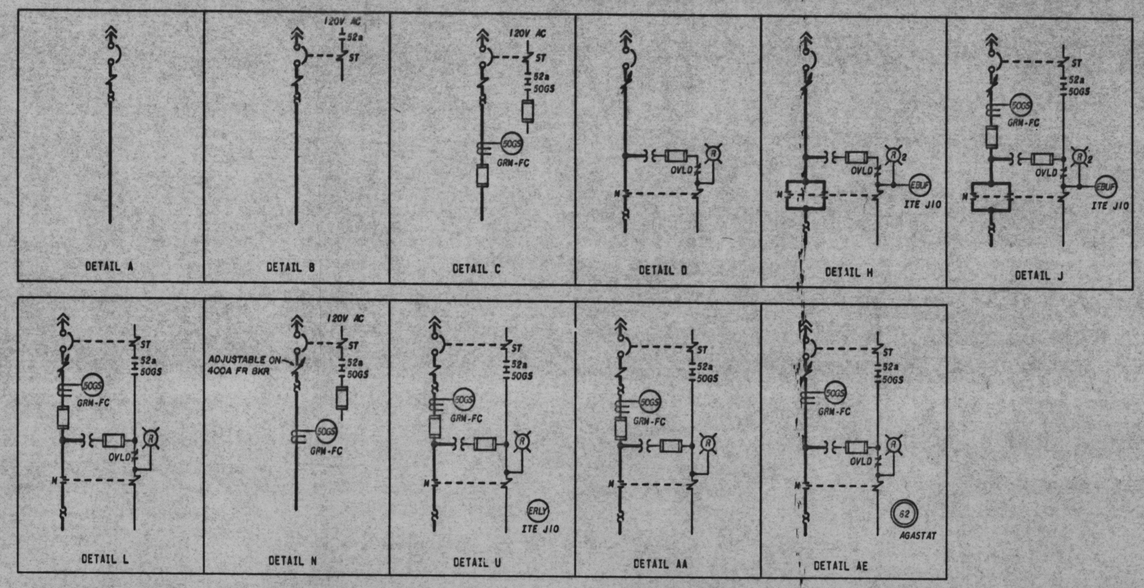
COMPT NO.	LOAD	UNID	DETAIL
A1	MAIN BREAKER	2ED-52NA-49F	SEE KEY DIAG
B1	RETURN HDR ISLN MOV	2KC-IFCV-136	H
B2	SEPARATION MOV	2KC-IFCV-137	H
B3	RETURN HDR ISLN MOV	2KC-IFCV-138	H
B4	SPARE	2ED-	H
B5	HOT SAMPLING ROOM 2A AHU	2VA-EMOT-046	D
B6	MAIN STEAM SAFETY VALVE ROOM EXH VENTILATION FAN	2VC-EMOT-816	D
C1L	HOT SAMPLG RM 2A DUCT HTR	2VA-ENTR-033	A
C1R	ZONE 2A EL 686 UNLT HTR	2VA-ENTR-191	A
C2	UNIT #2 10 TON D WALL CRANE	2MM-WCRN-004	C
C3	SPARE	2ED	C
C5	BORON INJECTION PUMP	2NB-EMOT-763	D
C6	FUTURE - 12 INCH	2ED-	
D1	PRI CONTAINMENT 480V POWER RECEPTACLES A,B,C,D	2ED-ERCP-002	C
D2	SPARE	2ED-	L
D4	125V DC NORMAL POWER SUPPLY ROOM AHU	0VL-EMOT-366	D
D5	RB PURGE SUPPLY FAN	2VH-EMOT-007	AE
E1L	ANNS PERS ACCESS AIR LOCK	0MA-MCOR-679	A
E1R	MAIN CONT ROOM DUCT HTR	0VK-ENTR-028	A
E2	ZONE 2A AIR PREHEAT SECONDARY PUMP	2VU-EMOT-079	D
E3L	DG LUBOIL LIQ RMOV NON FCR	2TR-ILPA-016	A
E3R	CB MECH EQPT RM HOIST	0MM-MMHE-004	A
E4	SPARE	2ED-	AA
E5	CRDM STRUCTURE FAN	2VH-EMOT-120	L
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
G1	STEAM GENERATOR CLEANING PUMP RECEPTACLES A,B	2VR-ERCP-050	C
G2	CRDM STRUCTURE FAN	2VH-EMOT-116	L
G4	RC PUMP P281 SPACE HTR	2NC-ENTR-007	U
G5	FUTURE - 18 INCH	2ED-	
H1	SEC H BUS GRD RLY	2ED-50GS-49B	SEE KEY DIAG
H3L	SEC CNTMT 480V RCPT A,B,C	2ED-ERCP-003	B
H3R	9 TON SHIELD PLUG HOIST	2MM-EMOT-077	A
H4L	SEC CNTMT 480V RCPT A,B,C,D	2ED-ERCP-001	B
H4R	SPARE	2ED-	B
H5	FUTURE - 12 INCH	2ED-	
H6	FUTURE - 12 INCH	2ED-	
J1L	ANNS PERS ACCESS AIRLOCK(R20)	0MA-MCOR-684	A
J1R	S TON MAKEUP TANK HOIST	0MM-EMOT-073	A

COMPT NO.	LOAD	UNID	DETAIL
J2L	RB INTERFACE AREA UNLT HTR	2VA-ENTR-196	A
J2R	S TON CHR PUMP 2A HOIST	2MM-MMHE-022	A
J3L	PERS ACCESS AIR LOCK (R21)	0MA-MCOR-686	A
J3R	ST V RM 2B UNDERHUNG CRANE	2MM-WCRN-015	A
J4	CF TANK 2A BLEED & SAMPLE MOV (CF-HV2A)	2NL-IFCV-065	J
J5	480V POWER RECEPTACLES A,B	2ED-ERCP-033	C
K1L	AUX INSTR RM DUCT HTR	0VL-ENTR-026	A
K1R	COUNTING ROOM DUCT HTR	0VC-ENTR-039	A
K2L	AUX CONTROL ROOM DUCT HTR	0VG-ENTR-101	A
K2R	EL 639 HALLWAY UNLT HTR	2VA-ENTR-189	A
K3L	RM 31 348 V RM 2A UNLT HTR	2VC-ENTR-147	A
K3R	RB INTERFACE AREA UNLT HTR	2VA-ENTR-193	A
K4	HOT SAMPLING ROOM HOOD FAN	2VA-EMOT-184	D
K5L	MU-HPI PUMP B RMU HOIST	2MM-MMHE-019	A
K5R	MU-HPI PUMP B RBS PMP HOIST	2MM-MMHE-020	A
K6	FUTURE - 12 INCH	2ED-	
L1	SEPARATION MOV	2KC-IFCV-139	H
L2	RETURN HDR ISLN MOV	2KC-IFCV-140	H
L3	SEPARATION MOV	2KC-IFCV-375	H
L4	RETURN HDR ISLN MOV	2KC-IFCV-376	H
L5	SPARE	2ED-	H
L6	SPARE	2ED-	H
M1	SPARE	2ED-	J
M2	SPARE 1372	2ED-	J
M4	RB NORMAL CIRCULATION FAN	2VH-EMOT-109	L
M5	SPARE	2ED-	L
N1	REACTOR VESSEL CAVITY SUMP PUMP 241	2WE-EMOT-205	L
N2	SPARE	2ED-	L
N4	STEAM GEN 2A MFW STOP MOV	2CF-IFCV-073	H
N5	FUTURE - 12 INCH	2ED-	
N6	FUTURE - 12 INCH	2ED-	
P1	125 VOLT DC BATTERY CHARGER #2	0EQ-EBC-038	N
P3	FUTURE 12 - INCH	2ED-	
P4	STUP CIRCULATION PUMP 2A DISCHARGE TO ST GEN MOV	2CF-IFCV-085	H
P5	RETURN HDR ISLN MOV	2KC-IFCV-377	H
P6	RETURN HDR ISLN MOV	2KC-IFCV-378	H
Q1	RETURN HDR TRAIN ISLN MOV	2KC-IFCV-379	H
Q2L	BAT. RM. HOT WATER HEATER	0VP-ENTR-208	A
Q2R	AERORAME RADM NON FCR	2ER-ILPR-003	A
Q3	UNIT 2 AUX INSTR ROOM AHU	0VL-EMOT-363	D
Q4	FUTURE - 12 INCH	2ED-	
Q5	FUTURE - 12 INCH	2ED-	
Q6	FUTURE - 12 INCH	2ED-	



NOTES:

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 75K5-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30, 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 FRN FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRN FUSE.
7. GROUND FAULT PROTECTION (50GS), ITE TYPE GRN-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
8. BUS LOSS OF VOLTAGE IS TO BE MONITORED BY ONE OR MORE ALARM OR ANNUNCIATION SYSTEMS. SEE REFERENCED "ED" SYSTEM SCHEMATICS FOR MONITOR ASSIGNMENTS.
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, ADJUSTABLE CIRCUIT BREAKER SETTINGS, AND LOADS FOR 120V AC CIRCUIT BREAKERS, FUSES, AND AUXILIARY PANEL RELAYS.
10. THIS MCC IS NON-CLASS 1E LOCATED IN A CATEGORY I STRUCTURE.
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

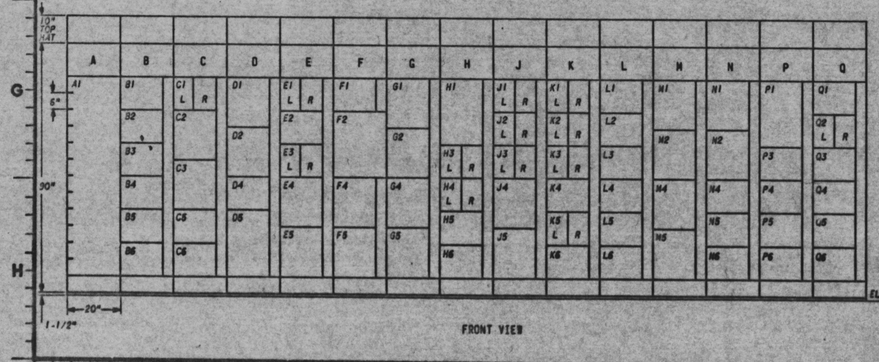
REFERENCED DRAWINGS AND DOCUMENTS:

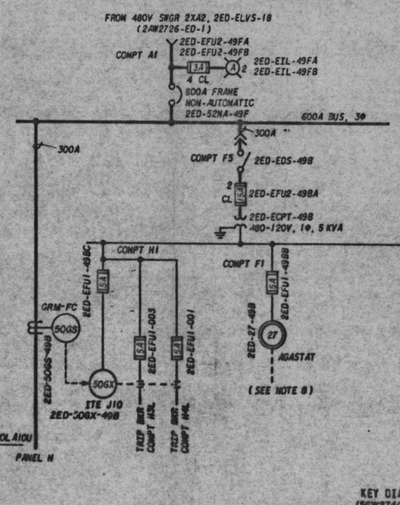
PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE ..... ?GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2XA2 ..... 2AW2726-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5GW2740-ED-22
480V MCC COMPARTMENT TYPICALS 5GW0747-RP
480V MCC 2A4 COMPUTERIZED CIRCUIT SCHEDULE 5AC2754-ED

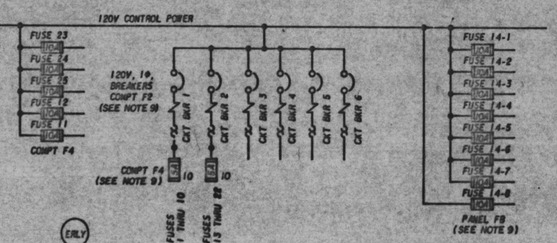
SYMBOLS:

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

PRC APERTURE CARD







KEY DIAGRAM (5GW2740-ED-22)

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

6	1181,899,1174, 1372	7-22-82						
ADDED "HL" SYSTEM LOAD TO COMPT G3. CHANGED LOAD IN COMPT G6. ADDED "HM" SYSTEM LOAD TO COMPT C5. DELETED "HL" SYSTEM LOAD FROM COMPT H1. MINOR CHANGE.								
5	920, 51	3-21-80						
RELOCATED LOAD. MADE MINOR CHANGES.								
2	51	12-27-79						
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4								
1	88,139,70,51	4-15-78						
INCREASE CAPACITY OF AHU PER ECN 88. SEND E LOAD PER ECN 104. INTERCHANGED RCP MOTOR'S SPACE HTR SUPPLIES PER ECN 70 INCORPORATED UNIT SYS. ECN REV PER ECN 51-VARIOUS.								

REV NO.	ECN NO.	DATE						

DRAWN R.E. MILLSAPS/L.P. MOODLEY
DESIGNED C.H.T./A. VOLCAN
CHKD J.D. JORDN
SUPV H.L. ALBRECHT

C.T. Garner

SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 2

SINGLE LINE
480V MCC 2A4
2ED-EMCC-49

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C.T. Garner RECOMMENDED A.L. Sanger APPROVED R.M. Helms

KNOXVILLE 12-6-76

08 E SAW2734-ED-1 R4

THIS DRAWING CONTAINS CONFIDENTIAL

INSPECTED AND APPROVED FOR ISSUE