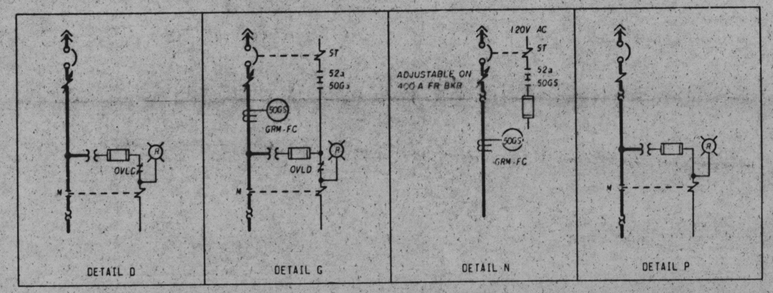
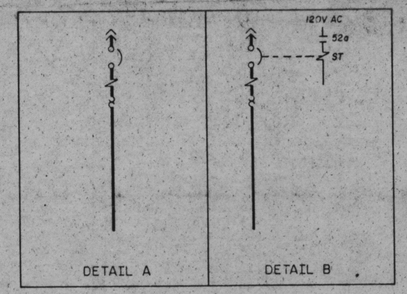
COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-43F	SEE KEY DIAG		-
B1	TURBINE BUILDING AIR PREHEAT SECONDARY PUMP A	OVU-EMOT-068	D	2HP	5GW0740-VU-04
B2	TURBINE BUILDING AIR PREHEAT SECONDARY PUMP B	OVU-EMOT-069	D	3HP	5GW0740-VU-04
B3	SPARE	1ED	P		
B4	TB CHILLER CONDENSATE TRAIN PUMP	1SA-EMOT-449	D	1HP	5GW0640-SA-06
B5	CONDENSATE TRANSFER PUMP	OCS-EMOT-002	G	50HP	5GW0740-CS-01
C1	SPARE	1ED			
C2	HOT WATER HEATING DRAIN TANK PUMP A	OSA-EMOT-226	D	15HP	5GW0640-SA-01
C3	HOT WATER HEATING DRAIN TANK PUMP B	OSA-EMOT-225	D	15HP	5GW0640-SA-01
C4	MAIN WATER HEATING SYSTEM MAKEUP WATER PUMP	OVU-EMOT-005	D	3HP	5GW0740-VU-02
C5	LUBE OIL PURIFICATION PKG	OLS-MCEN-006	N	83.6KVA	5GW0740-LS-03
D1	SEC C BUS GRD RLY	1ED-50GS-43B	SEE KEY DIAG		
D3L	TURB BLDG HOT WTR HTR	OYP-EHTR-413	A	18KW	5GW0740-YP-01
D3R	TURB BLDG FWR RCPT A,B	OED-ERCP-027	B		5GW1740-ED-25
D4	FUTURE - 36 INCH	1ED			
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	FUTURE - 24 INCH	1ED			
F3L	SPARE	1ED	A		
F3R	TURB BLDG UTILITY ELEVATOR	OME-MELV-004	A	30HP	5GW0740-ME-01
F4	SPARE	1ED	D		
F5	SPARE	1ED	D		
F6	SPARE	1ED	D		

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG. REFERENCE





NOTES:

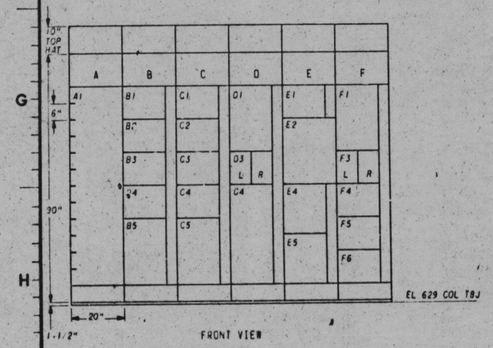
1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-86242 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 3P, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "HE" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES
3. ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 1P, 100 FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "BQ" SERIES
4. ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, 2NP-1/AP, FORM 600, MIDGET TYPE 2
5. ALL CONTROL TRANSFORMERS ARE 1Ø, 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 5 KVA 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 (MCC)	2TW1728-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-25
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC SXT2 COMPUTERIZED CIRCUIT SCHEDULE	STC0763-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



Docket # 50-438
Control # 8304050536
Date 2-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	TLWN	MECH	APPD
3	S1	9-24-82									
ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES 7 AND 8 AND MOVED SKT DIAGRAM TO SHEET 3 MINOR CHANGE											
2	S1	12-14-79									
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.											
1	S1	2-25-76	FOR								
INCORPORATED UNID-SYS. GEN REV PER ECN S1-VARIOUS											

DSGN L. D. GIESLER
DRWN R. M. MALLOY, B.C. ROBERTS
CHKD R. S. LAPOE
SUPV W. L. ALDRIDGE
INSP
ENGINEER C. T. Garner

SCALE: NTS — EXCEPT AS NOTED

TURBINE BUILDING
UNITS 1 & 2

SINGLE LINE
480 V MCC SXT2
1ED-EMCC-43

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

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

KNOXVILLE 12-6-76 — 88 E STW0733-ED-1 R3

RECORD DRAWING AS CONSTRUCTED

COMPANION DWG:
STW0733-ED-03
STW0733-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

THIS DRAWING IS UNDER CONFIGURATION CONTROL