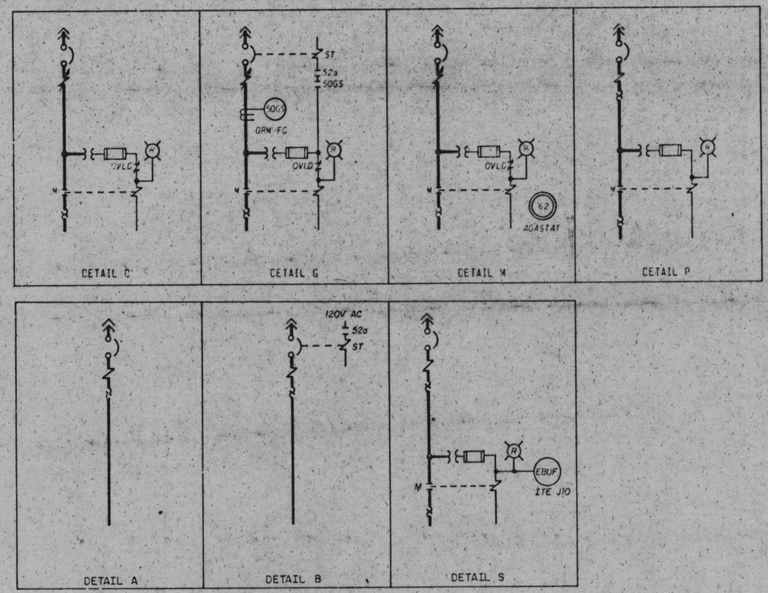
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2ED-SCNA-58F	SEE KEY DIAG		
B1L	TOILET HOT #1R HTR EL 610	OYP-EHTR-555	A	9KW	5GW0740-YP-02
B1R	RADWASTE 5 TON LINER CRANE	OWM-MCRN-0078	A	10KVA	5GW0740-MM-04
B2	CONCENTRATED BORIC ACID STORAGE TANK 2A HTR B	2NB-EHTR-026B	S	9KW	5GW2740-NB-06
B3	#ASTE HOLD TANK HTR	OWL-EHTR-619	P	8KW	5GW0740-WD-15
B4	SPARE	2EC	D		
B5	RC DISTILLATE TRANSFER PUMP 2A2	2NB-EMOT-013	G	40HP	5GW2740-NB-08
C1	RADIO CHEM LAB HOOD FAN	OVC-EMOT-008	D	5HP	5GW0740-VC-13
C2	RADIO CHEM LAB HOOD FAN	OVC-EMOT-006	D	5HP	5GW0740-VC-13
C3	RADIO CHEM LAB COUNTING ROOM & TITRATION ROOM AHU	OVC EMOT 051	M	10HP	5GW0740-VC-13
C4	EVAPORATOR CONDENSATE DRAIN TANK PUMP B	OSA EMOT 228	D	25HP	5GW0640-SA-04
C5	COMMON ZONE EL 590 AHU	OVC-EMOT-025	D	5HP	5GW0740-VC-04
C6	SPENT RESIN TRANSFER PUMP	OWL EMOT 016	M	15HP	5GW0740-WD-11
C1	SPARE	2ED	D		
C2	#ASTE EVAPORATOR DISTILLATE TRANSFER PUMP B	OWL-EMOT-019	M	15HP	5GW0740-WD-12
C3	CASK DECONTAMINATION TANK PUMP B	OWL-EMOT-014	M	15HP	5GW0740-WD-10
C4	COMMON ZONE EL 610 AHU	OVC-EMOT-026	D	7.5HP	5GW0740-VC-04
C5	THITIATED AUX BLDG SUMP PUMP B	OWL EMOT 008	M	8HP	5GW0740-WD-06
C6	NON THITATED AUX BLDG SUMP PUMP B	OWL-EMOT-011	M	15HP	5GW0740-WD-07
E1	DIWATED WATER RECIRCULATION PUMP 2A	OWM-EMOT-005	M	25HP	5GW2740-NM-03
E2	SHARE #ASTE TRANSFER PUMP	OWL EMOT 006	M	25HP	5GW0740-WD-04
E3	SPARE	2EC	C		
E4	AUX #ASTE EVAPORATOR DISTILLATE TRANSFER PUMP B	OWL-EMOT-020	M	5HP	5GW0740-WD-02
E5	AUX #ASTE EVAPORATOR BOTTOMS PUMP	OWL EMOT H68	D	10HP	5GW0740-WD-30
E6	AUX #ASTE EVAPORATOR DISTILLATE PUMP	OWL EMOT H66	D	5HP	5GW0740-WD-29
F1	SPARE	2ED	C		
F2	SPARE	2ED	C		
F3	SPARE	2ED	C		
F4	SPARE	2ED	C		
F5L	SPARE	2EC	A		
F5R	HOT SAMPLG RM #1R CHILLER	OYQ-EMOT-700	A	5HP	5GW2740-YQ-06
F6	RADWASTE PACKAGING STATION MIXER FEEDER	OWL EMOT-595	D	1.5HP	5GW0740-WD-14
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	CONT XFMR ALT FDR	OYQ-EHTR-0078	A	7.5KVA	5GW0740-YQ-01
H1R	BORIC ACID EVAP DSTLT MON	OIR-ILPA-042	A	2.5KVA	5GW0640-IR-02
H2	SPARE	2EC	C		
H3	RADWASTE PACKAGING STATION #ASTE TANK AGITATOR	OWL-EMOT-594	D	3HP	5GW0740-WD-14
H4	AUX #ASTE EVAPORATOR RECIRCULATION PUMP	OWL EMOT H64	G	75HP	5GW0740-WD-28
H6	FUTURE - 6 INCH	2EC			
J1	#ASTE TANK FEEDER PUMP	OWL-EMOT-589	D	3HP	5GW0740-WD-14

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	WASTE HOLD TANK AGITATOR	OWL-EMOT-593	D	3HP	5GW0740-WD-03
J3	VIBRATING CEMENT BIN BOTTOM	OWS-EMOT-008	D	1.5HP	5GW0740-WD-02
J4	CEMENT FEEDER	OWS-EMOT-002	D	0.75HP	5GW0740-WD-02
J5	RC BLEED TRANSFER PUMP 2A2	2NB-EMOT-004	G	40HP	5GW2740-NB-05
K1	SECTION K BUS GND RELAY	2ED-50GS-588	SEE KEY DIAG		
K3L	COM ZONE 480V RCPT A,B,C,D	2ED-ERCP-013	B		5GW2740-ED-19
K3R	COM ZONE 480V RCPT A,B,C,D	2ED-ERCP-012	B		5GW2740-ED-19
K4	FUTURE - 38 INCH	2ED			
L1	WASTE TANK HEATER	OWL-EHTR-620	P	8KW	5GW0740-WD-16
L2	FUTURE - 12 INCH	2ED			
L3L	AIRBORNE RADN MON FDR	OIR-ILPA-012	A	3.4KVA	5GW0640-IR-02
L3R	SEWAGE GRINDER PUMP	OWW-EMOT-040	A	2HP	5GW0740-WW-01
L4L	SPARE	2ED	A		
L4R	SPARE	2ED	A		
L5	SPARE	2ED	D		
L6	FUTURE - 12 INCH	2ED			
M1	WASTE GAS COMPRESSOR B-B	OWG-EMOT-002	D	25HP	5GW0740-WD-22
M2	FUTURE - 12 INCH	2ED			
M3	SCREW CONVEYOR	OWS-EMOT-003	D	2HP	5GW0740-WD-02
M4	SPARE	2ED	D		
M5	EMERGENCY WASTE RETURN PUMP	OWL-EMOT-589	D	1HP	5GW0740-WD-13
M6	WASTE HOLD TANK FEEDER PUMP	OWL-EMOT-590	D	3HP	5GW0740-WD-12



NOTES

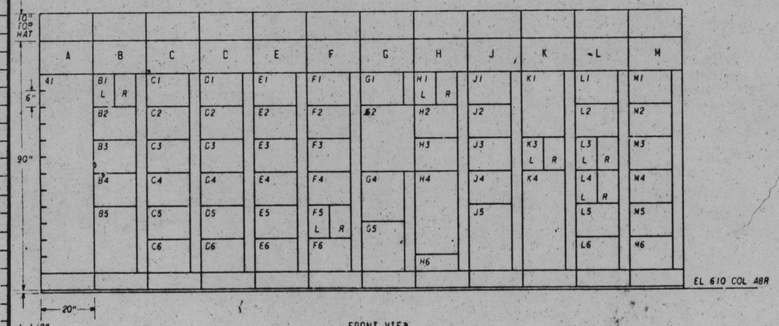
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76KS-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAT 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HL" 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 "BL" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 600, MIDGET TYPE 2.
5. FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "J" CURRENT LIMITING. FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
6. ALL CONTROL TRANSFORMERS ARE 19, 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNQ FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRM FUSE.
7. GROUND FAULT PROTECTION (50GS), ITE TYPE GRM-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 NON-CLASS 1E LOCATED IN A CATEGORY I STRUCTURE.
11. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2XA1	2AW2728-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW2740-ED-19
480V MCC COMPARTMENT TYPICALS	5GW0747-IRP
480V MCC SXF4 COMPUTERIZED CIRCUIT SCHEDULE	5ACD765-CD

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



PRC APERTURE CARD

Docket # 50-438
Control # 8304250536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

REV NO	ECN NO	DATE	DSGN	DRWN	CHK'D	SUPV	ENGR	INSP	SUBM	RECM	APPR
3	S1	7-3-79	MM	MM	WJT	WJT	CJL		CJL	KWH	
ADDED LOAD SIZE AND SCHEMATIC DWG REF. COL TO TABLES, REVISED NOTES 8 & 9 AND MOVED KEY DIAGRAM TO SHEET 3.											
2	S1	12-27-79	MM	MM	WJT	WJT	CJL		CJL	KWH	
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.											
1	S1	1-25-76	AH	AH	RGL	WJT	CJL		CJL	KWH	
INCORPORATED UNID SYS, GEN. REV ECN S1 - VARIOUS											

DSGN ROGER HALL
DRWN R. SPENCER
CHK'D L.P. MOODLEY
SUPV W.L. ALDRIDGE
INSP
ENGINEER C.T. Garner

SCALE: NTS EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 2

SINGLE LINE
480V MCC SXF4
2ED-EMCC-58

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
C.T. Garner	J.L. Spencer	R.M. Mahdere

KNOXVILLE 12-6-74 | 88 E | SAW0735-ED-1 R3

RECORD DRAWING AS CONSTRUCTED

COMPANION DWG:
5AW0735-ED-03
5AW0735-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRINT SIZE
BR OR PROJ ME EE CE AD CO ED MD SW RL PA