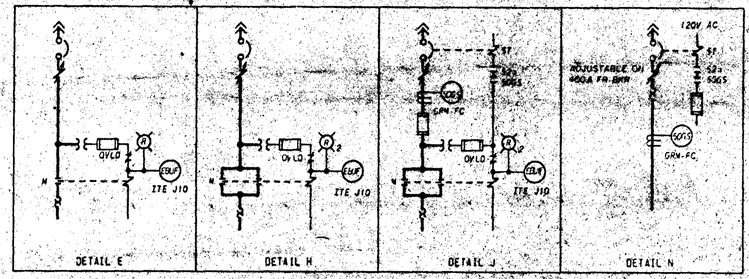
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH. DWG REFERENCE
A1	MAIN BREAKER	1EI-52NA-65F-A	SEE KEY DIAG		
O1L O1R	STATION VENT RADN MON FOR: IN/A STA VENT RADN MON FOR	1IR-ILPA-047-A 1IR-ILPA-018-A	A A	3.4KVA 3.4KVA	5GW0640-IR-02 5GW0640-IR-02
B2	CORE FLOODING TANK GO2 VENT TO WD RC DRAIN TANK	INC-IFCV-064-A	J		5GW0640-NL-02
B3	CFT 1A ISOLATION OUTLET MOV (CF-HV1A)	INL-IFCV-078-A	J	20.4HP	5GW0640-NL-04
O1L O1R	MCR INLET AIR RADN MON FOR: PRI CNTMT RADN MON 1A FOR	0IR-ILPA-024-A 1IR-ILPA-044-A	A A	3.4KVA 3.4KVA	5GW0640-IR-02 5GW0640-IR-02
C2L C2R	CNTMT PURGE EXH RADN MON GNDUP IN CNTMT HYDROGEN RECOMBINER	1IR-ILPA-028-A 0IS-TAE-0058-A	A A	3.4KVA	5GW0640-IR-02 5GW1640-CS-03
C3	FUEL HANDLING AREA SUPPLY FAN	1VB-EMOT-001-A	E	25HP	5GW1740-VB-02
C4	FUEL HANDLING AREA EXH. FAN	1VB-EMOT-009-A	E	15HP	5GW1740-VB-05
C6	FUTURE - 6 INCH	IEI			
O1L O1R	AIRBORNE RADN MON FOR FUEL HANDLING AREA RH HTR	0IR-ILPA-014-A 1VB-EHTR-028-A	A A	3.4KVA 24KW	5GW0640-IR-02 5GW1740-VB-06
O2	SEC CONTAINMENT CLEANUP F AN	1VX-EMOT-003-A	AD	25HP	5GW1740-VX-04
O3	SPARE	IEI	J		
O4	CRD COOLING PUMP 1A-A	1KD-EMOT-001-A	E	25HP	5GW1740-KD-02
O5	TO 480/208-120V XFMR FOR STANDBY AC LIGHTING CAB	1EN-ELS-001	C	225KVA	5GW1747-EN-01
E1	ZONE 1A EL 629 AREA AHU	1VA-EMOT-185-A	E	3HP	5GW1740-VA-08
E2	SPARE	IEI	E		
E3	ST GEN B ATMOSPHERIC DUMP VLV. GOLD SHUTDOWN	1SM-IFCV-869-A	AX	3HP	5GW1640-SM-31
E4	SPARE	IEI	C		
E5	FUTURE - 18 INCH	IEI			
F1	CHR FAN	1VX-EMOT-002-A	E	3HP	5GW1740-VX-03
F2	RCP P1A1 LUBE OIL PUMP A	INC-EMOT-329-A	Q	75HP	5GW1740-NC-10
F4	RCP P1A2 LUBE OIL PUMP A	1NC-EMOT-031-A	Q	25HP	5GW1740-NC-07
G1	RCP P1B1 LUBE OIL PUMP A	1NC-EMOT-033-A	Q	25HP	5GW1740-NC-11
G3	SPARE	1EI	J		
H1	RCP P1B2 LUBE OIL PUMP A	1NC-EMOT-035-A	Q	25HP	5GW1740-NC-09
H3	CNT BLDG EMER AIR CLEANUP UNIT FAN	0VN-EMOT-005-A	E	15HP	5GW0640-VK-02
H4	SPARE	IEI	E		
H5	FIRE PROTECTION SYSTEM ISOLATION MOV	1RF-IFCV-807-A	M	0.13HR	5GW0640-RF-44

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH. DWG REFERENCE
H6	FUTURE - 6 INCH	IEI			
J1 (1)	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
J2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
J4	FUSE COMPT.		SEE KEY DIAG		
J5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
K1	PRESSURIZER SPRAY ISOLATION MOV (RC-HV10)	INC-IFCV-010-A	J	9.7HP	5GW1740-NC-12
K2	SPARE	IEI	J		
K4	SPARE	IEI	AQ		
K5	RC PRESSURIZER SPRAY RELIEF ISLN MOV (RC-HV11)	INC-IFCV-057-A	J	1.9HP	5GW1740-NC-13
L1	SPARE	IEI	E		
L2	ZONE 1A EL 649 ESSENTIAL ELEC EQPT ROOM AHU	1VA-EMOT-045-A	E	20HP	5GW1740-VA-07
L3	FIRE PROTECTION SYSTEM ISOLATION MOV	1RF-IFCV-803-A	M	0.13HP	5GW0640-RF-43
L4	TRAIN 1A ESS CONTROL AIR ISLN MOV	1RJ-IFCV-267-A	M	0.7HP	5GW1640-RK-03
L5	TRAIN 1A SERVICE AIR ISLN MOV	1RJ-IFCV-028-A	M	0.13HP	5GW1640-RK-03
L6	CRD COOLING RB OUTLET ISOLATION MOV (CC-HV4)	1KD-IFCV-054-A	M	0.33HP	5GW1740-KD-04
M1	AUX BLDG ISOLATION MOV	0SA-IFCV-265-A	M	2HP	5GW0640-SA-03
M2	TRAIN A EHOW SUPPLY TO AFW TURBINE PUMP MOV	1CA-IFCV-016-A	M	1HP	5GW0604-CA-09
M3	TRAIN A SHOW SUPPLY TO AFW TURBINE PUMP MOV	1CA-IFCV-017-A	M	1HP	5GW0640-CA-10
M4	STARTUP & RECIRC PMP ISLN FROM ST GEN A	1SM-IFCV-053-A	M	2.6HP	5GW1640-SM-02
M5	AFW TURBINE PUMP DISCHARGE TO STEAM GEN 1B MOV	1CA-IFCV-071-A	M	1.6HP	5GW0640-CA-14
M6	FUTURE-12 INCH	IEI			
N1	ZONE 1A EL 590 AREA AHU	1VA-EMOT-186-A	E	7.5HP	5GW1740-VA-08
N2	AUX BLDG ROOF-ST TO CAST WASHDOWN ISLN MOV	0SA-IFCV-609-A	M	0.65HP	5GW0640-SA-02
N3L N3R	SEC CNTMT CLEANUP RH HTR FUTURE HALF COMPT	1VX-EHTR-005-A IEI	A	24KW	5GW1740-VX-06
N4	SPARE	IEI	C		
N5	SPARE	IEI	C		



NOTES

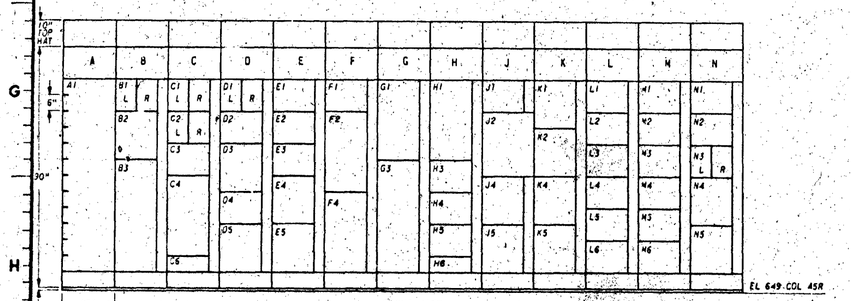
1. 480V MOTOR CONTROL CENTER PROVIDED UN TVA CONTRACT NO. 74K5-862419 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30,600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 AMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT-TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING 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, 1 CRN 600, MIDGET TYPE 2.
5. FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "R" 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 15A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNQ FUSE. THE SECONDARY OF THE 250 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRN 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 COMMENTS "DEVICE RATINGS AND ADJUSTABLE CIRCUIT BREAKER SETTINGS".
10. THIS MCC IS CLASS 1E
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYST. 4 SINGLE LINE 2GW0720-RP-0
SINGLE LINE DIAGRAM 480V SWITCHGEAR 1EA1-A 2AW1726-EI-1
480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5GW1740-EI-14
480V MCC COMPARTMENT TYPICALS 5GY0747-RP
480V MCC 1E5-A COMPUTERIZED CIRCUIT SCHEDULE 5AC1766-EI

SYMBOLS

(M) MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



NO	ECN NO	DATE	DRWN	DSGN	ENGR	CHKD	APPD	SUPV	ENGR
5	1495, 1181								
ADDED "GS" SYSTEM LOAD TO COMPT C2R. DELETED "VK" SYSTEM LEADS FROM COMPTS E2 AND E1.									
4	SI. 372, 413								
ADDED "HD" USE & SCHEMATIC DWG REF COL TO TABLES, KEY NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SH 3. ADDED "NC" LOAD REMOVED "NC" LOAD									
3	920, SI	4-21-80							
INCREASE SIZE OF COMPARTMENTS TO ALLOW FOR CHANGING FROM SIZE 2 TO SIZE 3 MOTOR STARTERS. MADE MINOR CHANGES									
2	23	1-3-80							
RECORD CWG REV FOR THE MCC COMPUTERIZED CRT SCH HISTORICAL DATA BASE #4									
1	SI. 83	12-2-76							
INCORPORATED UNID SYS. GEN REV PER ECN SI-VARIOUS. ADDED AND PER ECN 83									

DRWN: C.R. MCINTOSH
DSGN: R.W. HAWLEY, F.E. WILLIAMS
CHKD: R.H. JOHNSON, S. TATE
SUPV: W.S. BARSDALE

ENGINEER: C.T. Garner

SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 1

SINGLE LINE
480V MCC 1E5-A
1EI-EMCC-65-A

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

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

KNOXVILLE 12-6-74 | 88 | E | 5AW1736-EI-1 | R5

RECORD DRAWING AS CONSTRUCTED

INSPECTED AND APPROVED FOR ISSUE

Docket # 50-438
Control # 8304050536
Doc. 3-25-83
of Document
ULATORY DOCKET FILE

PRC APERTURE CARD

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