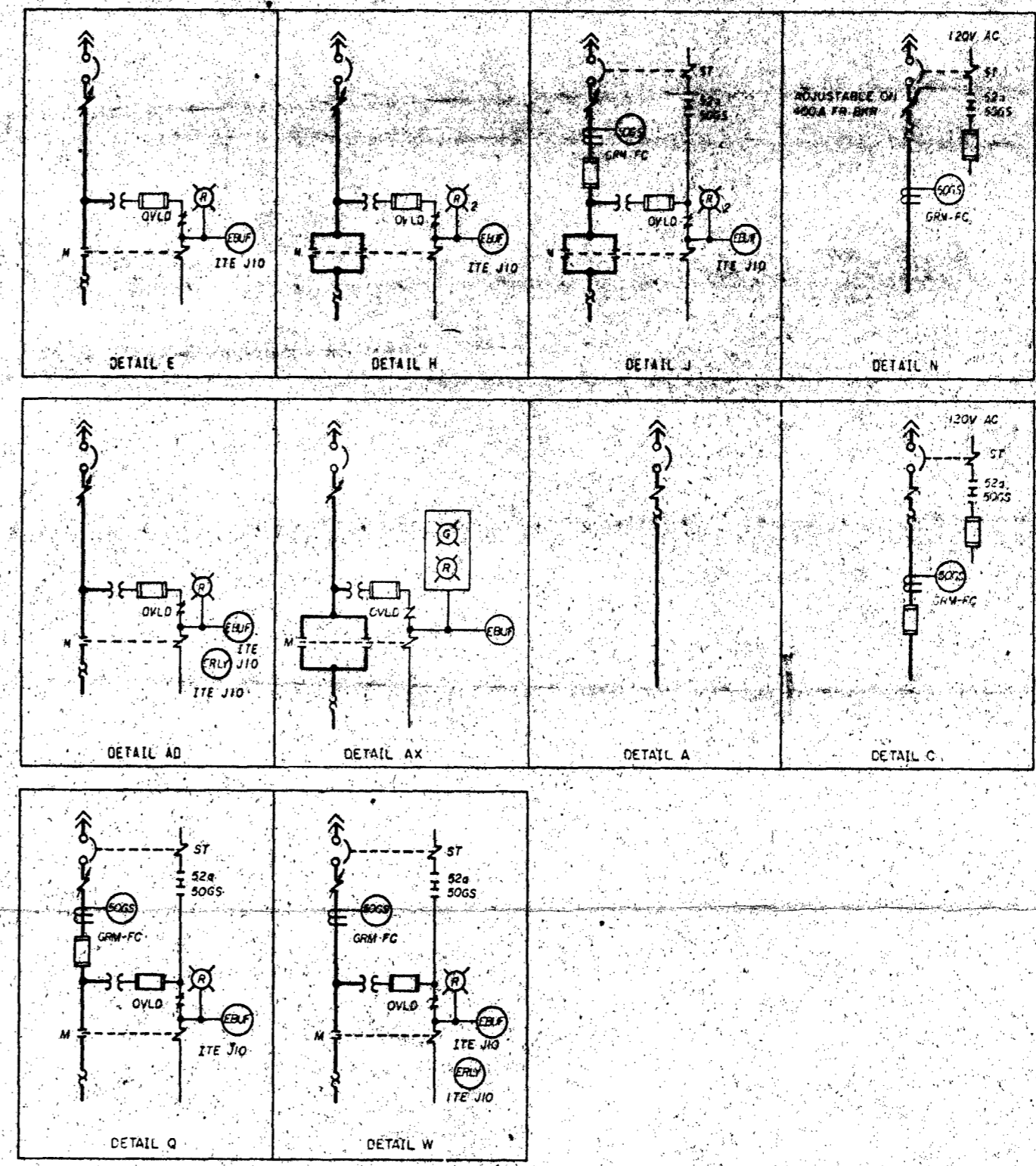


COMP NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
A1	MAIN BREAKER	1EI-52NA-65F-A	SEE KEY LEG		
B1L	STATION VENT RADN MON FOR INVA STA VENT RADN MON FOR	1IR-LPA-04F-A 1IR-LPR-01B-A	SEE KEY LEG	3.4KVA	5GW0640-1R-02
B2	CORE FLOODING TANK O22 VENT TO WD RC DRAIN TANK	1NL-IFCV-064-A	J	3.4KVA	5GW0640-1R-02
B4	OFF ISOLATION OUTLET MOV (CF-HV1A)	1NL-IFCV-078-A	J	20.4HP	5GW0640-NL-04
C1L	MCR INLET AIR RADN MON FOR PRI CNTMT RADN MON LA FOR	0TR-LPA-024-A 1IR-LPR-01A-A	A	3.4KVA	5GW0640-1R-02
C2L	CNTMT PURGE FAN RADN MON	1IR-LPR-028-A	A	3.4KVA	5GW0640-1R-02
C2R	GROUP 1K RADN MON	1OS-LAE-005A-A	A		5GW0640-05-03
C3	FUEL HANDLING AREA SUPPLY FAN	1VB-EMOT-001-A	E	25HP	5GW1740-VB-02
C4	FUEL HANDLING AREA EXH FAN	1VR-EMOT-009-A	F	7.5HP	5GW1740-VB-05
C6	FUTURE - 6 INCH	1EI			
D1L	AIRBORNE RADN MON FOR FUEL HANDLING AREA RH HTR	0TR-LPA-014-A 1VB-ENTR-028-A	A	3.4KVA	5GW0640-1R-02
D2	SEC CONTAINMENT CLEANUP FAN	1VX-EMOT-003-A	AD	25HP	5GW1740-VX-04
D3	SPARE	1EI	J		
D4	CRO COOLING PUMP 1A-A	1KD-EMOT-001-A	E	25HP	5GW1740-KD-02
D5	TO 480/208-120V XFMR FOR STANDBY AC LIGHTING CAB	1EN-ELS-001	C	425KVA	5GW1747-EN-01
E1	ZONE 1A EL 629 AREA 4HU	1VA-EMOT-185-A	E	3HP	5GW1740-VA-08
E2	SPARE	1EI	F		
E3	ST 0741B ATMISSHERIC DUMP VALV GOLD SHUTDOWN	1SM-IFCV-869-A	AK	3.5HP	5GW1640-0M-31
E4	SPARE	1EI	C		
E5	FUTURE - 18 INCH	1EI			
F1	DHR FAN	1VX-EMOT-002-A	E	3HP	5GW1740-VX-03
F2	RCP P1A1 LUBE OIL PUMP A	1NC-EMOT-029-A	Q	25HP	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	CNTMT BLDG EXH AIR EXH UNIT FAN	1VY-EMOT-005-A	E	15HP	5GW0640-VK-02
H4	SPARE	1EI	E		
H5	FIRE PROTECTION SYSTEM ISOLATION MOV	1RF-IFCV-007-A	H	0.13HR	5GW0640-RF-44

COMP NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
M6	FUTURE - 6 INCH	1EI			
J1	MCC LOSS OF VOLTAGE RLY	1EI	SEE KEY LEG		
J2	120V-1P-CKT BRK COMPT		SEE KEY LEG		
J4	FUSE COMPT		SEE KEY LEG		
J5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY LEG		
K1	PHOSPHORIZER SPRAY ISOLATION MOV (NC-HV10)	1NC-IFCV-010-A	J	0.7HP	5GW1740-NC-12
K2	SPARE	1EI	J		
K4	SPARE	1EI	H-Q		
K5	RC PRESSURIZER SPRAY RELIEF ISLN MOV (RC-HV11)	1NC-IFCV-057-A	J	1.9HP	5GW1740-NC-13
L1	SPARE	1EI	E		
L2	ZONE 1A EL 649 ESSENTIAL ELEC FOOT ROOM 4HU	1VA-EMOT-045-A	E	20HP	5GW1740-VA-07
L3	FIRE PROTECTION SYSTEM ISOLATION MOV	1RF-IFCV-A03-A	H	0.13HP	5GW0640-RF-43
L4	TRAIN 1A ESS CONTROL AIR ISLN MOV	1RU-IFCV-267-A	H	0.7HP	5GW1640-RK-03
L5	TRAIN 1A SERVICE AIR ISLN MOV	1RU-IFCV-028-A	H	0.13HP	5GW1640-RK-03
L6	CRO COOLING RB OUTLET ISOLATION MOV (CC-HV4)	1KD-IFCV-054-A	H	0.33HP	5GW1740-KD-04
M1	AUX BLDG ISOLATION MOV	0SA-IFCV-065-A	H	2HP	5GW0640-SA-03
M2	TRAIN A ERCV SUPPLY TO AFW TURBINE PUMP MOV	1CA-IFCV-016-A	H	1HP	5GW0640-CA-09
M3	TRAIN A ERCV SUPPLY TO AFW TURBINE PUMP MOV	1CA-IFCV-017-A	H	1HP	5GW0640-CA-10
M4	STARTUP B RECHRG PMP ISLN FROM ST GEN A	1SM-IFCV-053-A	H	2.6HP	5GW1640-SM-02
M5	AFW TURBINE PUMP DISCHARGE TO STEAM GEN 1B MOV	1CA-IFCV-071-A	H	1.6HP	5GW0640-CA-14
M6	FUTURE-12 INCH	1EI			
N1	ZONE 1A EL 590 AREA 4HU	1VA-EMOT-186-A	E	7.5HP	5GW1740-VA-08
N2	AUX BLDG ROOF-ST TO CAST WASHDOWN ISLN MOV	0SA-IFCV-609-A	H	0.65HP	5GW0640-SA-02
N3	SEC CNTMT CLEANUP RH HTR FUTURE HALF COMPT	1VX-EHTR-005-A	A	24KW	5GW1740-VX-06
N4	SPARE	1EI	C		
N5	SPARE	1EI	C		



NOTES

- 480V MOTOR CONTROL CENTER PROVIDED ON TIA CONTRACT NO. 7483-8624P BY GOULD/ITE
- ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30,000 WITH AN INTERRUPPING RATING OF NOT LESS THAN 25,000 ANS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 5% INCREASING VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HE" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
- ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 10,000A FRAME, THERMAL MAGNETIC WITH 1/2" TRIP, ITE "90" SERIES.
- ALL 5A AND 10A FUSES ARE GOULD/SHANNUT, AMP. TRAP, 100M, 600, MIDGET, TYPE 2.
- FUSES IN THE POWER CIRCUITS ARE GOULD/SHANNUT CLASS "F" CURRENT LIMITING. FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
- ALL CONTROL TRANSFORMERS ARE 10,000/120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 180 VA TRANSFORMER IS FUSED WITH A 1 SA DUAL-ELEMENT TIME-DELAY, BUSSMANN TYPE FNO FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3 SA DUAL-ELEMENT TIME-DELAY GOULD/SHANNUT TYPE TRN FUSE.
- GROUND FAULT PROTECTION (GFGS) TYPE GRM-FC PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
- THE PRIMARY OF THE 350VA CONTROL POWER TRANSFORMER IS FUSED WITH A 1SA TIME DELAY, BUSSMANN TYPE VHC-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 "SWICE RATINGS AND ADJUSTABLE CIRCUIT BREAKER SETTINGS."
- THIS "CC" IS CLASS "E"
- ALL AGASTAT RELAYS ARE OF THE 1000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

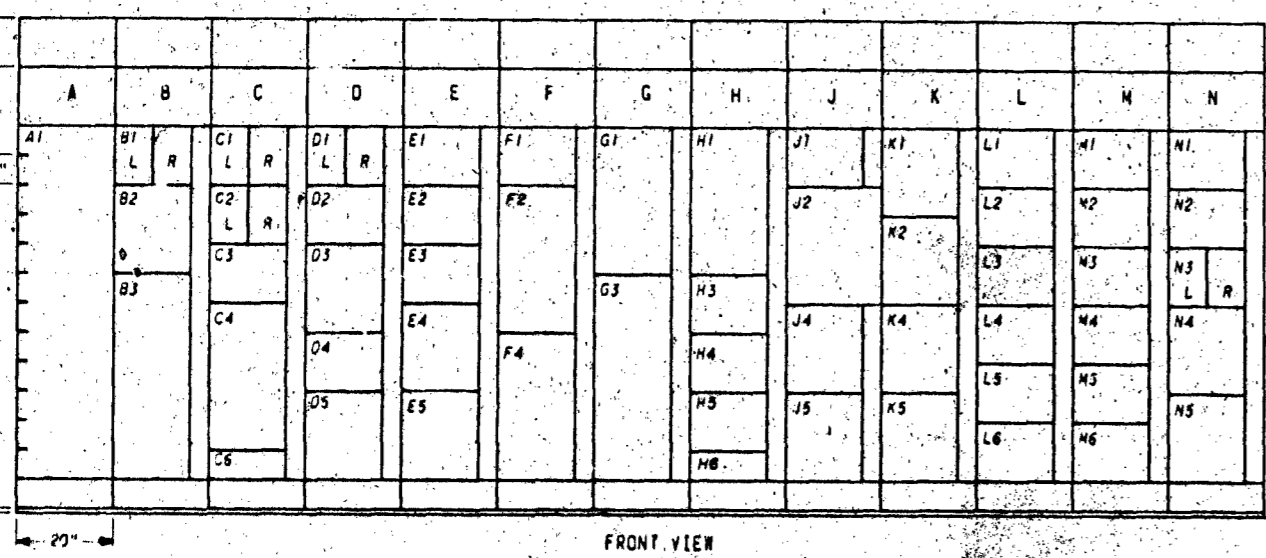
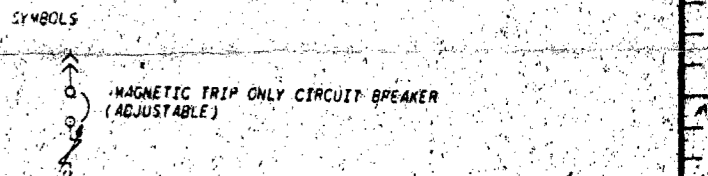
PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE 200720-RP-01

SINGLE LINE DIAGRAM 480V SWITCHGEAR 1E1-A 241/26-EI-1

480V CLASS 5 AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5GW1740-EI-15

480V MCC COMPARTMENT SYMBOLS 5GW1740-EI-1

480V MCC IES-A COMPUTERIZED CIRCUIT SCHEDULE 5AC1768-EI



EL 649-COL 45R

5-438
 Docket # 80-4050536
 Control # 3-25-83 of Document
 LABORATORY DOCKET FILE

PRC APERTURE CARD

5	1493-1181	1	2	3	4	5	6	7	8	9	10	11	12
1. CEC SYSTEM LOAD TO COMPT 62R DELETED - VAC SYSTEM LEADS FROM COMPTS 62 AND 61. 2. 1/2" SH. 375/1173 3. 1/2" SH. 375/1173 4. 1/2" SH. 375/1173 5. 1/2" SH. 375/1173 6. 1/2" SH. 375/1173 7. 1/2" SH. 375/1173 8. 1/2" SH. 375/1173 9. 1/2" SH. 375/1173 10. 1/2" SH. 375/1173 11. 1/2" SH. 375/1173 12. 1/2" SH. 375/1173 13. 1/2" SH. 375/1173 14. 1/2" SH. 375/1173													
RECORD DWG REV FOR THE MCC COMPUTERIZED CRT SCH HISTORICAL DATA BASE IN FILE # 11-2-76													
INCORPORATED UNIT SYS. SEE REV PER ECR SI-VARIOUS. ADDED AND PER 20V 41													
DESIGNED BY: C. T. GARNER CHECKED BY: G. J. LAMAR DATE: 12-6-74 SCALE: NTS EXCEPT AS NOTED													
AUXILIARY BUILDING UNIT 1 SINGLE LINE 480V MCC IES-A 1EI-EMCC-65-A													
BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN													
SUBMITTED: C. T. Garner RECOMMENDED: G. J. Lamar APPROVED: R. M. Helmer KNOXVILLE 12-6-74 88E 5AW1736-EI-1													

CAMPBELL-DWIG
 SAW1736-EI-03
 SAW1736-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE