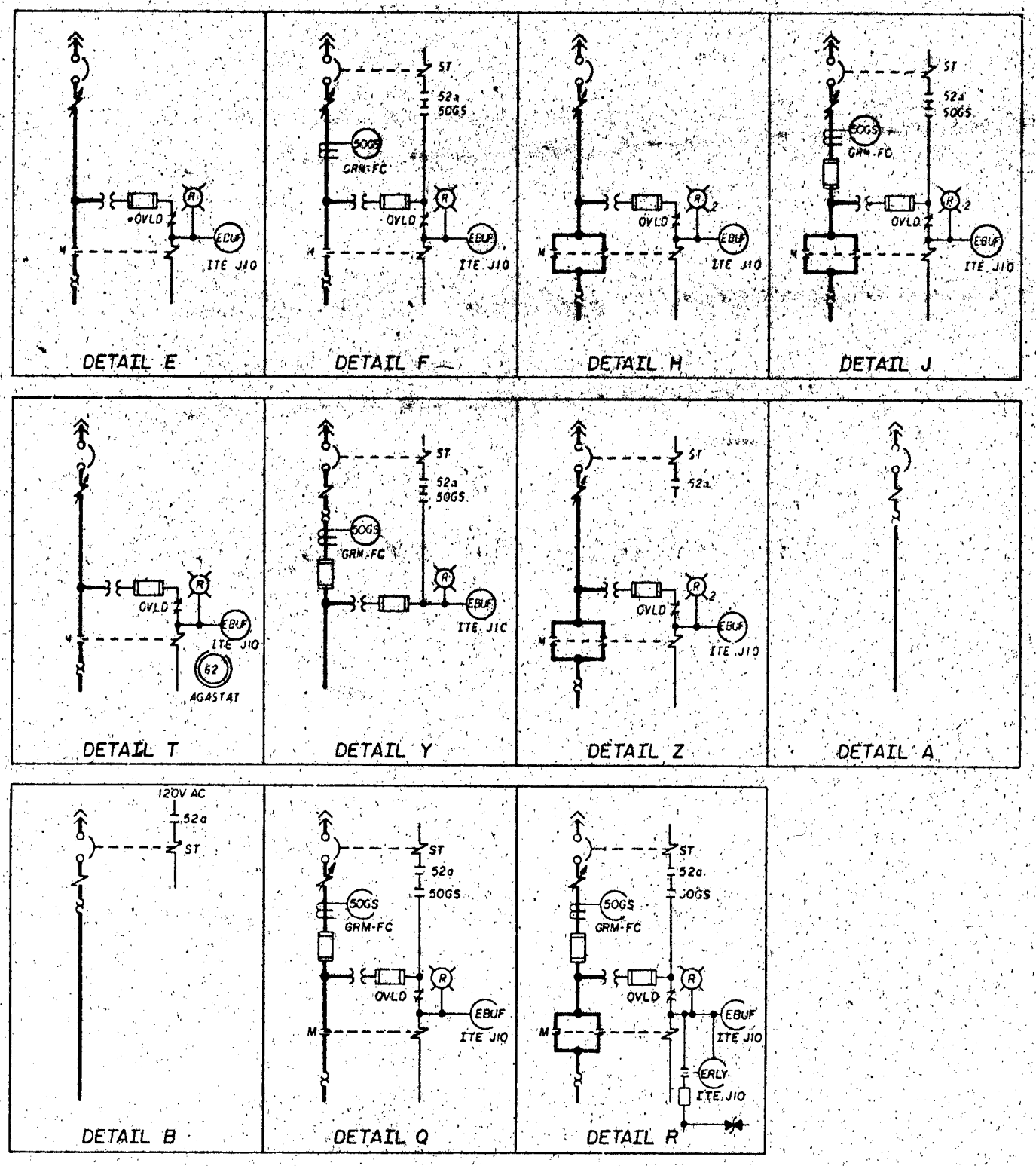


COMPT NO.	LOAD	UNID	DETAILED	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1E1-52NA-61F-A	SEE KEY DIAG		
B1	NTMT HYDROGEN ANALYZER	1E1-EXPR-101-A	A	6.5KVA	5GW0640-NO-08
B2	SPARE	1E1	H		
B3	ZONE 1A WATER CHILLER AREA AHU	1VA-EMOT-181-A	E	20HP	5GW1740-VA-08
B4	SPARE	1E1	E	0.66HP	
B5	CC WATER COOLER 006-A	1KC-IFCV-314-A	H		5GW1740-KC-27
B6	SPARE	1E1	E		
C1	MKUP LETDOWN SHUTOFF INLET	1NV-IFCV-028-A	J	1.33HP	5GW1740-NV-07
C2	MKUP LETDOWN SHUTOFF INLET	1NV-IFCV-021-A	J	1.33HP	5GW1740-NV-07
C4	SPARE	1E1	E		
C5	MKUP HPI PUMP 1A1-A ROOM	1VA-EMOT-048-A	E	7.5HP	5GW1740-VA-06
C6	ZONE 1A CCS PUMP ROOM AHU	1VA-EMOT-047-A	E	15HP	5GW1740-VA-06
D1	SPARE	1E1	Q		
D2	SPARE	1E1	J		
D4	ZONE 1A 125V VITAL BATTERY	1VA-EMOT-043-A	E	10HP	5GW1740-VA-07
D5	ZONE 1A EL 669 ESSENTIAL	1VA-EMOT-044-A	E	20HP	5GW1740-VA-07
E1	HEAT TRACING SYSTEM FOR	1MC-ET-1-A	B	20KVA	5GW1740-MC-05
E2	HEAT TRACING SYSTEM FOR	1MC-ET-2-A	B	20KVA	5GW1740-MC-05
E3	HEAT TRACING SYSTEM FOR	1MC-ET-3-A	B	20KVA	5GW1740-MC-05
E4	HEAT TRACING SYSTEM FOR	1MC-ET-4-A	B	20KVA	5GW1740-MC-05
E5	HEAT TRACING SYSTEM FOR	1MC-ET-5-A	B	20KVA	5GW1740-MC-05
E6	HEAT TRACING SYSTEM FOR	1MC-ET-6-A	B	20KVA	5GW1740-MC-05
E7	HEAT TRACING SYSTEM FOR	1MC-ET-7-A	B	20KVA	5GW1740-MC-05
E8	HEAT TRACING SYSTEM FOR	1MC-ET-8-A	B	20KVA	5GW1740-MC-05
E9	HEAT TRACING SYSTEM FOR	1MC-ET-9-A	B	20KVA	5GW1740-MC-05
E10	HEAT TRACING SYSTEM FOR	1MC-ET-10-A	B	20KVA	5GW1740-MC-05
E11	HEAT TRACING SYSTEM FOR	1MC-ET-11-A	B	20KVA	5GW1740-MC-05
E12	HEAT TRACING SYSTEM FOR	1MC-ET-12-A	B	20KVA	5GW1740-MC-05
E13	HEAT TRACING SYSTEM FOR	1MC-ET-13-A	B	20KVA	5GW1740-MC-05
E14	HEAT TRACING SYSTEM FOR	1MC-ET-14-A	B	20KVA	5GW1740-MC-05
E15	HEAT TRACING SYSTEM FOR	1MC-ET-15-A	B	20KVA	5GW1740-MC-05
E16	HEAT TRACING SYSTEM FOR	1MC-ET-16-A	B	20KVA	5GW1740-MC-05
E17	HEAT TRACING SYSTEM FOR	1MC-ET-17-A	B	20KVA	5GW1740-MC-05
E18	HEAT TRACING SYSTEM FOR	1MC-ET-18-A	B	20KVA	5GW1740-MC-05
E19	HEAT TRACING SYSTEM FOR	1MC-ET-19-A	B	20KVA	5GW1740-MC-05
E20	HEAT TRACING SYSTEM FOR	1MC-ET-20-A	B	20KVA	5GW1740-MC-05
E21	HEAT TRACING SYSTEM FOR	1MC-ET-21-A	B	20KVA	5GW1740-MC-05
E22	HEAT TRACING SYSTEM FOR	1MC-ET-22-A	B	20KVA	5GW1740-MC-05
E23	HEAT TRACING SYSTEM FOR	1MC-ET-23-A	B	20KVA	5GW1740-MC-05
E24	HEAT TRACING SYSTEM FOR	1MC-ET-24-A	B	20KVA	5GW1740-MC-05
E25	HEAT TRACING SYSTEM FOR	1MC-ET-25-A	B	20KVA	5GW1740-MC-05
E26	HEAT TRACING SYSTEM FOR	1MC-ET-26-A	B	20KVA	5GW1740-MC-05
E27	HEAT TRACING SYSTEM FOR	1MC-ET-27-A	B	20KVA	5GW1740-MC-05
E28	HEAT TRACING SYSTEM FOR	1MC-ET-28-A	B	20KVA	5GW1740-MC-05
E29	HEAT TRACING SYSTEM FOR	1MC-ET-29-A	B	20KVA	5GW1740-MC-05
E30	HEAT TRACING SYSTEM FOR	1MC-ET-30-A	B	20KVA	5GW1740-MC-05
F1	HYDROGEN RECIRCULATION FAN	1NO-EMOT-002-A	Q	20HP	5GW0640-NO-02
F2	MKUP HPI TO HCP P1A1 MOV	1NV-IFCV-101-A	H	0.7HP	5GW1740-NV-15
F3	MKUP HPI TO HCP P1A2 MOV	1NV-IFCV-113-A	H	0.7HP	5GW1740-NV-15
F4	TRAIN 1A HPI PUMP SUCTION	1NV-IFCV-450-A	H	1.66HP	5GW1740-NV-12
F5	FUTURE - 18 INCH	1E1			
G1	MKUP TANK OUTLET MOV	1NV-IFCV-452-A	H	0.66HP	5GW1740-NV-13
G2	MKUP PUMP RECIRCULATION	1NV-IFCV-077-A	H	1.6HP	5GW1740-NV-14
G3	ZONE 1A MECH EQPT ROOM	1VA-EMOT-008-A	T	15HP	5GW1740-VA-02
G4	SPARE	1E1	E		
G5	ERCH SUPPLY HOR A TO DSL	1KE-IFCV-295-A	H	0.13HP	5GW1740-KE-18
G6	HEAT TRACING SYSTEM FOR	1MC-ET-1-A	B	20KVA	5GW1740-MC-05
H1	SPARE	1E1			
H2	MCC LOSS OF VOLTAGE RLY				
H3	120V-1P-CKT BKR LCPMT				
H4	FUSE COMPT				
H5	MCC CONTROL TRANSFORMER				
H6	AND DISCONNECT SWITCH				
J1	DUPIC ACID PUMP 1A-A	1NV-EMOT-007-A	E	15HP	5GW1740-NV-07

COMPT NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J2	ZONE 1A ESSENTIAL ELEC EQPT	1VA-EMOT-032-A	E	10HP	5GW1740-VA-05
J3	ZONE 1A ESSENTIAL ELEC EQPT	1VA-EMOT-014-A	E	7.5HP	5GW1740-VA-03
J4	SP COOLER IA INLET MOV	1KC-IFCV-342-A	H	0.33HP	5GW1740-KC-18
J5	SP COOLER IA OUTLET MOV	1KC-IFCV-349-A	H	0.33HP	5GW1740-KC-18
J6	SUPPLY HOR IA TO AUX BLDG	1KE-IFCV-128-A	H	0.13HP	5GW1740-KE-15
K1	CC WATER COOLER 006-A	1KC-IFCV-313-A	H	0.66HP	5GW1740-KC-27
K2	NO EVAPORATOR INLET MOV	1KC-IFCV-311-A	H	0.33HP	5GW1740-KC-17
K3	NO EVAPORATOR OUTLET MOV	1KC-IFCV-340-A	H	0.33HP	5GW1740-KC-17
K4	RC BLEED EVAPORATOR IA	1KC-IFCV-290-A	H	0.33HP	5GW1740-KC-16
K5	RC BLEED EVAPORATOR IA	1KC-IFCV-303-A	H	0.33HP	5GW1740-KC-16
K6	DHR TO MKUP/HPI PUMP MOV	1ND-IFCV-068-A	H	0.66HP	5GW1740-ND-07
L1	SPARE	1E1	Z		
L2	SPARE	1E1	Z		
L3	FUTURE - 12 INCH	1E1			
L4	LETDOWN LINE DUMP TO SUMP	1ND-IFCV-240-A	R	0.7HP	5GW1740-ND-14
L5	DUMP TO SUMP ISOLATION	1ND-IFCV-236-A	R	0.7HP	5GW1740-ND-12
M1	FUTURE-12 INCH	1E1			
M2	FUTURE-12 INCH	1E1			
M3	RB CC OUTLET OUTSIDE	1KC-IFCV-212-A	H	0.66HP	5GW1740-KC-14
M4	RB CC LEAD CONTROL OUTSIDE	1KC-IFCV-147-A	H	0.66HP	5GW1740-KC-09
M5	ZONE 1A MECH EQPT ROOM	1VA-EMOT-022-A	F	50HP	5GW1740-VA-04

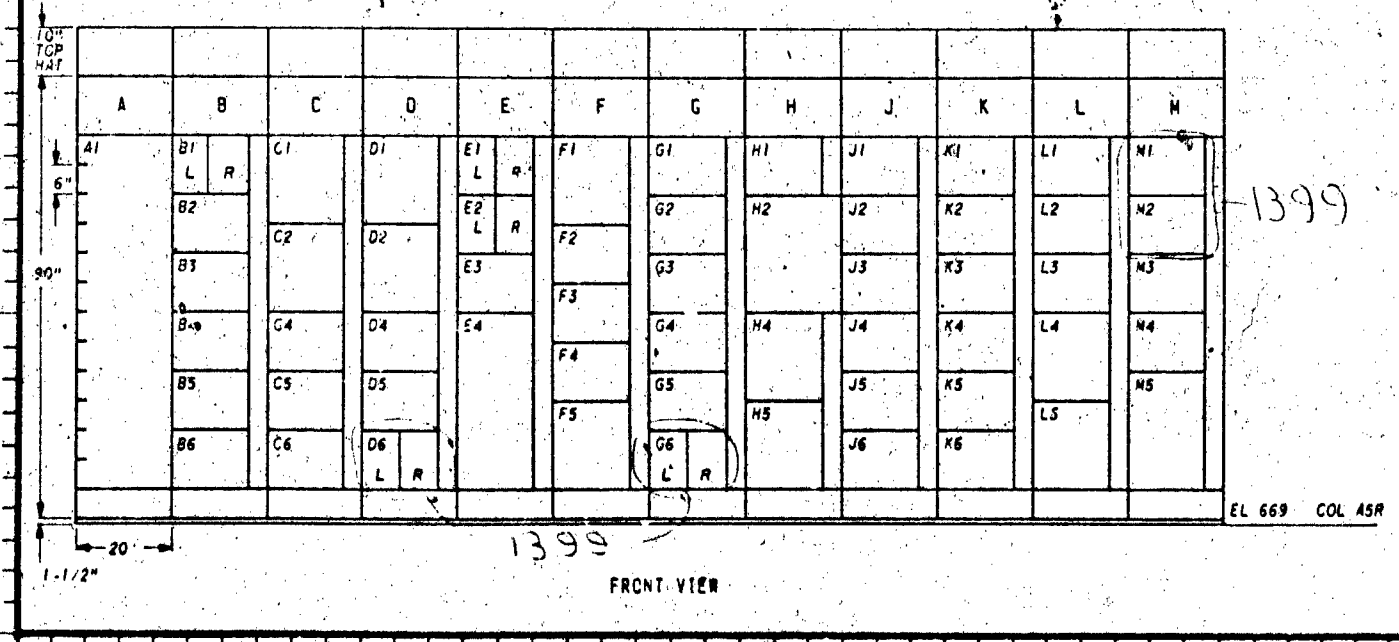
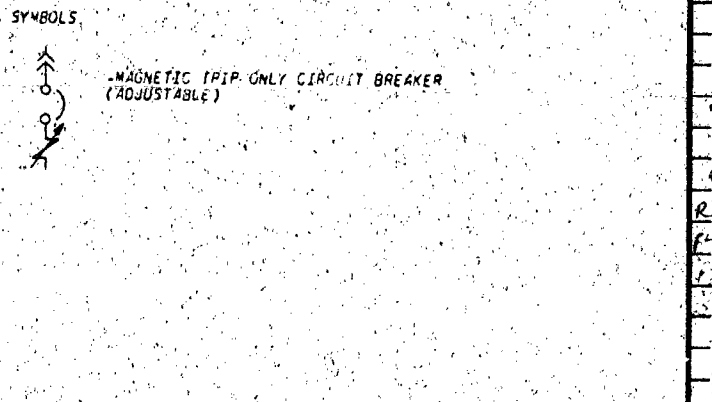


NOTES:

- 480V MOTOR CONTROL CENTER PROVIDED ON IYA CONTRACT NO. 76K5-96242 BY GULDFILTE
- ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 20 KVM WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 MVA 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 THE "HC" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE THE "JUL" SERIES.
- ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 10, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITC "100" SERIES.
- ALL 5A AND 10A FUSES ARE GOLD/SHANNUT, AMP. TRAP FORM 600, WIDGET TYPE 2.
- FUSES IN THE POWER CIRCUITS ARE GOLD/SHANNUT CLASS "J" CURRENT LIMITING FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
- ALL CONTROL TRANSFORMERS ARE 15, 300, 120V WITH UNGROUNDED SECONDARY. THE SECONDARY OF THE 150 VOLT TRANSFORMER IS FUSED WITH A 1 SA DUAL-ELEMENT TIME DELAY, BUSSMANN TYPE FNO FUSE. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 3 SA DUAL-ELEMENT TIME DELAY GOLD/SHANNUT TYPE TRIP FUSE.
- GROUND FAULT PROTECTION (GFS), ITC TYPE GRW-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
- THE PRIMARY OF THE 3KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMANN TYPE JHC-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. THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE, DOCUMENTS DEVICE RATINGS, AND ADJUSTABLE CIRCUIT BREAKER SETTINGS.
- THIS MCC IS CLASS 1F.
- ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS:

- PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE... 5GW0220-AP-01
- SINGLE LINE DIAGRAM 480V WITHEDEAR 1E1-A... 5GW1776-1E1-1
- 480V CLASS 1E MCC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC... 5GW1740-EI-09
- 480V MCC COMPARTMENT TYPICALS... 5GW0747-AP
- 480V MCC 1E1-A COMPUTERIZED CIRCUIT SCHEDULE... 5AC1162-1E1



Docket # 50-438
Control # 830405-536
Date 3-25-83 of Documents
REGULATORY DOCKET FILE

PRC APERTURE CARD

6. 51.1399

ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLE, REVISED NOTE 8 & 9 AND MKUP REV DIAGRAM TO SH 3, RELOCATED HEAT TRACE LOADS:

3. 8M.1273 3-15-81

ADDED 1X SYSTEM LOAD TO COMPT. BIL. ADDED MC SYSTEM LOAD TO COMPT. M2L.

4. 1008 12-16-80

ADDED LOAD

3. 813.SI 3-11-80

ADDED LOADS, CORRECT UNID.

2. SI 1-3-80

RECORD CWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE IN:

1. SI. 83 4-2-76

INCORPORATED UNITS SYS. GEN REV PER ECA 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

CHG L.P. MCCOLEY
CHG R. SPENCER, KOLLM
CHG E.N. IRWIN
SUPV. M. ALPERBERG

SCALE EXCEPT AS NOTED

AUXILIARY BUILDING UNIT 1

SINGLE LINE 480V MCC 1E1-A 1E1-EMCC-61-A

BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN

INSPECTED AND APPROVED FOR ISSUE: A.T. Spencer, J.P. Brown, R. [Signature]

KNOXVILLE 2-6-76 88 E 5AW1732-EI-1

THIS DRAWING IS UNDER CONSTRUCTION