28387R18, 29250R18 29812R18 32311R19

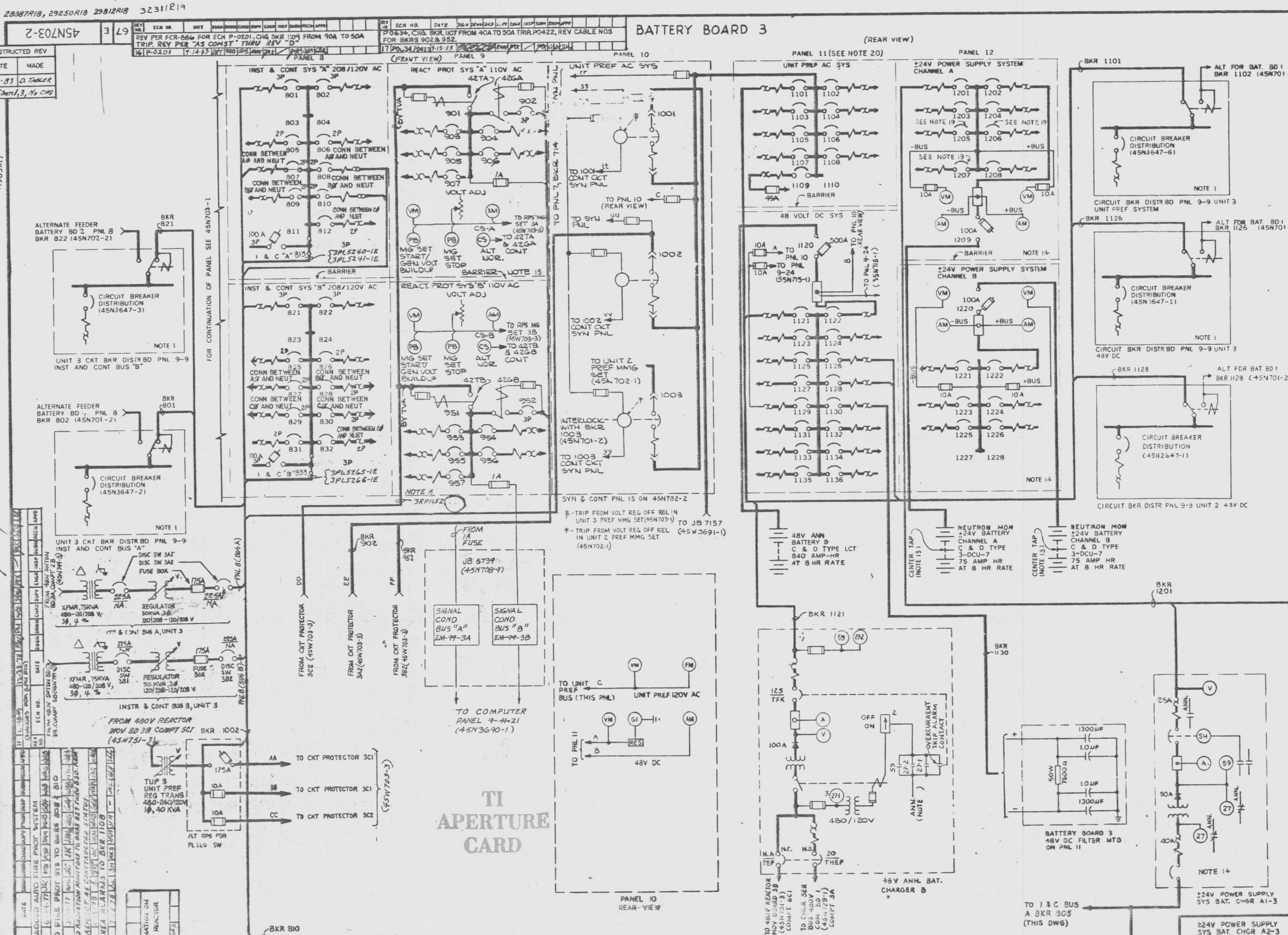
45N703-2 | 67 | E

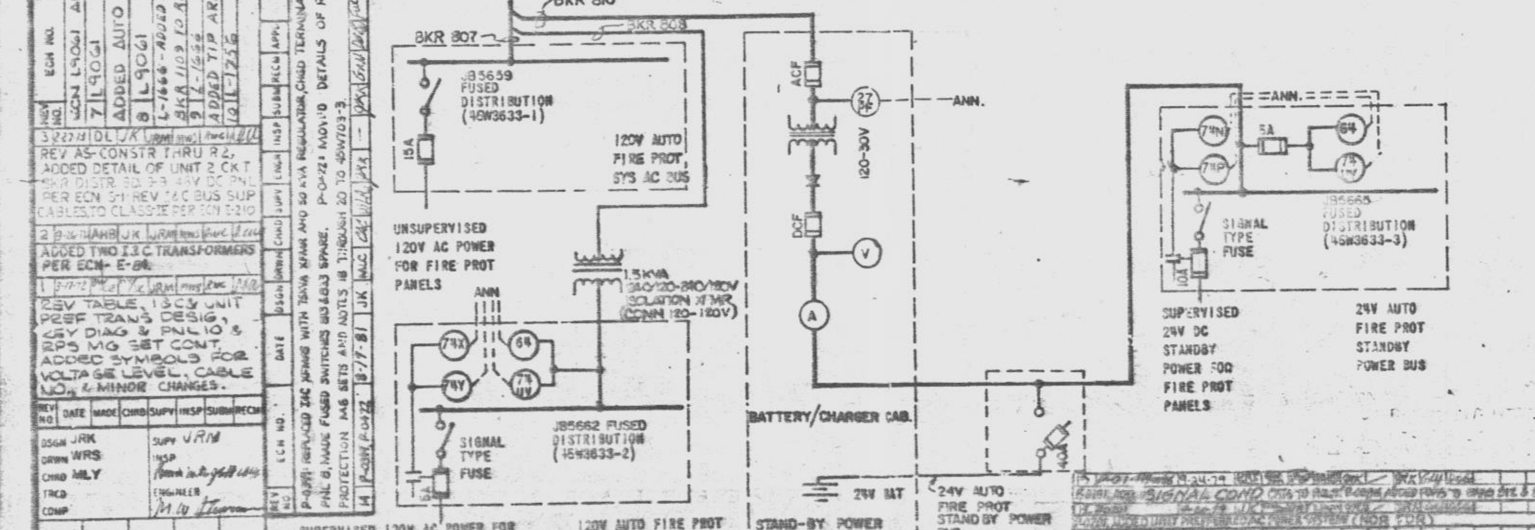
REV PER FCR-886 FOR ECN P-0201, CHG BKR 1109 FROM 90A TO 50A TRIP. REV PER "AS CONST" THRU REV "D"
16 P-0201 7-14-83

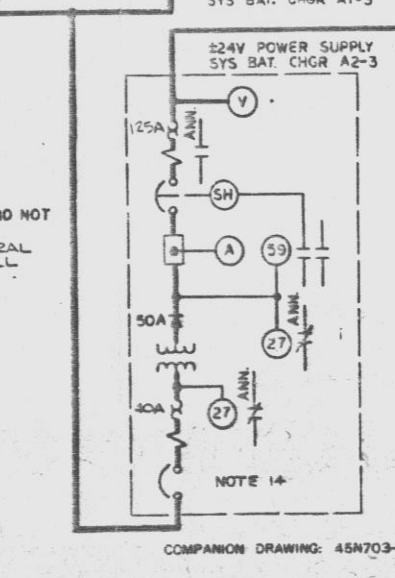
P0634, CHG. BKR 1107 FROM 40A TO 50A TRIP. P0422, REV CABLE NOS FOR BKRS 902 & 952.
17 P0634 P0422 9-15-83

CONSTRUCTED REV: 13-83 D. TABLER — UNITS 1, 3, No CHG

BATTERY BOARD 3







PNL	BKR	FRAME	TRIP	CABLE	CIRCUIT	
8	801	225	70	3M4-IE	UNIT 3 CKT BKR BD PNL 9-9 I & C BUS A(NOR FDR)	□
8	802	225	70	2M12	UNIT 2 CKT BKR BD PNL 9-9 I & C BUS A(ALT FDR)	□
8	803	225			SPACE	
8	804	225			SPACE	
8	805	100	30	3NM250	±24V POWER SUPPLY SYS BAT. CHGRS A1-3 & A2-3	○
8	806	100	30	B308	RADIATION RELEASE RATE MONITORING SYSTEM (PNL 9-58A)	○
8	807	100	30	FE3006	FIRE PROT SYS POWER SUP TO UNSUPERVISED DISTR	△
8	808	100	15	FE3007	FIRE PROT SYS POWER SUP TO SUPERVISED DISTR	△
8	809	100	15	FE2936	AC2 PWR SUPPLY TO PNL 25-324	△
8	810	100	15	FE3008	FIRE PROT SYS POWER SUP TO 24V DC CHARGER	△
8	811	100			SPACE	
8	812	100	20	3ES400-I	ENGR SAFEGUARDS DIV I SUPPLY PNLS 25-31 & 25-32	△
8	813	100	100	-	(100A FUSE) SPARE	□
8	821	225	70	3M5-IE	UNIT 3 CKT BKR BD PNL 9-9 I & C BUS B(NOR FDR)	□
8	822	225	70	1M5	UNIT 1 CKT BKR BD PNL 9-9 I & C BUS B (ALT FDR)	□
8	823	225			SPACE	
8	824	225			SPACE	
8	825	100	30	3NM252	±24V POWER SUPPLY SYS BAT. CHGRS B1-3 & B2-3	○
8	826	100	30		SPARE	○
8	827	100	15	3RM600	PNL 25-339 (L19 PRCS RAD MON 3-RE-90-131A)	△
8	828	100	15	3RM612	PNL 25-336 (L19 PRCS RAD MON 3-RE-90-132A)	△
8	829	100	15	3RM625	PNL 25-337 (L19 PRCS RAD MON 3-RE-90-133A)	△
8	830	100	15	3RM637	PNL 25-338 (L19 PRCS RAD MON 3-RE-90-134A)	△
8	831	100	30		SPARE	○
8	832	100	20	3ES3275-II	ENGR SAFEGUARDS DIV II SUPPLY PNLS 25-31 & 25-32	△
8	833		100	.	(100A FUSE) SPARE	□
9	901	225			SPACE	
9	902	225	NONE	3RP1442-A	RPS MG SET A TIE TO BAT. BD 3 VIA CKT PROTECTORS	△
9	903	100	100	3RP1375-I	RPS LOGIC CHANNEL A PNL 9-15	△
9	904	100	30	3RP1376-I	POWER RANGE NEUT MON. SYS-BUS A PNL 9-14	△
9	905	100	15	3RP1400A	STEAM LINE RADIATION MON.-BUS A PNL 9-10	△
9	906	100	15	3PC181-I	MAIN STEAM LINE ISOLATION VALVE CONT PNL 9-42	△
9	907	100	15		SPARE	△
9	951	225			SPACE	
9	952	225	NONE	3RP1447-B	RPS MG SET B TIE TO BAT. BD 3 VIA CKT PROTECTORS	△
9	953	100	100	3RP1387-II	RPS LOGIC CHANNEL B PNL 9-17	△
9	954	100	30	3RP1388-II	POWER RANGE NEUT MON SYS-BUS B PNL 9-14	△
9	955	100	15	3RP1410B	STEAM LINE RADIATION MON.-BUS B PNL 9-10	△
9	956	100	15	3PC381-II	MAIN STEAM LINE ISOLATION VALVE CONT PNL 9-43	△
9	957	100	15		SPARE	△
10	1001	600	150	3B100	UNIT PREF MMG SET 3 TIE TO BAT. BD 3 (NOR FDR)	✱
10	1002	600	225	3PL463	UNIT PREF TRANS 3 TIE TO BAT. BD 3 (ALT FDR)	✱
10	1003	600	150	2B101	UNIT PREF MMG SET 2 TIE TO BAT. BD 3 (EMER FDR)	✱
11	1101	100	70	3M6	UNIT 3 CKT BKR BD PNL 9-9 UPS (NOR. FDR)	✱
11	1102	100	70	2M13	UNIT 2 CKT BKR BD PNL 9-9 UPS (ALT FDR)	✱
11	1103	100	50	3CR975	UNIT 3 COMPUTER & RWM PNL 9-41 (NOR FDR)	✱
11	1104	100	40		SPARE	△
11	1105	100	20	3M7	UNIT 3 BACKUP CONT CENTER PNL 25-32 (NOR FDR)	△
11	1106	100	20	1M12	UNIT 1 BACKUP CONT CENTER PNL 25-32 (ALT FDR)	△
11	1107	100	50	3C282	UNIT 3 PROCESS COMPUTER	✱
11	1108	100	20	3RM700	UNIT 3 TIP AREA ALARMS	△
11	1109	100	50	3M15	UNIT 3 CKT BKR BD PNL 9-9 CAB 5 UNIT NONPREF (NOR FDR)	✱
11	1110				SPACE	
11	1120	600	500	A25&A26	48V DC (NOTE 12)	
11	1121	225	125	A27	48V ANN. BAT. CHGR B TIE TO BAT. BD 3	
11	1122	225	225	BD WIR	48V ANN. BAT B TIE TO BAT. BD 3	
11	1123	225	125		SPARE	
11	1124	225	125	A29	48V ANN. BAT. SPARE CHGR TIE TO BAT. BD 3	
11	1125	225	90	A31	UNIT 1 CKT BKR BD PNL 9-9 48V DC (ALT FDR)	
11	1126	225	90	A32	UNIT 3 CKT BKR BD PNL 9-9 48V DC (NOR FDR)	
11	1127	225	125	B126	ELEC DIST PNL 9-24 (ALT FDR)	
11	1128	225	90	A34	UNIT 2 CKT BKR BD PNL 9-9 48V DC (NOR FDR)	
11	1129	100	NONE	BD WIR	BAT. BD 3 48V DC INST DISCONNECT	
11	1130	100	20	BD WIR	48V DC BUS FILTER CAPACITORS	
11	1131	100	20	A35	COMM RM SUPPLY NO. 2 FOR OPER RECD SYS	
11	1132	100	20	B500	COMM RM DATA LOGGER SUPPLY	
11	1133	100	30	A37	DPO ENG SHOP 48V DC SUPPLY	
11	1134	100	30	A38	CENTRAL DIESEL INFO CENTER PNL 25-41C ANN.(NOR FDR)	
11	1135	100	30	A39	CENTRAL DIESEL INFO CENTER PNL 25-41D ANN.(NOR FDR)	
11	1136	100	20	A40	COMM RM SUPPLY NO.4 FOR OPER RECD SYS	
12	1201	100	70	θ	±24V DC CHARGERS A1-3 & A2-3 TIE TO BAT. BD 3	
12	1202	100	NONE	BD WIR	±24V DC BAT. CHANNEL A TIE TO BAT. BD 3	
12	1203	100	20	3NM1290	±24V DC CHANNEL A TO PNL 9-12	
12	1204	100	20	3RM546	±24V DC CHANNEL A TO PNL 9-10	
12	1205	100	20	3NM1285	TIP VALVE CONT MON CHANNEL A&B PNL 9-13	
12	1206	100	20	3NM1286	TIP VALVE CONT MON CHANNEL C&D PNL 9-13	
12	1207	100	20	3NM1287	TIP VALVE CONT MON CHANNEL E PNL 9-13	
12	1208	100	20		SPARE	
12	1209	100	100	θ	±24V DC CHANNEL A (NOTE 12)	
12	1220	100	100	θ	±24V DC CHANNEL B (NOTE 12)	
12	1221	100	70	θ	±24V DC CHARGERS B1-3 & B2-3 TIE TO BAT. BD 3	
12	1222	100	NONE	BD WIR	±24V DC BAT. CHANNEL B TIE TO BAT. BD 3	
12	1223	100	20	3NM1291	±24V DC CHANNEL B TO PNL 9-12	
12	1224	100	20	3RM548	±24V DC CHANNEL B TO PNL 9-10	
12	1225	100	20		SPARE	
12	1226	100	20		SPARE	
12	1227	100			SPACE	
12	1228	100			SPACE	

θ BKR	CABLE
1201	3NM1256 & 3NM1257
1209	3NM1275 & 3NM1277
1220	3NM1280 & 3NM1282
1221	3NM1258 & 3NM1259

SYMBOLS - CIRCUIT VOLTAGES
□ -- 120/208V
○ -- 208V
△ -- 120V
✱ -- 120/240V

NOTES (CONT FROM 45N703-1):

11. FOR DETAILS OF UNIT PREFERRED MOTOR-MOTOR GENERATOR SET AND TRANSFER SWITCH SEE DRAWINGS ON TVA CONTRACT 70C5-54200.
12. DEVICES 813, 833, 1120, 1209 AND 1220 ARE FUSED DISCONNECT SWITCHES AND NOT CIRCUIT BREAKERS AS INDICATED.
13. THE ±24V POWER SUPPLY BATTERY SHALL HAVE CENTER TAP NEUTRAL GROUNDED AT LOAD IN PNLS 9-10, 9-12 & 9-13 ONLY. FIELD SHALL ENSURE THAT NEUTRAL IS NOT GROUNDED AT ANY OTHER POINT.
14. FOR DETAILS OF THE ±24V POWER SUPPLY SYSTEM SEE GENERAL ELECTRIC COMPANY DRAWINGS 0132C6551, 0132C6552, AND 731E717 ON TVA CONTRACT 71C3-92325.
15. FOR DETAILS OF THE REACTOR PROTECTION SYSTEM DISTRIBUTION AND MOTOR GENERATOR SETS SEE GENERAL ELECTRIC COMPANY DRAWINGS 730E264, 731E708, AND 3300B15A4368 ON TVA CONTRACT 67C60-91750 (NIM-3000.3.5.3.A.).
16. THE 48V BATTERY CHARGER TRIP OUT ANNUNCIATION IS INTERLOCKED THROUGH THE LOCAL CONTROL SWITCH CONTACTS SO THAT ANNUNCIATION WILL NOT OCCUR WHEN THE CHARGER IS TURNED OFF BY THE CONTROL SWITCH.
17. ALL CIRCUIT BREAKERS ARE TWO POLE UNLESS INDICATED OTHERWISE.

(NOTES CONTINUED ON 45W703-3)

15 P-0112 CHANGED 2 POLE BKRS 902 & 952 TO 3 POLE

19 P0422 DELETED CABLE SUFFIX IE

18 P0634 P0712 P0634 CNGED CKT VLTG SYM FOR BKR 1107. P0712 SWAPPED 44 KVA REG TRANS FOR UNIT PREF TRANS TUP3 & CHGD. FEED TO REAC MOV BD 3B.

COMPANION DRAWING: 45N703-1, 45W703-3

POWERHOUSE
UNITS 1-3

WIRING DIAGRAMS
BATTERY BOARD 3, PANELS 8-12
SINGLE LINE SH-2

BROWNS FERRY NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	RECOMMENDED	APPROVED
R. W. Cantrell	Roy E. M...	M. M. ...

KNOXVILLE 4-2-71 67 E 45N703-2 R19

RECORD DRAWING AS CONSTRUCTED

THIS DRAWING IS UNDER FUNCTIONAL CONFIGURATION CONTROL

TI APERTURE CARD

8408140416 D

58-259
8/9/84
8408140375