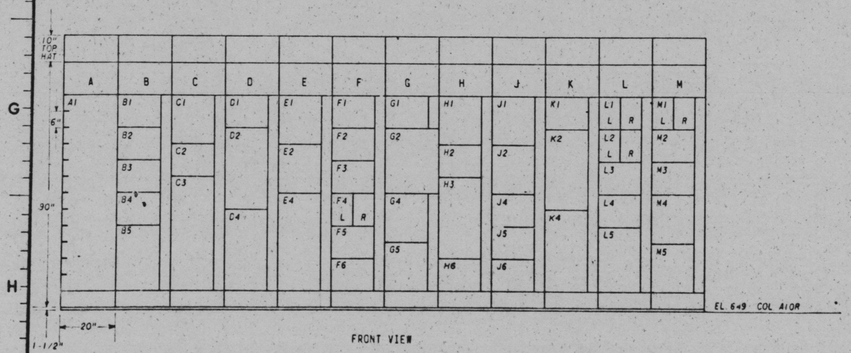
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76KS-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 39, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING 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 10, 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 TIM 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. S1
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. S1
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	2GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2EXI-A	2AW2726-EI-1
480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW2740-EI-15
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC 2E5-A COMPUTERIZED CIRCUIT SCHEDULE	5AC2766-EI

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



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

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECD	APPD
4	1173,1372,S1	[illegible]									
	DELETED "NC" SYSTEM LOAD FROM COMPT M5. ADDED "NL" SYSTEM LOAD TO COMPT J1. ADDED LOAD SIZE & SCHEMATIC DWG REF. COL TO TABLES. REV NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SHEET 3. MINOR CHANGES.										
3	1920	[illegible]									
	INCREASE SIZE OF COMPARTMENTS TO ALLOW FOR CHANGING FROM SIZE 2 TO SIZE 3 MOTOR STARTERS.										
2	S1	5-80									
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.										
1	S1,83	4-276									
	INCORPORATED UNID SYS. GEN REV PER ECN S1-VARIOUS. ADD AHU PER ECN 83										

DSGN C. S. McINTOSH
DRWN J. D. W. R. E. WALLACE
CHKD M. F. WOOSTER, R. N. ADAIN
SUPV W. L. ALDRED JR.
INSP
ENGINEER C. T. Farner

SCALE NTS — EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 2

SINGLE LINE
480V MCC 2E5-A
2EI-EMCC-65-A

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED C. T. Farner — RECOMMENDED [illegible] — APPROVED R. M. Gilbert

KNOXVILLE 12-6-74 | 88 E | 5AW2736-EI-1 R4

RECORD DRAWING AS CONSTRUCTED

COMPANION DWG. S1
5AW2736-EI-03
5AW2736-EI-02 HAS BEEN VOIDED.

INSPECTED AND APPROVED FOR ISSUE

THIS DRAWING IS UNDER CONFIGURATION CONTROL