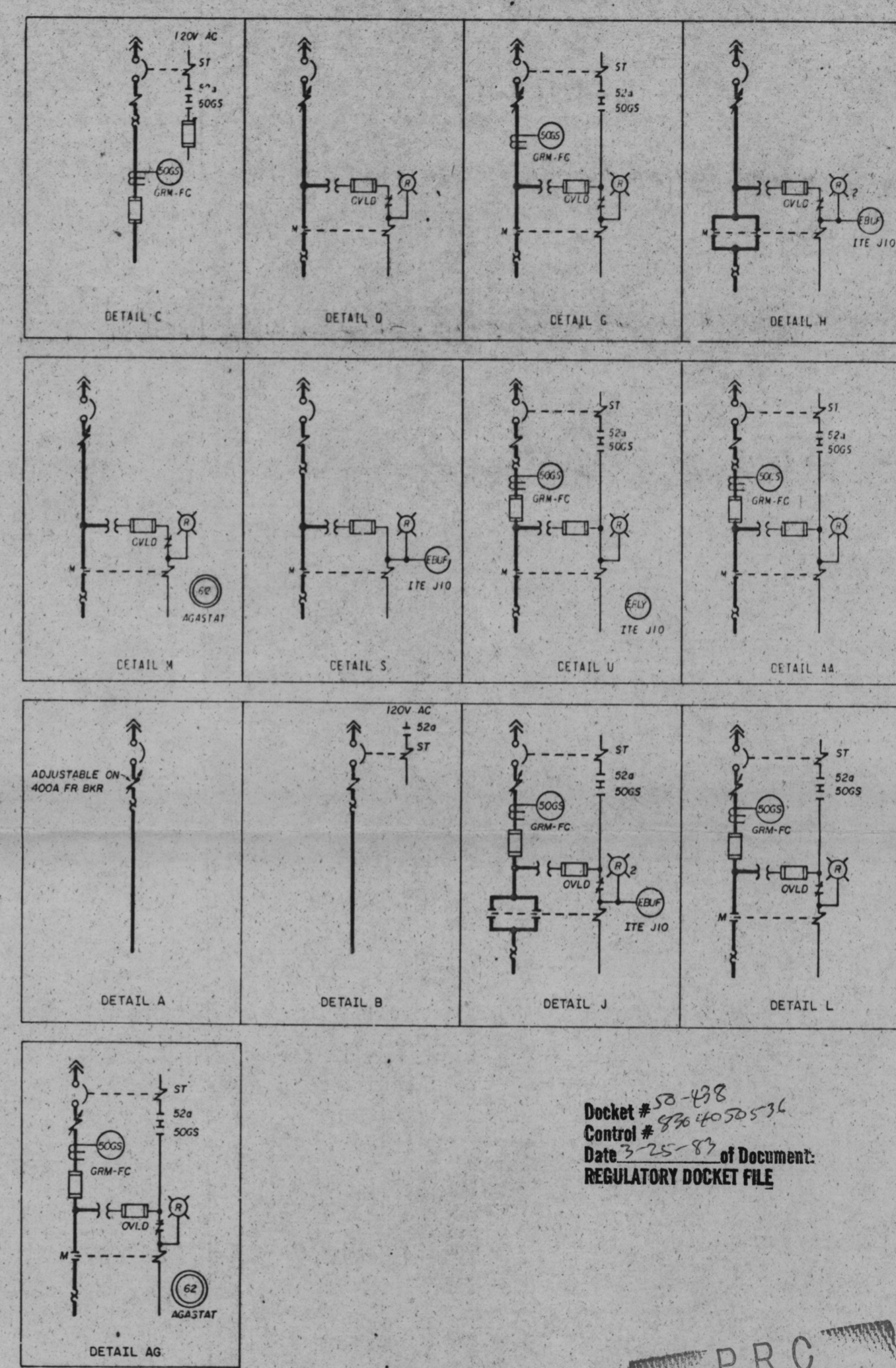


COMP NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
A1	MAIN BREAKER	1ED-52NA-53F	SEE KEY DIAG		
B1	RETURN HOR TRAIN ISLN MOV	1KC-IFCV-380	H	0.06HP	5GW1740-KC-22
B2	RETURN HOR TRAIN ISLN MOV	1KC-IFCV-141	R	0.06HP	5GW1740-KC-08
B3	UNIT 1 AUX INSTR ROOM AHU	OVL-EMOT-562	D	7.5 HP	5GW0640-VK-15
B4	COMPUTER ROOM AHU	OVL-EMOT-569	D	10 HP	5GW0640-VK-15
B5	COMMUNICATION ROOM AHU	OVL-EMOT-560	D	10 HP	5GW0640-VK-15
B6	DSL GEN BLDG SUMP PUMP B	1WE-EMOT-010	M	1.5HP	5GW1740-WE-03
C1L	NORTH CORRIDOR DUCT HTR	OVK-EHTR-031	A	10KW	5GW0640-VK-28
C1R	SOUTH CORRIDOR DUCT HTR	IED	A		
C2	SODIUM HYDROXIDE RECIRCULATION PUMP	1NS-EMOT-244	D	10HP	5GW0640-NS-09
C3	SPARE	IED	J		
C4	CF TANK 1B BLEED B SAMPLE MOV (CF-HV2B)	1NL-IFCV-066	J	0.33HP	5GW0640-NL-03
C6	SPARE	IED	H		
D1L	ZONE 1B CCS COOLER A UM	1VA-EHTR-213	A	10KW	5GW1740-VA-19
D1R	5 TON DHR PUMP 1B HOIST	1MM-MMHE-021	A	7.5HP	5GW1740-MM-02
D2L	CB INSTR SHIP OFF STOR DUCT HTR	OVK-EHTR-012	A	15KW	5GW0640-VK-28
D2R	ZONE 1B EL 686 UNIT HTR	1VA-EHTR-203	A	25KW	5GW1740-VA-20
D3	SPARE	IED	J		
D4	DOCK ACCESS ROTATING PLATFORM	1MA-MMET-015	C	10HP	5GW0740-MA-05
D6	STEAM GEN 1B MFR STOP MOV	1CF-IFCV-072	H	9.5HP	5GW1640-CF-12
E1L	5 TON MHP 17MP 0 RBS PMP HOIST	1MM-MMHE-021	A	7.5HP	5GW1740-MM-02
E1R	ZONE 1B EL 686 UNIT HTR	1VA-EHTR-202	A	25KW	5GW1740-VA-20
E2	SPARE	IED	C		
E3	5 TON REACTOR BLDG 1B CRANE	1MM-MCRN-008	C	8HP	5GW1740-MM-04
E5	UNIT 1 AUX FUEL HANDLING BRIDGE	1NF-MCRN-000	C	15HP	5GW1740-NF-04
E6	FUTURE - 6 INCH	IED			
F1	SEC F GRD BUS RLY	1ED-50G5-53B	SEE KEY DIAG		
F1L	SEC CNTMT 480V RCPT A, B, C, D	1ED-ERCP-034	B		5GW1740-ED-21
F1R	SEC CNTMT 480V RCPT A, B, C, D	1ED-ERCP-004	B		5GW1740-ED-21
F4	HOT MACH SHOP DISTRIBUTION BOARD	1MS-EDP-01	A	96.6KVA	5GW0740-MS-01
F6	SPARE	IED	H		
G1	MCC LOSS OF VOLTAGE RLY	SEE KEY DIAG			
G2	120V-1P-CKT BKR COMPT	SEE KEY DIAG			
G4	FUSE COMPT	SEE KEY DIAG			
G5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH	SEE KEY DIAG			
H1L	SPARE	IED	A		
H1R	480V PERS ACCESS AIRLOCK	1MA-MMOR-076	A	2.25KVA	5GW0740-MA-04
H2L	EL 649 RB INTERFACE A UM	1VA-EHTR-205	A	5KW	5GW1740-VA-20
H2R	FUTURE - HALF COMPT	IED			
H3	STUP CIRCULATION PUMP 1B DISCHARGE TO ST GEN MOV	1CF-IFCV-084	H	1.6HP	5GW1640-CF-10
H4	SPARE	IED	C		
H5	SPARE	IED	L		
J1L	EL 649 MN ST SAF V RM 1B UM	1VC-EHTR-144	A	25KW	5GW0740-VC-05
J1R	EL 649 MN ST SAF V RM 1B UM	1VC-EHTR-145	A	25KW	5GW0740-VC-05
J2L	ZONE 1B EL 610 RB INTERFACE A UM	1VA-EHTR-207	A	5KW	5GW1740-VA-20
J2R	ZONE 1B EL 649 UNIT HTR	1VA-EHTR-209	A	10KW	5GW1740-VA-20

COMP NO	LOAD	UNID	DETAIL	LOAD SIZE	SCHEMATIC DWG REFERENCE
J3L	ZONE 1B EL 649 UNIT HTR	1VA-EHTR-211	A	10KW	5GW1740-VA-19
J3R	MAIN CONT ROOM DUCT HTR	OVK-EHTR-029	A	10KW	5GW0640-VK-28
J4	REACTOR VESSEL CAVITY SUMP PUMP 1A2	1WE-EMOT-206	AG	1.5HP	5GW1740-WE-02
J5	RB NORMAL CIRCULATION FAN	1VH-EMOT-110	L	20HP	5GW1740-VH-05
K1	SPREADING ROOM EXH FAN	OVL-EMOT-064	D	3HP	5GW0640-VK-21
K2	SPREADING ROOM SUPPLY FAN	OVL-EMOT-062	D	5HP	5GW0640-VK-21
K3	RC PUMP P1B2 SPACE HTR	1NC-EHTR-008	U	0.94KW	5GW1740-NC-05
K4	SPARE	IED	L		
K6L	UNIT 1 DECNTN RM HOT WTR HTR	ORE-EHTR-042	A	18KW	5GW0740-VM-10
K6R	EL 609 PERS ACCESS AIR LOCK	1MA-MCOR-702	A	0.5HP	5GW0740-MA-13
L1	PRI CONTAINMENT 480V PWR RCPT A, B, C, D	1ED-ERCP-005	C		5GW1740-ED-21
L2	SEC CONTAINMENT 480V PWR RCPT A, B, C	1ED-ERCP-006	C		5GW1740-ED-21
L4	MAIN STEAM SAFETY VALVE ROOM 1A EXHAUST FAN	1VC-EMOT-817	D	5HP	5GW0740-VC-18
L5	SODIUM HYDROXIDE TK HTR	1NS-EHTR-003	S	10KW	5GW0640-NS-02
L6	ZONE 1B AIR PREHEAT SECONDARY PLUMP	1VU-EMOT-072	D	1.5HP	5GW0740-VU-06
M1	SPARE	IED	C		
M2	RB ELEVATOR	1ME-MELV-005	C	5HP	5GW0740-ME-01
M4	CRDM STRUCTURE FAN	1VH-EMOT-117	L	7.5HP	5GW1740-VH-07
M5	CRDM STRUCTURE FAN	1VH-EMOT-121	L	7.5HP	5GW1740-VH-08
N1	RB PURGE SUPPLY FAN	1VH-EMOT-009	M	25HP	5GW1740-VH-02
N2	SPARE	IED	C		
N3	15 TON EOPT HATCH HOIST	1MM-MMHE-036	C	15HP	5GW1740-MM-01
N5L	SPARE	IED	A		
N5R	SPARE	IED	A		
N6L	SPARE	IED	A		
N6R	SPARE	IED	A		
P1	SPARE	IED	C		
P2	0.5 TON RB DOCK HOIST	1MM-EMOT-078	C		
P4	MAIN STEAM DRAIN PUMP	1SM-EMOT-513	G	60HP	5GW1640-SM-09
P6	FUTURE - 6 INCH	IED			



- NOTES
- 480V MOTOR CONTROL CENTER PROVIDED ON TVA CONTRACT NO. 765-86242 BY GOULD/ITE.
 - 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.
 - ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 1P, 100A FRAME, THERMAL MAGNETIC WITH 15A TRIP, ITE "BO" SERIES.
 - ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 600, MIDGET TYPE 2.
 - FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "J" CURRENT LIMITING. FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
 - ALL CONTROL TRANSFORMERS ARE 1P, 480-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 130 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FND FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRN FUSE.
 - GROUND FAULT PROTECTION (50G5). ITE TYPE GRM-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, BUSSMAN TYPE JHC-15 FUSE.
 - THE MOTOR CONTROL CENTER ARRANGEMENT IS CONTROLLED BY THE FRONT VIEW CONTROL CENTER 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 NON-CLASS 1E LOCATED IN A CATEGORY 1 STRUCTURE.
 - ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

- REFERENCED DRAWINGS AND DOCUMENTS
- PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE 20W0720-RP-01
 - SINGLE LINE DIAGRAM ABOVE SWITCHGEAR 1MB2 24W1727-ED-1
 - 480V NORMAL AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC 5GW1740-ED-21
 - 480V MCC COMPARTMENT TYPICALS 5GW0747-RP
 - 480V MCC 1B4 COMPUTERIZED CIRCUIT SCHEDULE 54C1765-ED

SYMBOLS

MAGNETIC TRIP ONLY CIRCUIT BREAKER (ADJUSTABLE)

Docket # 58-488
Control # 8964050536
Date 3-25-87 of Document:
REGULATORY DOCKET FILE

REV	NO	DATE	DESCRIPTION
5	10/10/87	10/10/87	ADDED "VL" SYSTEM LOADS TO COMPTS B3, B4, AND B5.
4	04/14/87	04/14/87	ADDED COMPT P6 WITH COMPT B2 IN MCC 1B3 DELETED NL LOAD FROM COMPT C3. ADDED LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLE, REVISED NOTES B AND 9 AND MOVED KEY DIAGRAM TO SHEET 3. ADDED LOAD TO COMPT L4.
3	04/14/87	04/14/87	MOVED LOAD 1MS-EDP-01 FROM COMPT P5L TO P4 BECAUSE OF INCREASE IN LOAD SIZE.
2	01/31/87	01/31/87	DELETED LOADS, ADDED LOAD MADE MINOR CHANGES.
1	01/31/87	01/31/87	RECORD DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE P4.

DESIGN: ROGER E. HALL
DRAWN: R. A. VAN DYKE, W. L. BLOOMBERG
CHECKED: D. W. LASHLEY
SUPERVISOR: W. L. BLOOMBERG
ENGINEER: C. T. Garner

SCALE: NTS EXCEPT AS NOTED

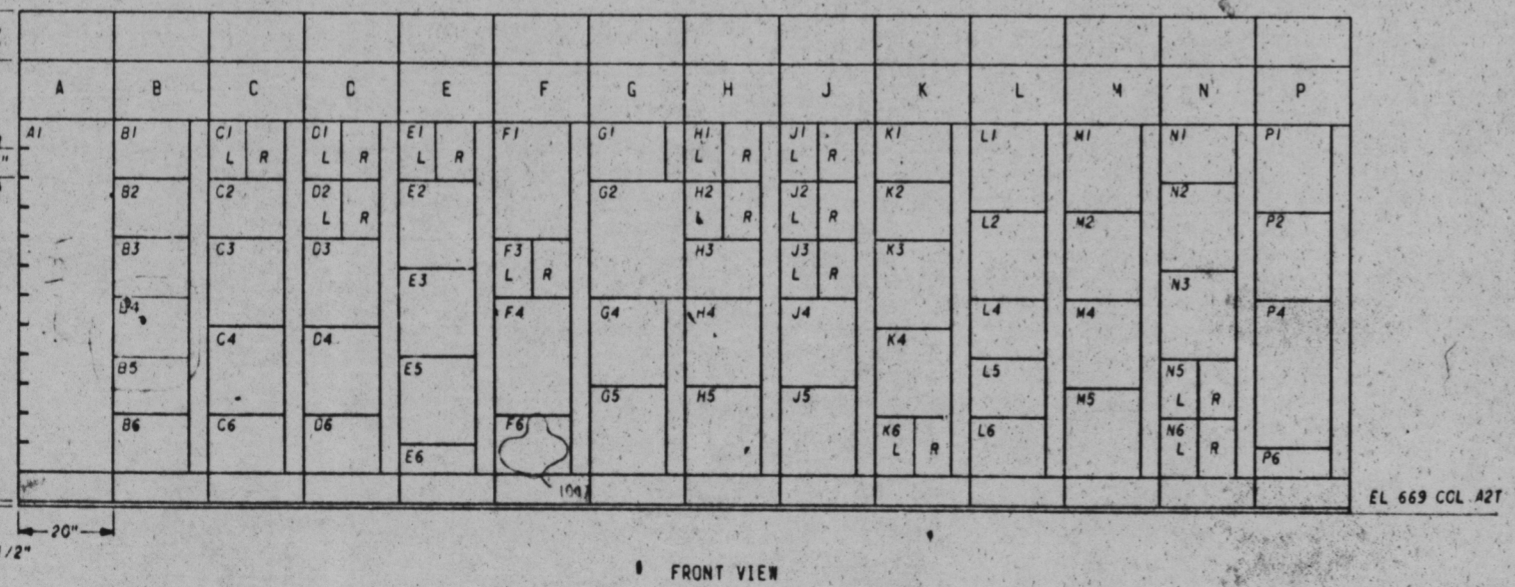
AUXILIARY BUILDING UNIT 1

SINGLE LINE 480V MCC 1B4 1ED-EMCC-53

BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN

COMPANION DWG: 5AW1735-ED-03 5AW1735-ED-02 HAS BEEN VOIDED
INSPECTED AND APPROVED FOR ISSUE: C. T. Garner

KNOXVILLE 12-6-74 88 E 5AW1735-ED-1 85



FRONT VIEW

EL 669 COL A2T

PRC APERTURE CARD

THIS DRAWING IS UNDER CONFIGURATION CONTROL