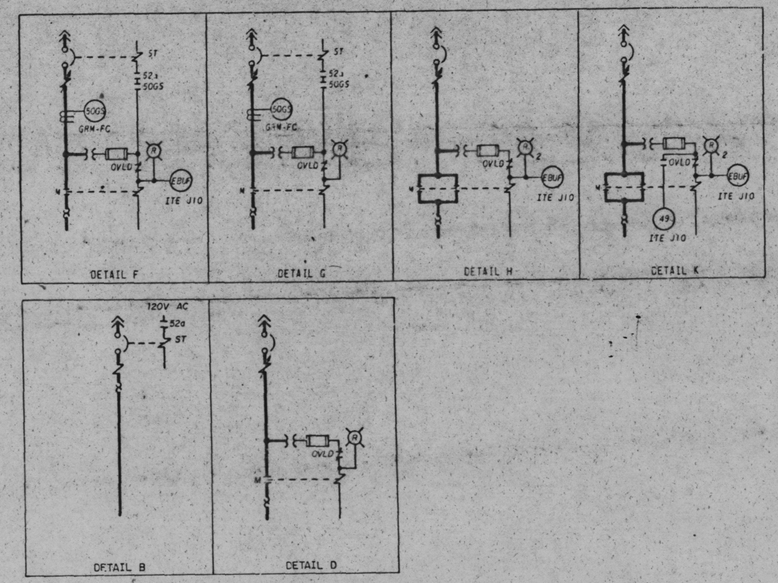
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2ED-52NA-36F	SEE KEY DIAG		
B1	SPARE	2ED	D		
B2	LUBE OIL VAPOR EXTR 2D	2TC-EMOT-052	D	0.4HP	5GW2640-TC-22
B3	LUBE OIL VAPOR EXTR 2B	2TC-EMOT-050	D	0.4HP	5GW2640-TC-22
B4	CBP AUX LUBE OIL PUMP 2B	2CM-EMOT-921	D	0.5HP	5GW2740-CM-11
B5	SPARE	2ED	G		
C1	H2 GAS OIL PUMP (NDE)	2TO-EMOT-061	D	10HP	5GW2640-TK-02
C2	FUTURE - 12 INCH	2ED			
C3	JACKING OIL PUMP 3	2TC-EMOT-039	D	7.5HP	5GW2640-TC-23
C4	GLAND STEAM EXH FAN 2B	2CM-EMOT-085	D	20HP	5GW2740-CM-07
C5	FUTURE - 12 INCH	2ED			
C6	JACKING OIL PUMP 6	2TC-EMOT-042	D	7.5HP	5GW2640-TC-24
D1	JACKING OIL PUMP 9	2TC-EMOT-045	D	7.5HP	5GW2640-TC-25
D2	JACKING OIL PUMP 11	2TC-EMOT-047	D	7.5HP	5GW2640-TC-25
D3	SPARE	2ED	K		
D4	RCW STRAINER	2KW-EMOT-008	D	0.5HP	5GW2740-KW-07
D5	MAIN AIR OIL PUMP 2B	2TO-EMOT-059	G	50HP	5GW2640-TK-02
E1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
E2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
E4	FUSE COMPT		SEE KEY DIAG		
E5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
F1	CCW CONDENSER 2B INLET MOV	2KH-IFCV-014	H	3.3HP	5GW2740-KH-18
F2	CCW CONDENSER 2B OUTLET MOV	2KH-IFCV-016	H	3.3HP	5GW2740-KH-18
F3	CNDS BOOSTER PUMP 2B OUTLET MOV	2CM-IFCV-115	H	2.6HP	5GW2740-CM-15
F4	RAW COOLING WATER PUMP 2B1	2KW-EMOT-003	F	100HP	5GW2740-KW-04
F6	FUTURE - 6 INCH	2ED			
G1	MSS TO RHR B 2B2 COILS INLET STOP VALVE	2SM-IFCV-148	K	1.6HP	5GW2640-SM-07
G2	EXTRACTION STEAM TO REHEATER 2-1B2 MOV	2SE-IFCV-067	K	1HP	5GW2640-SE-05
G3	SPARE	2ED	H		
G4	STATOR CLG WATER PUMP 2B	2TK-EMOT-104	G	75HP	5GW2640-TK-03
G6	FUTURE - 6 INCH	2ED			
H1	SEC H BUS GRD RLY	2ED-50GS-36B	SEE KEY DIAG		
H3L	TB 480V RCPT A,B,C	2ED-ERCP-024	B		5GW2740-ED-29
H3R	SPARE	2ED	B		
H4	FUTURE - 36 INCH	2ED			
J1	MFPT 2B COND INLET MOV	2CM-IFCV-095	K	3.94HP	5GW2740-CM-18
J2	MFPT 2B COND OUTLET MOV	2CM-IFCV-102	K	3.94HP	5GW2740-CM-18

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3	SPARE	2ED	H		
J4	MFPT CNDS DRAIN TANK PUMP	2CE-EMOT-002	G	40HP	5GW2740-CE-07
J6	FUTURE - 12 INCH	2ED			



NOTES:

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76KS-36242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3P, 600V 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 "HEM" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 1P, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP. ITE "BQ" SERIES.
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 600, WIDGET TYPE 2.
5. ALL CONTROL TRANSFORMERS ARE 1P, 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FWO FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRM FUSE.
6. GROUND FAULT PROTECTION (50GS), ITE TYPE GRN-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
7. THE PRIMARY OF THE 5KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMANN TYPE JHC-15 FUSE.
8. 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.
9. THIS MCC IS NON-CLASS 1E.
10. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

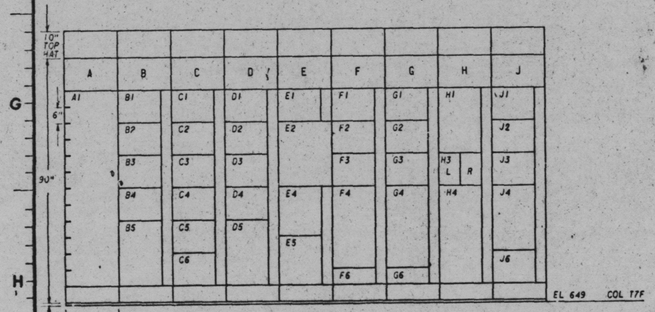
REFERENCED DRAWINGS AND DOCUMENTS:

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE--------2GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2XB1----------21W2727-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC----------5GW2740-ED-29
480V MCC COMPARTMENT TYPICALS----------5GW0747-RP
480V MCC 2B1 COMPUTERIZED CIRCUIT SCHEDULE---------5TC2763-ED

SYMBOLS:

-MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

PRC APERTURE CARD



FRONT VIEW

Docket # 50-438
Control # 8040505-35
Date 5-25-83 of Document:
REGULATORY DOCKET FILE

REV NO	ECN NO	DATE	DSGN	DRWN	CHK	SUPV	CHGD	WSP	SUBM	RECD	APPD
4	S1	7-1-82	VM	DWB	TLC	WT	VT	DL	WHB		
ADDED LOAD SIZE AND SCHEMATIC DWG REFERENCE COLUMN TO TABLES, REVISED NOTES 7 & 8 AND MOVED KEY DIAGRAM TO SHEET 3.											
3	S1	9-3-81	VM	[illegible]							
DELETE "SM" SYSTEM LOAD FROM COMPT C3.											
2	S1	12-14-79	VM	RRP	RLG	JS	SWH	-	SWH	JLS	WHB
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.											
1	S1, 78	2-25-76	WBH	DWS	RGL	WHT	CTC		CTC	JLS	RMW
INCORPORATED INTO SYS. GEN REV PER S1-VARIOUS. DELETE DECONTIC CONTROL FOR THE CONDENSER CIRCULATING WATER OUTLET MOV PER ECN 78											

DSGN B. J. NORTON/T. A. PEELER
DRWN G. R. VANLEY
CHKD T. E. SNYDER
SUPV W. H. BURRELAGE
WSP
ENGINEER G. T. Garner

SCALE: NTS — EXCEPT AS NOTED

TURBINE BUILDING
UNIT 2

SINGLE LINE
480V MCC 2B1
2ED-EMCC-36

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
G. T. Garner	[illegible]	R. M. Dodge
KNOXVILLE 12-6-76		

88 E STW2733-ED-1 R4

RECORD DRAWING AS CONSTRUCTED

COMPANION DWG:
STW2733-ED-03
STW2733-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

THIS MICROFILM DRAWING IS THE CONTROLLING DOCUMENT