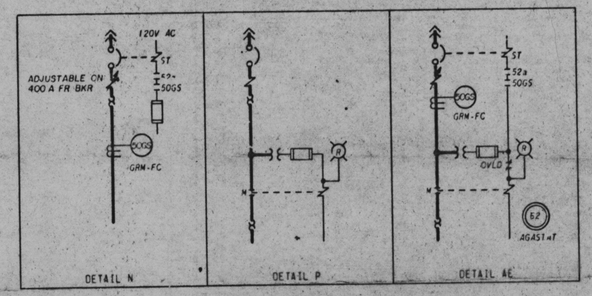
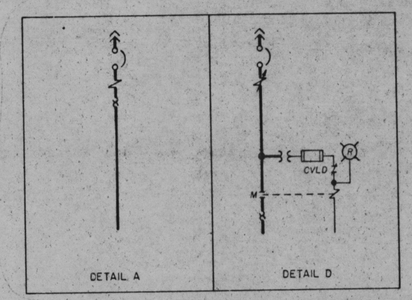
COMPT NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2ED-52NA-46F	SEE KEY DIAG		
B1	DIRTY LUBE OIL TK -1 HTR B	OLS-EHTR-267	P	9KW	5GW0740-LS-07
B2	DIRTY LUBE OIL TK -2 HTR B	OLS-EHTR-270	P	9KW	5GW0740-LS-08
B3	DIRTY LUBE OIL TK -2 HTR C	OLS-EHTR-271	P	9KW	5GW0740-LS-08
B4	TURBINE BLDG STA SUMP PMP B	OWE-EMOT-007	AE	75HP	5GW0740-WE-02
B6	FUTURE - 6 INCH	2ED			
C1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
C2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
C4	FUSE COMPT		SEE KEY DIAG		
C5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
D1	TB CHILLER CONDENSATE DR PMP	2SA-EMOT-449	D	1HP	5GW0640-SA-06
D2	CLEAN LUBE OIL TANK -2 HTR B	OLS-EHTR-264	P	9KW	5GW0740-LS-06
D3	CLEAN LUBE OIL TANK -2 HTR C	OLS-EHTR-265	P	9KW	5GW0740-LS-06
D4	SPARE	2ED	N		
D6	VIRGIN LUBE OIL TANK HTR A	OLS-EHTR-257	P	9KW	5GW0740-LS-04
E1L	HEAT TRACING SYSTEM FOR	2MC-ET-16	A	20KVA	5GW2740-MC-07
E1R	HEAT TRACING SYSTEM FOR	2MC-ET-17	A	20KVA	5GW2740-MC-07
E2L	HEAT TRACING SYSTEM FOR	2MC-ET-9	A	30KVA	5GW2740-MC-04
E2R	FUTURE - HALF COMPT	2ED			
E3	CLEAN LUBE OIL TK -1 HTR B	OLS-EHTR-261	P	9KW	5GW0740-LS-05
E4	VIRGIN LUBE OIL TANK HTR C	OLS-EHTR-259	P	9KW	5GW0740-LS-04
E5	SPARE	2ED	D		

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE





NOTES

1. 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76K5-84242 BY GOULD/ITE
2. ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 5#, 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, WIDGET 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 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 BREAKER SETTINGS.
9. THIS MCC IS NON-CLASS IE
10. ALL AGASTAT RELAYS ARE OF THE 7000 SERIES

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE	2LM0720-HP-01
SINGLE LINE DIAGRAM 480V SWITCHGEAR 2XC1	2TW2720-ED-1
480V NORMAL AC AXUILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC	5GW2740-ED-27
480V MCC COMPARTMENT TYPICALS	5GW0747-HP
480V MCC SXT5 COMPUTERIZED CIRCUIT SCHEDULE	5TC0766-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

PRC APERTURE CARD

Docket # 50-438 50-439
Control # 83-4-3556
Date 3-25-83 of Document:
REGULATORY DOCKET FILE

REV NO	ECN NO	DATE	DSGN	CHKD	CHKD	SUPV	ENGR	RSP	SUBM	RECM	APPD
5	S1	11-12-86	RCM	IRL							
ADDED LOAD SIZE AND SCHEMATIC DWG REF COL TO TABLES, REVISED NOTES, 3.8 AND MOVED KEY DIAGRAM TO SHEET 3											
4	12799	11-25-81	RCM								
ADDED "MC" SYSTEM LOADS TO COMPT E1L AND E1R											
3	1006	12-10-80									
DELETED AND ADDED LOADS											
2	S1	12-14-79									
RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE R4.											
1	S1	2-25-76	RCM		RGL						
INCORPORATED UNID SYS. GEN REV PER ECN S1 - VARIOUS.											

DSGN L. D. GIESLER
DRWN R. C. ROBERTS
CHKD B. J. CARTON
SUPV W. J. ALDRIDGE
INSP
ENGINEER C. T. Garner

SCALE: NTS EXCEPT AS NOTED

TURBINE BUILDING
UNITS 1 & 2

SINGLE LINE
480V MCC SXT5
2ED-EMCC-46

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

N

SUBMITTED C. T. Garner
RECOMMENDED J. L. Spruger
APPROVED R. M. Bridges

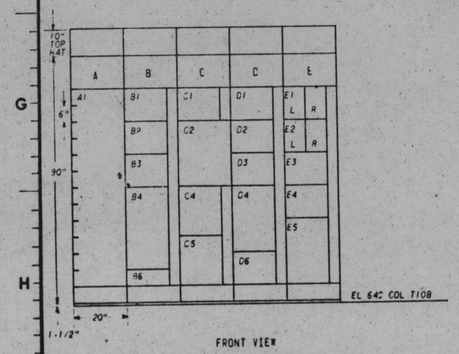
KNOXVILLE 12-6-76

88 E STW0736-ED-1 R5

RECORD DRAWING AS CONSTRUCTED

COMPANION DRAWING:
5TW0736-ED-03
5TW0736-ED-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE



FRONT VIEW