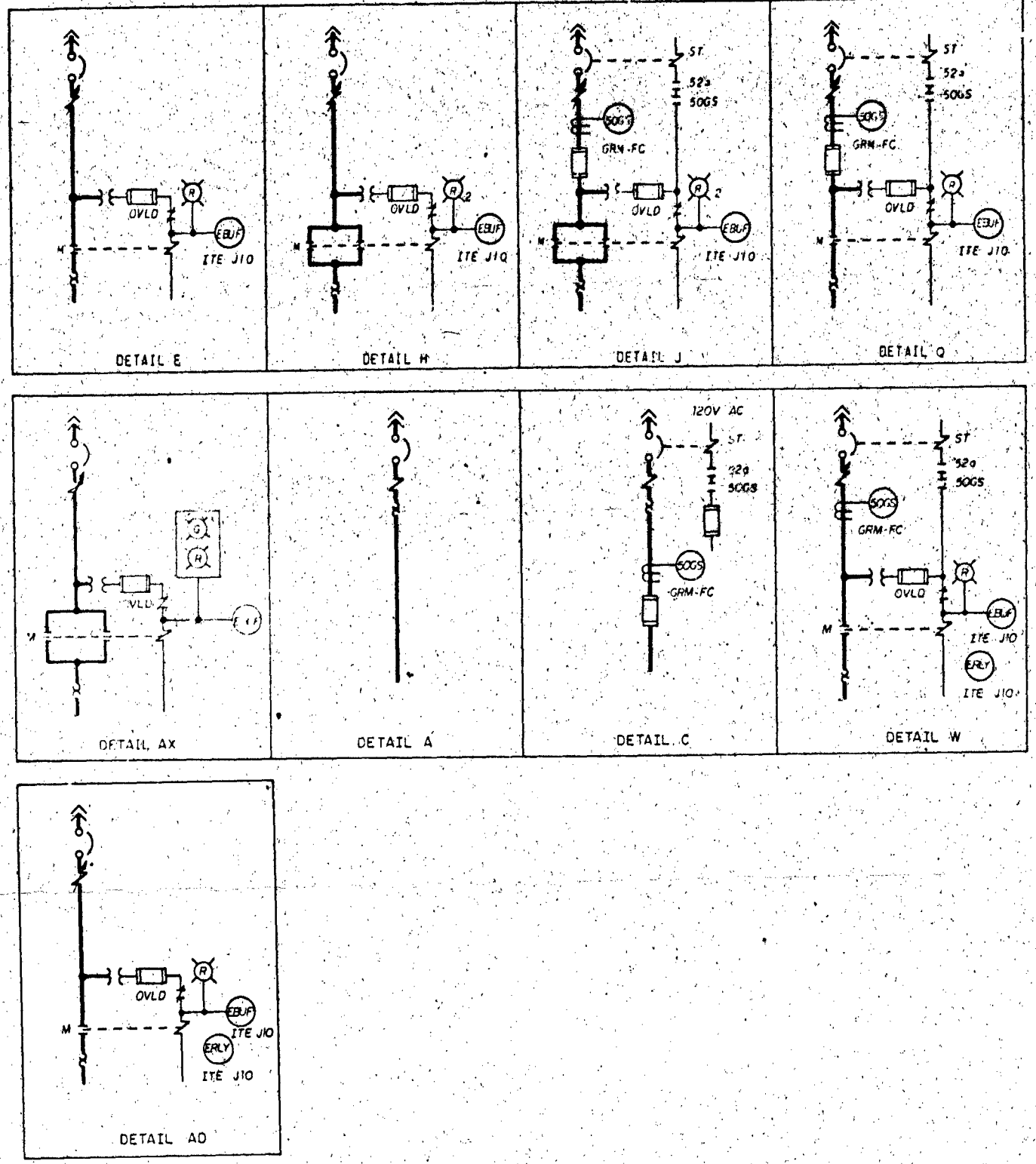


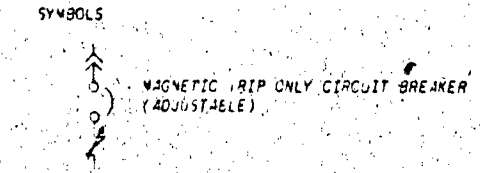
COMP NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	WAIN BREAKER	2EI-32NA-70F-B	SEE KEY DIAG		
B1	SPARE	2EI	M		
B3	CFT 2B ISOLATION OUTLET MOV (CF HV1B)	2VL-IFCV-079-B	J	264HP	5GW0640-NL-09
C1	SPARE	2EI	J		
C2	SPARE	2EI	J		
C4	FUEL HANDLING AREA EXH FAN	2VB-EMOT-010-B	#	75HP	5GW2740-VB-07
C6	FUTURE - 6 INCH	2EI			
D1	RCP P2A2 LUBE OIL PUMP B	2NC-EMOT-030-B	Q	25HP	5GW2740-NC-06
D3	FUTURE - 12 INCH	2EI			
D4	SPARE	2EI	M		
E1	STEAM GEN 2B MAIN FW ISLN VLV	2CF-IFCV-080-B	E	2HP	5GW2640-CF-09
E2	RCP P2B2 LUBE OIL PUMP B	2NC-EMOT-030-B	Q	25HP	5GW2740-NC-06
E5	2ND ZONE EL 299 AREA AHU	2VA-EMOT-197-B	E	3HP	5GW2740-VA-16
E6	FUTURE - 12 INCH	2EI			
F1	STARTUP B RECIRC PMP ISLN FROM ST GEN B	2SM-IFCV-040-B	H	26HP	5GW2640-SM-03
F2	SPARE	2EI	O		
F3	STEAM GEN 2A MAIN FW ISLN VLV	2CF-IFCV-080-B	E	2HP	5GW2640-CF-09
F4	RCP P2B2 LUBE OIL PUMP B	2NC-EMOT-030-B	Q	25HP	5GW2740-NC-06
G1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
G2	120V 1P-0KT BKR COMPT		SEE KEY DIAG		
G4	FUSE COMPT		SEE KEY DIAG		
G5	MCC CONTROLLER TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
H1	FUEL HANDLING AREA EXH FAN	2VB-EMOT-010-B	#	75HP	5GW2740-VB-07
H2	STEAM GEN 2A MAIN FW ISLN VLV	2CF-IFCV-080-B	E	2HP	5GW2640-CF-09
H3	FUTURE - 12 INCH	2EI			
H4	RCP P2A2 LUBE OIL PUMP B	2NC-EMOT-030-B	Q	25HP	5GW2740-NC-06
H5	CRD COOLING PUMP 2B	2ND-EMOT-002-B	E	25HP	5GW2740-KO-02
H6	FUTURE - 12 INCH	2EI			
H7	ZONE 2B EL 299 AREA AHU	2VA-EMOT-197-B	E	3HP	5GW2740-VA-16

COMP NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	FUTURE 12 INCH	2EI			
J3	SPARE	2EI	E		
J4	SPARE	2EI	E		
J5	CRD COOLING RB INLET ISOLATION MOV (CC-HV3)	2ND-IFCV-045-B	H	0.33HP	5GW2740-KO-03
J6	ZONE 2B EL 299 AREA AHU	2VA-EMOT-197-B	E	7.5HP	5GW2740-VA-16
K1	FIRE PROTECTION SYSTEM ISOLATION MOV	2RF-IFCV-A09-B	H	0.13HP	5GW0640-RF-45
K2	TRAIN B ERCW SUPPLY TO AFW TURBINE PUMP MOV	2CA-IFCV-092-B	H	1HP	5GW0640-CA-12
K3	ST GEN A VLV COLD SHUTDOWN	2NM-IFCV-068-B	AX	0.37HP	5GW2640-SM-31
K4	COHE FLOODING TANK CO VENT TO WD RC DRAIN TANK	2NL-IFCV-062-B	J	0.13HP	5GW0640-NL-02
K5	SPARE	2EI	J		
L1L	CNTMT PURGE EXH RADN MON FDR	2EI-ILPR-029-B	A	3.4KVA	5GW0640-IR-02
L1R	SPARE	2EI	A		
L2L	SPARE	2EI	A		
L2R	FUTURE - HALF COMPT	2EI			
L3	TRAIN B ERCW SUPPLY TO AFW TURBINE PUMP MOV	2CA-IFCV-091-B	H	1HP	5GW0640-CA-11
L4	SPARE	2EI	J		
L5	SPARE	2EI	J		
M1	STARTUP B RECIRC PMP ISLN FROM ST GEN B	2SM-IFCV-040-B	H	26HP	5GW2640-SM-03
M2	AFW TURBINE PMP DISCHARGE TO ST GEN 2A MOV	2CA-IFCV-064-B	H	1.6HP	5GW0640-CA-14
M3	SPARE	2EI	C		
M4	CRD COOLING RB OUTLET ISOLATION MOV (CC-HV5)	2KD-IFCV-053-B	J	0.33HP	5GW2740-KO-04
M6	FUEL HANDLING AREA SUPPLY FAN	2VB-EMOT-002-B	E	25HP	5GW2740-VB-03
N1	WD RC DRAIN TANK VENT MOV (WD-HV1)	2WG-IFCV-011-B	J	0.33HP	5GW2740-WD-05
N2	WD RB NORMAL SUMP PUMP SUCTION MOV (WD-HV3)	2WL-IFCV-068-B	J	0.33HP	5GW2740-WD-06
N4	WD RC DRAIN TANK SHUTOFF MOV (WD-HV5)	2WL-IFCV-090-B	J	0.66HP	5GW2740-WD-06
N5	SEC CONTAINMENT CLEANUP FAN	2VX-EMOT-004-B	AD	25HP	5GW2740-VX-05
N6	FUTURE - 6 INCH	2EI			
P1	STEAM GEN 2B MAIN FW ISLN VLV	2CF-IFCV-080-B	E	2HP	5GW2640-CF-09
P2	FIRE PROTECTION SYSTEM ISLN MOV	2RF-IFCV-A09-B	H	0.13HP	5GW0640-RF-45
P3	SPARE	2EI	J		
P4	RCP P2A2 LUBE OIL PUMP B	2NC-EMOT-032-B	Q	25HP	5GW2740-NC-10



- NOTES
- 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 BY GOULD/ITE
 - ALL WOLDED CASE 480V CIRCUIT BREAKERS ARE 30,000 AMP 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 45 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "ME" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
 - ALL WOLDED CASE 120V CIRCUIT BREAKERS ARE 10,000A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "80" SERIES.
 - ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 100, MIDGET TYPE 2.
 - FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "J" CURRENT LIMITING FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
 - ALL CONTROL TRANSFORMERS ARE 10,000VA WITH GROUNDING SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMANN TYPE FNO FUSE. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE 1RM FUSE.
 - GROUND FAULT PROTECTION (50GS), ITE TYPE 50V-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
 - THE PRIMARY OF THE SKVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMANN TYPE JMC-15 FUSE.
 - 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.
 - THIS MCC IS CLASS "E"
 - ALL STAT RELAYS ARE OF THE 12000 SERIES.

- REFERENCED DRAWINGS AND DOCUMENTS
- PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE 2040720-RP-01
 - SINGLE LINE DIAGRAM 480V SWITCHGEAR 2E1-B 2482727-LI-1
 - 480V CLASS "E" AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5GW2740-EI-16
 - 480V MCC COMPARTMENT TYPICALS 5GW0747-RP
 - 480V MCC 2E5-B COMPUTERIZED CIRCUIT SCHEDULE 5AC2767-EI



Docket # 52-438
Control # 876445057C
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD

	A	B	C	D	E	F	G	H	J	K	L	M	N	P
A1	E1	C1	D1	E1	F1	G1	H1	J1	K1	L1	M1	N1	P1	
		C2		E2	F2	G2	H2	J2	K2	L2	M2	N2	P2	
		C4	D3		F3	G4	H4	J4	K4	L4	M4	N4	P4	
			D4	E5	F4		H5	J5	K5	L5	M5	N5		
				E6			H6	J6	K6	L6	M6	N6		

4 1372 51

ADDED NL SYS LOAD TO COMPARTMENT 480V MCC 2E5-B SCHEMATIC DWG REF COU TO TABLE REV NOTES B & B AND MOVED KEY DIAGRAM TO SHEET 3

3 1920

INCREASE SIZE OF COMPARTMENTS TO ALLOW FOR CHANGING FROM SIZE 2 TO SIZE 3 MOTOR STARTERS

2 51

RECORD DWG REV FOR THE MCC COMPUTERIZED CNT SCH HISTORICAL DATA BASE RA

1 31-83

INCORPORATED UNID SYS. GEN REV PER ECH 51-VARIOUS. ADDED ANU PER ECH 07.

REV NO	ECN NO	DATE	DESCRIPTION	BY	CHKD	APPD

DESIGN: C. T. BANNER
CHECKED: C. T. BANNER
ENGINEER: C. T. BANNER

SCALE: TYPICALS EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 2

SINGLE LINE 480V MCC 2E5-B 2EI-EMCC-70-B

BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN

SUBMITTED: C. T. Banner
RECOMMENDED: J. L. Banner
APPROVED: R. M. Hedger

KNOXVILLE 2-8-74 88 E SAW2737-EI-1