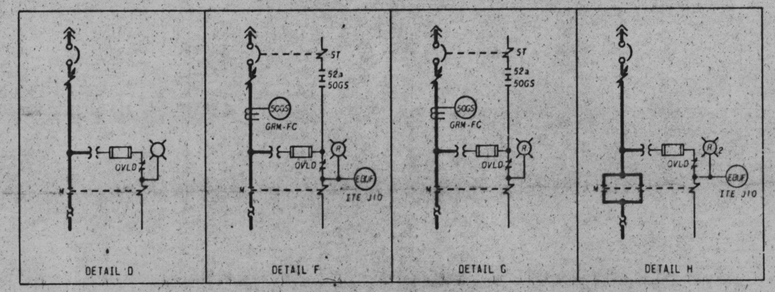
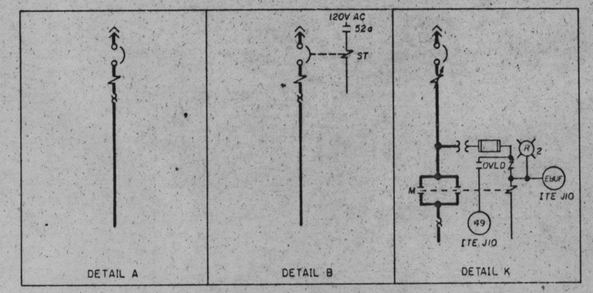
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52N4-33F	SEE KEY DIAG		-
B1	SPARE	1ED-	K		
B2	SPARE	1ED-	D		
B3	MFPT 1A CONDENSER INLET MOV	1CM-IFCV-094	K	3.94HP	5GW1740-CM-17
B4	MFPT 1A CONDENSER OUTLET MOV	1CM-IFCV-097	K	3.94HP	5GW1740-CM-17
B5	MAIN AIR OIL PUMP 1A	1TQ-EMOT-058	G	50HP	5GW1640-TK-02
C1	SECTION C BUS GRD RLY	1ED-50GS-33B	SEE KEY DIAG		
C3L C3R	TB 480V PAR RCPTS A,B,C,D FUTURE - HALF COMPT	1ED-ERCP-018 1ED-	B		5GW1740-ED-27
C4	FUTURE - 36 INCH	1ED-			
D1	CNDS BOOSTER PUMP 1A OUTLET MOV	1CM-IFCV-116	H	2.6HP	5GW1740-CM-15
D2	MFPT CNDS DRAIN TK PUMP 1A	1CC-EMOT-001	G	40HP	5GW1740-CE-06
D4	EL 604 AIR HANDLING UNIT	0VT-EMOT-069	D	20HP	5GW0740-VT-05
D5	SPARE	1ED-	D		
E1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
E2	120V-1P-CKT BKR COMPARTMENT		SEE KEY DIAG		
E4	FUSE COMPARTMENT		SEE KEY DIAG		
E5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
F1	JACKING OIL PUMP 4	1TC-EMOT-040	D	7.5HP	5GW1640-TC-24
F2	JACKING OIL PUMP 2	1TC-EMOT-038	D	7.5HP	5GW1640-TC-23
F3	JACKING OIL PUMP 7	1TC-EMOT-043	D	7.5HP	5GW1640-TC-24
F4	JACKING OIL PUMP 10	1TC-EMOT-046	D	7.5HP	5GW1640-TC-25
F5	GLAND STEAM EXH FAN 1A	1CM-EMOT-084	D	20HP	5GW1740-CM-07
F6	MS/RH A FRONT BUNDLES LAY-BY STEAM ISLN VALVE	1SM-IFCV-588	H	0.13HP	5GW1640-SM-37
G1	H_2 GAS OIL PUMP (DE)	1TQ-EMOT-060	D	10HP	5GW1640-TK-02
G2	LUBE OIL VAPOR EXTR 1A	1TC-EMOT-049	D	0.4HP	5GW1640-TC-21
G3	LUBE OIL VAPOR EXTR 1C	1TC-EMOT-051	D	0.4HP	5GW1640-TC-22
G4	STATOR COOLING WATER PMP 1A	1TK-EMOT-103	G	75HP	5GW1640-TK-03
G6	FUTURE - 5 INCH	1ED-			
H1	CCW CONDENSER 1A INLET MOV	1KH-IFCV-013	H	3.3HP	5GW1740-KH-17
H2	CCW CONDENSER 1A OUTLET MOV	1KH-IFCV-015	H	3.3HP	5GW1740-KH-17
H3	RCW STRAINER	1KW-EMOT-007	D	0.5HP	5GW1740-KW-07
H4	RAW COOLING WATER PMP 1A1	1KW-EMOT-001	F	100HP	5GW1740-KW-02
H6	FUTURE - 6 INCH	1ED-			
J1L J1R	EXCITATION COOLING PMP PKG FUTURE - HALF COMPT	1TE-EMOT-EG01 1ED-	A	9.6KVA	5GW1640-TE-01
J2	CBP AUX LUBE OIL PUMP 1A	1CM-EMOT-92[illegible]	D	0.5HP	5GW1740-CM-09

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3	MS/RH A REAR BUNDLES LAY-BY STEAM ISLN VALVE	1SM-IFCV-587	H	0.13HP	5GW1640-SM-38
J4	SPARE	1ED-	G		
J6	FUTURE-6INCH	1ED-			





NOTES

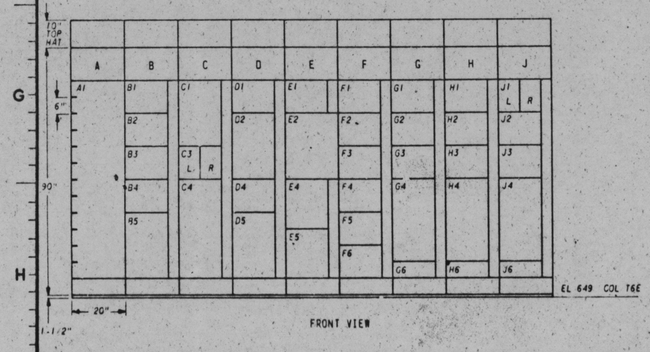
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING 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, MIDGET TYPE Z.
5. ALL CONTROL TRANSFORMERS ARE 1P, 120-120V 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, BUSSMANN TYPE JMC-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 1XA1	2TW1726-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-27
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC 1A1 COMPUTERIZED CIRCUIT SCHEDULE	5TW1762-ED

SYMBOLS

- MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



FRONT VIEW

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

COMPANION DRAWINGS:
5TW1732-ED-03
5TW1732-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	PLNG	RECD	APPD
4	S1	[illegible]									
ADDED LOAD SIZE AND SCHEMATIC DWG REF COL TO TABLES, REVISED NOTES 7 & 8 AND MOVED KEY DIAGRAM TO SHEET 3.											
3	S1	1-7-81									
ADDED LOADS TO COMPT F6 AND J3											
2	S1	12-4-77									
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.											
1	S1	2-25-76									
INCORPORATED UNID SYSTEM, GEN REV PER ECN S1 - VARIOUS											

DSGN T.W. PFEILER R.G. LARGE
DRWN C.M. TEMPLE R.C. BOGGS
CHKD H.R. TATLOW
SUPV W.H. ANDREWS
INSP
ENGINEER C.T. Dunne

SCALE: NTS EXCEPT AS NOTED

TURBINE BUILDING
UNIT 1

SINGLE LINE
480V MCC 1A1
1ED-EMCC-33

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED	RECOMMENDED	APPROVED
C.T. Dunne	[illegible]	R.M. Bolton
KNOXVILLE	12-6-74	88 E STW1732-ED-1 R4

RECORD DRAWING AS CONSTRUCTED

THIS DRAWING IS UNDER CONFIGURATION CONTROL