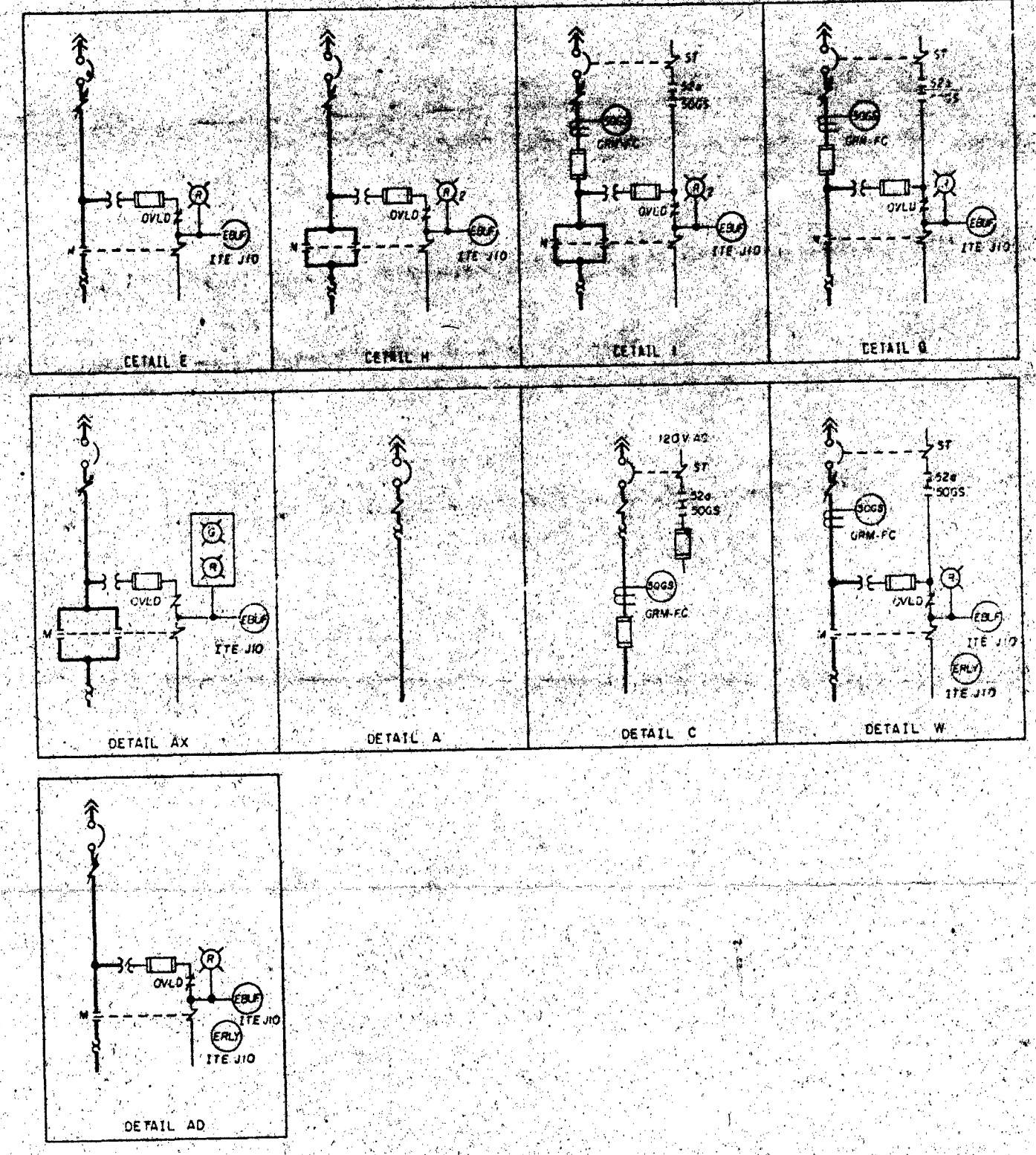


COMP NO	LOAD	UNIT	DETAIL	LOAD SIZE	SCH DWG REFERENCE
A1	MAIN BREAKER	1E1-32NA-70F-B	SEE KEY DIAG		
B1L	MCR INLET AIR RADN MON FOR CONTN PURGE EXH RADN MON 1B F-1	DIR-ILPA-025-B	A	3.4 KVA	5G0640-IR-02
B1R	MCR INLET AIR RADN MON 1B F-1	DIR-ILPA-025-B	A	3.4 KVA	5G0640-IR-02
B2	FUTURE - 18 INCH	1E1			
B3	STARTUP B-RECIRC PMP 12LN FROM ST GEN B	15M-IFCV-040-B	H	2.6 HP	5G0640-SM-03
B4	SPARE	1E1			
C1	TO 480/208-120V XFMR FOR STANDBY AC LIGHTING CAB	1E1-ELS-002	C	425 KVA	5G0640-EN-01
C2	AXM BLDG ROOF ST TO CASH WASHDOWN TECH MOV	05A-IFCV-810-B	H	0.68 HP	5G0640-5A-02
C3	CFT B ISOLATION OUTLET MOV (CC-HV3)	1M1-IFCV-079-B	J	28.4 HP	5G0640-NL-08
D1	FUEL HANDLING AREA SUPPLY FAN	1VB-EMOT-002-B	E	75 HP	5G0640-VB-03
D2	SPARE	1E1			
D3	COOLING PUMP 1B-B	1KD-EMOT-002-B	F	25 HP	5G0640-KD-02
D4	FUEL HANDLING AREA EXH FAN	1VB-EMOT-010-B	H	75 HP	5G0640-VB-07
E1	CHR FAN	1VX-EMOT-001-B	E	3 HP	5G0640-VX-02
E2	HCP P142 LUBE OIL PUMP B	1VC-EMOT-032-B	Q	25 HP	5G0640-VC-10
E4	FUTURE - 6 INCH	1E1			
E5	CONT BLDG EMER AIR CLEANUP UNIT FAN	0VM-EMOT-006-B	E	15 HP	5G0640-VK-03
E6	ZONE 1B EL 629 AREA AHU	1VA-EMOT-197-B	E	3 HP	5G0640-VA-16
F1L	SPARE	1E1			
F1R	SPARE	1E1			
F2	HCP P141 LUBE OIL PUMP B	1VC-EMOT-035-B	Q	25 HP	5G0640-VC-11
F4	HCP P141 LUBE OIL PUMP B	1VC-EMOT-034-B	Q	25 HP	5G0640-VC-08
G1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
G2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
G4	FUSE COMPT		SEE KEY DIAG		
G5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
H1L	AIRBORNE RADN MON FOR PNT CNTRM RADN MON 1B FCR	DIR-ILPA-022-B	A	3.4 KVA	5G0640-IR-02
H1R	AIRBORNE RADN MON 1B FCR	DIR-ILPA-022-B	A	3.4 KVA	5G0640-IR-02
H2	ZONE 1B EL 649 ESSENTIAL ELEC EDPT ROOM AHU	1VA-EMOT-157-B	E	3 HP	5G0640-VA-15
H3	STEAM GEN 1B MAIN FW ISOLATION VALVE	1CF-IFCV-080-B	E	2 HP	5G0640-CF-09
H4	HCP P141 LUBE OIL PUMP B	1VC-EMOT-030-B	Q	25 HP	5G0640-VC-06
H6	FUTURE - 6 INCH	1E1			
J1L	SEC CNTRM CLEANUP RH HTR	1VX-EMOT-006-B	A	2.4 KW	5G0640-VZ-07
J1R	FUEL HANDLING AREA RH HTR	1VX-EMOT-029-B	A	2.4 KW	5G0640-VB-09

COMP NO	LOAD	UNIT	DETAIL	LOAD SIZE	SCH DWG REFERENCE
J2L	SPARE	1E1			
J2R	STATION VENT RADN MON FOR 1B FCR	DIR-ILPA-019-B	A	3.4 KVA	5G0640-IR-02
J3	AFW TURBINE PUMP DISCHARGE TO ST GEN 1A MOV	1CA-IFCV-064-B	H	1.8 HP	5G0640-CA-14
J4	SPARE	1E1			
J5	CORE FLOODING TANK COOL VENT TO WQ RC DRAIN TANK	1ML-IFCV-082-B	J		5G0640-NL-02
K1	SLC CONTAINMENT CLEANUP FAN	1VX-EMOT-004-B	AD	25 HP	5G0640-VX-05
K2	SPARE	1E1			
K3	COOLING HB INLET ISOLATION MOV (CC-HV3)	1KD-IFCV-045-B	H	0.33HP	5G0640-KD-03
K4	AXM BLDG ISOLATION MOV	05A-IFCV-266-B	H	2 HP	5G0640-5A-03
K5	SPARE	1E1			
K6	TRAIN B ERCW SUPPLY TO AFW TURBINE PUMP MOV	1CA-IFCV-092-B	H	1 HP	5G0640-CA-12
L1	TRAIN B ERCW SUPPLY TO AFW TURBINE PUMP MOV	1CA-IFCV-091-B	H	1 HP	5G0640-CA-11
L2	SPARE	1E1			
L3	SPARE	1E1			
M1	FIRE PROTECTION SYSTEM ISOLATION MOV	1RF-IFCV-009-B	H	0.13HP	5G0640-RF-44
M2	FIRE PROTECTION SYSTEM ISOLATION MOV	1RF-IFCV-008-B	H	0.13HP	5G0640-RF-43
M3	STEAM GEN 1A MAIN FW ISOLATION VALVE	1CF-IFCV-081-B	E	2 HP	5G0640-CF-09
M4	WD HB NORMAL TURM PUMP SUCTION MOV (WD-HV3)	1WL-IFCV-068-B	J	0.33HP	5G0640-WD-06
M5	WD RC DRAIN TANK SHUT-OFF MOV (WD-HV3)	1WL-IFCV-090-B	J	0.68HP	5G0640-WD-06
N1	ZONE 1B EL 590 AREA AHU	1VA-EMOT-198-B	E	7.5 HP	5G0640-VA-16
N2	COOLING HB OUTLET ISOLATION MOV (CC-HV3)	1KD-IFCV-065-B	J	0.33HP	5G0640-KD-04
N3	WD RC DRAIN TANK VENT MOV (WD-HV3)	1WL-IFCV-019-B	J	0.33HP	5G0640-WD-05
N5	ST GEN A ATMOSPHERIC DUMP VLV COOLD SHUTDOWN	15M-IFCV-868-B	AX	0.37HP	5G0640-SM-31
N6	SPARE	1E1			

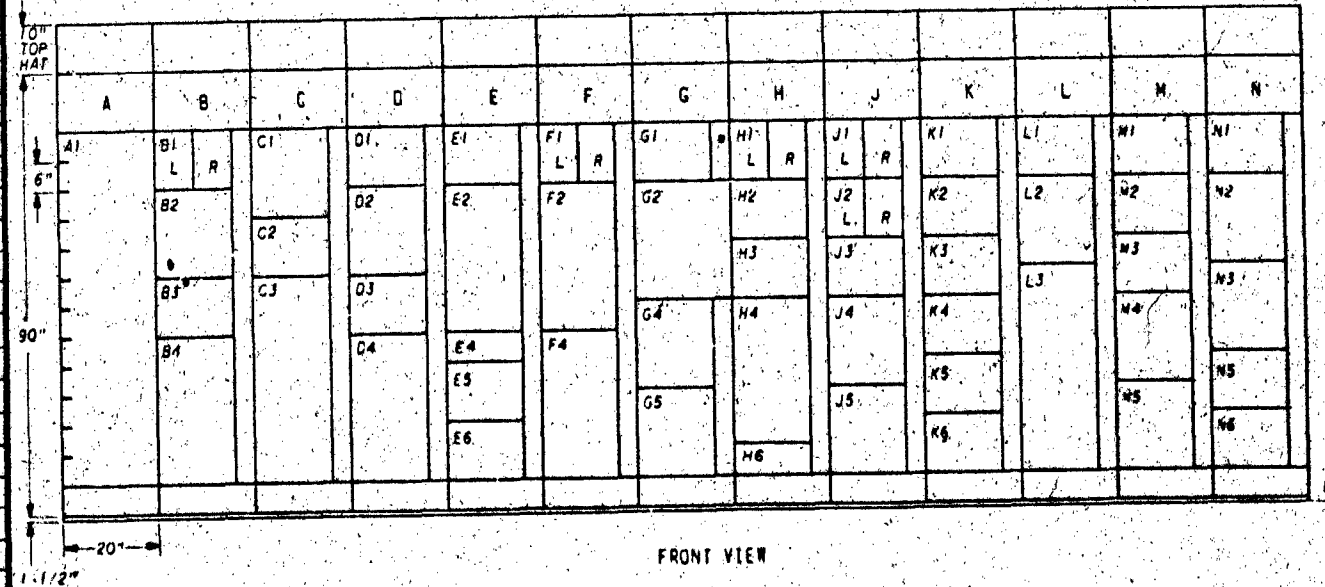
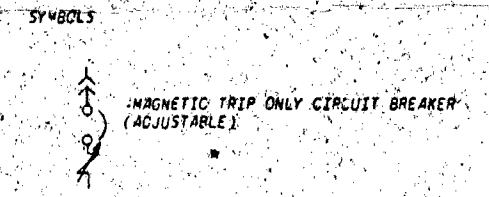


NOTES:

- 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 7853-BE242 BY GOULD/ITE
- ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 80,000 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 TRIP VOLTAGE ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITC "H" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITC "JL" SERIES
- ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 10,000A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITC "BQ" SERIES
- ALL 1/4 AND 1/2 FUSES ARE GOULD/SHANNUT AMP-TRAP FORM 600 MIDGET TYPE '2'
- FUSES IN THE POWER CIRCUITS ARE GOULD/SHANNUT CLASS "J" CURRENT LIMITING FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
- ALL CONTROL TRANSFORMERS ARE 10, 480-120V WITH GROUNDING SECONDARY THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1/4 DUAL ELEMENT TIME DELAY BUSSMAN TYPE FNO FUSE THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3/4 DUAL ELEMENT TIME DELAY BUSSMAN TYPE FNO FUSE
- GROUND FAULT PROTECTION (500S) ITC 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 BUSSMAN TYPE JMC-15 FUSE
- THE MOTOR CONTROL CENTER ARRANGEMENT IS CONTROLLED BY THE FRONT VTR 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 1000V SERIES

REFERENCED DRAWINGS AND DOCUMENTS:

- PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE 5G0720-RP-01
- SINGLE LINE DIAGRAM 480V SWITCHGEAR 1E1-B 5G0727-EI-1
- 480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5G0740-EI-16
- 480V MCC COMPARTMENT TYPICALS 5G0749-RP
- 480V MCC 1E5-B COMPUTERIZED CIRCUIT SCHEDULE 5G0767-EI



EL 649 COL 410

Docket # 88-438
 Case # 88-40505-36
 Date 3-25-83 of Document
 REGULATORY DOCKET FILE

PRC
 APERTURE
 CARD

COMPANION DWG:
 SAW1737-EI-03
 SAW1737-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

REV	DATE	DESCRIPTION
1	1/81	DELETED 'VK' SYSTEM LOAD FROM COMPTS K2 & K5
2	1/81	ADDED LOADS AND SCHEDULES TO TABLES, REVISED NOTES 8, 9, 9 AND MOVED KEY DIAGRAM TO S.3. ADDED 'NL' LOAD
3	1/81	INCREASE SIZE OF COMPARTMENTS TO ALLOW FOR CHANGING FROM SIZE 3 TO SIZE 5 MOTOR STARTERS MADE MINOR CHANGES
4	2/81	RECORD DWG REV FOR THE MCC COMPUTERIZED CMT SCH HISTORICAL DATA BASE
5	1/83	INCORPORATED LANC SYS. GEN REV PER EGN S1-VARIOUS. ACC AHU PER EGN 83

DESIGNED BY	CHIEF ENGINEER
DESIGNED BY	CHIEF ENGINEER
DESIGNED BY	CHIEF ENGINEER
DESIGNED BY	CHIEF ENGINEER
DESIGNED BY	CHIEF ENGINEER

SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 1

SINGLE LINE 480V MCC 1E5-B 1E1-EMCC-70-B

BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION 1: ENGINEERING DESIGN

SUBMITTED: C.T. Barber, J.L. ... APPROVED: R.M. ...

KNOWVILLE, TN 37604 88E SAW1737-EI-1