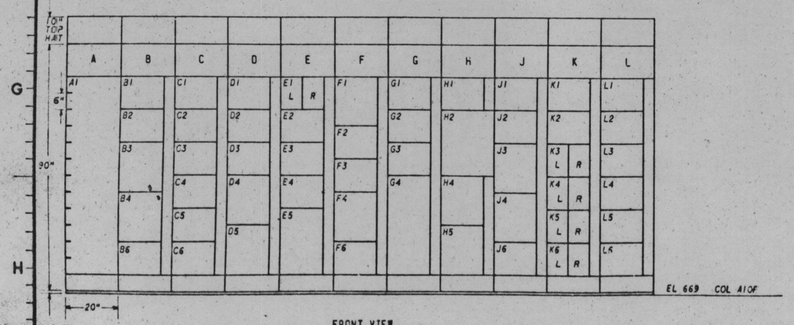
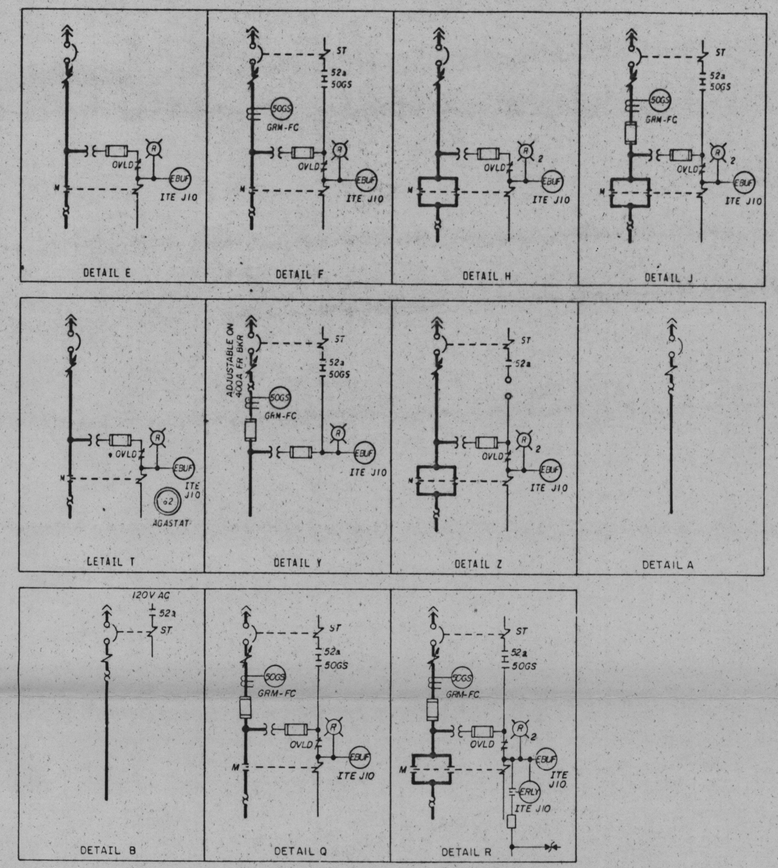
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DRAWING REFERENCE
A1	MAIN BREAKER	2EI-52NA-61F-A	SEE KEY DIAG		
B1	ZONE 2A WATER CHILLER AREA AHU	2VA-EMOT-181-A	E	20HP	5GW2740-VA-08
B2	ZONE 2A ESSENTIAL ELEC EQPT ROOM EXH FAN	2VA-EMOT-032-A	E	10 HP	5GW2740-VA-05
B3	SPARE	2EI	J		
B4	SPARE	2EI	Q		
B6	FUTURE - 12 INCH	2EI			
C1	SPARE	2EI	T		
C2	ZONE 2A ESSENTIAL ELEC EQPT ROOM SUPPLY FAN	2VA-EMOT-014-A	E	7.5 HP	5GW2740-VA-03
C3	ZONE 2A EL 669 ESSENTIAL ELEC EQPT ROOM AHU	2VA-EMOT-044-A	E	20 HP	5GW2740-VA-07
C4	BORIC ACID PUMP 2A-A	2NB-EMOT-005-A	E	15 HP	5GW2740-NB-07
C5	MKUP/HPI PUMP 2A1-A LUBE OIL PUMP	2NV-EMOT-860-A	E	1 HP	5GW2740-NV-05
C6	SPARE	2EI	E		
D1	MKUP HPI PUMP 2A1-A ROOM AHU	2VA-EMOT-048-A	E	7.5 HP	5GW2740-VA-06
D2	SPARE	2EI	E		
D3	ZONE 2A CCS PUMP ROOM AHU	2VA-EMOT-047-A	E	15 HP	5GW2740-VA-06
D4	DUMP TO SUMP ISOLATION MOV	2ND-IFCV-236-A	R	0.7 HP	5GW2740-ND-12
D5	LETDOWN LINE DUMP TO SUMP ISOLATION MOV	2ND-IFCV-240-A	R	0.7 HP	5GW2740-ND-14
E1L	AUX CONTROL ROOM AC UNIT	2VC-EMOT-054-A	A	45.2KVA	5GW2740-VC-09
E1R	HOR FOR SP 2A VITAL BATT ROOM	2EU-EBC-54-S	A	44KVA	5GW2640-EU-01
E2	ZONE 2A 125V VITAL BATTERY RM AHU	2VA-EMOT-043-A	E	10 HP	5GW2740-VA-07
E3	SPARE	2EI	E		
E4	SPARE	2EI	E		
E5	ZONE 2A MECH EQPT ROOM EXHAUST FAN	2VA-EMOT-022-A	F	50 HP	5GW2740-VA-04
F1	HYDROGEN RECIRCULATION FAN	2NO-EMOT-002-A	Q	20 HP	5GW0640-NO-02
F2	RB CC OUTLET OUTSIDE ISOLATION MOV (CC-HV3)	2KC-IFCV-212-A	H	0.66 HP	5GW2740-KC-14
F3	RB CC LOAD CONTROL ISOLATION (CC-HV32)	2KC-IFCV-147-A	H	0.66 HP	5GW2740-KC-09
F4	ZONE 2A MECH EQPT ROOM SUPPLY FAN	2VA-EMOT-008-A	T	15 HP	5GW2740-VA-02
F6	FUTURE - 12 INCH	2EI			
G1	SPARE	2EI	Z		
G2	SPARE	2EI	Z		
G3	ERCW SUPPLY HOR A TO DSL GEN 2A-A HX MOV	2KE-IFCV-295-A	H	0.13 HP	5GW2740-KE-18
G4	HYDROGEN RECOMBINER 2A-A	2NO-EHTR-006-A	Y	75 KW	5GW0640-NO-04
H1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
H2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
H4	FUSE COMPT		SEE KEY DIAG		
H5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
J1	TRAIN 2A HPI PUMP SUCTION FROM CWST MOV (MU-HV47A)	2NV-IFCV-450-A	H	1.66 HP	5GW2740-NV-12

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DRAWING REFERENCE
J2	DHR TO MKUP HPI PUMP MOV	2ND-IFCV-068-A	H	0.66 HP	5GW2740-ND-07
J3	MKUP LETDOWN SHUTOFF INLET MOV	2NV-IFCV-021-A	J	1.33 HP	5GW2740-NV-07
J4	MKUP LETDOWN SHUTOFF INLET MOV	2NV-IFCV-028-A	J	1.33 HP	5GW2740-NV-07
J6		2KC-IFCV-314-A	H	0.66 HP	5GW2740-KC-27
K1	SPARE	2EI	E		
K2	FUTURE-12 INCH	2EI			
K3L	ZONE 2A WTR CHILLER OIL PUMP	2VE-EMOT-299-A	A	8 KVA	5GW2740-VE-04
K3R	FUTURE - HALF-COMPT	2EI			
K4L	CONMT HYDROGEN ANALYZER	2LX-IXPR-901-A	A	6.6 KVA	5GW0640-NO-06
K4R	SPARE	2EI	A		
K5L	HEAT TRACING SYSTEM FOR	2MC-ET-2	B	20 KVA	5GW1740-MC-02
K5R	HEAT TRACING SYSTEM FOR	2MC-ET-11	B	20 KVA	5GW2740-MC-05
K6L	HEAT TRACING SYSTEM FOR	2MC-ET-1	B	15 KVA	5GW1740-MC-02
K6R	FUTURE - HALF COMPT	2EI			
L1	MKUP TANK OUTLET MOV	2NV-IFCV-452-A	H	0.66 HP	5GW2740-NV-13
L2	MKUP PUMP RECIRCULATION MOV (MU-HV49A)	2NV-IFCV-077-A	H	1.6 HP	5GW2740-NV-14
L3	ERCW SUPPLY HOR 2A TO AUX BLDG COM ZONE WC MOV	2KE-IFCV-128-A	H	0.13 HP	5GW2740-KE-15
L4	MKUP/HPI TO RCP P2A1 MOV (MU-HV51A)	2NV-IFCV-101-A	H	0.5 HP	5GW2740-NV-15
L5	MKUP/HPI TO RCP P2A2 MOV (MU-HV51B)	2NV-IFCV-113-A	H	0.5 HP	5GW2740-NV-15
L6	CC WATER COOLER 006-A HX INLET MOV	2KC IFCV-313-A	H	0.66 HP	5GW2740-KC-27





NOTES:

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 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 FNQ 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 GRM-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
8. THE PRIMARY OF THE 5 KVA 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 & 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 SYSTEM SINGLE LINE . . . 1GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2EX1-A. . . . 2AW2726-EI-1
480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC. 5GW2740-EI-09
480V MCC COMPARTMENT TYPICALS 5GW0747-RP
480V MCC 2E1-A COMPUTERIZED CIRCUIT SCHEDULE. . . 5AC2762-EI

SYMBOLS:

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

REV NO	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	TRANSMITTAL	CONTM	APPD
7	S1	7-11-72	CMW	LMW	FRB	WF	WF		WF	LCS	WF
	ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SHEET 3										
6	1299	6-1-72	CMW	WF	MO	WF	WF		WF	LCS	WF
	RELOCATE AND DECLASSIFY "MC" SYSTEM LOADS										
5	851,1299	9-25-71	WF	WF	KGM	WF	WF		WF	WF	KMW
	ADDED "1X" SYSTEM LOAD TO COMPT K4L. ADDED "MC" SYSTEM LOAD TO COMPT K2R.										
4	1006	12-1-70	WF	WF	7-9	7-9	WF	WF	WF	LCS	WF
	ADDED LOAD.										
3	613,51	3-17-70	CMW	7-9	7-9	WF	WF	-	WF	LCS	WF
	ADDED LOADS, CORRECT UNID.										
2	S1	1-5-70	CMW	FRB	7-9	WF	WF	-	WF	LCS	WF
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.										
1	S1,83	4-2-70	ENG	SIM	RBL	WF	CB		CTF	LCS	WF
	INCORPORATED UNID SYS. GEN REV PER S1-VARIOUS. ADDED AHU AND INCREASED CAPACITIES PER ECN 83.										

DSGN L.P. MCCOLLEY
DRWN R. WILLIAMS
CHKD E.N. IRWIN
SUPV W.L. ALDRIDGE
INSP
ENGINEER C.T. Garner

SCALE: NTS — EXCEPT AS NOTED

AUXILIARY BUILDING
UNIT 2

SINGLE LINE
480V MCC 2E1-A
2EI-EMCC-61-A

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED C.T. Garner — RECOMMENDED — APPROVED

KNOXVILLE 2-6-74 — 88 E SAW2732-EI-1 R7

RECORD DRAWING AS CONSTRUCTED

Docket # 50-438
Control # 8301405036
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

COMPANION DWG:
5AW2732-EI-03
5AW2732-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRINT SIZE H L F O