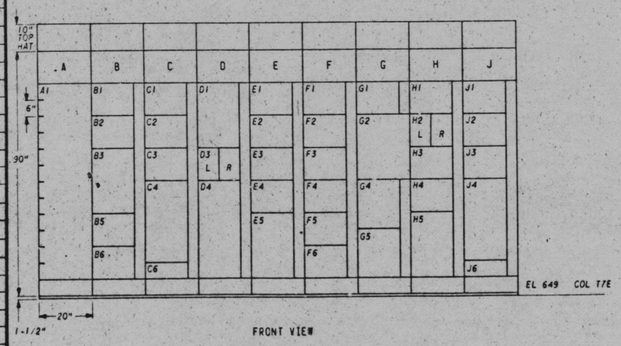
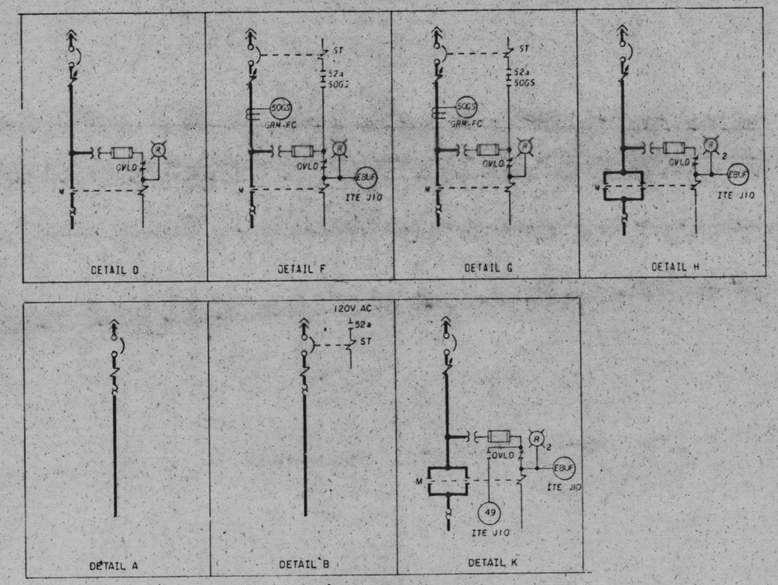
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2ED-32NA-13F	SEE KEY DIAG		-
B1	MS/RH B REAR BUNDLES DAY BY STEAM SEAL VALVE	2SM-IFCV-590	H	0.13 HP	5GW2640-SM-40
B2	SPARE	2ED	K		
B3	MAIN AIR OIL PUMP 2A	2TO-EMOT-058	G	50 HP	5GW2640-TK-02
B5	FUTURE - 12 INCH	2ED			
B6	FUTURE - 12 INCH	2ED			
C1	WFPT 2A COND INLET MOV	2CM-IFCV-094	K	3.94 HP	5GW2740-CM-17
C2	WFPT 2A COND OUTLET MOV	2CM-IFCV-087	K	3.94 HP	5GW2740-CM-17
C3	CBP AUX LUBE OIL PUMP 2A	2CM-EMOT-922	D	0.5 HP	5GW2740-CM-09
C4	RAW COOLING WATER PUMP 2A1	2KW-EMOT-001	F	100 HP	5GW2740-KW-02
C6	FUTURE - 6 INCH	2ED			
D1	SEC D BUS GRD RLY	2ED-50GS-338	SEE KEY DIAG		
D3L	TB 480V BCPT A,B,C,D	2ED-ERCP-018	B		5GW2740-ED-28
D3R	SPARE	2ED	A		
D4	FUTURE - 36 INCH	2ED			
E1	SPARE	2ED	D		
E2	EL 604 AIR HANDLING UNIT	CVT-EMOT-067	D	20 HP	5GW0740-VT-06
E3	JACKING OIL PUMP 2	2TC-EMOT-038	D	7.5 HP	5GW2640-TC-23
E4	JACKING OIL PUMP 10	2TC-EMOT-046	D	7.5 HP	5GW2640-TC-25
E5	SPARE	2ED	D		
F1	JACKING OIL PUMP 7	2TC-EMOT-043	D	7.5 HP	5GW2640-TC-24
F2	JACKING OIL PUMP 4	2TC-EMOT-040	D	7.5 HP	5GW2640-TC-24
F3	GLAND STEAM EXH FAN 2A	2CM-EMOT-084	D	20 HP	5GW2740-CM-07
F4	CCW CONDENSER 2A INLET MOV	2KH-IFCV-013	H	3.3 HP	5GW2740-KH-17
F5	CCW CONDENSER 2A OUTLET MOV	2KH-IFCV-015	H	3.3 HP	5GW2740-KH-17
F6	LUBE OIL VAPOR EXTR 2A	2TC-EMOT-049	D	0.4 HP	5GW2640-TC-21
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		
H1	SPARE	2ED	D		
H2L	EXC COOLING PUMP PKG	2TE-EMOT-EG01	A	9.6 KVA	5GW2640-TE-01
H2R	FUTURE HALF COMPT	2ED			
H3	LUBE OIL VAPOR EXTR 2C	2TC-EMOT-051	D	0.4 HP	5GW2640-TC-22
H4	H2 GAS OIL PUMP (DE)	2TO-EMOT-060	D	10 HP	5GW2640-TK-02
H5	WFPT CNDS DRAIN TK PUMP 2A	2CE-EMOT-001	G	40 HP	5GW2740-CE-06
J1	RCW STRAINER	2KW-EMOT-007	D	0.5 HP	5GW2740-KW-07
J2	MS/RH B FRONT BUNDLES DAY BY STEAM SEAL VALVE	2SM-IFCV-589	H	0.13 HP	5GW2640-SM-39

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3	CNDS BOOSTER PUMP MOV	2CM-IFCV-116	H	2.6 HP	5GW2740-CM-15
J4	STATOR COOLING WTR PMP	2TK-EMOT-103	G	75 HP	5GW2640-TK-03
J6	FUTURE - 6 INCH	2ED			



FRONT VIEW



NOTES:

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76K5-96232 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 39, 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 19, 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 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 TRN 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 BREAKERS 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 2XA1----------2TW2726-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC----------5GW2740-ED-28
480V MCC COMPARTMENT TYPICALS----------5GW0747-RP
480V MCC 2A1 COMPUTERIZED CIRCUIT SCHEDULE---------5TC2762-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

PRC APERTURE CARD

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

REV NO	ECN NO	DATE	DESIGN	DRWN	CHK	SUPV	ENGR	INSP	SUBM	RECM	APPR
4	S1										
	ADDED LOAD SIZE AND SCHEMATIC DWG REF COL TO TABLES, REVISED NOTES 7 & 8 AND MOVED KEY DIAGRAM TO SHEET 3.										
3	S1										
	ADDED LOADS TO COMPT B1 AND J2										
2	S1	4-14-79									
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT. SCH. HISTORICAL DATA BASE R4.										
1	S1	78.80	2-25-76	LDG							
	INCORPORATED UNID SYS. 2EN REV PER ECN S1. VARIOUS. DELETE DECONTIC CONTROL FOR THE CONDENSER CIRCULATING WATER OUTLET MOV PER ECN 78. ADDED AIR HANDLING UNIT PER ECN 80.										

DSGN T.A. PESTLER/R.D. LARGE
DRWN R.K. MALSTAD/D. SOBLES
CHKD W.G. TATUM
SUPV W.L. ALDREDGE
INSP
ENGINEER C.T. Garner

SCALE: NTS — EXCEPT AS NOTED

TURBINE BUILDING
UNIT 2

SINGLE LINE
480V MCC 2A1
2ED-EMCC-33

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C.T. Garner — RECOMMENDED R.L. Springer — APPROVED R.M. Hodges

KNOXVILLE 12-6-78 — 88 E STW2732-ED-1 R4

RECORD DRAWING AS CONSTRUCTED

COMPANION DRAWINGS:
STW2732-ED-03
STW2732-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

THIS SECTION DRAWING IS UNDER CONFIGURATION CONTROL