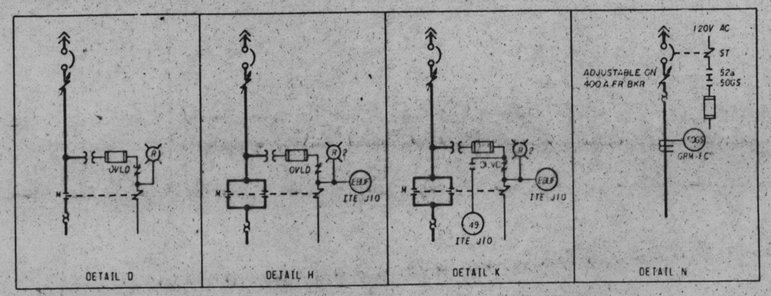
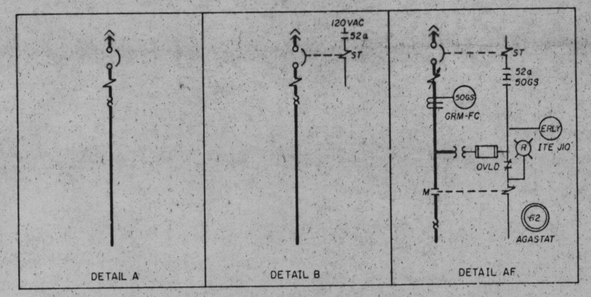
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-39F	SEE KEY DIAG		
B1	EL 673 TB UNIT HTR FAN	OVU-EMOT-045	D	1HP	5GW0740-VU-12
B2	SPARE	1ED	D		
B3	CONTROL FLUID VAPOR EXTR	1TC-EMOT-036	D	0.4HP	5GW1640-TC-27
B4	AUX CONTROL OIL PUMP 1A	1TC-EMOT-019	D	5HP	5GW1640-TC-27
B5	FUTURE - 12 INCH	1ED			
B6	EXTRACTION STEAM TO REHEATER 1-1B1 MOV	1SE-IFCV-070	K	1HP	5GW1640-SE-04
C1	JACKING OIL PUMP 1	1TC-EMOT-037	D	75HP	5GW1640-TC-23
C2	JACKING OIL PUMP 8	1TC-EMOT-044	D	75HP	5GW1640-TC-25
C3	VACUUM PUMP	1TO-EMOT-063	D	75HP	5GW1640-TK-03
C4	SPARE	1ED	D		
C5	SPARE	1ED	D		
C6	VACUUM OIL PUMP	1TO-EMOT-062	D	10HP	5GW1640-TK-02
D1	JACKING OIL PUMP 5	1TC-EMOT-041	D	75HP	5GW1640-TC-24
D2	FUTURE - 12 INCH	1ED			
D3	DIRTY LUBE OIL TRANSFER PUMP 1A	1LS-EMOT-233	D	7.5HP	5GW0740-LS-03
D4	DIRT AUX LUBE OIL PUMP 1C	1CM-EMOT-920	D	0.5HP	5GW1740-CM-13
D5	GNOS BOOSTER PUMP 1C OUTLET MOV	1CM-IFCV-104	H	2.6HP	5GW1740-CM-16
D6	SPARE	1ED	H		
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	SPARE	1ED	H		
F2	AUX STEAM TO NO 1 EXTRACTION ISOLATION MOV	1SE-IFCV-075	H	0.33HP	5GW1640-SE-03
F3	MSS TO HRH B 2B1 COILS INLET STOP VALVE	1SM-IFCV-147	K	1.6HP	5GW1640-SM-06
F4	TURBINE AUX LUBE OIL PUMP	1TC-EMOT-018	AF	75HP	5GW1640-TC-21
F6	FUTURE -6 INCH	1ED			
G1	SEC G BUS 3RD RLY	1ED-50GS-398	SEE KEY DIAG		
G3L	Td 480V PWR RCPTS A,B,C,D	1ED-EMCP-022	B		5GW1740-ED-31
G3R	Td 480V PWR RCPTS A,B,C	1ED-EMCP-023	B		5GW1740-ED-31
G4	FUTURE -36 INCH	1ED			
H1L	TB EXH VENT NO 1 RADN MON	0IR-ILPT-020	A	3.4KVA	5GW0640-IR-02
H1R	CCND VAC PMP AIR RADN MON	1IR-ILPT-031	A	3.4KVA	5GW0640-IR-02
H2L	RADIATION MONITOR FOR	0IR-ILPT-043	A	3.4KVA	5GW0640-IR-02
H2R	FUTURE -HALF COMPT	1ED			
H3	MSS REHEAT STM SUPPLY FROM MSR B	1SM-IFCV-169	H	0.37HP	5GW1640-SM-04
H4	INSTRUMENT SHOP A/C UNIT	OVO-MACU-002	N	7.9 HP	5GW0740-VO-01
H6	FUTURE -12 INCH	1ED			

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE





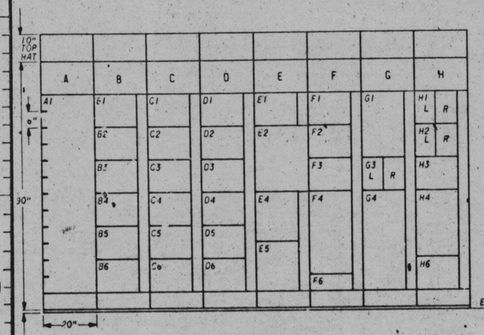
NOTES:

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 5N 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 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 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 1XC1 ------ 2TC1728-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC ------ 5GW1740-ED-31
480V MCC COMPARTMENT TYPICALS ------ 5GW0747-RP
480V MCC 1C1 COMPUTERIZED CIRCUIT SCHEDULE ------ 5TC1746-ED

SYMBOLS



REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUPRV	REGR	APPR
5	S1	6-24-82									
	ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 7 & 8 AND MOVED KEY DIAGRAM TO SHEET 3										
4	1650	8-5-81									
	MOVED LOAD FROM COMPT D2 TO H4										
3	1650	6-4-80									
	ADDED LOAD										
2	S1	12-14-79									
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4										
1	S1	2-25-76	RDR			WRT	CE	CE	JLS		
	INCORPORATED UNID SYS. GEN REV PER ECN S1-VAR-705										

ORGN L. C. CIERLEE
DFTMN R. B. MANAGUB/R. C. ROBINS
CHKD R. V. NABICH
SUPV W. L. ALDRIDGE
INSP
ENGINEER C. T. Garner

SCALE: NTS — EXCEPT AS NOTED

TURBINE BUILDING
UNIT 1

SINGLE LINE
480V MCC 1C1
1ED-EMCC-39

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C. T. Garner | RECOMMENDED | APPROVED

KNOXVILLE 2-6-74 | 88 | E | 5TW1736-ED-1 | R5

RECORD DRAWING AS CONSTRUCTED

THIS DRAWING IS UNDER CONFIGURATION CONTROL

COMPANION DRAWINGS:
5TW1736-ED-03
5TW1736-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRINT IN 5
SIZE F 0
DR OR PROJ WE EE CE AD CO ED MD SW BL PA
PR-NTS 9530 9

PRC APERTURE CARD

Docket # 50-438
Control # 8351405056
Date 3-25-83 of Document
REGULATORY DOCKET FILE