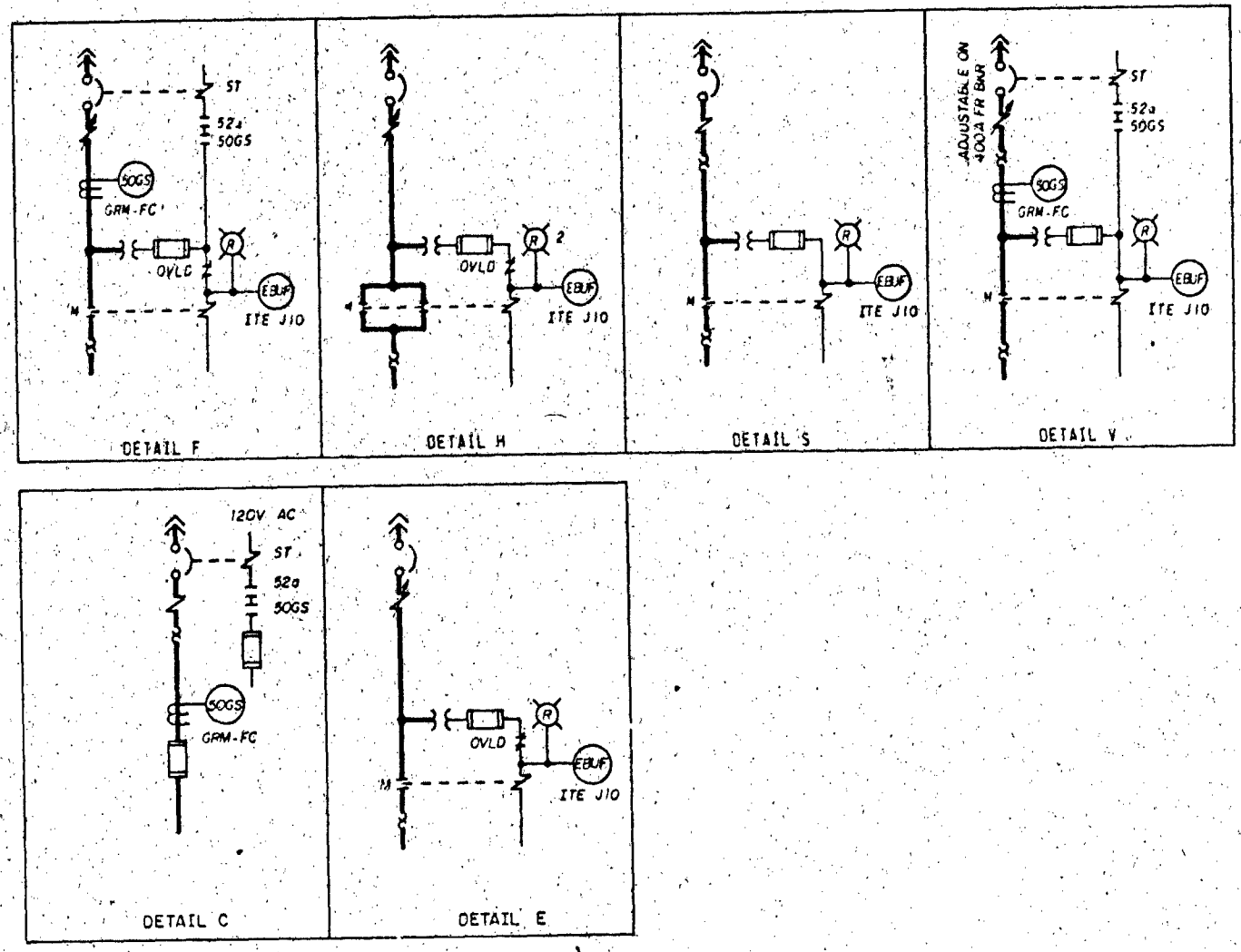


COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	2EI-52MA-64F-A	SEE KEY DIAG		
B1	DSL GEN BLDG LTG CAB	2EN-ELT-007	C	7.5KVA	5GW2747-EN-01
B2	SPARE	2EI	C		
B4	SPARE	2EI	S		
B5	DSL GEN 001-A STARTING AIR COMPRESSOR 009-A	2RG-EMOT-009-A	E	30HP	5GW2740-RG-02
C1	ERCW SUPPLY HDR A TO DSL GEN 2A A HX WTR	2KE-IFCV-138-A	H	0.13HP	5GW2740-KE-18
C2	DSL GEN 001-A LUBE OIL WTR	2RT-ENTR-011-A	V	48KW	5GW2740-RT-02
C4	STANDBY LUBE OIL PUMP	2RT-EMOT-003-A	F	60HP	5GW2740-RT-04
C6	FUTURE - 6 INCH	2EI			
D1	SPARE	2EI	E		
D2	SPARE	2EI	E		
D3	FUTURE - 18 INCH	2EI			
D4	SPARE	2EI	F		
E1	MCC LOSS OF VOLTAGE RLY.		SEE KEY DIAG		
E2	120V LP. CKT BKR COMPT		SEE KEY DIAG		
E4	FUSE COMPT.		SEE KEY DIAG		
E5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
F1	DSL GEN 001-A STARTING AIR COMPRESSOR 010-A	2RG-EMOT-010-A	E	30HP	5GW2740-RG-02
F3	DSL GEN 001-A JACKET WATER KEEPWARM PUMP	2RT-EMOT-005-A	E	1.5HP	5GW2740-RT-02
F4	DSL GEN EXH FAN 2A1	2VG-EMOT-001-A	F	100HP	5GW2740-VG-02
F6	FUTURE - 6 INCH	2EI			
G1	DSL GEN BLDG ELEC BD RM EXH FAN	2VF-EMOT-005-A	E	7.5HP	5GW2740-VF-04
G2	SPARE	2EI	E		
G3	DSL GEN 001-A LUBE OIL KEEPWARM PUMP	2RT-EMOT-007-A	E	15HP	5GW2740-RT-02
G4	DSL GEN EXH FAN 2A2	2VG-EMOT-002-A	F	100HP	5GW2740-VG-02
G6	FUTURE - 6 INCH	2EI			
H1	DSL GEN FUEL TRANS PUMP 2A1	2FF-EMOT-007-A	E	2HP	5GW2740-FF-02
H2	DSL GEN FUEL TRANS PUMP 2A2	2FF-EMOT-008-A	E	2HP	5GW2740-FF-02
H3	DSL GEN 001-A SPACE WTR	2RT-ENTR-009-A	S	8KW	5GW2740-RT-08
H4	DSL GEN 001-A JACKET WATER HEATER	2RT-ENTR-013-A	V	75KW	5GW2740-RT-02
H6	FUTURE - 6 INCH	2EI			
J1	DSL GEN FUEL OIL DRAIN RETURN PUMP 2A	2FF-EMOT-013-A	E	1HP	5GW2740-FF-03

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	DSL GEN 001-A STARTING AIR COMPRESSOR 010-A AFTERCOOLER	2RG-EMOT-018-A	E	1HP	5GW2740-RG-02
J3	DSL GEN 001-A STARTING AIR COMPRESSOR 009-A AFTERCOOLER	2RG-EMOT-015-A	E	1HP	5GW2740-RG-02
J4	FUTURE - 12 INCH	2EI			
J5	FUTURE - 12 INCH	2EI			
J6	FUTURE - 12 INCH	2EI			



- NOTES
- 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 76S-86242 BY GOULD/ITE.
  - ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 10, 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 "L" SERIES.
  - ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 10, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "90" SERIES.
  - ALL 5A AND 10A FUSES ARE GOULD/SHANNUT AMP-TRAP, FORM 600, WIDGET TYPE 2.
  - FUSES IN THE POWER CIRCUITS ARE GOULD/SHANNUT CLASS "J" CURRENT LIMITING. FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
  - ALL CONTROL TRANSFORMERS ARE 10, 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNG FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHANNUT TYPE TRM FUSE.
  - GROUND FAULT PROTECTION (50GS), ITE TYPE GRM-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
  - THE PRIMARY OF THE 5KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMAN TYPE JMC-15 FUSE.
  - 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. DOCUMENTS DEVICE RATINGS AND ADJUSTABLE CIRCUIT BREAKER SETTINGS.
  - THIS MCC IS CLASS "E".
  - ALL MAGNETIC DELAYS ARE OF THE "9000" SERIES.

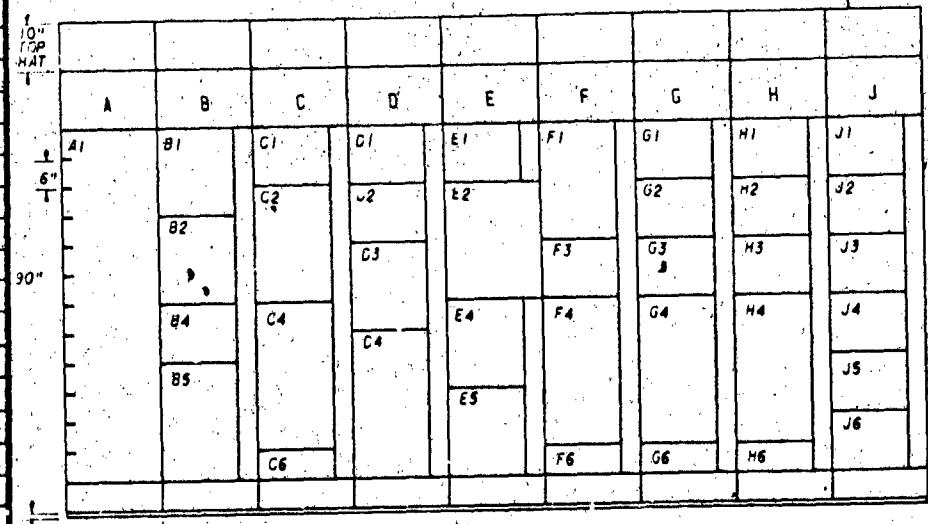
- REFERENCED DRAWINGS AND DOCUMENTS
- PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE 26W0720-AP-01
  - SINGLE LINE DIAGRAM 480V SWITCHGEAR 2E2-A 2AN2728-EI-1
  - 480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5GW2740-EI-13
  - 480V MCC COMPARTMENT TYPICALS 5GW0747-AP
  - 480V MCC 2E4-A COMPUTERIZED CIRCUIT SCHEDULE 5DC2762-EI

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

PRC APERTURE CARD

Docket # 50-438  
Control # 8304850536  
Date 3-25-83  
of Document:  
REGULATORY DOCKET FILE



EL 655 COL 67M

COMPANION DWG: SOW2732-EI-03 SOW2733-EI-02 HAS BEEN VOIDED. INSPECTED AND APPROVED FOR ISSUE

3	SI	REVISION	DATE	BY	CHKD	APPD
1	SI	ISSUED FOR CONSTRUCTION	3-25-83	C.T. Gerner		
2	SI	REVISION	DATE	BY	CHKD	APPD
1	SI	ISSUED FOR CONSTRUCTION	3-25-83	C.T. Gerner		
INCORPORATED UNID SYS. GEN REV PER ECM SI-VARIOUS.						
NO.	ECN NO.	DATE	BY	CHKD	APPD	
0001						
SCALE: NTS EXCEPT AS NOTED						
DIESEL GENERATOR BUILDING UNIT 2						
SINGLE LINE 480V MCC 2E4-A 2EI-EMCC-64-A						
BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY						
DIVISION OF ENGINEERING DESIGN						
SUBMITTED BY: C.T. Gerner						
RECOMMENDED BY: C.T. Gerner						
APPROVED BY: C.T. Gerner						
INSPECTED AND APPROVED FOR ISSUE						
KNOXVILLE 3-25-83 88 E SOW2732-EI-1 83						