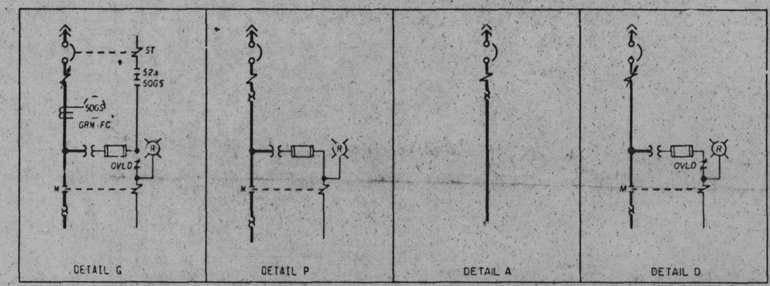
STW0735-ED-1 | 3 | 88

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-45F	SEE KEY DIAG		
B1	DIRTY LUBE OIL TK #1 HTR A	OLS-EHTR-266	P	9KW	5GW0740-LS-07
B2	DIRTY LUBE OIL TK #1 HTR C	OLS-EHTR-268	P	9KW	5GW0740-LS-07
B3	DIRTY LUBE OIL TK #2 HTR A	OLS-EHTR-269	P	9KW	5GW0740-LS-08
B4	TURBINE BUILDING STATION SUMP PUMP A	OWE-EMOT-006	G	75HP	5GW0740-WE-02
B6	FUTURE - 6 INCH	1ED			
C1	SWYD CABLE TUNNEL SUPPLY FAN	OVY-EMOT-012	O	5HP	9YW0740-VY-01
C2	SWYD CABLE TUNNEL EXH FAN	OVY-EMOT-013	O	1.5HP	9YW0740-VY-01
C3L	HEAT TRACING SYSTEM FOR	TMC-ET-10	A	6KVA	5GW1740-MC-04
C3R	HEAT TRACING SYSTEM FOR	TMC-ET-9	A	37.5KVA	5GW1740-MC-04
C4	SWYD CABLE TUNNEL EXH FAN	OVY-EMOT-015	O	0.5HP	9YW0740-VY-01
C5	CLEAN LUBE OIL TK #1 HTR A	OLS-EHTR-260	P	9KW	5GW0740-LS-05
C6	CLEAN LUBE OIL TK #1 HTR C	OLS-EHTR-262	P	9KW	5GW0740-LS-05
D1	CLEAN LUBE OIL TK #2 HTR A	OLS-EHTR-263	P	9KW	5GW0740-LS-06
D2	CLEAN LUBE OIL TRANSFER PUMP	OLS-EMOT-009	O	10HP	5GW0740-LS-03
D3	SWYD CABLE TUNNEL EXH FAN	OVY-EMOT-014	O	0.5HP	9YW0740-VY-01
D4L	20 TON HVY RIGGING HOIST	OMM-MMHE-034	A	15.5KVA	5GW0740-MM-02
D4R	TURB BLDG ROLLING OVHD DOOR	OMA-MDOR-598	A	3HP	5GW0740-MA-05
D5	VIRGIN LUBE OIL TANK HTR B	OLS-EHTR-258	P	9KW	5GW0740-LS-04
D6	FUTURE - 12 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		

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE



NOTES

1 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO 76KS-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, 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 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 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 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

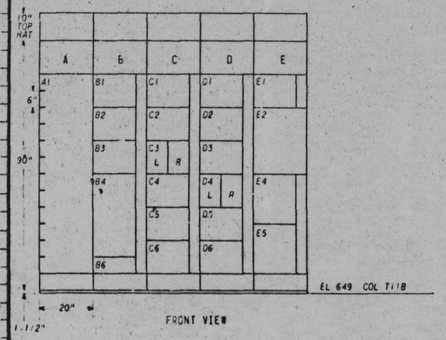
10 ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2GW0720-RP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR (XC)	2TW1728-ED-1
480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW1740-ED-26
480V MCC COMPARTMENT TYPICALS	5GW0747-RP
480V MCC SXT4 COMPUTERIZED CIRCUIT SCHEDULE	51C0765-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)



FRONT VIEW

Docket # 50-438
Control # 8304050534
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV NO	ECN NO	DATE	DSGN	DRWN	CHKD	SUPV	CHGR	INSP	SUBM	RECM	APPD
4	S1	[illegible]	[illegible]	IRL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	ADDED LOAD SIZE AND SCHEMATIC DWG REF COL TO TABLES, REVISED NOTES 7 & 8 AND MOVED KEY DIAGRAM TO SHEET 3.										
3	1006	12-16-80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	CORRECTED UNID										
2	S1	12-14-79	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4										
1	S1	2-25-76	RDR	[illegible]	RCL	[illegible]	[illegible]	CB	LLS	[illegible]	
	INCORPORATED UNIC SYS, GEN REV PER ECN S1 - VARIOUS										

DSGN L. C. GIESLER
DRWN C. D. TEMPLETON / C. ROBERTS
CHKD B. J. NORICK
SUPV W. H. ALDRIDGE
INSP
ENGINEER C. T. Garner

SCALE: NTS EXCEPT AS NOTED

TURBINE BUILDING
UNITS 1 & 2

SINGLE LINE
480V MCC SXT4
1ED-EMCC-45

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C. T. Garner | RECOMMENDED [illegible] | APPROVED R. M. Hodge

KNOXVILLE 12-6-74 | 88 | E | STW0735-ED-1 | R4

RECORD DRAWING AS CONSTRUCTED

COMPANION DRAWINGS:
STW0735-ED-03
STW0735-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

PRINT # 2
S/F # 0

THIS DRAWING IS UNDER CONFIGURATION CONTROL