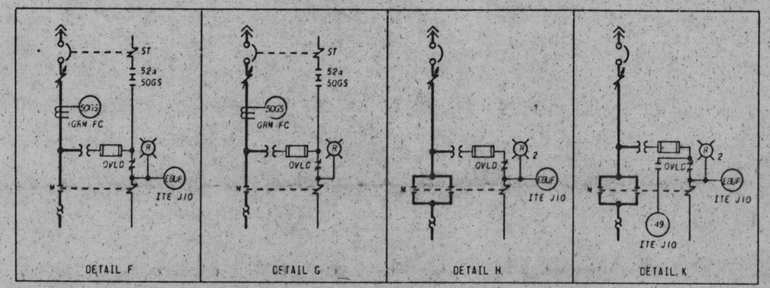
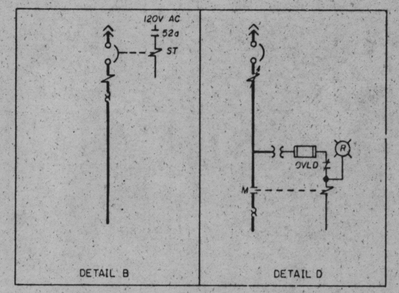
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-36F	SEE KEY DIAG		
B1	LUBE OIL VAPOR EXTR 1B	1TC-EMOT-050	D	040HP	5GW1640-TC-22
B2	SPARE	1ED	D		
B3	MAIN AIR OIL PUMP 1B	1TO-EMOT-059	G	50HP	5GW1640-TK-02
B5	SPARE	1ED	G		
C1	LUBE OIL VAPOR EXTR 1D	1TC-EMOT-052	D	040HP	5GW1640-TC-22
C2	CBP AUX LUBE OIL PUMP 1B	1CM-EMOT-921	D	05HP	5GW1740-CM-11
C3	H2 GAS OIL PUMP (NCE)	1TO-EMOT-061	D	10HP	5GW1640-TK-02
C4	MFPT CNDS DRAIN TK PUMP 1B	1CE-EMOT-002	G	40HP	5GW1740-CE-07
C6	JACKING OIL PUMP 6	1TC-EMOT-042	D	75HP	5GW1640-TC-24
C1	GLAND STEAM EXH FAN 1B	1CM-EMOT-085	D	20HP	5GW1740-CM-07
D2	FUTURE - 12 INCH	1ED			
D3	JACKING OIL PUMP 9	1TC-EMOT-045	D	75HP	5GW1640-TC-25
D4	JACKING OIL PUMP 3	1TC-EMOT-039	D	75HP	5GW1640-TC-23
D5	SPARE	1ED	D		
D6	FUTURE - 12 INCH	1ED			
E1	MFPT 1B COND INLET MOV	1CM-IFCV-095	K	3.94HP	5GW1740-CM-18
E2	MFPT 1B COND OUTLET MOV	1CM-IFCV-102	K	3.94HP	5GW1740-CM-18
E3	SPARE	1ED	K		
E4	STATOR CLG WATER PUMP 1D	1TK-EMOT-104	G	75HP	5GW1640-TK-03
E6	FUTURE - 6 INCH	1ED			
F1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
F2	120V-1P CKT-BKR COMPT		SEE KEY DIAG		
F4	FUSE COMPT		SEE KEY DIAG		
F5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
G1	CW CONDENSER 1B INLET MOV	1KH-IFCV-014	H	33HP	5GW1740-KH-18
G2	CW CONDENSER 1B OUTLET MOV	1KH-IFCV-016	H	33HP	5GW1740-KH-18
G3	CNDS BOOSTER PUMP 1B OUTLET MOV	1CM-IFCV-115	H	26HP	5GW1740-CM-15
G4	RAW COOLING WATER PUMP 1B1	1KW-EMOT-003	F	100HP	5GW1740-KW-04
G6	FUTURE - 6 INCH	1ED			
H1	MSS TO HHR B 2&3 COILS INLET STOP VALVE	1SM-IFCV-148	K	16HP	5GW1640-SM-07
H2	EXTRACTION STEAM TO REHEATER 1-1B2 MOV	1SE-IFCV-067	K	1HP	5GW1640-SE-05
H3	RAW STRAINER	1KW-EMOT-008	C	0.5HP	5GW1740-KW-07
H4	SPARE	1ED	H		
H5	SPARE	1ED	H		
H6	JACKING OIL PUMP 11	1TC-EMOT-047	C	7.5HP	5GW1640-TC-25
J1	SEC J BUS GRC RLY	1ED-50GS-36B	SEE KEY DIAG		

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3L	TB 480V PWR RCPTS A,B,C	1ED-ERCP-024	B		5GW1740-ED-28
J3R	FUTURE-HALF COMPT	1ED			
J4	FUTURE-36 INCH	1ED			





NOTES:

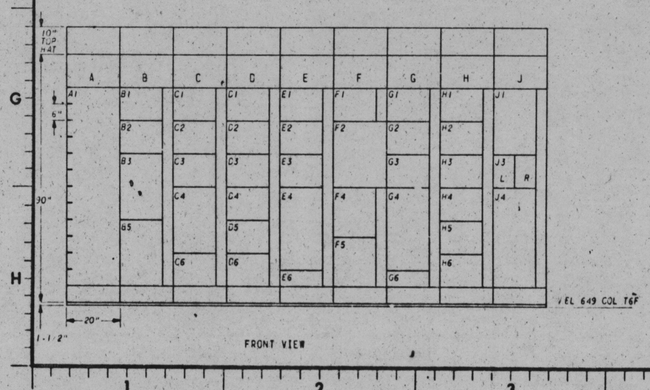
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-862-2 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3P, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HEY" 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, MIDGET 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 FNQ 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, BUSSMAN TYPE UHC-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 (X9)	2TA1727-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-28
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC (1B) COMPUTERIZED CIRCUIT SCHEDULE	5TC1763-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



FRONT VIEW

Docket # 50-438
Control # 8304050536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPD
4	S1	6-24-82									
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									
DELETED "SM" SYSTEM LOAD FROM COMPT E3											
2	S1	12-14-79									
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4											
1	S1,78										
INCORPORATED UNID SYS. SEN REV PER ECN 51- VARIOUS. DELETE DECONTIC CONTROL FOR THE CONDENSER CIRCULATING WATER OUTLET MOV PER ECN 76.											

DSGN B. J. NORTON / T. N. PEIFLEN
DRWN R. R. MANSFIELD / D. ROBERTS
CHKD T. C. SYKES
SUPV N. L. ALDREDGE
INSP
ENGINEER C. T. Garner

SCALE: NTS — EXCEPT AS NOTED

TURBINE BUILDING
UNIT 1

SINGLE LINE
480V MCC 1B1
1ED-EMCC-36

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C. T. Garner | RECOMMENDED G. L. Young | APPROVED R. M. Hodges

KNOXVILLE 12-6-76 | 88 E 5TW1733-ED-1 R4

RECORD DRAWING AS CONSTRUCTED

COMPANION DRAWINGS:
5TW1733-ED-03
5TW1733-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

THIS DRAWING IS UNDER