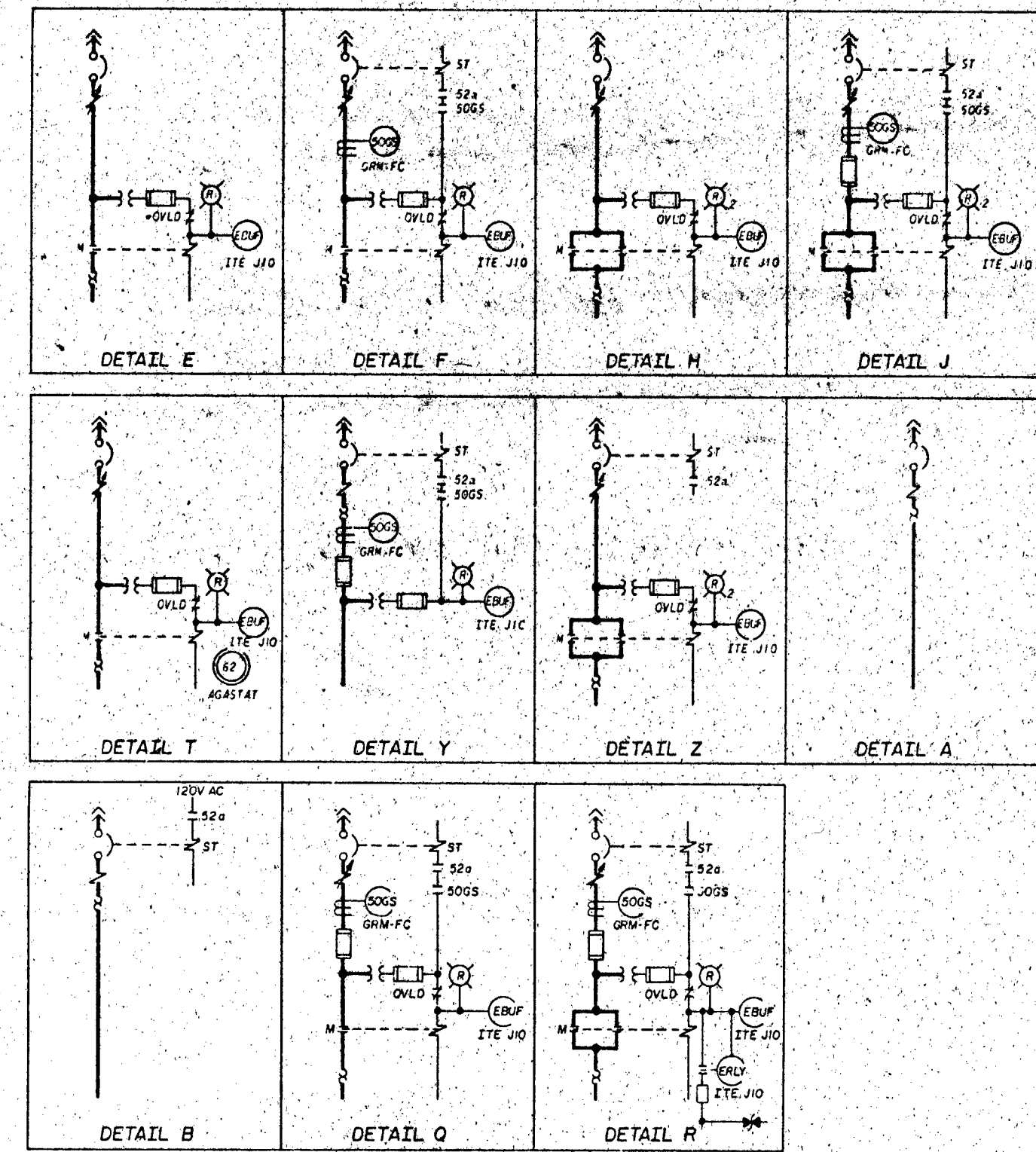


COMPT NO.	LOAD	UNID	DETAILED	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1E1-52NA-61F-A	SEE KEY DIAG		
B1	INTMT HYDROGEN ANALYZER	1E1-EXPR-101-A	A	6.5KVA	5GW0640-NO-06
B2	SPARE	1E1	H		
B3	ZONE 1A WATER CHILLER AREA AHU	1VA-EMOT-181-A	E	20HP	5GW1740-VA-08
B4	SPARE	1E1	E	0.66HP	
B5	CC WATER COOLER 006-A HX BYPASS MOV	1KC-IFCV-314-A	H		5GW1740-KC-27
B6	SPARE	1E1	E		
C1	MKUP LETDOWN SHUTOFF INLET MOV	1NV-IFCV-028-A	J	1.33HP	5GW1740-NV-07
C2	MKUP LETDOWN SHUTOFF INLET MOV	1NV-IFCV-021-A	J	1.33HP	5GW1740-NV-07
C4	SPARE	1E1	E		
C5	MKUP HPT PLANT 1A1-A ROOM JHU	1VA-EMOT-048-A	E	7.5HP	5GW1740-VA-06
C6	ZONE 1A CCS PUMP ROOM AHU	1VA-EMOT-047-A	E	15HP	5GW1740-VA-06
D1	SPARE	1E1	Q		
D2	SPARE	1E1	J		
D4	ZONE 1A 125V VITAL BATTERY RM AHU	1VA-EMOT-043-A	E	10HP	5GW1740-VA-07
D5	ZONE 1A EL 669 ESSENTIAL ELEC EOPT ROOM AHU	1VA-EMOT-044-A	E	20HP	5GW1740-VA-07
E1	HEAT TRACING SYSTEM FOR	1MC-ET-1-A	B	20KVA	5GW1740-MC-02
E1L	MIX CONTROL RW AC UNIT	1VC-EMOT-054-A	A	18.2HP	5GW1740-VC-09
E1R	MIX CONTROL RW AC UNIT	1VC-EMOT-054-A	A	18.2HP	5GW1740-VC-09
E2	Y/C PUMP AREA AC UNIT	1VC-EMOT-184-A	A	44KW	5GW1740-VC-14
E2R	ZONE 1A HTR CHILLER OIL PUMP	1VA-EMOT-292-A	A	8HP	5GW1740-VA-04
E3	MKUP HPT PUMP 1A1-A LOBE OIL PUMP	1NV-EMOT-860-A	E	1HP	5GW1740-NV-05
E4	HYDROGEN RECOMBINER 1A-A	1NO-EMOT-006-A	Y	75KW	5GW0640-NO-04
F1	HYDROGEN RECIRCULATION FAN	1NO-EMOT-002-A	Q	20HP	5GW0640-NO-02
F2	MKUP HPT TO RCP P141 MOV (MU-HV51A)	1NV-IFCV-101-A	H	0.7HP	5GW1740-NV-15
F3	MKUP HPT TO RCP P142 MOV (MU-HV51B)	1NV-IFCV-113-A	H	0.7HP	5GW1740-NV-15
F4	TRAIN 1A HPT PUMP SUCTION FROM BWS1 MOV (MU-HV47A)	1NV-IFCV-450-A	H	1.66HP	5GW1740-NV-12
F5	FUTURE - 18 INCH	1E1			
G1	MKUP TANK OUTLET MOV	1NV-IFCV-452-A	H	0.66HP	5GW1740-NV-13
G2	MKUP PUMP RECIRCULATION MOV (MU-HV49A)	1NV-IFCV-077-A	H	1.6HP	5GW1740-NV-14
G3	ZONE 1A MECH EOPT ROOM SUPPLY FAN	1VA-EMOT-008-A	T	15HP	5GW1740-VA-02
G4	SPARE	1E1	E		
G5	ERCH SUPPLY HOR A TO DSL GEN 1A HX MOV	1KE-IFCV-295-A	H	0.13HP	5GW1740-KE-18
G6	HEAT TRACING SYSTEM FOR	1MC-ET-1-A	B	20KVA	5GW1740-MC-05
H1	SPARE	1E1			
H1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
H2	120V-1P-CKT BKR LCMPT		SEE KEY DIAG		
H3	FUSE COMPT		SEE KEY DIAG		
H5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
J1	DUPIC ACID PUMP 1A-A	1NV-EMOT-007-1	E	15HP	5GW1740-NV-07

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	ZONE 1A ESSENTIAL ELEC EOPT ROOM EXHA FAN	1VA-EMOT-032-A	E	10HP	5GW1740-VA-05
J3	ZONE 1A ESSENTIAL ELEC EOPT ROOM SUPPLY FAN	1VA-EMOT-014-A	E	7.5HP	5GW1740-VA-03
J4	SF COOLER IA INLET MOV (CC-HV32A)	1KC-IFCV-342-A	H	0.33HP	5GW1740-KC-18
J5	SF COOLER IA OUTLET MOV (CC-HV32B)	1KC-IFCV-349-A	H	0.33HP	5GW1740-KC-18
J6	SUPPLY HOR IA TO AUX BLDG COM ZONE WATER CHILLER MOV	1KE-IFCV-128-A	H	0.13HP	5GW1740-KE-15
K1	CC WATER COOLER 006-A HX INLET MOV	1KC-IFCV-313-A	H	0.66HP	5GW1740-KC-27
K2	NO EVAPORATOR INLET MOV (CC-HV28A)	1KC-IFCV-311-A	H	0.33HP	5GW1740-KC-17
K3	NO EVAPORATOR OUTLET MOV (CC-HV28B)	1KC-IFCV-340-A	H	0.33HP	5GW1740-KC-17
K4	RC BLEED EVAPORATOR IA INLET MOV (CC-HV29A)	1KC-IFCV-290-A	H	0.33HP	5GW1740-KC-16
K5	RC BLEED EVAPORATOR IA OUTLET MOV (CC-HV29B)	1KC-IFCV-308-A	H	0.33HP	5GW1740-KC-16
K6	DHR TO MKUP/HPT PUMP MOV	1ND-IFCV-068-A	H	0.66HP	5GW1740-ND-07
L1	SPARE	1E1	Z		
L2	SPARE	1E1	Z		
L3	FUTURE - 12 INCH	1E1			
L4	LETDOWN LINE DUMP TO SUMP ISOLATION MOV	1ND-IFCV-240-A	R	0.7HP	5GW1740-ND-14
L5	DUMP TO SUMP ISOLATION MOV	1ND-IFCV-236-A	R	0.7HP	5GW1740-ND-12
M1	FUTURE-12 INCH	1E1			
M2	FUTURE-12 INCH	1E1			
M3	RB CC OUTLET OUTSIDE ISOLATION MOV (CC-HV2)	1KC-IFCV-212-A	H	0.66HP	5GW1740-KC-14
M4	NB CC LOAD CONTROL OUTSIDE ISOLATION MOV (CC-HV2)	1KC-IFCV-147-A	H	0.66HP	5GW1740-KC-09
M5	ZONE 1A MECH EOPT ROOM EXHAUST FAN	1VA-EMOT-022-A	F	50HP	5GW1740-VA-04



NOTES:

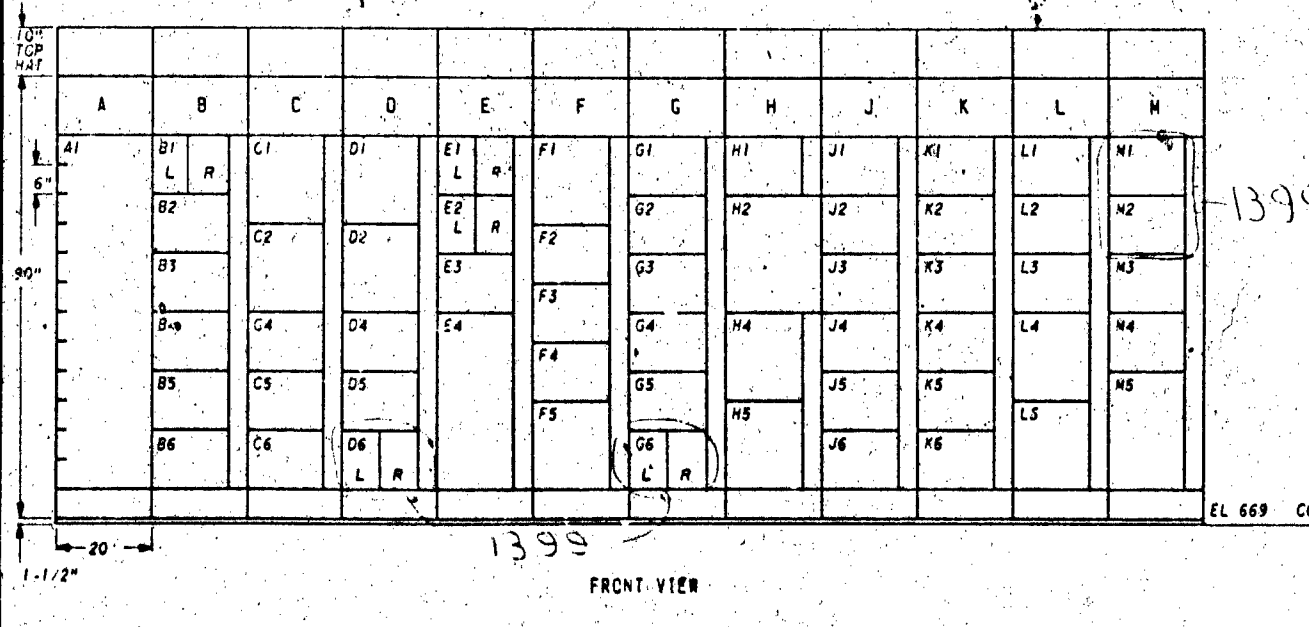
- 480V MOTOR CONTROL CENTER PROVIDED ON IYA CONTRACT NO. 76K5-96242 BY GULDFILTE
- ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 20 KVM WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 MVA SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE THE "HC" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE THE "JUL" SERIES.
- ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 10, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "100" SERIES.
- ALL 5A AND 10A FUSES ARE GULDFILTE/SHANNUT, AMP. TRAP FORM 600, WIDGET TYPE 2.
- FUSES IN THE POWER CIRCUITS ARE GULDFILTE/SHANNUT CLASS "J" CURRENT LIMITING FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
- ALL CONTROL TRANSFORMERS ARE 15, 300/120V WITH UNGROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1 SA DUAL-ELEMENT TIME DELAY, BUSSMANN TYPE FNO FUSE. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 3 SA DUAL-ELEMENT TIME DELAY, GULDFILTE/SHANNUT TYPE TRM FUSE.
- GROUND FAULT PROTECTION (90DS), ITE TYPE GRM-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
- THE PRIMARY OF THE 3KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMANN TYPE JHC-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 1E.
- ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS:

- PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE... 5GW0220-AP-01
- SINGLE LINE DIAGRAM 480V WITHCLEAR 1E1-A... 5GW1176-1E1-1
- 480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC... 5GW1740-EI-09
- 480V MCC COMPARTMENT TYPICALS... 5GW0747-AP
- 480V MCC 1E1-A COMPUTERIZED CIRCUIT SCHEDULE... 5AC1162-1E1

SYMBOLS:

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438
Control # 830405-536
Date 3-25-83 of Documents
REGULATORY DOCKET FILE

PRC APERTURE CARD

6. 51,1399

ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLE, REVISED NOTE B 3 AND MKUP KEY DIAGRAM TO SH 3, RELOCATED HEAT TRACE LOADS:

5. 8M, 1273 3-15-81

ADDED EX SYSTEM LOAD TO COMPT. BIL. ADDED MC SYSTEM LOAD TO COMPT M2L.

4. 1008 12-16-80

ADDED LOAD

3. 813, 51 3-11-80

ADDED LOADS, CORRECT UNID.

2. 51 1-3-80

RECORD CWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE RA

1. 51, 83 4-2-76

INTEGRATED UNITS SYS. GEN REV PER ECA. SI UNITOUS ADDED AHU AND INCREASE CAPACITY OF UNIFIED WATER AND REFRIG. SYS.

NO. ECH. NO. DATE

DRN L.P. MCCOLEY
DRN R. SPENCER A. HOLLAM
CHD E.M. IRWIN
SUPV. M.V. ALPERBERGE

SCALE EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 1

SINGLE LINE 480V MCC 1E1-A 1E1-EMCC-61-A

BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN

SUBMITTED BY: A.T. GORNER
RECOMMENDED BY: J.P. JONES
APPROVED BY: R. B. HEDGECOCK

INSPECTED AND APPROVED FOR ISSUE

KNOXVILLE 12-6-74 88 E SAM1732-EI-1

THIS DRAWING IS UNDER CONSTRUCTION