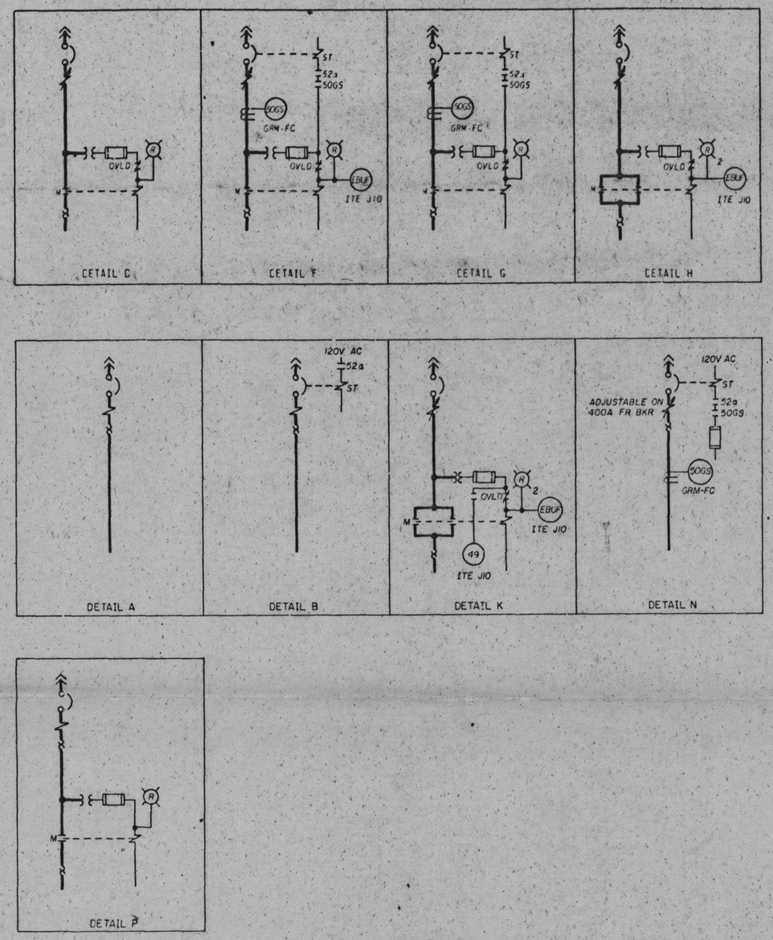
STW1735-ED-1 | 3 | 88

COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52A4-37F	SEE KEY DIAG	-	
B1	MFPT 1B LP STOP VALVE DRAIN MOV	1TD-1FCV-189	H	0.13HP	5GW1640-CF-40
B2	COND TUBE CLEANING RECIRCULATION PUMP 1H	1RC-EMOT-014	D	15HP	5GW1640-RC-02
B3L B3R	COND CLEAN SYS CONT PNL 1B DIR BRK SW OLD PUMP 1B FBR	1RC-EECD-1-10 1XN-EMOT-088B	A A	50KVA 12.5KVA	5GW1640-RC-01 5GW1640-TC-54
B4	FUTURE - 12 INCH	1ED			
B5	EL 629 AIR HANDLING UNIT	0VT-EMOT-065	G	40KVA	5GW0740-VT-17
C1	EL 613 WALL SUPPLY FAN	0VT-EMOT-011	D	3HP	5GW0740-VT-10
C2	EL 649 WALL SUPPLY FAN	0VT-EMOT-009	D	3HP	5GW0740-VT-10
C3	3 HTR DRAIN PUMP 1B AUX LUBE OIL PUMP	1CD-EMOT-914	C	1HP	5GW1640-CD-03
C4	MFPT 1B VAPOR EXTRACTOR	1CP-EMOT-011	D	0.33HP	5GW1640-CF-31
C5	MFPT TURNING GEAR 1B	1CP-EMOT-909	D	1.5HP	5GW1640-CF-32
C6	MFPT OIL PUMP 1B1	1CP-EMOT-920	D	25HP	5GW1640-CF-30
C1	HTR 6 DRAIN TANK PUMP CNDS MKUP 1SLN MOV 1B	1CM-1FCV-066	K	1HP	5GW1740-CM-21
C2	MAIN FEED PUMP 1B CNDS INLET MOV	1CM-1FCV-030	K	5.2HP	5GW1740-CM-26
C3	MAIN FEED PUMP 1B F# OUTLET MOV	1CF-1FCV-014	H	13.2HP	5GW1640-CF-02
C4	E 629 WALL SUPPLY FAN	0VT-EMOT-016	D	3HP	5GW0740-VT-10
C5	EL 673 WALL SUPPLY FAN	0VT-EMOT-002	D	3HP	5GW0740-VT-10
C6	6 HTR DRAIN PUMP 1B AUX LUBE OIL PUMP	1CE-EMOT-915	D	0.5HP	5GW1740-CE-05
E1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
E2	120V-1P-CKT EXR COMPT		SEE KEY DIAG		
E4	FUSE COMPT		SEE KEY DIAG		
E5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
F1	EL 673 1B UNIT HTR FAN	0VU-EMOT-055	D	1HP	5GW0740-VU-13
F2	EL 673 1B UNIT HTR FAN	0VU-EMOT-063	D	0.5HP	5GW0740-VU-13
F3	EL 673 1B UNIT HTR FAN	0VU-EMOT-066	D	0.5HP	5GW0740-VU-14
F4	MFPT LUBE OIL TANK 1B HTR	1CP-EHTR-013	P	9KW	5GW1640-CF-35
F5	HTR 1B1 F# OUTLET MOV	1CF-1FCV-036	K	13.2HP	5GW1640-CF-04
F6	HTR 1B4 CNDS INLET MOV	1CM-1FCV-050	K	3.94HP	5GW1740-CM-24
G1	SPARE	1ED	K		
G2	HTR 1B4 EXTRACTION STEAM INLET MOV	1SE-1FCV-097	K	2.6HP	5GW1640-SE-09
G3	HTR 1B2 F# INLET MOV	1CF-1FCV-020	K	13.2HP	5GW1640-CF-04
G4	HTR 1B5 CNDS OUTLET MOV	1CM-1FCV-062	K	3.94HP	5GW1740-CM-20
G5	HTR 1B2 EXTRACTION STEAM INLET MOV	1SE-1FCV-055	K	10.5HP	5GW1640-SE-07
G6	SPARE	1ED	K		
H1	HTR 1B3 CNDS OUTLET MOV	1CM-1FCV-042	K	3.94HP	5GW1740-CM-24
H2	HTR 1B6 CNDS INLET MOV	1CM-1FCV-069	K	3.94HP	5GW1740-CM-20
H3	HTR 1B3 EXTRACTION STEAM INLET MOV	1SE-1FCV-083	K	2.6HP	5GW1640-SE-08
H4	RAW COOLING WATER PUMP 1B2	1KW-EMOT-004	F	100HP	5GW1740-KW-03
H6	FUTURE - 6 INCH	1ED			
J1	SPARE	1ED	H		

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	SPARE	1ED	K		
J3	SPARE	1ED	H		
J4	COND TUBE CLEANING RECIRCULATION PUMP 1E	1RC-EMOT-011	D	15HP	5GW1640-RC-02
J5	COND TUBE CLEANING RECIRCULATION PUMP 1F	1RC-EMOT-012	D	15HP	5GW1640-RC-02
J6	COND TUBE CLEANING RECIRCULATION PUMP 1G	1RC-EMOT-013	D	15HP	5GW1640-RC-02
K1	SEC K BUS GRD RLY	1ED-50GS-378	SEE KEY DIAG		
K3L	TB 480V PWR RCPT A,B,C & D	1ED-ERCP-021	B		5GW1740-ED-30
K3R	INSTR SHOP 480V RCPT A & B	1ED-ERCP-035	B		5GW1740-ED-30
K4	HEATER 1B1 EXTRACTION STEAM INLET ISOLATION MOV	1SE-1FCV-034	K	19.9HP	5GW1640-SE-06
K6	FUTURE-6 INCH	1ED			
L1L	SPARE	1ED	A		
L1R	INSTR SHOP ADD HOT WTR HTR	0YP-EHTR-525	A	9KW	5GW0740-YP-01
L2	EL 673 TB UNIT HTR FAN	0VU-EMOT-058	D	0.5HP	5GW0740-VU-13
L3	MFPT 1B HP STOP VALVE DRAIN MOV	1TD-1FCV-187	H	0.20HP	5GW1640-CF-39
L4	UNIT 1 ISOLATED PHASE BUS HTR CONTROL PANEL	1XP-EMCP-1	N	160KVA	5GW1640-TC-56
L6	FUTURE -12 INCH	1ED			
M1	MFPT 1B LP STOP VALVE DRAIN MOV	1TD-1FCV-190	H	0.13HP	5GW1640-CF-40
M2	MFPT 1B TURBINE DRAIN VALVE MOV	1TD-1FCV-181	H	0.13HP	5GW1640-CF-38
M3	MFPT 1B HP STOP VALVE DRAIN MOV	1TD-1FCV-188	H	0.20HP	5GW1640-CF-39
M4	UNIT 1 MAIN GEN BUS COOLING FAN 2	1XP-EMOT-2	G	40HP	5GW1640-TC-56
M6	FUTURE -12 INCH	1ED			



NOTES:

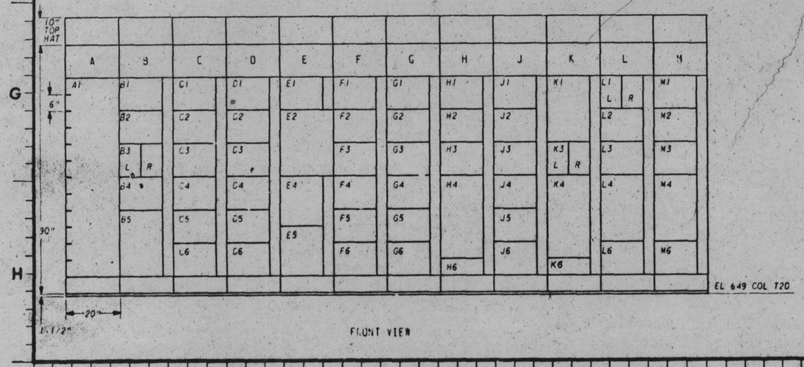
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76K5-86242 BY GOULD/ITE.
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HE" 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/SHAWMUT, AMP-TRAP, FORM 600, MIDGET TYPE 2.
5. ALL CONTROL TRANSFORMERS ARE 10, 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 GRM-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 1B2 ---------- 2TW1727-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC ---------- 5GW1710-ED-30
480V MCC COMPARTMENT TYPICALS ---------- 5GW0747-RP
480V MCC 1B2 COMPUTERIZED CIRCUIT SCHEDULE ---------- STC1765-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438
Control # 8304280536
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECD	APPD
4	S1	4-24-82	WDM	DRL							
ADDED LOAD SIZE AND SCHEMATIC DWG REF COL TO TABLES, REVISED NOTES 7 & 8 AND MOVED KEY PLAN TO SHEET 3.											
3	650, S1										
ADDED LOADS TO COMPTS K3R AND L1R. MINOR CHANGES.											
2	S1										
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE RA											
1	S1	2-25-76	WDM								
INCORPORATED UNID SYS; GEN REV PER ECN S1-VARIOUS.											

DSGN B.J. NORTON/T.M. PFIELER
DRWN D.R. ROBERTS/R.D. ROBERTS
CHKD J.E. SNYDER
SUPV W.L. ALDREDGE
INSP
ENGINEER C.T. Garner

SCALE: NTS — EXCEPT AS NOTED

TURBINE BUILDING
UNIT 1

SINGLE LINE
480V MCC 1B2
1ED-EMCC-37

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C.T. Garner | RECOMMENDED G.L. Springer | APPROVED R.M. Rodgers

KNOXVILLE 12-6-74 | 88 | E | STW1735-ED-1 | R4

RECORD DRAWING AS CONSTRUCTED

COMPANION DRAWING:
5TW1735-ED-03
5TW1735-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

THIS DRAWING IS UNDER CONFIGURATION CONTROL