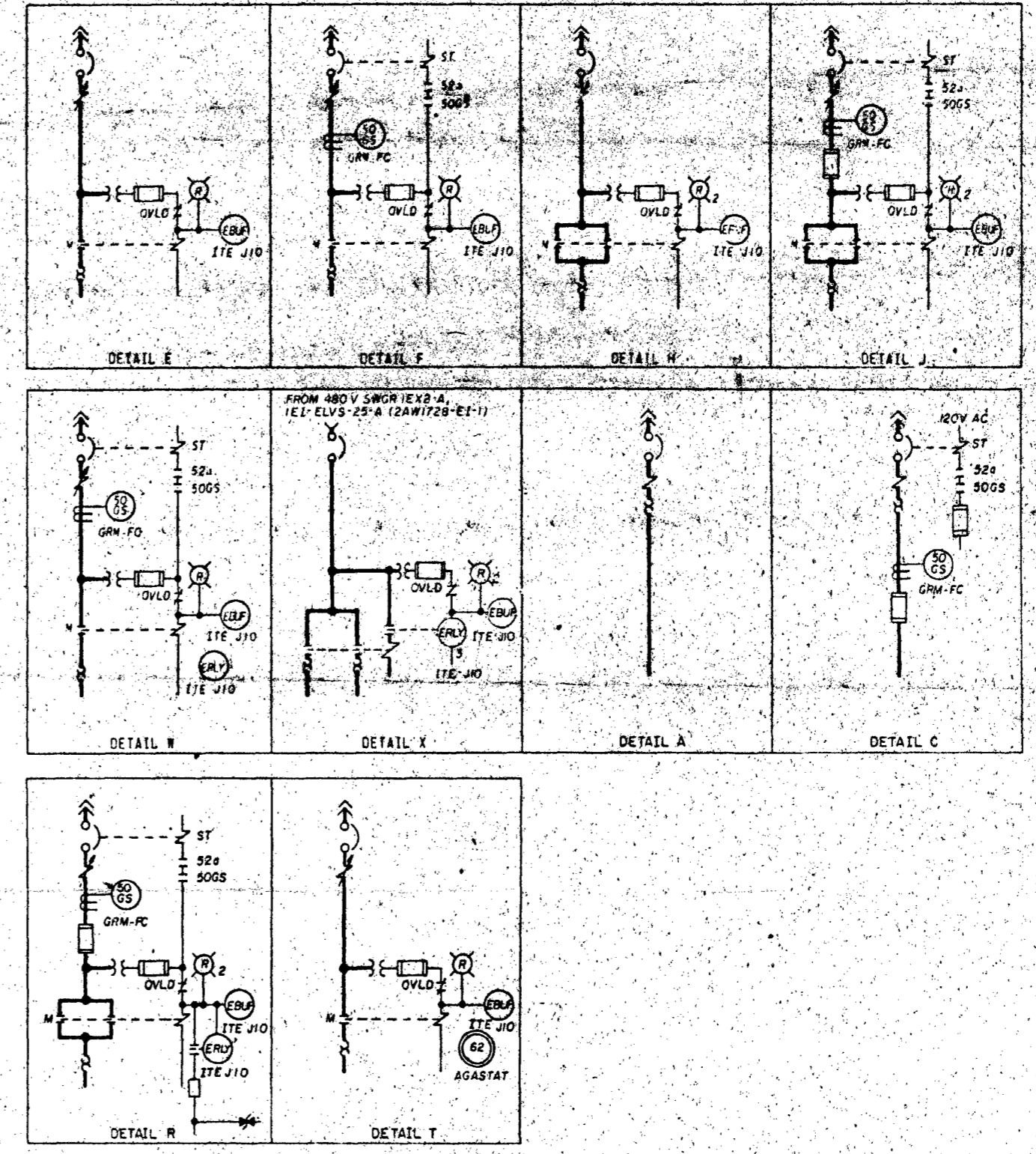


COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
A1	MAIN BREAKER	1E1-52VA-62F-A	SEE KEY DIAG		
B1	FUTURE - 12 INCH	1E1			
B2	SPARE	1E1			
B3	RBS NAOM TANK 1A MOV (RBS HV12A)	1NS-1FCV-081-A	H	0.67HP	5G0640-NS-05
B4	ERCW OUTLET RBC UNIT 1A1-A MOV	1KE-1FCV-275-A	H	0.33HP	5G01740-KE-22
B5	ZONE 1A MECH. EXPT ROOM EXHAUST FAN	1VA-EMOT-023-A	F	0.50HP	5G01740-VA-04
C1	LF CNTMT ISLN VALVE BLEED TO WD @ SAMPLE	1NL-1FCV-150-A	H		5G0640-NL-10
C2	ERCW SUPPLY HDR 1A TO WASTE DISPOSAL MOV	1KE-1FCV-400-A	H	0.13HP	5G01740-KE-20
C3	DHR PUMP 1A SUCTION FROM RB (RBS HV12A)	1ND-1FCV-098-A	H	0.70HP	5G01740-ND-08
C4	ERCW INLET RBC UNIT 1A1-A MOV	1KE-1FCV-068-A	H	0.33HP	5G01740-KE-22
C5	DHR LPT CROSSCONNECT ISLN VALVE MOV	1ND-1FCV-048-A	H	1.6 HP	5G01740-ND-05
C6	SPARE	1E1			
D1	ERCW SUCTION SUPPLY TO AFM PUMP 1A MOV	1CA-1FCV-030-A	H	0.3HP	5G0640-CA-06
D2	ERCW SUPPLY HDR 1A TO WASTE DISPOSAL MOV	1KE-1FCV-400-A	H	0.13HP	5G01740-KE-20
D3	ERCW SUCTION SUPPLY TO AFM PUMP 1A MOV	1CA-1FCV-029-A	H	0.50HP	5G0640-CA-03
D4	SPARE	1E1			
D5	SPARE	1E1			
D6	ERCW SUPPLY HDR 1A TO 2A MOV	1KE-1FCV-161-A	H	1 HP	5G01740-KE-15
E1	RBS SUPPLY 1A MOV (RBS HV12A)	1NS-1FCV-031-A	H	4 HP	5G0640-NS-06
E2	AFM ELEC PUMP DISCHARGE MOV (RBS HV12A)	1CA-1FCV-082-A	H	1.6 HP	5G0640-CA-04
E3	DHR PUMP 1A SUCTION FROM WASTE MOV (RBS HV12A)	1ND-1FCV-010-A	H	1.5 HP	5G01740-ND-10
E4	CONT BLDG ESF MCR AHU	0VK-EMOT-011-A	H	7.5 HP	5G0640-VK-19
E6	FUTURE - 6 INCH	1E1			
F1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
F2	120V 1P CKT BRK COMPT		SEE KEY DIAG		
F4	FUSE COMPT		SEE KEY DIAG		
F5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
G1	ERCW SUPPLY HDR A TO UNIT 1 SPENT FUEL POOL MOV	1KE-1FCV-181-A	H	0.33HP	5G01740-KE-18
G2	SPARE	1E1			
G3	CONT BLDG ESF MECH EXPT. RBC AHU	0VK-EMOT-015-A	E	7.5 HP	5G0640-VK-19
G4	SPARE	1E1			
H1	RBS NAOM SUPPLY TO DHR PUMP SUCTION MOV (RBS HV12A)	1NS-1FCV-105-A	H	0.67HP	5G0640-NS-07
H2	AFM TO SP GEN 1A FROM ELEC SUP PUMP 1A MOV	1CA-1FCV-037-A	H	1.6 HP	5G0640-CA-13
H3	CNTMT ISLN VALVE MKUP @ PURIFICATION TO CF TANK 1	1NL-1FCV-149-A	H		5G0640-NL-10
H4	CNTMT ISLN VALVE MKUP @ PURIFICATION TO CF TANK 2	1NL-1FCV-151-A	H		5G0640-NL-11
H5	CONT BLDG CHILLED WATER PUMP	0VK-EMOT-003-A	F	50 HP	5G0640-VK-17
H6	BORIC ACID PUMP 1B B	1NB-EMOT-008-A	E	15 HP	5G01740-NB-07

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
J2	ELEC AFM PUMP 1A-A RM AHU	1VA-EMOT-050-A	E	10HP	5G01740-VA-06
J3	SPARE	1E1			
J4	SPARE	1E1			
J5	ZONE 1A SSCS ROOM AHU	1VA-EMOT-240-A	E	7.5HP	5G01740-VA-08
J6	SPARE	1E1			
K1	ZONE 1A ESSENTIAL ELEC EXPT ROOM EXH FAN	1VA-EMOT-033-A	E	10HP	5G01740-VA-03
K2	ZONE 1A WCH EXPT ROOM SUPPLY FAN	1VA-EMOT-006-A	T	15 HP	5G01740-VA-02
K3	ZONE 1A FAN ROOM AHU	1VA-EMOT-042-A	E	7.5HP	5G01740-VA-07
K4	SPARE	1E1			
K5	MCR PUMP 1A-A ROOM AHU	1VA-EMOT-049-A	E	7.5HP	5G01740-VA-06
K6	SPARE	1E1			
L1	DHR PUMP 1A-A ROOM AHU	1VA-EMOT-052-A	E	1.5HP	5G01740-VA-06
L2	MCR PUMP 1A-A AUX LUBE OIL PUMP	1NV-EMOT-838-A	E	1 HP	5G01740-NV-03
L3	RBS PUMP 1A-A ROOM AHU	1VA-EMOT-051-A	E	10HP	5G01740-VA-06
L4	CLAMP TO SUMP ISOLATION MOV	1ND-1FCV-235-A	R	0.7 HP	5G01740-ND-12
L5	SPARE	1E1			
M1	ALY FOR SP 125V CL IC BAT CHGR	1EU-EMC-34-B	A	44KVA	5G01740-EU-01
M2	SPARE	1E1			
M3	DHR PUMP 1A-A AUX LUBE OIL PUMP	1NV-EMOT-216-A	E	1 HP	5G01740-ND-04
M4	ZONE 1A ESSENTIAL ELEC EXPT ROOM SUPPLY FAN	1VA-EMOT-033-A	E	7.5 HP	5G01740-VA-03
M5	DHR LETDOWN MOV (DH-HV11B)	1ND-1FCV-185-A	J	9.5 HP	5G01740-ND-09
M6	DHR LETDOWN MOV (DH-HV12A)	1ND-1FCV-085-A	J	9.5 HP	5G01740-ND-06
N1	ERCW BOOSTER PUMP AHU	1VA-EMOT-314-A	E	7.5 HP	5G01740-VA-09
N2L	CONT BLDG CHILLER OIL PUMP	0VK-EMOT-543-A	A	5 HP	5G0640-VK-17
N2R	ZONE 1A WTR CHILLER OIL PUMP	1VE-EMOT-300-A	A	8 HP	5G01740-VE-04
N3	FUTURE - 12 INCH	1E1			
N4	DHR INJECTION MOV (DH-HV1A)	1ND-1FCV-080-A	H	264 HP	5G01740-ND-11
N6	FUTURE - 6 INCH	1E1			
S1	RB COOLING FAN (VJ-EMOT-035-A)	1VJ-ECMS-035-A	X		5G01740-VJ-02



NOTES

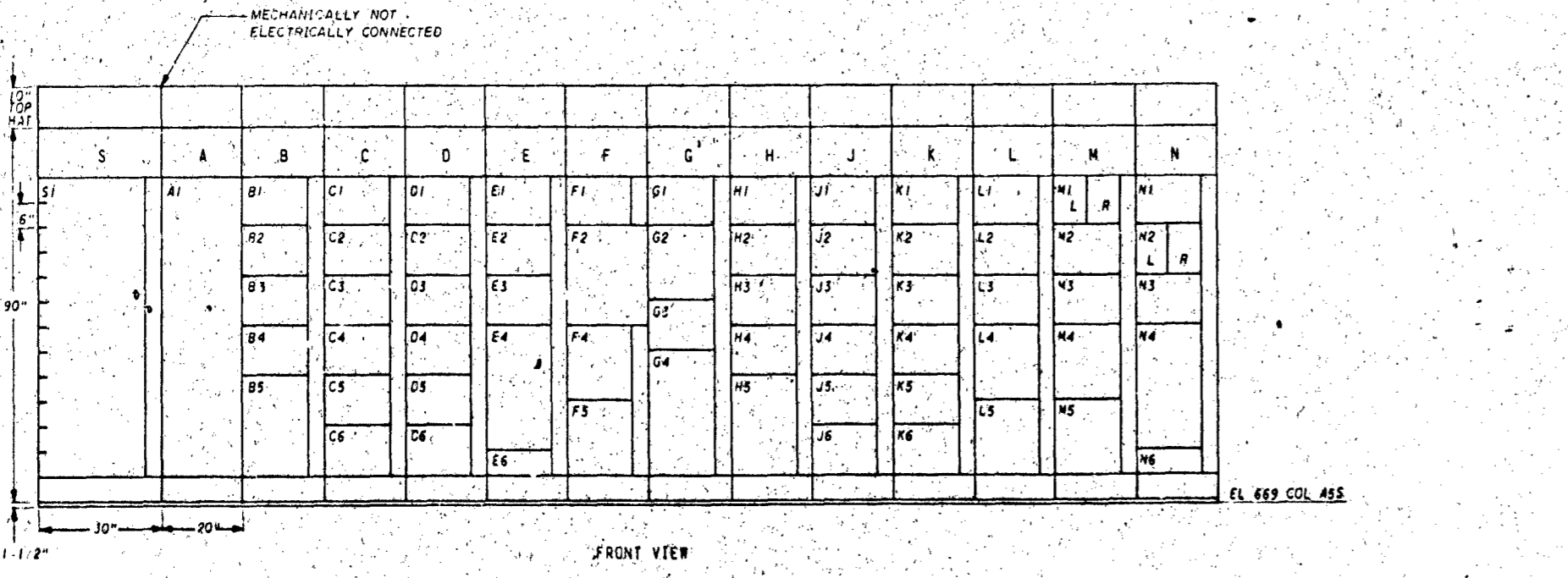
1. MOTOR CONTROL PROVIDED ON TVA CONTRACT NO 6685-8642 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 10 000V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25 000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "NE" 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/SHANNETT AMP TRIP FORM 600 MIDGE TYPE 2.
5. FUSES IN THE POWER CIRCUITS ARE GOULD/SHANNETT CLASS "J" CURRENT LIMITING FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
6. ALL CONTROL TRANSFORMERS ARE 10 100-120V WITH GROUNDED 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 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL ELEMENT TIME DELAY GOULD/SHANNETT TYPE FAN FUSE.
7. GROUND FAULT PROTECTION (500S) ITE TYPE GRN-FC PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
8. THE PRIMARY OF THE 5KVA 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 AND ADJUSTABLE CIRCUIT BREAKER SETTINGS.
10. THIS MCC IS CLASS 1E.
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

- PLANT AND AUXILIARY POWER SYSTEM SINGLE LINE ..... 200720-RP-01
- SINGLE LINE DIAGRAM ABOVE SWITCHGEAR 1E2-A ..... 2001729-EI-1
- 480V CLASS 1E-A AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC ..... 5G01740-EI-11
- 480V MCC COMPARTMENT TYPICALS ..... 5G00747-RP
- 480V MCC 1E2-A COMPUTERIZED CIRCUIT SCHEDULE ..... 5AC1764-EI

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438  
 Control # 8304058536  
 Date 3-25-83  
 of Document  
 REGULATORY DOCKET FILE

PRC  
 APERTURE  
 CARD

COMPANION DWG  
 SAM1734-EI-03  
 SAM1734-EI-02 HAS BEEN VOIDED

REVISION	DATE	DESCRIPTION	BY	CHKD
1	11-17-82	DELETED VJ SYSTEM LOAD FROM COMPT J4		
2	11-17-82	ADDED LOAD SIZE AND SCH DWG REF COLUMN TO TABLES, REVISED NOTES B B 9 AND MOVED KEY DIAGRAM TO SH 3 CORRECTED UNID IN COMPT M1L ADDED "NL" LOAD		
3	11-17-82	RECORD DWG REV FOR THE MCC COMPUTERIZED CMT SCH HISTORICAL DATA BASE R4		
4	11-17-82	INCORPORATED UNID SIS. GEN REV PER ECH-SI-VARIOUS ADDED AND INCORPORATED REPAIR TYPES OF AND PER ECH-SI		
5	11-17-82	REVISION		
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SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 1

SINGLE LINE 480V MCC 1E2-A 1E1-EMCC-62-A

BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN

INSPECTED AND APPROVED FOR ISSUE: C.T. Garner, J.K. Jones, R.M. Hodge

KNOXVILLE 2-6-81 88 E SAM1734-EI-1