

ENGINEERING NOTES

51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH LUCENT PRACTICES - NONE.
52. THIS DOCUMENT COVERS COMPLETE ENGINEERING INFORMATION FOR REPLACING THE SMPU MODEL 1 UNIT (J5D003AA-2) AND TSI MODEL 1 UNIT (J5D003AB-1) WITH AN MCTU MODEL 2 UNIT (J5D003LA-1) IN A 7 FOOT TALL IMC CABINET (J5D003C-1) AND 6 FOOT HIGH SMC MODEL 1 CABINET (J5D003E-1).
53. REPLACEMENT OF THE SMP MODEL 1 UNIT IN THE 7 FOOT HIGH IMC CABINET WILL RESULT IN THE REMOVAL OF THE TSIU MODEL 1 (J5D003AB-1), REPLACEMENT OF THE FUSE PANEL (J5D003AM-1) AND FILTER PANEL UNIT (J5D003AU-1) WITH A FUSE/FILTER UNIT (J5D003AU-2) AND REPLACEMENT OF THE THREE-FAN HARD WIRED FAN UNIT (J5D003AF-1) WITH A SIX-FAN CONNECTORIZED FAN UNIT (J5D003BN-2).
54. REPLACEMENT OF THE SMP MODEL 1 UNIT IN THE 6 FOOT HIGH SMC MODEL 1 CABINET WILL RESULT IN THE REMOVAL OF THE TSIU MODEL 1 (J5D003AB-1), REPLACEMENT OF THE FUSE/FILTER UNIT (J5D003AU-1) WITH THE NEWER MODEL FUSE/FILTER UNIT (J5D003AU-2) AND REPLACEMENT OF THE THREE-FAN FAN UNIT (J5D003BE-1) WITH A SIX-FAN FAN UNIT (J5D003BN-2).
55. THIS NOTE DEFINES THE FUSE POSITIONS WHICH MAY BE USED WHEN EQUIPPING THE IMC AND SMC1 CABINETS.
 1. ONLY FUSE POSITIONS 5X-8X, 13X-16X, 9T-12T, 21T-24T, 6B, 9B-12B, 18B, 21B-24B MAY BE USED WHEN PERIPHERAL UNITS ARE TO BE EQUIPPED IN THE IMC OR SMC1.
 2. WHEN A DSU (J5D003AE-1) IS EQUIPPED IN THE CABINET (FOR REVERTIVE PULSING) FUSE POSITIONS 11B AND 23B SHALL BE USED FOR SMC1 CABINET AND 9T AND 21T FOR IMC CABINET.
56. IF SPACE IS LEFT BETWEEN UNITS, A FAN PLENUM MUST BE SPECIFIED FOR EACH 8.5 INCH SPACE (223.52 MM). LINE ENGINEER TO ORDER LIST 22 OR 23 IN ACCORDANCE. IF SPACE REMAINS BETWEEN TOP OF CABINET AND LAST OF UPPER MOST UNIT EQUIPPED, FAN PLENUM IS NOT REQUIRED.
57. SPECIFYING THIS LIST WILL EQUIP ONE SHELF OF MCTU2. TO EQUIP TWO SHELVES OF MCTU TWO LISTS MUST BE SPECIFIED.
58. \$ REFER TO TRANSLATION GUIDE TG5, 5ESS(R) SWITCH FOR CLI VALUES. \$
59. OFFICES USING GENERIC 5E6 OR LATER MAY MIX LIST 6 (TN1376) AND LIST 7 (TN1661) MEMORY CIRCUIT PACKS IN THE SAME UNIT. THE LINE ENGINEER MUST SPECIFY TYPE, QUANTITY AND LOCATION OF MEMORY CIRCUIT PACKS FOR LIST 6 & 7. MAXIMUM NUMBER OF LIST 6'S AND 7'S MAY NOT EXCEED SIX PER SHELF. \$ 5E4 OFFICES MAY ONLY USE LIST 6 (TN1376). LIST 7 (TN1661) CANNOT BE USED IN THE 5E4 SOFTWARE RELEASE. \$
60. IN TABLE A, DESCRIPTION FIELD INFORMATION ENCLOSED IN <> IS FOR REPORT PURPOSES ONLY.
61. THE BASIC, STANDARD AND LOADED SM'S MINIMUM TO MAXIMUM RANGE OF MEMORY THAT CAN BE SUPPORTED BY GENERIC ISSUES IS AS FOLLOWS:

GENERIC ISSUE	RANGE OF MEMORY IN MBYTES
5E4(2)	12.0 TO 21.5
5E5(1)	11.5 TO 24.5
5E6(1)	12.0 TO 30.0
5E7(1)	13.0 TO 34.0

HOWEVER, FOR THE PURPOSES OF THIS PROCEDURE, THE MCTU2 MUST BE EQUIPPED WITH THE SAME AMOUNT OF MEMORY AS EXISTED IN THE SMPU MODEL 1.

----- CONTINUED ON NEXT SHEET -----

ISSUE NOTES (CONTINUED)

- (H8117) IN TABLE A AND STOCKLIST LISTS 1A,3A,4A,8A,16B,19B,20B ADDED. STOCKLIST ITEMS 1211,1172 ADDED. STOCKLIST ITEMS 1000,1013,1120,1130,1140,1150,1160,1161,1470,1540 GROUP COLUMN CHANGED. LISTS 6,7,9,10,11,12,13,15,22,23,26A,28,29,A THRU K,T,V THRU Z, AA THRU AF,AJ,AK,AL,AM,AN,AP,AR DESCRIPTION CHANGED. LISTS 1,3,4,8,16A,19A,20A,24 RATING WAS STD.
- ORIG ISS: 04/02/92 CHANGE CLASS: B
- | | | | | |
|------------|-----------|-------|---------------------|----------|
| DRAFT: JRK | ENGR: JRK | SUPV: | CERTIFIED: 07/07/97 | ISSUE: 9 |
|------------|-----------|-------|---------------------|----------|
- (H8183) NOTE 51, SHEETS B1-B3,E1-E9 MODIFIED. LISTS DISCONTINUED 1A,2,3A,4A,5,6,7,8A,9,10,11,12,13,15,16B,17,18,19B,20B,21,22,23,26A,27,28,29,A,B,C,D,E,F,G,H,I,J,K,M,N,S,T,V,W,X,Y,Z,AA,AB,AC,AD,AE,AF,AH,AJ,AK,AL,AM,AN,AP,AR,AS,A1,A2,A3,A4,A5,A6,A7,A8,A9,B1,B2,B3,B4,B5,B6,B7,B8,B9,A10,A11,A12,A13,A14,A15,B10,B11,B12,B13,B14,B15.
- ORIG ISS: 04/02/92 CHANGE CLASS: ME
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|------------|-----------|-------|---------------------|-----------|
| DRAFT: JRK | ENGR: JRK | SUPV: | CERTIFIED: 07/01/98 | ISSUE: 10 |
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ISSUE NOTES

- ORIG ISS: 04/02/92 NDD NBR: NDD5D731-30 CHANGE CLASS: NEW
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|------------|-----------|-----------|---------------------|----------|
| DRAFT: PKK | ENGR: MLG | SUPV: EJZ | CERTIFIED: 04/02/92 | ISSUE: 1 |
|------------|-----------|-----------|---------------------|----------|
- CHG TAG H6880. SHEETS B1, E1 THRU E5 MODIFIED. SHEETS E7 THRU E9 ADDED. ENG NOTE 58,59,61 MODIFIED. ENG NOTE 66 & 67 ADDED. TABLE A LISTS 1 THRU 4 WERE NRTO. LIST 16,19,20 RATED DA. LISTS AG,AS,16A,19A,20A,28,29 ADDED. MISCELLANEOUS TABLES ADDED TO INCORPORATE ADDED LISTS.
- ORIG ISS: 04/02/92 NDD NBR: NDD5D731NW-2 CHANGE CLASS: B
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|------------|-----------|----------|---------------------|----------|
| DRAFT: MLG | ENGR: MLG | SUPV: PK | CERTIFIED: 03/26/93 | ISSUE: 2 |
|------------|-----------|----------|---------------------|----------|
- H7130. NOTE 68 ADDED. SL ITEMS 1936 & 1938 ADDED. SL ITEMS 1160 & 1190 MODIFIED. MULTIPLE MODIFICATIONS TO MISCELLANEOUS TABLES. TABLE A GROUPS 1-4,6,16A,17,19,19A,20,20A,A5-A8,A11,A12,B5-B8, B11 MODIFIED.
- ORIG ISS: 04/02/92 NDD NBR: NDD5D731NW-3 CHANGE CLASS: ME
- | | | | | |
|------------|-----------|----------|---------------------|----------|
| DRAFT: MLG | ENGR: MLG | SUPV: PK | CERTIFIED: 09/20/93 | ISSUE: 3 |
|------------|-----------|----------|---------------------|----------|
- H7136. LIST A14 ADDED. ENG NOTE 67 MODIFIED, REFERENCE TO FIBER-OPTIC REMOVED. SL ITEMS 1970 & 1980 MODIFIED AND 2080 & 2090 ADDED. MISC TBL CD MODIFIED TO INFORM READER THAT TABLES AM & BM ARE ON SHEETS E6 & E8 RESPECTIVELY. LIST 26 DAED, LIST 26A ADDED, SL ITEM 1718 ADDED. LIST 25 DA'ED.
- ORIG ISS: 04/02/92 NDD NBR: NDD5D731NW-4 CHANGE CLASS: ME
- | | | | | |
|------------|-----------|----------|---------------------|----------|
| DRAFT: MLG | ENGR: MLG | SUPV: PK | CERTIFIED: 11/15/93 | ISSUE: 4 |
|------------|-----------|----------|---------------------|----------|
- CHG TAG: ADDED GROUPS K,M,N AND STOCKLIST ITEMS 2400,2410, AND 2420. LINED-OUT STOCKLIST ITEM 1718 AND ADDED ITEM 1719. LINED-OUT STOCKLIST ITEMS 1465 AND 1466. ADDED NOTES 69 AND 70.
- ORIG ISS: 04/02/92 NDD NBR: NDD5D731NW-5 CHANGE CLASS: M
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|------------|-----------|----------|---------------------|----------|
| DRAFT: MLG | ENGR: MLG | SUPV: PK | CERTIFIED: 02/11/94 | ISSUE: 5 |
|------------|-----------|----------|---------------------|----------|
- CHG TAG 5PT1. STOCKLIST ITEM 1012 LINED-OUT, ITEMS 1013 AND 1014 ADDED. STOCKLIST ITEM 1014 IS SHIP LOOSE. LIST 36 ADDED TO GROUPS 3 AND 19A AND LIST 40 ADDED TO GROUPS 4 AND 20A IN TBL A. LIST 36 ADDED TO SL ITEM 1130 AND LIST 40 ADDED TO SL ITEM 1140.
- ORIG ISS: 04/02/92 NDD NBR: NDD5D731NW-6 CHANGE CLASS: M
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| DRAFT: MLG | ENGR: MLG | SUPV: PK | CERTIFIED: 11/15/94 | ISSUE: 6 |
|------------|-----------|----------|---------------------|----------|
- 6PT1. REMOVED LIST B FROM PROD ID COLUMN OF SL ITEM 1014.
- ORIG ISS: 04/02/92 CHANGE CLASS: M
- | | | | | |
|------------|-----------|----------|---------------------|----------|
| DRAFT: MLG | ENGR: MLG | SUPV: PK | CERTIFIED: 11/21/94 | ISSUE: 7 |
|------------|-----------|----------|---------------------|----------|
- (7PT1) ADDED GRP B1 TO SL ITEM 1938. ADDED BR, BL AND G WIRE INFORMATION TO MISC TABLE BB FOR GROUP B1. (7PT2) CHANGED 'S' TO '*' FOR SL ITEM 1410.
- ORIG ISS: 04/02/92 CHANGE CLASS: M
- | | | | | |
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| DRAFT: JAP | ENGR: JAP | SUPV: PK | CERTIFIED: 06/09/95 | ISSUE: 8 |
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BT13

DETAIL CHANGE SPECIFICATION
TO CONVERT SMPUL/TSIU1 TO MCTU2

DWG SIZE C2	ISSUE 10
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LUCENT TECHNOLOGIES INC ED5D731-30

SHEET A1
OF 57

TABLE A-FEATURES											
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT		
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FAN UNIT IN A SMC1 CABINET WITH THE SIX-FAN THERMOSTATICALLY CONTROLLED FAN UNIT. DA EFF:07/07/97 FE:ED5D731-30,G1A		DA	1	1	J5D003BN-2	3A, C					
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FAN UNIT IN A SMC1 CABINET WITH THE SIX-FAN THERMOSTATICALLY CONTROLLED FAN UNIT. REPL:ED5D731-30,G1 DA EFF:05/01/98 FE/RA:NONE		DA	1A		J5D003BN-2	3A,					
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FUSE/FILTER UNIT IN A SMC1 CABINET WITH A J5D003AU-2 UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	2	1	J5D003AU-2 J5D003AU-2	5,6, E, SF, WD 5,6, 7,C, E, SG, WD					
EQUIPMENT REQUIRED TO PROVIDE SHELF '0' OF THE MODULE CONTROLLER AND TIME SLOT INTERCHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516, UN517, UN518, UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STANDARDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN SMC MODEL 1 CABINETS, J5D003E-1. DA EFF:07/07/97 FE:ED5D731-31,G3A	16	DA	3	1	J5D003LA-1	1,2, 5B, 7C, 22B, DB, BV, 36					
EQUIPMENT REQUIRED TO PROVIDE SHELF '0' OF THE MODULE CONTROLLER AND TIME SLOT INTERCHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516, UN517, UN518, UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STANDARDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN SMC MODEL 1 CABINETS, J5D003E-1. REPL:ED5D731-30,G3 DA EFF:05/01/98 FE/RA:NONE	16	DA	3A		J5D003LA-1	1,2, 5B, 7F, 22B, DB, BV, 36					
EQUIPMENT REQUIRED TO PROVIDE SHELF '1' OF THE MODULE CONTROLLER AND TIME SLOT INTERCHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516, UN517, UN518, UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STANDARDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN SMC MODEL 1 CABINETS, J5D003E-1. DA EFF:07/07/97 FE:ED5D731-30,G4A	16	DA	4	1	J5D003LA-1	1,3, 5B, 7C, 22B, 4, BW, DB, 40					

TABLE-A CONTINUED

ED5D731-30

ENGINEERING NOTES

***** CONTINUED *****

62. THE NEED FOR THE SMP20 DATA CACHE FEATURE WILL BE DETERMINED BY THE AMOUNT OF REAL-TIME CALL PROCESSING CAPACITY REQUIRED FOR A SPECIFIC SM APPLICATION.
63. WHEN ORDERING NON-ISDN SWITCHING MODULES AT GENERIC ISSUE 5E6 (LIST 24 NOT SPECIFIED) LIST AR MUST BE SPECIFIED.
64. USE TABLES CA & CB FOR CALCULATING NEW PICB & PIDB CABLE LENGTHS REQUIRED FOR NEW MCTU2 (3LA) EQL MOUNTING POSITION 26/34 OF IMC CABINET AND ALL PERIPHERAL UNITS LOCATED IN ALL MOUNTING POSITIONS OF LTP0 (TBL CA) AND LTP 2,3 & 4 (TBL CB).
65. USE TABLE BW FOR NEW PICB & PIDB CONVERSION STAMPING REQUIREMENTS NEEDED FOR MCTU2 (3LA). TABLE CONTAINS OLD TO NEW STAMPING BY BUS NUMBER, PORT NUMBER AND EQL. (PERIPHERAL UNIT BUS & PORT ASSIGNMENTS & UNIT STAMPING WILL NOT CHANGE).
66. DOLLAR SIGNS (\$) IN FRONT OF AND BEHIND WORDS, SENTENCES, PARAGRAPHS AND/OR CHARACTERS INDICATE HORIZONTALLY LINED OUT INFORMATION.
67. FOR RSM APPLICATIONS IT MAY BE NECESSARY TO ORDER NEW CABLES TO INTERCONNECT THE MCTU2 TO THE FIU. REFER TO ED5D651-10 FOR ENGINEERING INFORMATION RELATING TO THESE CABLES.
68. GROUPS A5 THROUGH A8, A11, A12, B5 THROUGH B8, & B11 ARE NOT ORDERABLE GROUPS. THEY ARE INTENDED FOR INSTALLATION INSTRUCTIONS ONLY.
69. WHEN ORDERING NEW CENTER-OPENING DOORS PER GROUP K, AND DOOR FRAME KIT PER GROUP M FOR RETROFIT ON OLDER STYLE CABINETS PER ED5D184-70 THROUGH -73. THE ENGINEER SHALL ORDER GROUP N, DRILL TEMPLATE BASED ON THE FOLLOWING:
A) IF FEASIBLE, ENGINEER SHALL VERIFY AVAILABILITY OF WORKABLE TEMPLATE BY THE RESPECTIVE INSTALLATION AREA PERFORMING THE RETROFIT.
B) IF NOT, ORDER AT LEAST ONE TOOL PER JOB.
C) THE TOOL MAY BE USED FOR A MAXIMUM NUMBER OF SIX DOOR FRAME INSTALLATIONS.
70. COMMUNICATION MULT CABLING MUST BE SPECIFIED USING DOCUMENT ED5D732-35. ORDER ONLY ONE GROUP 1 PER OFFICE, THE NUMBER OF GROUP 2 CABLES REQUIRED IS DEPENDENT UPON THE OFFICE CONFIGURATION. THE LENGTH TO BE SPECIFIED FOR BOTH ED5D731-35 GROUPS 1 AND 2 IS DEPENDENT UPON THE OFFICE FLOOR PLAN.

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DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

LUCENT TECHNOLOGIES INC ED5D731-30

SHEET A2 OF 57

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED TO PROVIDE SHELF '1' OF THE MODULE CONTROLLER AND TIME SLOT INTERCHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B, UN516, UN517, UN518, UN71B, UN414AA, TN1086B, TN1077E AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STANDARDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN SMC MODEL 1 CABINETS, J5D003E-1. REFL:ED5D731-30,G4 DA EFF:05/01/98 FE/RA:NONE	16	DA	4A		J5D003LA-1	1,3,5B,7F,22B,4,BW,DB,40						
AVAILABLE DA EFF:05/01/98 FE/RA:NONE		DA	5									
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B TO PROVIDE MEMORY CAPACITY IN INCREMENTS OF 8 BYTES PER CONTROLLER. PROVIDES ONE TN1376 CKT PACK. A MAXIMUM OF SIX LIST 6'S MAY BE SPECIFIED PER SHELF OF MCTU2. DA EFF:05/01/98 FE/RA:NONE	57 59	DA	6		J5D003LA-1	19, AZ						
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B TO PROVIDE MEMORY CAPACITY IN INCREMENTS OF 16 MBYTES PER CONTROLLER. PROVIDES ONE TN1661 CKT PACK. A MAXIMUM OF SIX LIST 5'S MAY BE SPECIFIED PER SHELF OF MCTU2. DA EFF:05/01/98 FE/RA:NONE	57 59	DA	7		J5D003LA-1	23						
EQUIPMENT IN ADDITION TO LIST 3, 4,19,19A,20 OR 20A TO PROVIDE 23 ADDITIONAL CONTROL PORTS. PROVIDES UN71B CKT PACK. DA EFF:07/07/97 FE:ED5D731-30,G8A	57	DA	8	1	J5D003LA-1	9						
EQUIPMENT IN ADDITION TO LIST 3A,4A,19B OR 20B TO PROVIDE 23 ADDITIONAL CONTROL PORTS. PROVIDES UN71C CKT PACK. REFL:ED5D731-30,G8 DA EFF:05/01/98 FE/RA:NONE	57	DA	8A		J5D003LA-1	9B						
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B TO PROVIDE INTERFACE TO PACKET SWITCH UNIT PROVIDES TN1042 CIRCUIT PACK. REQUIRED IN SM'S WITH PSU APPLICATIONS. DA EFF:05/01/98 FE/RA:NONE	57	DA	9		J5D003LA-1	11						
APPARATUS REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B, FOR 5E5 5E5 OR LATER GENERIC OFFICES. PROVIDES ONE MC5D158A1B MICROCODED CIRCUIT PACK (UN517B). <5E5(1) OR LATER> DA EFF:05/01/98 FE/RA:NONE	57	DA	10		J5D003LA-1	20A						
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B TO PROVIDE CONNECTORS REQUIRED IN 24 CHANNEL RSM APPLICATIONS. PROVIDES TWO 963-2SHORTING BERGS. DA EFF:05/01/98 FE/RA:NONE	57 67	DA	11		J5D003LA-1	15						

TABLE-A CONTINUED

ED5D731-30

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B TO PROVIDE TIME SLOT SELECTION SWITCHES REQUIRED IN ALL SM'S, ORM'S, TRM'S AND MINIMALLY CONFIGURED RSM'S (RSM'S WITH ONLY 2 OR 3 T1 LINES). PROVIDES TWO 955B CONNECTORS. DA EFF:05/01/98 FE/RA:NONE	57	DA	12		J5D003LA-1	12						
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B TO PROVIDE DLI CONTROL AND DISPLAY SHORTING BERGS REQUIRED IN ALL SM'S AND TRM'S. (NOT REQUIRED IN RSM'S OR ORM'S). PROVIDES ONE 982JJ CONNECTOR. DA EFF:05/01/98 FE/RA:NONE	57	DA	13		J5D003LA-1	17						
APPARATUS REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B, FOR UNITS USED IN 30 CHANNEL MMRSM APPLICATIONS. PROVIDE ONE 963E-2 CONNECTOR. DA EFF:05/01/98 FE/RA:NONE	57 67	DA	15		J5D003LA-1	16						
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FAN UNIT IN A IMC CABINET WITH THE SIX-FAN FAN UNIT. FE:ED5D731-30,G16A DA EFF:03/26/93		DA	16	1	J5D003BN-2	3,B						
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FAN UNIT IN A IMC CABINET WITH THE SIX-FAN THERMOSTATICALLY CONTROLLED FAN UNIT. REFL:ED5D731-30,G16 DA EFF:07/07/97 FE:ED5D731-30,G16B		DA	16A	1	J5D003BN-2	3A, B,C						
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FAN UNIT IN A IMC CABINET WITH THE SIX-FAN THERMOSTATICALLY CONTROLLED FAN UNIT. REFL:ED5D731-30,G16A DA EFF:05/01/98 FE/RA:NONE		DA	16B		J5D003BN-2	3A, B						
ASSEMBLY, WIRING AND EQUIPMENT REQUIRED TO REPLACE THE FUSE/FILTER UNIT IN IMC CABINETS WITH A J5D003AU-2 UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	17	1	J5D003AU-2	5,6, E,J SF, WD 5,6, C,E, K, SG, WD						

TABLE-A CONTINUED

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DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

LUCENT TECHNOLOGIES INC ED5D731-30

SHEET A3 OF 57

PRINTED IN U.S.A.

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT			
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED IN ADDITION TO LIST 17 TO PROVIDE A SUPPORT SHELF FOR THE FUSE AND FILTER UNIT. (SEE NOTE 17). DA EFF:05/01/98 FE/RA:NONE		DA	18									
EQUIPMENT REQUIRED TO PROVIDE SHELF '0' OF THE MODULE CONTROLLER AND TIME SLOT INTER-CHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516,UN517,UN518,UN71B, UN414AA,TN1086B,TN1077D AND TWO TN1377 CKT PACKS.TN1077D COMPLY WITH CEPT & EMC STDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN IMC CABINETS, J5D003C-1. REPL:ED5D731-30,G19A DA EFF:03/26/93		DA	19	1	J5D003LA-1	1,2, 5B, 7B, 22B, CW, T, BV						
EQUIPMENT REQUIRED TO PROVIDE SHELF '0' OF THE MODULE CONTROLLER AND TIME SLOT INTER-CHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516,UN517,UN518,UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CKT PACKS.TN1077D COMPLY WITH CEPT & EMC STDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN IMC CABINETS, J5D003C-1. REPL:ED5D731-30,G19 DA EFF:07/07/97 FE:ED5D731-30,G19B		DA	19A	1	J5D003LA-1	1,2, 5B, 7C, 22B, CW, DB, BV, 36						
EQUIPMENT REQUIRED TO PROVIDE SHELF '0' OF THE MODULE CONTROLLER AND TIME SLOT INTER-CHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516,UN517,UN518,UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CKT PACKS.TN1077D COMPLY WITH CEPT & EMC STDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN IMC CABINETS, J5D003C-1. REPL:ED5D731-30,G19A DA EFF:05/01/98 FE/RA:NONE		DA	19B		J5D003LA-1	1,2, 5B, 7F, 22B, CW, DB, BV, 36						
EQUIPMENT REQUIRED TO PROVIDE SHELF '1' OF THE MODULE CONTROLLER AND TIME SLOT INTER-CHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516,UN517,UN518,UN71B, UN414AA,TN1086B,TN1077D AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN IMC CABINETS, J5D003C-1 FE:ED5D731-30,G20A DA EFF:03/26/93		DA	20	1	J5D003LA-1	1,3, 5B, 7B, 22B, CW, 4,T, BW						

TABLE-A CONTINUED

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TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		RAT- ING	LIST OR GROUP	EQUIPMENT OR CIRCUIT DATA					SD EQUIVALENT			
DESCRIPTION	REF NOTE			QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED TO PROVIDE SHELF '1' OF THE MODULE CONTROLLER AND TIME SLOT INTER-CHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516,UN517,UN518,UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN IMC CABINETS, J5D003C-1 REPL:ED5D731-30,G20 DA EFF:07/07/97 FE:ED5D731-30,G20B		DA	20A	1	J5D003LA-1	1,3, 5B, 7C, 22B, CW, 4, BW, DB, 40						
EQUIPMENT REQUIRED TO PROVIDE SHELF '1' OF THE MODULE CONTROLLER AND TIME SLOT INTER-CHANGER UNIT - MODEL 2 ARRANGED FOR 24 MBYTES OF MEMORY, 512 TIME SLOTS, 32 DATA PORTS, 46 CONTROL PORTS AND 2 DIGITAL SERVICE CIRCUITS. EQUIPPED WITH ONE EACH OF THE FOLLOWING: UN515B,UN516,UN517,UN518,UN71B, UN414AA,TN1086B,TN1077E AND TWO TN1377 CIRCUIT PACKS. TN1077D COMPLIES WITH CEPT & EMC STDS. THIS LIST IS TO BE USED FOR REPLACEMENTS IN IMC CABINETS, J5D003C-1 REPL:ED5D731-30,G20A DA EFF:05/01/98 FE/RA:NONE		DA	20B		J5D003LA-1	1,3, 5B, 7F, 22B, CW, 4, BW, DB, 40						
EQUIPMENT IN ADDITION TO LIST 2 OR 17 TO PROVIDE FUSE LABELS. DA EFF:05/01/98 FE/RA:NONE		DA	21		ED5D088-10	269, 270, 274, 275						
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4 OR 4A PROVIDES ONE FAN PLENUM ASSEMBLY DA EFF:05/01/98 FE/RA:NONE		56	DA	22								
EQUIPMENT REQUIRED IN ADDITION TO LIST 19,19A,19B,20,20A OR 20B PROVIDES FAN PLENUM ASSEMBLY. DA EFF:05/01/98 FE/RA:NONE		56	DA	23								
APPARATUS REQUIRED IN ADDITION TO LIST 3,4,19,19A,20 OR 20A WHEN SMP20 DATA CACHE FEATURE IS REQUIRED. PROVIDES ONE UN520 MICROPROCESSOR CORE 2 CIRCUIT PACK AND ASSOCIATED LABEL. DA EFF:07/07/97 FE/RA:NONE		57 62	DA	24	1	J5D003LA-1	21A					

TABLE-A CONTINUED

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DWG SIZE C2 ISSUE 10

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TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,4,19,19A,20 OR 20A WHEN SMP20 DATA CACHE IS REQUIRED. PROVIDES WIRING FOR THIS FEATURE. (SEE NOTES 57 AND 62). FE/RA:NONE DA EFF:11/15/93		DA	25	1	J5D003LA-1	WB					
APPARATUS IN ADDITION TO LIST 3, 4,19,19A,20 OR 20. PROVIDES GENERIC SOFTWARE BASED LOCAL DIGITAL SERVICE FUNTCTION. PROVIDES 1 DIGITAL SERVICE MICROCODED CIRCUIT PACK (TN833) MC5D085A1. (SEE NOTE 57). FE:ED5D731-30,G26A DA EFF:11/15/93		DA	26	1	J5D003LA-1	10					
APPARATUS IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B PROVIDES GENERIC SOFTWARE BASED LOCAL DIGITAL SERVICE FUNTCTION. PROVIDES 1 DIGITAL SERVICE MICROCODED CIRCUIT PACK (TN833C) MC5D085A1C. REPL:ED5D731-30,G26 DA EFF:05/01/98 FE/RA:NONE	57	DA	26A		J5D003LA-1	10A					
APPARATUS IN ADDITION TO LIST 17 TO PROVIDE TEL & TTY JACK UNIT. DA EFF:05/01/98 FE/RA:NONE	70	DA	27		J5D003AU-2	7					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4 OR 4A WHEN THE SMC IS IN A SINGLE MOD RSM OR FIRST MOD OF MMRS. PROVIDES 272A CKT MOD & ASSOCIATED CABLES FOR ASU. REPL:NONE DA EFF:05/01/98 FE/RA:NONE		DA	28								
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A AND 4,4A WHEN THE SMC IS THE 2ND,3RD OR 4TH MOD OF MMRS. PROVIDES 272A CKT MOD & ASSOCIATED CABLES FOR ASU. REPL:NONE DA EFF:05/01/98 FE/RA:NONE		DA	29								
EQUIPMENT IN ADDITION TO LIST 3, 3A,19,19A OR 19B WHEN EQUIPPED IN AN RSM. DA EFF:05/01/98 FE/RA:NONE		DA	A		J5D003LA-1	A					
EQUIPMENT IN ADDITION TO LIST 4, 4A,20,20A OR 20B WHEN EQUIPPED IN AN RSM. DA EFF:05/01/98 FE/RA:NONE		DA	B		J5D003LA-1	B					
EQUIPMENT IN ADDITION TO LIST 3, 3A,19,19A OR 19B WHEN EQUIPPED IN ORM. DA EFF:05/01/98 FE/RA:NONE		DA	C		J5D003LA-1	C					
EQUIPMENT IN ADDITION TO LIST 4, 4A,20,20A OR 20B WHEN EQUIPPED IN AN ORM. DA EFF:05/01/98 FE/RA:NONE		DA	D		J5D003LA-1	D					
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B WITHOUT LIST 9 WHEN LIST 5,6 OR 7 IS SPECIFIED. (SM,TRM) (5E4(2)) <5E4(2)> DA EFF:05/01/98 FE/RA:NONE	57	DA	E		J5D003LA-1	E					

TABLE-A CONTINUED

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TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT IN ADDITION TO LIST 3, 3A,4,4A,19,19A,19B,20,20A OR 20B AND 9 WHEN LIST 5 IS SPECIFIED. (SM,TRM) (5E4(2)) <5E4(2)> DA EFF:05/01/98 FE/RA:NONE	57	DA	F		J5D003LA-1	F					
EQUIPMENT IN ADDITION TO LIST 3, 3A,19,19A OR 19B WITHOUT LIST 9 WHEN EQUIPPED IN A RSM OR ORM WHEN LIST 5 IS SPECIFIED. <5E4(2)> DA EFF:05/01/98 FE/RA:NONE		DA	G		J5D003LA-1	J					
EQUIPMENT IN ADDITION TO LIST 4, 4A,20,20A OR 20B WITHOUT LIST 9 WHEN EQUIPPED IN A RSM OR ORM WHEN LIST 5 IS SPECIFIED. <5E4(2)> DA EFF:05/01/98 FE/RA:NONE		DA	H		J5D003LA-1	K					
EQUIPMENT IN ADDITION TO LIST 3, 3A,19,19A OR 19B AND 9 WHEN EQUIPPED IN RSM OR ORM WHEN LIST 5 IS SPECIFIED. <5E4(2)> DA EFF:05/01/98 FE/RA:NONE		DA	I		J5D003LA-1	L					
EQUIPMENT IN ADDITION TO LIST 4, 4B,20,20A OR 20B AND 9 WHEN EQUIPPED IN RSM OR ORM WHEN LIST 5 IS SPECIFIED. <5E4(2)> DA EFF:05/01/98 FE/RA:NONE		DA	J		J5D003LA-1	M					
EQUIPMENT REQUIRED IN ADDITION TO GROUPS 3,3A AND 4,4A TO PROVIDE TWO CENTER OPENING PERFORATED DOOR ASSEMBLIES. REPL:NONE DA EFF:05/01/98 FE/RA:NONE	69	DA	K								
DOOR FRAME KIT REQUIRED TO FIELD RETROFIT CENTER OPENING DOORS PER GROUP K. REPL:NONE DA EFF:05/01/98 FE/RA:NONE	69	DA	M								
DRILL TEMPLATE REQUIRED IN ADDITION TO GROUP M. PROVIDES A TOOL FOR USE BY INSTALLATION CRAFTSPERSON WHEN INSTALLING NEW LOWER DOOR FRAME PER GROUP M. REPL:NONE DA EFF:05/01/98 FE/RA:NONE	69	DA	N								
EQUIPMENT REQUIRED IN ADDITION TO EACH LIST 7. PROVIDES LABEL FOR TN1661 CIRCUIT PACK. (SEE NOTE 57). DA EFF:05/01/98 FE/RA:NONE		DA	S		J5D003LA-1	CM					

TABLE-A CONTINUED

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DWG SIZE C2 ISSUE 10

LUCENT TECHNOLOGIES INC ED5D731-30

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TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B WITHOUT LIST 9 WHEN LIST 6 IS SPECIFIED WHEN THIS UNIT IS USED IN SM OR TRM. PROVIDES LABELS. <5E4(2)>. DA EFF:05/01/98 FE/RA:NONE		DA	T		J5D003LA-1	V					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B WITH LIST 9 WHEN LIST 6 IS SPECIFIED WHEN THIS UNIT IS USED IN SM OR TRM. PROVIDES LABELS. <5E4(2)>. DA EFF:05/01/98 FE/RA:NONE		DA	V		J5D003LA-1	W					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,19,19A OR 19B WITHOUT LIST 9 WHEN LIST 6 IS SPECIFIED WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <5E4(2)>. DA EFF:05/01/98 FE/RA:NONE		DA	W		J5D003LA-1	Z					
EQUIPMENT REQUIRED IN ADDITION TO LIST 4,4A,20,20A OR 20B WITHOUT LIST 9 WHEN LIST 6 IS SPECIFIED WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <5E4(2)>. DA EFF:05/01/98 FE/RA:NONE		DA	X		J5D003LA-1	AA					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,19,19A OR 19B WITH LIST 9 WHEN LIST 6 IS SPECIFIED WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <5E4(2)>. DA EFF:05/01/98 FE/RA:NONE		DA	Y		J5D003LA-1	AB					
EQUIPMENT REQUIRED IN ADDITION TO LIST 4,4A,20,20A OR 20B WITH LIST 9 WITH LIST 6 IS SPECIFIED WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <5E4(2)>. DA EFF:05/01/98 FE/RA:NONE		DA	Z		J5D003LA-1	AC					
WIRING REQUIRED TO REPLACE THE FUSE/FILTER UNIT IN SMCI CABINETS. (SEE MISCELLANEOUS TABLES CC & CD) DA EFF:05/01/98 FE/RA:NONE		DA	A1								
WIRING REQUIRED TO REPLACE THE FAN UNIT IN SMCI CABINETS. PROVIDES CABLING AND WIRING FOR THE NEW 6-FAN FAN UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	A2								
WIRING REQUIRED TO REWIRE THE LOCAL DSU IN SMCI CABINETS WHEN LIST 26 IS NOT SPECIFIED. PROVIDES CABLING FOR SERVICE GROUP 1 OF J5D003AE-1 UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	A3								
WIRING REQUIRED TO REWIRE THE LOCAL DSU IN SMCI CABINETS WHEN LIST 26 IS NOT SPECIFIED. PROVIDES CABLING FOR SERVICE GROUP 0 OF THE J5D003AE-1 UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	A4								
PROVIDES FOR THE REMOVAL OF IMPU CABLING FROM SMCI CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	A5								

TABLE-A CONTINUED

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TABLE A-FEATURES (CONTINUED)											
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA						SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
PROVIDES FOR THE REMOVAL OF TSIU1 CABLING FROM SMCI CABINETS DA EFF:05/01/98 FE/RA:NONE	68	DA	A6								
PROVIDES FOR THE DISCONNECTION AND RETAGGING OF OPTICAL FIBERS FOR SIDE 0 OF THE IMPU/TSIU1 IN SMCI CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	A7								
PROVIDES FOR THE RECONNECTION OF OPTICAL FIBERS TO SIDE 0 OF THE MCTU2 IN SMCI CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	A8								
WIRING REQUIRED TO INSTALL SIDE 0 OF MCTU2 IN SMCI CABINETS. PROVIDES CABLING FOR THE SHELF. DA EFF:05/01/98 FE/RA:NONE		DA	A9								
RESERVED DA EFF:05/01/98 FE/RA:NONE		DA	A10								
PROVIDES FOR THE DISCONNECTION AND RETAGGING OF OPTICAL FIBERS FOR SIDE 1 OF THE IMPU/TSIU1 IN SMCI CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	A11								
PROVIDES FOR THE RECONNECTION OF OPTICAL FIBERS TO SIDE 1 OF THE MCTU2 IN SMCI CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	A12								
WIRING REQUIRED TO INSTALL SIDE 1 OF MCTU2 IN SMCI CABINETS. PROVIDES CABLING FOR THIS SHELF. DA EFF:05/01/98 FE/RA:NONE		DA	A13								
EQUIPMENT REQUIRED TO RECONNECT THE FILTER GROUND MULT LOOP IN SMCI CABINETS IF THE OLD FUSE/FILTER UNIT HAD A FEED THRU TERMINAL LUG. REPL:NONE DA EFF:05/01/98 FE/RA:NONE		DA	A14								
WIRING REQUIRED TO INSTALL SIDE 1 OF MCTU2 IN SMCI CABINETS. PROVIDES GROUND STRAPS BETWEEN THE SIDE 0 AND 1 SHELVES. DA EFF:05/01/98 FE/RA:NONE		DA	A15								
WIRING REQUIRED TO REPLACE THE FUSE/FILTER UNIT IN IMC CABINETS. DA EFF:05/01/98 FE/RA:NONE		DA	B1								

TABLE-A CONTINUED

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TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

LUCENT TECHNOLOGIES INC ED5D731-30

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TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
WIRING REQUIRED TO REPLACE THE FAN UNIT IN IMC CABINETS. PROVIDES CABLING AND WIRING FOR THE NEW 6-FAN FAN UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	B2									
WIRING REQUIRED TO REWIRE THE LOCAL DSU IN IMC CABINETS WHEN LIST 26 IS NOT SPECIFIED. PROVIDES CABLING FOR SERVICE GROUP 1 OF J5D003AE-1 UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	B3									
WIRING REQUIRED TO REWIRE THE LOCAL DSU IN IMC CABINETS WHEN LIST 26 IS NOT SPECIFIED. PROVIDES CABLING FOR SERVICE GROUP 0 OF THE J5D003AE-1 UNIT. DA EFF:05/01/98 FE/RA:NONE		DA	B4									
PROVIDES FOR THE REMOVAL OF IMPU CABLING FROM IMC CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	B5									
PROVIDES FOR THE REMOVAL OF TSIUL CABLING FROM IMC CABINETS DA EFF:05/01/98 FE/RA:NONE	68	DA	B6									
PROVIDES FOR THE DISCONNECTION AND RETAGGING OF OPTICAL FIBERS FOR SIDE 0 OF THE IMPU/TSIUL IN IMC CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	B7									
PROVIDES FOR THE RECONNECTION OF OPTICAL FIBERS TO SIDE 0 OF THE MCTU2 IN IMC CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	B8									
WIRING REQUIRED TO INSTALL SIDE 0 OF MCTU2 IN IMC CABINETS. PROVIDES CABLING FOR THE SHELF. DA EFF:05/01/98 FE/RA:NONE		DA	B9									
RESERVED DA EFF:05/01/98 FE/RA:NONE		DA	B10									
PROVIDES FOR THE DISCONNECTION AND RETAGGING OF OPTICAL FIBERS FOR SIDE 1 OF THE IMPU/TSIUL IN IMC CABINETS. DA EFF:05/01/98 FE/RA:NONE	68	DA	B11									
PROVIDES FOR THE RECONNECTION OF OPTICAL FIBERS TO SIDE 1 OF THE MCTU2 IN IMC CABINETS. DA EFF:05/01/98 FE/RA:NONE		DA	B12									
WIRING REQUIRED TO INSTALL SIDE 1 OF MCTU2 IN IMC CABINETS. PROVIDES CABLING FOR THIS SHELF. DA EFF:05/01/98 FE/RA:NONE		DA	B13									
RESERVED DA EFF:05/01/98 FE/RA:NONE		DA	B14									
WIRING REQUIRED TO INSTALL SIDE 1 OF MCTU2 IN IMC CABINETS. PROVIDES GROUND STRAPS BETWEEN THE SIDE 0 AND 1 SHELVES. DA EFF:05/01/98 FE/RA:NONE		DA	B15									
TABLE-A CONTINUED												

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20, 20A OR 20B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN SM OR TRM. PROVIDES LABELS. <SE5>. DA EFF:05/01/98 FE/RA:NONE		DA	AA		J5D003LA-1	AH						
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20, 20A OR 20B WITH LIST 9 WHEN THIS UNIT IS USED IN SM OR TRM. PROVIDES LABELS. <SE5>. DA EFF:05/01/98 FE/RA:NONE		DA	AB		J5D003LA-1	AJ						
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,19,19A OR 19B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <SE5>. DA EFF:05/01/98 FE/RA:NONE		DA	AC		J5D003LA-1	AM						
EQUIPMENT REQUIRED IN ADDITION TO LIST 4,4A,20,20A OR 20B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <SE5>. DA EFF:05/01/98 FE/RA:NONE		DA	AD		J5D003LA-1	AN						
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,19,19A OR 19B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <SE5>. DA EFF:05/01/98 FE/RA:NONE		DA	AE		J5D003LA-1	AP						
EQUIPMENT REQUIRED IN ADDITION TO LIST 4,4A,20,20A OR 20B WITH LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <SE5>. DA EFF:05/01/98 FE/RA:NONE		DA	AF		J5D003LA-1	AR						
EQUIPMENT REQUIRED IN ADDITION TO EACH LIST 5. PROVIDES LABELS FOR TN1374. (SEE NOTE 59). <SE5 AND LATER> FE/RA:NONE DA EFF:03/26/93		DA	AG	1	J5D003LA-1	AX						
EQUIPMENT REQUIRED IN ADDITION TO EACH LIST 6. PROVIDES LABELS FOR TN 1376. (SEE NOTE 59). <SE5 AND LATER>. DA EFF:05/01/98 FE/RA:NONE		DA	AH		J5D003LA-1	AY						
TABLE-A CONTINUED												

TABLE A-FEATURES (CONTINUED)

EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT		
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN SM OR TRM. PROVIDES LABELS. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE		DA	AJ		J5D003LA-1	BD					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B WITH LIST 9 WHEN THIS UNIT IS USED IN SM OR TRM. PROVIDES LABELS. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE		DA	AK		J5D003LA-1	BE					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,19,19A OR 19B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE		DA	AL		J5D003LA-1	BH					
EQUIPMENT REQUIRED IN ADDITION TO LIST 4,4A,20,20A OR 20B WITHOUT LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDES LABELS. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE		DA	AM		J5D003LA-1	BJ					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,19,19A OR 19B WITH LIST 9 WHEN THIS UNIT IS IN RSM OR ORM. PROVIDES LABELS. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE		DA	AN		J5D003LA-1	BK					
EQUIPMENT REQUIRED IN ADDITION TO LIST 4,4A,20,20A OR 20B WITH LIST 9 WHEN THIS UNIT IS USED IN RSM OR ORM. PROVIDED LABELS. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE		DA	AP		J5D003LA-1	BL					
EQUIPMENT REQUIRED IN ADDITION TO LIST 3,3A,4,4A,19,19A,19B,20,20A OR 20B WHEN LIST 24 IS NOT SPECIFIED. <5E6 OR LATER> DA EFF:05/01/98 FE/RA:NONE	63	DA	AR		J5D003LA-1	BS					
EQUIPMENT REQUIRED IN ADDITION TO LIST 21 TO PROVIDE FUSE LABELS WHEN LIST 26 (TN833) IS SPECIFIED. REPL:NONE DA EFF:05/01/98 FE/RA:NONE		DA	AS								

END OF TABLE-A

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BT13

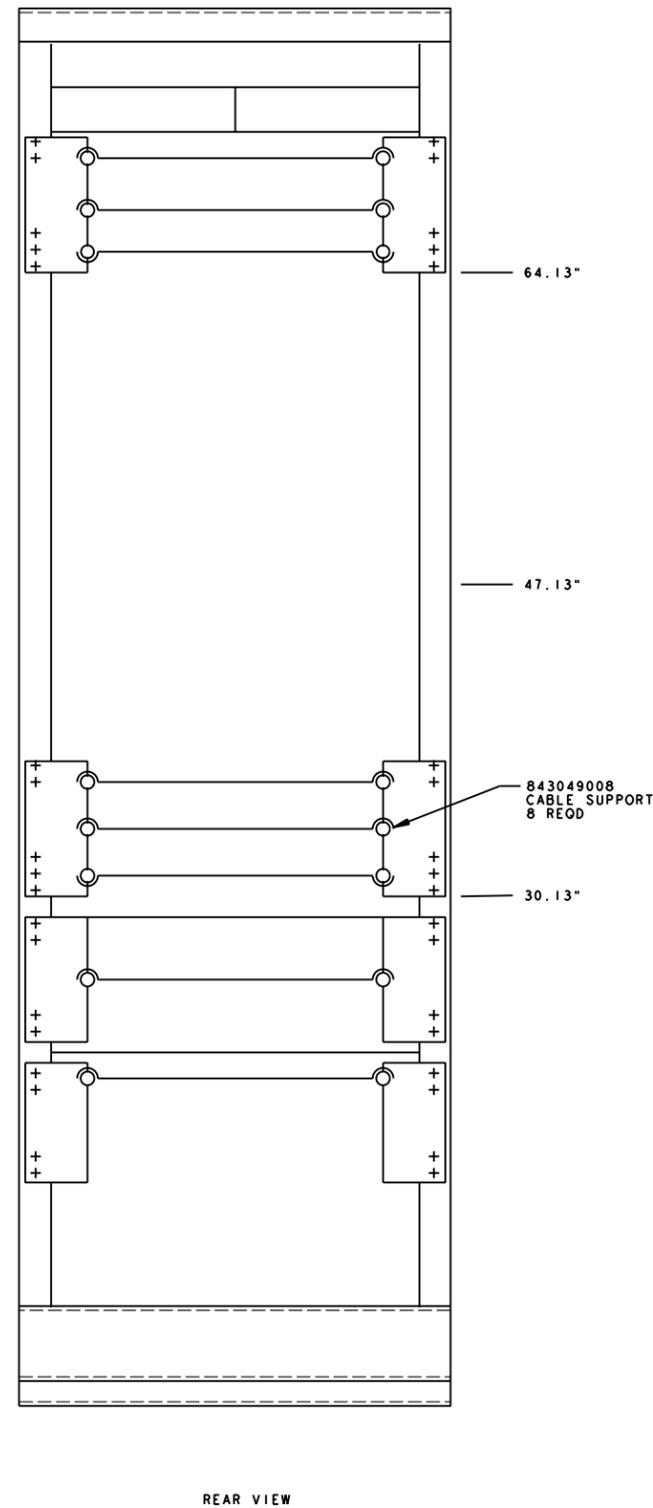
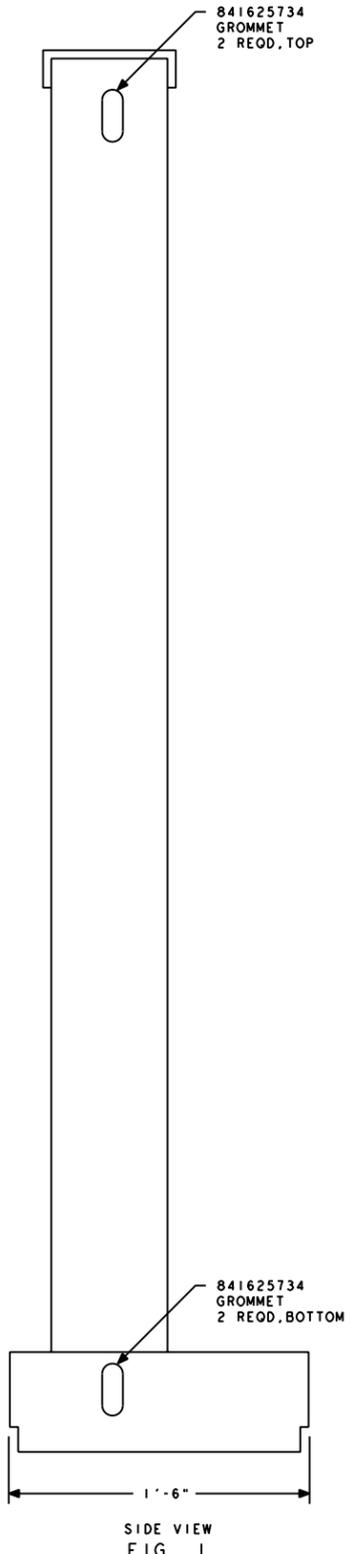
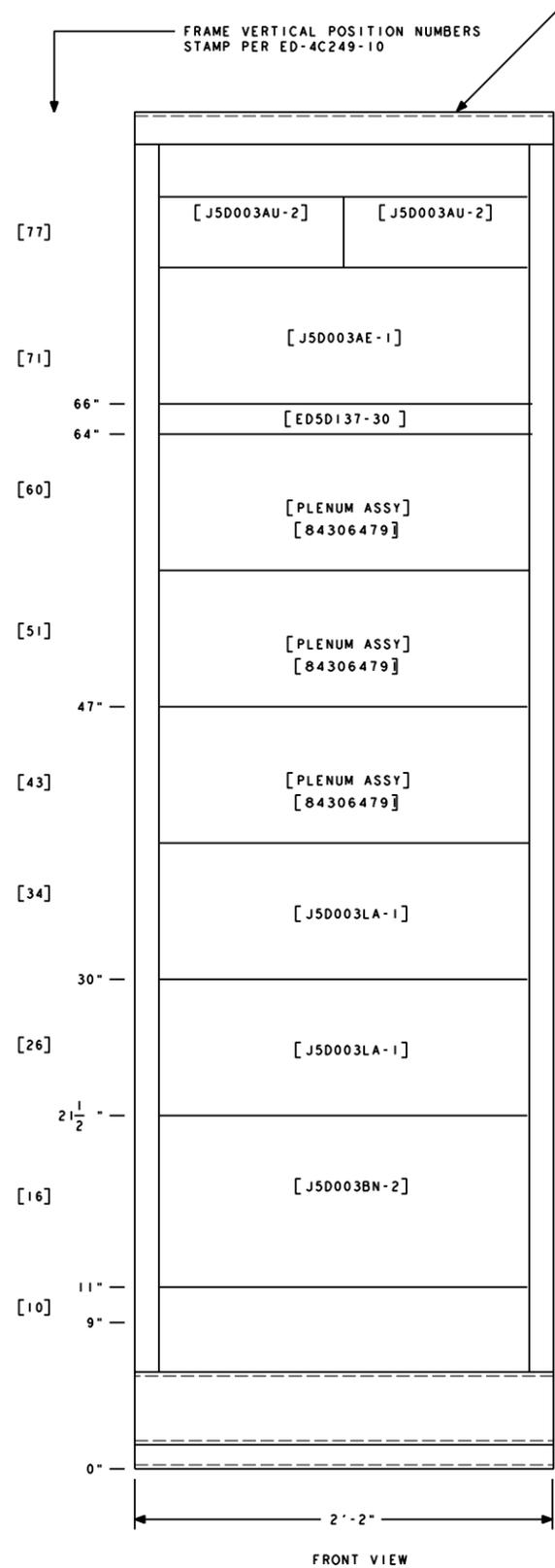
DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

ED5D731-30

LUCENT TECHNOLOGIES INC ED5D731-30

SHEET A8 OF 57



CONVERSION TABLE

INCH	MM
9	228.6
10	254.0
11	279.4
16	406.4
1'-6"	457.2
21.50	546.1
26	660.4
2'-2"	660.4
30	762.0
30.13	762.9
34	863.6
43	1,092.2
47	1,193.8
47.13	1,197.0
51	1,295.4
60	1,524.0
64	1,625.6
64.13	1,628.9
68	1,727.2

PROJ-EDFORM.FRM-FEB-96

ED5D731-30

FOR PROPRIETARY NOTICE SEE SHEET A1

IMC CABINET

THIRD ANGLE PROJ

DWG SIZE C2 ISSUE 10

LUCENT TECHNOLOGIES ED5D731-30 SHEET NO. B1

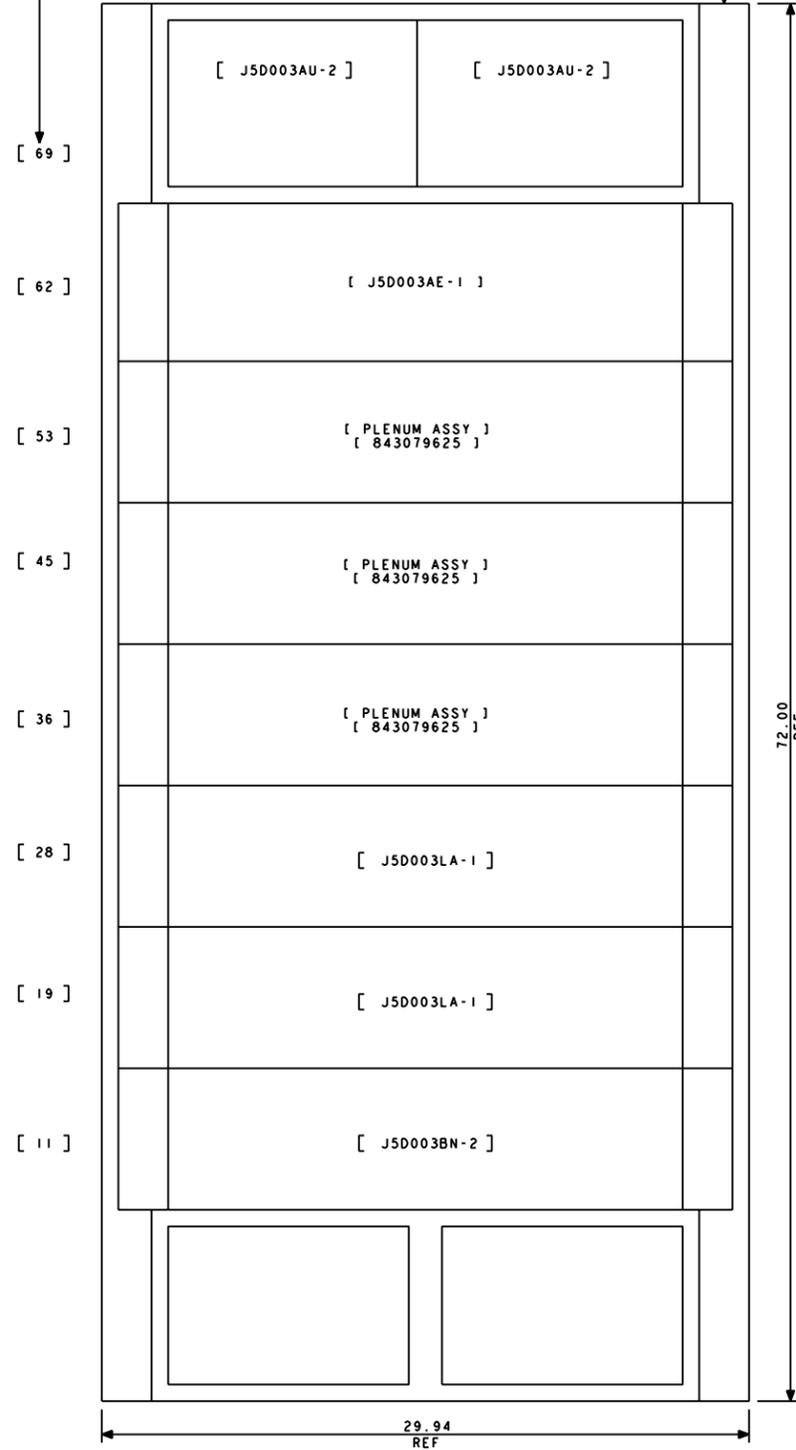
MODEL NAME

STAMP VERTICAL EOL
FRONT & REAR
(SEE NOTE 28)

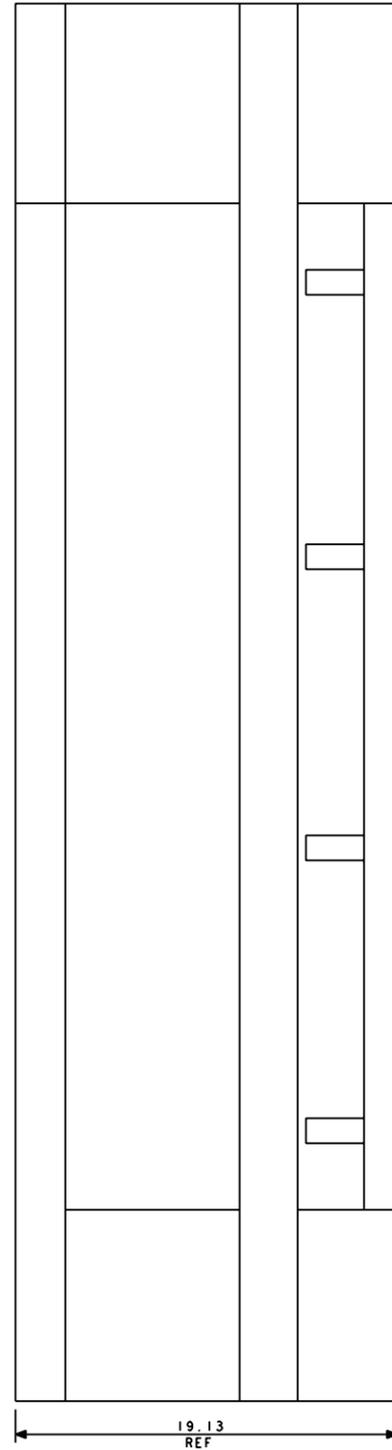
ED-5D184-70

SD-5D118-02

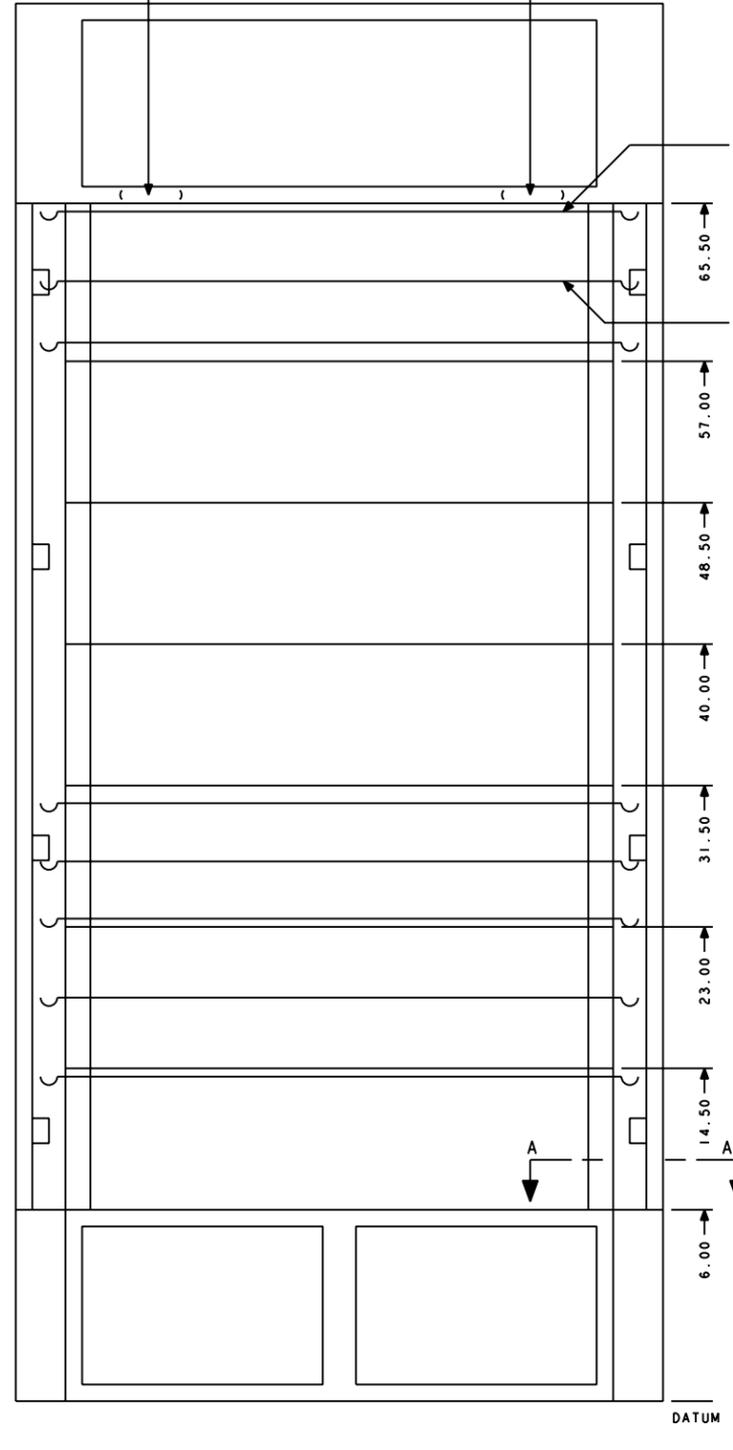
J5D003E-1



FRONT VIEW



SIDE VIEW



REAR VIEW

843087073 CABLE
SUPPORT BRACKET

845311117
CABLE
SUPPORT BRACKET
7 REOD

CONVERSION TABLE	
INCH	MM
6.00	152.4
14.50	368.3
19.13	485.8
23.00	584.2
29.94	760.48
31.50	800.1
40.00	1,016.0
48.50	1,231.9
57.00	1,447.8
65.50	1,663.7
72.00	1828.8

FOR PROPRIETARY NOTICE SEE SHEET A1

SMC CABINET		THIRD ANGLE PROJ 	
DWG SIZE C2		ISSUE 10	
LUCENT TECHNOLOGIES		SHEET NO. B2	

PROJ-EGEDFORM.FRM-FEB-96

ED5D731-30

FIG. 2 (LIST 5 CABINET)
SHOWN WITHOUT DOORS & SIDE PANELS
(A & M ONLY)

MODEL NAME

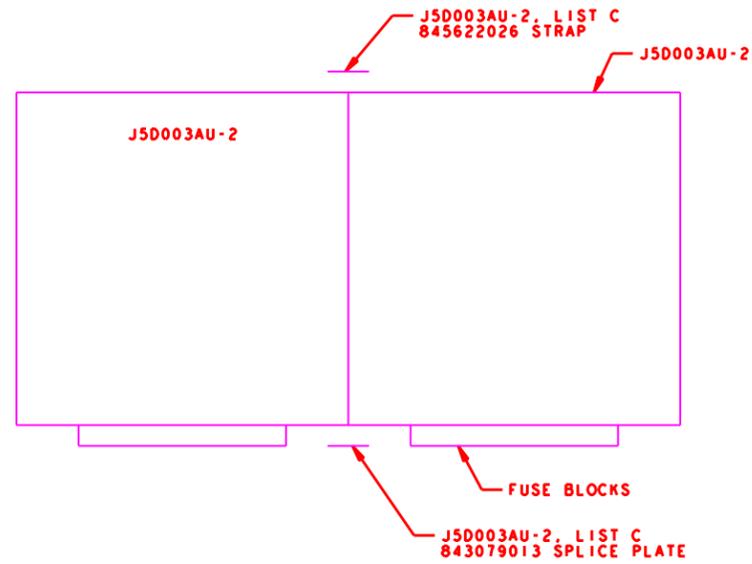


FIG. A
SPLICE PLATE AND STRAP
LOCATIONS FOR J5D003AU-2

MCTU 2

MCTS1 1																					
012	026	034	042	050	058	064	070	076	082	088	096	104	112	120	130	138	144	156	168	178	
414 AA	UN 516	UN 517	UN 515 OR 520	TN 1374	TN 1374	TN 1374	TN 1374	TN 1374	TN 1374	UN 518	UN 71B	UN 71B	TN 1042		TN 1377	TN 1377	TN 1086	TN 1077B	TN 833		
PWR	CD CSI	CS2	CORE	← MEMORY →				APPL I	CI	CI	PI		DI	DI	TS1/ SP	DLI I	DSC I				

MCTS1 0																					
012	026	034	042	050	058	064	070	076	082	088	096	104	112	120	130	138	144	156	168	178	
414 AA	UN 516	UN 517	UN 515 OR 520	TN 1374	TN 1374	TN 1374	TN 1374	TN 1374	TN 1374	UN 518	UN 71B	UN 71B	TN 1042		TN 1377	TN 1377	TN 1086	TN 1077B	TN 833		
PWR	CD CSI	CS2	CORE	← MEMORY →				APPL I	CI	CI	PI		DI	DI	TS1/ SP	DLI O	DSC O				

• OPTIONAL

FIG. B
CIRCUIT PACK LAYOUT FOR MCTU2

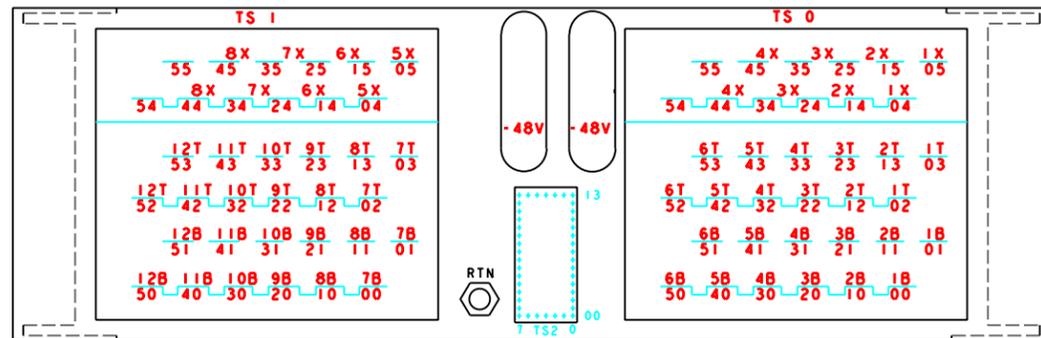


FIG. C
FUSE FILTER UNIT TERMINAL STRIPS,
POWER FEEDER LOCATIONS, AND RTN LUG

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1000	16,16A,16B	1	J5D003BN-2, LB		UNIT, FAN			
1010	16	1	J5D003BN-2, L3		UNIT, FAN			
1012	1,16A	1	J5D003BN-2, L3A, LC		UNIT, FAN			
1013	1,1A,16A,16B	1	J5D003BN-2, L3A		UNIT, FAN			
1014	1,16A	1	J5D003BN-2, LC		UNIT, FAN		S	
1020	2,17	2	J5D003AU-2, L5		UNIT, FUSE/FILTER			
1030	2,17	2	J5D003AU-2, L6		UNIT, FUSE/FILTER			
1040	2	1	J5D003AU-2, L7		UNIT, FUSE/FILTER			
1060	2,17	1	J5D003AU-2, LC		UNIT, FUSE/FILTER			
1070	2,17	2	J5D003AU-2, LWD		UNIT, FUSE/FILTER			
1080	2,17	1	J5D003AU-2, LSF		UNIT, FUSE/FILTER			
1090	2,17	1	J5D003AU-2, LSG		UNIT, FUSE/FILTER			
1100	2,17	2	J5D003AU-2, LE		UNIT, FUSE/FILTER			
1110	17	1	J5D003AU-2, LK		UNIT, FUSE/FILTER			
1115	17	1	J5D003AU-2, LJ		UNIT, FUSE/FILTER			
1120	3,3A,4,4A,19,19A,19B,20,20A,20B	1	J5D003LA-1, L1		UNIT, MODULE CONTROLLER AND TSI			
1130	3,3A,19,19A,19B	1	J5D003LA-1, L2, L36, LBV		UNIT, MODULE CONTROLLER AND TSI			
1140	4,4A,20,20A,20B	1	J5D003LA-1, L3, L40, LBW		UNIT, MODULE CONTROLLER AND TSI			
1150	3,3A,4,4A,19,19A,19B,20,20A,20B	1	J5D003LA-1, L22B		UNIT, MODULE CONTROLLER AND TSI			57
1160	3,3A,4,4A,19,19A,19B,20,20A,20B	1	J5D003LA-1, L5B		UNIT, MODULE CONTROLLER AND TSI			
1161	3,3A,4,4A,19A,19B,20A,20B	1	J5D003LA-1, LDB		UNIT, MODULE CONTROLLER AND TSI			
1170	19,20	1	J5D003LA-1, L7B		UNIT, MODULE CONTROLLER AND TSI			
1171	3,4,19A,20A	1	J5D003LA-1, L7C		UNIT, MODULE CONTROLLER AND TSI			
1172	3A,4A,19B,20B	1	J5D003LA-1, L7F		UNIT, MODULE CONTROLLER AND TSI			
1190	6	1	J5D003LA-1, L19, LAZ		UNIT, MODULE CONTROLLER AND TSI			57
1200	7	1	J5D003LA-1, L23		UNIT, MODULE CONTROLLER AND TSI			57
1210	8	1	J5D003LA-1, L9		UNIT, MODULE CONTROLLER AND TSI			57
1211	8A	1	J5D003LA-1, L9B		UNIT, MODULE CONTROLLER AND TSI			57
1220	9	1	J5D003LA-1, L11		UNIT, MODULE CONTROLLER AND TSI			57
1230	10	1	J5D003LA-1, L20A		UNIT, MODULE CONTROLLER AND TSI			57
1240	11	1	J5D003LA-1, L15		UNIT, MODULE CONTROLLER AND TSI			57 19
1250	12	1	J5D003LA-1, L12		UNIT, MODULE CONTROLLER AND TSI			57
1260	13	1	J5D003LA-1, L17		UNIT, MODULE CONTROLLER AND TSI			57

STOCKLIST CONTINUED ON SHEET D2

ED5D731-30

S H O P T	MANUFACTURING NOTES	
	SYM	NBR
		1. X PARTS REQUIRED FOR INSTALLATION.
		X/ PARTS REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED OR BY THE INSTALLER WHEN THE EQUIPMENT IS TO BE FIELD MOUNTED.
		* PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.
		* / PARTS (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT INVOLVED IS SHOP MOUNTED OR (B) TO BE SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.
		() INDICATES DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.
		{ } INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.
		< > INDICATES DESIGNATIONS AND/OR INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.
		"W" PARTS ASSEMBLED AT THE SAME TIME THE EQUIPMENT IS MOUNTED.
		"W*" PARTS TO BE (A) SHOP ASSEMBLED, BUT WHICH CANNOT BE ASSEMBLED UNTIL THE ASSOCIATED EQUIPMENT IS BEING MOUNTED, OR (B) SHIPPED ATTACHED TO, OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED EQUIPMENT WHEN FIELD MOUNTED.
		"S" PARTS NOT ASSEMBLED, SHIPPED SEPARATELY.
		A/R AS REQUIRED.
		"B" PARTIAL ASSEMBLIES ON OTHER DRAWINGS WITH STOCKLISTS.
X		12. MOUNTING BRACKETS ARE TO BE MOUNTED TO THE PLENUM (843079625) AT THE MANUFACTURING LOCATION PRIOR TO SHIPMENT AS SPECIFIED PER GROUP FOR 6 OR 7 FOOT CABINETS.
		13. THIS DRAWING CONTAINS BOTH U. S. CUSTOMARY (INCH,ETC) AND SI (METRIC) DIMENSIONS.
X		15. THE DLI TIME SLOT SWITCHES, 955B, ARE TO BE SET PER NOTE 304 OF SDD151-01.
X		16. FUSE LABELS SHALL BE AFFIXED TO THE PANEL FASTENED TO THE REAR OF THE BEZEL LOCATED AT THE TOP FRONT OF THE SMCI CABINET AND THE INSIDE OF THE FRONT DOOR OF THE IMC CABINET. THE LABELS SHALL BE PLACED SO THEY ARE READABLE WITH THE BEZEL IN THE OPEN POSITION FOR THE SMCI CABINET OR THE DOOR IN THE OPEN POSITION FOR THE IMC CABINET.
X		17. CABLE SUPPORT BRACKETS (TOWEL RODS) CAN BE REUSED FROM THE OLD EQUIPMENT THAT IS BEING REMOVED.
X		18. WITH THE MODEL 1 DSU(J5D003AE-1) BEING RETAINED IN THE SM, THERE MUST BE NO TN833 CIRCUIT PACKS IN THE MCTU2. CONVERSION OF THE MODEL 1 LOCAL DSU TO THE INTEGRATED LOCAL DSU MUST BE PERFORMED BY USING A SEPARATE PROCEDURE AFTER THE MCTU2 CONVERSION HAS BEEN COMPLETED.
X X		19. 963E-2 CONNECTORS SHALL BE EQUIPPED AS FOLLOWS: LIST EQL ---- 11 04-033-011 11 04-033-020
X		20. WHEN RETROFITTING NEW STYLE CENTER-OPENING CABINET DOORS TO OLDER STYLE CABINETS PER ED5D184-70 THROUGH -73, IT IS NECESSARY TO REPLACE THE OLD STYLE ONE OR TWO PIECE DOOR FRAMES (BI-FOLD DOORS) WITH A NEW TWO PIECE DOOR FRAME DESIGNED TO MOUNT THE CENTER-OPENING DOORS. GROUP M, DOOR FRAME KIT, CONSISTING OF A NEW TWO PIECE DESIGN UPPER AND LOWER DOOR FRAME, AND ASSOCIATED MOUNTING SCREWS IS REQUIRED.
X		21. INSTALLER SHALL VERIFY THE AVAILABILITY OF DRILL TEMPLATE (TOOL) AND REQUIRED DRILL BITS PER GROUP N. THESE ITEMS ARE REQUIRED TO ADD THE NECESSARY HOLES IN THE CABINET BASE FOR THE INSTALLATION OF NEW LOWER DOOR FRAME, GROUP M.

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BT13

DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET OF	D1 57

STOCKLIST									
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE		
							SYM	NBR	
1270	A	1	J5D003LA-1,LA		UNIT, MODULE CONTROLLER AND TSI				
1280	B	1	J5D003LA-1,LB		UNIT, MODULE CONTROLLER AND TSI				
1290	C	1	J5D003LA-1,LC		UNIT, MODULE CONTROLLER AND TSI				
1300	D	1	J5D003LA-1,LD		UNIT, MODULE CONTROLLER AND TSI				
1310	E	1	J5D003LA-1,LE		UNIT, MODULE CONTROLLER AND TSI				57
1320	F	1	J5D003LA-1,LF		UNIT, MODULE CONTROLLER AND TSI				57
1330	G	1	J5D003LA-1,LJ		UNIT, MODULE CONTROLLER AND TSI				
1340	H	1	J5D003LA-1,LK		UNIT, MODULE CONTROLLER AND TSI				
1350	I	1	J5D003LA-1,LL		UNIT, MODULE CONTROLLER AND TSI				
1360	J	1	J5D003LA-1,LM		UNIT, MODULE CONTROLLER AND TSI				
1380	15	1	J5D003LA-1,L16		UNIT, MODULE CONTROLLER AND TSI				57
1410	18	1	846853455		ASSEMBLY, SUPPORT BRACKET			*/	
1420	21	1	ED5D088-10,G269		LABEL, FUSE			*/	16
1430	21	1	ED5D088-10,G270		LABEL, FUSE			*/	16
1440	21	1	ED5D088-10,G274		LABEL, FUSE			*/	16
1450	21	1	ED5D088-10,G275		LABEL, FUSE			*/	16
1460	27	1	J5D003AU-2,L7		UNIT, FUSE/FILTER				
1465	27	1	ED5D732-35,G1		CABLE, 7 FT. INTERCAB. COMM. MULT				
1466	27	1	ED5D732-35,G2		CABLE, 7 FT. INTERCAB. COMM. MULT				
1470	4,4A,20,20A,20B	1	J5D003LA-1,L4		UNIT, MODULE CONTROLLER AND TSI				
1540	19,19A,19B,20,20A,20B	1	J5D003LA-1,LCW		UNIT, MODULE CONTROLLER AND TSI				
1550	2,17	8	100203322	70A	FUSE 1.33 AMP FUSE POS 5T,6T,7T,5B,17T,18T,19T,17B			*	
1560	2,17	8	401922059	KS14174L1	PIN, DESIGNATION NYLON WHITE FUSE POS 5T,6T,7T,5B,17T,18T,19T,17B			*	
1570	2,17	2	102630332	74E	FUSE 15 AMP FUSE POS 1XB,9XB			*	
1580	2,17	2	100203389	70G	FUSE .5 AMP FUSE POS 1XT,9XT			*	
1590	2,17	2	401922109	KS14174L7	PIN, DESIGNATION NYLON RED FUSE POS 1XT,9XT			*	
1650	22,23	1	843079625		PLENUM				12
1660	22	2	843079948		BRACKET, MOUNTING				12
1670	22,23	12,8	900820077		SCREW, SLOT HEXAGON WASHER HEAD .164-32 X 5/16				12
1680	23	1	843064791		ASSEMBLY, PLENUM				12
1681	23	2	843049016		ASSEMBLY, BRACKET				12
1690	22,23	8	840026835		SCREW, TTF SLOTTED HEX, WASHER HD .216-24 X 5/8 TAPPING TYPE (SWAGE FORM) STEEL ZINC PLATE 289A FINISH			*/	
1700	24	1	J5D003LA-1,L21A		UNIT, MODULE CONTROLLER AND TSI				57
1710	25	1	J5D003LA-1,LWB		UNIT, MODULE CONTROLLER AND TSI				57
1715	26	1	J5D003LA-1,L10		UNIT, MODULE CONTROLLER AND TSI				57
1716	AS	1	ED5D088-10,G271,G272		LABEL, FUSE			*/	16

***** STOCKLIST CONTINUED AT RIGHT *****

ED5D731-30

STOCKLIST									
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE		
							SYM	NBR	
1717	AS	OMIT 1	ED5D088-10,G274,G275		LABEL, FUSE				
1718	26A	1	106817505	MC5D085A1C	PACK,CIRCUIT, MICROCODED CLEI = 85MQAC9A				
1719	26A	1	J5D003LA-1,L10A		UNIT, MODULE CONTROLLER AND TSI				
1720	S	1	J5D003LA-1,LCM		UNIT, MODULE CONTROLLER AND TSI				57
1730	T	1	J5D003LA-1,LV		UNIT, MODULE CONTROLLER AND TSI				
1740	V	1	J5D003LA-1,LW		UNIT, MODULE CONTROLLER AND TSI				
1750	W	1	J5D003LA-1,LZ		UNIT, MODULE CONTROLLER AND TSI				
1760	X	1	J5D003LA-1,LAA		UNIT, MODULE CONTROLLER AND TSI				
1770	Y	1	J5D003LA-1,LAB		UNIT, MODULE CONTROLLER AND TSI				
1780	Z	1	J5D003LA-1,LAC		UNIT, MODULE CONTROLLER AND TSI				
1790	AA	1	J5D003LA-1,LAH		UNIT, MODULE CONTROLLER AND TSI				
1800	AB	1	J5D003LA-1,LAJ		UNIT, MODULE CONTROLLER AND TSI				
1810	AC	1	J5D003LA-1,LAM		UNIT, MODULE CONTROLLER AND TSI				
1820	AD	1	J5D003LA-1,LAN		UNIT, MODULE CONTROLLER AND TSI				
1830	AE	1	J5D003LA-1,LAP		UNIT, MODULE CONTROLLER AND TSI				
1840	AF	1	J5D003LA-1,LAR		UNIT, MODULE CONTROLLER AND TSI				
1850	AG	1	J5D003LA-1,LAX		UNIT, MODULE CONTROLLER AND TSI				
1860	AH	1	J5D003LA-1,LAY		UNIT, MODULE CONTROLLER AND TSI				
1870	AJ	1	J5D003LA-1,LBD		UNIT, MODULE CONTROLLER AND TSI				
1880	AK	1	J5D003LA-1,LBE		UNIT, MODULE CONTROLLER AND TSI				
1890	AL	1	J5D003LA-1,LBH		UNIT, MODULE CONTROLLER AND TSI				
1900	AM	1	J5D003LA-1,LBJ		UNIT, MODULE CONTROLLER AND TSI				
1910	AN	1	J5D003LA-1,LBK		UNIT, MODULE CONTROLLER AND TSI				
1920	AP	1	J5D003LA-1,LBL		UNIT, MODULE CONTROLLER AND TSI				
1930	AR	1	J5D003LA-1,LBS		UNIT, MODULE CONTROLLER AND TSI				
1936	A1	1	ED5D507-15,G20,G21		ASSEMBLY, CABLE				
1938	A1,B1	1	ED5D503-15,G160		ASSEMBLY, CABLE				
1940	A2	1	ED5D503-15,G1002,G1003		ASSEMBLY, CABLE				
1945	A2	1	ED5D621-20,G9		ASSEMBLY, CABLE				
1950	A3	1	ED5D503-15,G1053		ASSEMBLY, CABLE				
1960	A4	1	ED5D503-15,G1052		ASSEMBLY, CABLE				
1970	A9	1	ED5D503-15,G1006,G1008,G1010,G1014		ASSEMBLY, CABLE				
1980	A13	1	ED5D503-15,G1007,G1009,G1011,G1015		ASSEMBLY, CABLE				

STOCKLIST CONTINUED ON SHEET D3

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET OF 57	D2 57

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
2070	A15,B15	8	ED5D507-17,G10		ASSEMBLY, CABLE			
2080	A14	1	ED5D507-17,G50		ASSEMBLY, CABLE			
2090	A14	2	406919118		RECEPTACLE, FAST-ON #62428-3 AMP INC.			
2120	B1	1	ED5D732-15,G16		ASSEMBLY, CABLE			
2130	B1	1	ED5D732-15,G10		ASSEMBLY, CABLE			
2140	B1	1	ED5D732-15,G7		ASSEMBLY, CABLE			
2150	B1	1	ED5D732-15,G9		ASSEMBLY, CABLE			
2160	B1	1	ED5D732-15,G8		ASSEMBLY, CABLE			
2170	B1	1	ED5D732-15,G11		ASSEMBLY, CABLE			
2180	B1	2	ED5D732-15,G19		ASSEMBLY, CABLE			
2190	B1	1	ED5D732-15,G20		ASSEMBLY, CABLE			
2200	B1	1	ED5D732-15,G21		ASSEMBLY, CABLE			
2210	B1	1	ED5D732-15,G22		ASSEMBLY, CABLE			
2220	B1	1	ED5D732-15,G23		ASSEMBLY, CABLE			
2230	B2	1	ED5D732-15,G1		ASSEMBLY, CABLE			
2240	B2	1	ED5D732-15,G2		ASSEMBLY, CABLE			
2250	B12	1	ED5D732-15,G3		ASSEMBLY, CABLE			
2260	B3	1	ED5D732-15,G17		ASSEMBLY, CABLE			18
2270	B4	1	ED5D732-15,G18		ASSEMBLY, CABLE			18
2280	B9	1	ED5D732-15,G4		ASSEMBLY, CABLE			
2290	B9	1	ED5D732-15,G6		ASSEMBLY, CABLE			
2300	B2	1	ED5D732-15,G15		ASSEMBLY, CABLE			
2310	B12	1	ED5D732-15,G5		ASSEMBLY, CABLE			
2320	B15	8	ED5D732-15,G10		ASSEMBLY, CABLE			
2330	B9,B13	1	ED5D732-15,G14		ASSEMBLY, CABLE			
2340	B9	1	ED5D732-15,G12		ASSEMBLY, CABLE			
2350	B13	1	ED5D732-15,G13		ASSEMBLY, CABLE			
2360	28,29	1	104408943	272A	MODULE, CIRCUIT			
2370	28,29	1	ED5D586-12,G9A		ASSEMBLY, CABLE			
2380	28	1	ED5D586-12,G10		ASSEMBLY, CABLE			
2390	29	1	ED5D586-12,G8		ASSEMBLY, CABLE			
2400	K	2	ED5D184-76,G1		HARDWARE		S	20
2410	M	2	ED5D184-76,GG		HARDWARE		S	20
2420	N	1	ED5D184-76,GH		HARDWARE		S	21

***** END OF STOCKLIST *****

ED5D731-30

TABLE B

INTERUNIT RIBBON CABLING			
ED5D651-25			
(UPDATE BUSES)			
6-FOOT CABINETS			
PIN EQL'S		GROUP NO	
128-173-045	TO	119-173-045	01
128-173-032	TO	119-173-032	02
128-153-045	TO	119-153-045	03
128-153-032	TO	119-153-032	04
128-153-013	TO	119-153-013	05
128-153-000	TO	119-153-000	06
128-042-545	TO	119-042-545	07
128-042-532	TO	119-042-532	08
128-042-513	TO	119-042-513	09
128-042-500	TO	119-042-500	10
128-033-045	TO	119-033-045	11
128-033-032	TO	119-033-032	12
7-FOOT CABINET			
PIN EQL'S		GROUP NO.	
134-173-045	TO	126-173-045	01
134-173-032	TO	126-173-032	02
134-153-045	TO	126-153-045	03
134-153-032	TO	126-153-032	04
134-153-013	TO	126-153-013	05
134-153-000	TO	126-153-000	06
134-042-545	TO	126-042-545	07
134-042-532	TO	126-042-532	08
134-042-513	TO	126-042-513	09
134-042-500	TO	126-042-500	10
134-033-045	TO	126-033-045	11
134-033-032	TO	126-033-032	12

TABLE BA

REMOVE THE FOLLOWING SMC CABINET LED WIRING								
FEATURE	COLOR	FROM			TO			REMARKS
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B1	BR	FAN	TBLK 112-049	12	SKT	177-036F	2	26GA (*) MAY HAVE TO DISCONNECT AND RECONNECT A WIRE ON TOP OF THIS LEAD
	BR	FAN	TBLK 112-049	11	SKT	177-036	2	
	R	FAN	TBLK 112-049	4	SKT	177-036	1(*)	
	G	F/F	TS 110-090	15	SKT	177-024F	2	
	EK	F/F	GRDST 110-062	3T	SKT	177-024F	1	

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TABLE BB

ADD THE FOLLOWING F/F ALM MULT AND F/F TO LED'S									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B1	BR	ED5D732-15,G16	CONN	77-137	310	CONN	77-043	110	
B1	BL	ED5D732-15,G10	CONN	77-043	310	LED	SKT 77-036	1	A SPLICE MAY BE REQUIRED
	O					LED	SKT 77-036	2	
	BR	ED5D503-15,G160	CONN	16-011	600	LED	SKT 034F	2	LED CABLE FROM J5D003BN FAN UNIT
	BL					LED	SKT 154	1	
	G					LED	SKT 154	2	

TABLE BC

REMOVE THE FOLLOWING FUSE/FILTER ALM WIRING									
FEATURE	COLOR	TYPE	FROM			TO			REMARKS
			EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B1	G	F/F	010 TS 90	1	F/F	110 TS 90	4	26GA	
	G	F/F	210 TS 90	7	F/F	110 TS 90	7	26GA	
	G	F/F	010 TS 96	1	F/F	110 TS 96	4	26GA	
	G	F/F	210 TS 96	7	F/F	110 TS 96	7	26GA	

TABLE BD

ADD THE FOLLOWING FUSE ALM CABLING AND LOOSE WIRE									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B1	BR	ED5D732-15,G7	CONN	177-043	302	F/F	011 TS 90	1	'A' BUS
	BR	ED5D732-15,G9	CONN	177-043	305	F/F	211 TS 90	7	
	BR	LOOSE WIRE	TS	011 TS 90	1	TS	211 TS 90	7	
	BR	ED5D732-15,G8	CONN	177-137	302	F/F	011 TS 96	1	'B' BUS
	BR	ED5D732-15-G11	CONN	177-137	305	F/F	211 TS 96	7	
	BR	LOOSE WIRE	TS	011 TS 96	1	TS	211 TS 96	7	

TABLE BE

REMOVE THE FOLLOWING WIRES WHEN A SM IS EQUIPPED WITH A LUI (J5D004AB-1)									
FEATURE	COLOR	TYPE	FROM			TO			REMARKS
			EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B1	S/BK	FILTER	003-060	LINK	FILTER	103-060	LINK	10GA	
	S/BK	FILTER	003-156	LINK	FILTER	103-156	LINK		
	S/BK	FILTER	203-060	LINK	FILTER	103-060	LINK		
	S/BK	FILTER	203-156	LINK	FILTER	103-156	LINK		

TABLE BF

ADD THE FOLLOWING CABLING WHEN A SM IS EQUIPPED WITH A LUI (J5D004AB-1)									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B1	S-BK	ED5D732-15,GR19	F/F	TS 177-020	54	F/F	TS 177-072	4	'A' BUS 10 GA
	S-BK	ED5D732-15,GR19	F/F	TS 177-114	54	F/F	TS 177-166	4	'B' BUS
	S-BK	ED5D732-15,GR20	F/F	TS 177-020	4	FILTER	003-060	LINK	'A' BUS
	S-BK	ED5D732-15,GR21	F/F	TS 177-072	54	FILTER	203-060	LINK	'A' BUS
	S-BK	ED5D732-15,GR22	F/F	TS 177-114	4	FILTER	003-156	LINK	'B' BUS
	S-BK	ED5D732-15,GR23	F/F	TS 177-166	54	FILTER	203-156	LINK	'B' BUS

TABLE BG

REMOVE THE FOLLOWING FAN ALARM MULT WIRING BETWEEN LTP0, SMC1 AND AND LTP2									
FEATURE	COLOR	TYPE	FROM			TO			REMARKS
			EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B2	G	FAN	PWB 011-011	6	FAN	PWB 111-011	26	26GA	
	G	FAN	PWB 111-011	26	FAN	PWB 211-011	6		
	G/G-W	FAN	PWB 011-011	25	FAN	PWB 111-011	25	P/O G/G-W PAIR	
	G/G-W	FAN	PWB 111-011	25	FAN	PWB 211-011	25		
	G-W/G	FAN	PWB 011-011	17	FAN	PWB 111-011	17	P/O G/G-W PAIR	
	G-W/G	FAN	PWB 111-011	17	FAN	PWB 211-011	17		

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TABLE BH

ADD THE FOLLOWING -48V/RTN PWR CABLES FOR NEW 6-FAN FAN UNIT (J5D003BN-2)										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B2	R	ED5D732-15,GR1	FAN	TS 152	T5	F/F	TS-114	53	FAN E	
	R-BK		FAN	TS 152	T4	F/F	TS-114	52	FUSE POS 18T	
	R		FAN	TS 152	T10	F/F	TS-114	43	FAN F	
	R-BK		FAN	TS 152	T9	F/F	TS-114	42	FUSE POS 17T	
	R		FAN	TS 152	T15	F/F	TS-114	41	FAN G	
	R-BK		FAN	TS 152	T14	F/F	TS-114	40	FUSE POS 17B	
B2	R	ED5D732-15,GR2	FAN	TS 060	T5	F/F	TS-020	53	FAN A	
	R-BK		FAN	TS 060	T4	F/F	TS-020	52	FUSE POS 6T	
	R		FAN	TS 060	T10	F/F	TS-020	43	FAN B	
	R-BK		FAN	TS 060	T9	F/F	TS-020	42	FUSE POS 5T	
	R		FAN	TS 060	T15	F/F	TS-020	41	FAN C	
	R-BK		FAN	TS 060	T14	F/F	TS-020	40	FUSE POS 5B	

TABLE BJ

ADD THE FOLLOWING FAN LOOP ALARM CABLING										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	NET NAME	
B2	W-O	ED5D732-15,G15	CONN	115-011	J4 (400)	FUSE UNIT	TS 011-011	6	3 BRES1	PAIR
	W-BL				FUSE UNIT	TS 011-011	17	3 BSCNO	PAIR	
	BL-W				FUSE UNIT	TS 011-011	25	3 BSCNR		
	O-W				FUSE UNIT	TS 011-011	27	3 BRESA		

TABLE BK

ADD THE FOLLOWING LW FOR FAN ALARM LOOP (26GA DP-3 WIRE)										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B2	G		FUSE UNIT	TS 011-011	6	FUSE UNIT	TS 211-011	6		
	W-G/G		FUSE UNIT	TS 011-011	17	FUSE UNIT	TS 211-011	17	PAIR	
	G/W-G		FUSE UNIT	TS 011-011	25	FUSE UNIT	TS 211-011	25		

TABLE BL

REMOVE -48V /RTN FROM DSU (J5D003AE-1) POS 71										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B3	R		BP	171-102	LUG	FUSE UNIT	110-160	4T	PAIR FUSE POS 21T	
	R-BK		BP	171-098	LUG	FUSE UNIT	110-148	6T	SG 1	
B4	R		BP	171-012	LUG	FUSE UNIT	110-074	4T	PAIR FUSE POS 9T	
	R-BK		BP	171-008	LUG	FUSE UNIT	110-062	6T	SG 0	

TABLE BM

ADD THE FOLLOWING -48V/RTN POWER CABLES FOR DSU (J5D003AE-1) POS 71										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B3	R	ED5D732-15,GR17	BP	171-102	LUG	F/F	177 TS-166	23	PAIR, FUSE POS 21T,	
	R-BK		BP	171-098	LUG	F/F	177 TS-166	22	SG 1	
B4	R	ED5D732-15,GR18	BP	171-012	LUG	F/F	TS 177-072	23	PAIR, FUSE POS 9T	
	R-BK		BP	171-008	LUG	F/F	177 TS-072	22	SG 0	

TABLE BN

REMOVE THE FOLLOWING -48V/RTN AND ALM SC/SD WIRING FOR THE IMPU (J5D003AA-2) IN POS 34 & 43										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B5	R		BP	143-177	LUG 006	FUSE UNIT	110-112	4T	PAIR FUSE POS 13T	
	R-BK		BP	143-177	LUG 002	FUSE UNIT	110-124	10T		

*** CONTINUED ***

** CONTINUED **
TABLE BN

	R	BP	143-016	LUG	FUSE UNIT	110-026	4T	PAIR	FUSE POS 1T
	R-BK	BP	143-012	LUG	FUSE UNIT	110-038	10T		
	R	BP	134-174	LUG	FUSE UNIT	110-112	4B	PAIR	FUSE POS 13B
	R-BK	BP	134-178	LUG	FUSE UNIT	110-124	10B		
	R	BP	134-101	LUG	FUSE UNIT	110-050	4T	PAIR	FUSE POS 5T
	R-BK	BP	134-104	LUG	FUSE UNIT	110-038	2T		
	R	BP	134-012	LUG	FUSE UNIT	110-026	4B	PAIR	FUSE POS 1B
	R-BK	BP	134-008	LUG	FUSE UNIT	110-038	10B		
	BL1W	CONN	134-056	102	FAN	TS 113-049	19	26GA	
	BL2W					TS 113-049	25		
	G1W					TS 113-049	14		
	G2W					TS 113-049	27		
	O1W	CONN	134-128	102	FAN	TS 113-049	15	26GA	
	O2W					TS 113-049	27		
	BR1W					TS 113-049	1		
	BR2W					TS 113-049	25		
B5	BR	CONN	160-008	145	FUSE UNIT	TS 110-090	3	26GA	
	G					TS 110-090	12		
	O	CONN	151-032	145	FUSE UNIT	TS 110-090	1	26GA	
	S					TS 110-090	5		
	BL					TS 110-090	7		
	W					TS 110-090	13		
B5	BR	CONN	160-176	145	FUSE UNIT	TS 110-096	3	26GA	
	G					TS 110-096	12		
	O	CONN	151-156	145	FUSE UNIT	TS 110-096	1	26GA	
	S					TS 110-096	5		
	BL					TS 110-096	7		

*** CONTINUED ***

** CONTINUED **
TABLE BN

	W					TS 110-096	13		
--	---	--	--	--	--	------------	----	--	--

TABLE BP

REMOVE THE FOLLOWING -48V/RTN AND ALARM WIRING FOR THE TSIU (J5D003AB) IN POS 60 & 52									
FEATURE	COLOR	FROM			TO			REMARKS	
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B6	R	BP	160-174	LUG	FUSE UNIT	110-136	2T	PAIR	FUSE POS 19T
	R-BK	BP	160-178	LUG	FUSE UNIT	110-148	10T		
	R	BP	160-016	LUG	FUSE UNIT	110-050	2T	PAIR	FUSE POS 7T
	R-BK	BP	160-012	LUG	FUSE UNIT	110-062	10T		
	R	BP	152-174	LUG	FUSE UNIT	110-112	3T	PAIR	FUSE POS 14T
	R-BK	BP	152-178	LUG	FUSE UNIT	110-124	8T		
	R	BP	152-012	LUG	FUSE UNIT	110-026	3T	PAIR	FUSE POS 2T
	R-BK	BP	152-016	LUG	FUSE UNIT	110-038	8T		
	BR	CONN	160-176	145	FUSE UNIT	TS 110-096	3	26GA	
	G					TS 110-096	12		
	O	CONN	151-156	145	FUSE UNIT	TS 110-096	1	26GA	
	S					TS 110-096	5		
	BL					TS 110-096	7		
	W					TS 110-096	13		

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TABLE BQ

ADD THE FOLLOWING -48V/RTN FOR SERVICE GROUP 0 OF NEW MCTU2 (J5D003LA-1) MOUNTED IN POS 26									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B9	R	ED5D732-15,G4	BP	126-166	06 LUG	F/F	177TS-0722	03	FUSE POS 7T
	R-BK	(SG 0)	BP	126-166	02 LUG	F/F	177 TS-072	02	
	R		BP	126-007	05 LUG	F/F	177 TS-020	15	
B09	R	ED5D732-15,G6	BP	126-176	013 LUG	F/F	177 TS-072	43	FUSE POS 11T (DSU FUNCTION)
	R-BK	(SG 0)	BP	126-176	09 LUG	F/F	177 TS-072	42	

TABLE BR

ADD THE FOLLOWING -48V/RTN FOR SERVICE GROUP 1 OF NEW MCTU2 (J5D003LA-1) MOUNTED IN POS 34 (GROUND STRAPS BETWEEN SHELVES)									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B13	R	ED5D732-15,GR3	BP	134-166	06 LUG	F/F	177 TS-166	03	FUSE POS 19T
	R-BK	(SG 1)	BP	134-166	02 LUG	F/F	177 TS-166	02	
	R		BP	134-007	05 LUG	F/F	177 TS-114	15	
B13	R	ED5D732-15,GR 5	BP	134-176	013 LUG	F/F	177 TS-166	43	FUSE POS 23T (DSU FUNCTION)
	R-BK	(SG 1)	BP	134-176	09 LUG	F/F	177 TS-166	42	
B15	BK	ED5D507-17,G10	BP	130-016	0B1	BP	129-016	058	GROUND STRAPS BETWEEN SG 0 & SG1 SHELVES
	BK	(8 STRAPS)	BP	130-024	0B1	BP	129-024	058	
	BK		BP	130-060	0B1	BP	129-060	058	
	BK		BP	130-078	0B1	BP	129-078	058	
	BK		BP	130-104	0B1	BP	129-104	058	
	BK		BP	130-122	0B1	BP	129-122	058	
	BK		BP	130-148	0B1	BP	129-148	058	
	BK		BP	130-166	0B1	BP	129-166	058	

TABLE BS

ADD THE FOLLOWING FAN/MCTU2 SCAN & DIST CABLE										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B9		ED5D732-15,G14	CONN	15-011	200	CONN	26-033	000	SG 0	BOTH CONN'S ON 'FROM' END PLUG INTO FAN
B13		ED5D732-15,G14	CONN	15-011	300	CONN	34-033	000	SG 1	

TABLE BT

ADD THE FOLLOWING MCTU2 ALARM CABLES									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
B9		ED5D732-15,G12	CONN	77-043	101	CONN	26-033	004	SG 0
						CONN	26-155	000	
B13		ED5D732-15,G13	CONN	77-137	101	CONN	34-033	004	SG 1
						CONN	35-155	000	

TABLE BU

REMOVE EXISTING OPTIC FIBERS FROM TSIU/IMPU AND TAG AS SHOWN, FOR RECONNECTING ON MCTU2										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B7		OPTIC FIBER	TSIU	153-056	100	MCTU2	126-156	332	(XMIT)A	
							126-156	345	(REC)A	SG0
							126-156	313	(XMIT)B	A 056 B 032
							126-156	300	(REC)B	
B11						MCTU2	134-156	332	(XMIT)A	
							134-156	345	(REC)A	SG1
							134-156	313	(XMIT)B	B 156 A 132
							134-156	300	(REC)B	

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TABLE BV

RECONNECT THE OPTIC FIBER CABLES
THESE ARE THE SAME FIBERS USED ON OLD TSIU/IMPU
(THEY ARE TAGGED FROM WHEN REMOVED FROM OLD UNITS)

FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
B8		OPTIC FIBER	MCTU2	126-156	332		CM 1		(XMIT)A	MAKE SURE MCTU2 HAS CORRECT XMIT & REC CONNECTORS BEFORE TERMINATING CABLES
			SG 0	126-156	345		CM 1		(REC)A	
				126-156	313		CM 1		(XMIT)B	
				126-156	300		CM 1		(REC)B	
B12			MCTU2	134-156	332		CM 1		(XMIT)A	
			SG 1	134-156	345		CM 1		(REC)A	
				134-156	313		CM 1		(XMIT)B	
				134-156	300		CM 1		(REC)B	

TABLE BW

PIDB AND PICB PORT CONVERSIONS FOR J5D003C-1 CABINETS

TSIU(3AB-1) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
00	0	152 -088 -104	126 -130 -101	0	00
00	1	152 -088 -108	126 -130 -107	1	00
00	2	152 -088 -113	126 -130 -114	2	00
00	3	152 -088 -117	126 -130 -120	3	00
00	4	152 -088 -121	126 -130 -301	4	00
00	5	152 -080 -132	126 -130 -307	5	00
00	6	152 -080 -136	126 -130 -314	6	00
00	7	152 -080 -140	126 -130 -320	7	00
00	8	152 -080 -304	126 -130 -133	8	00
00	9	152 -080 -308	126 -130 -138	9	00
00	10	152 -080 -313	126 -130 -146	10	00
00	11	152 -080 -317	126 -130 -152	11	00
00	12	152 -080 -321	126 -130 -333	12	00
00	13	152 -080 -332	126 -130 -339	13	00
00	14	152 -080 -336	126 -130 -346	14	00
00	15	152 -080 -340	126 -130 -352	15	00

TABLE BW

PIDB PORT CONVERSION FOR BUS 01 IN J5D003C-1 CABINET

TSIU(3AB) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
01	0	160 -080 -104	126 -138 -101	0	01
01	1	160 -080 -108	126 -138 -107	1	01
01	2	160 -080 -113	126 -138 -114	2	01
01	3	160 -080 -117	126 -138 -120	3	01
01	4	160 -080 -121	126 -138 -301	4	01
01	5	160 -072 -132	126 -138 -307	5	01
01	6	160 -072 -136	126 -138 -314	6	01
01	7	160 -072 -140	126 -138 -320	7	01
01	8	160 -072 -304	126 -138 -133	8	01
01	9	160 -072 -308	126 -138 -138	9	01
01	10	160 -072 -313	126 -138 -146	10	01
01	11	160 -072 -317	126 -138 -152	11	01
01	12	160 -072 -321	126 -138 -333	12	01
01	13	160 -072 -332	126 -138 -339	13	01
01	14	160 -072 -336	126 -138 -346	14	01
01	15	160 -072 -340	126 -138 -352	15	01

TABLE BW

PIDB PORT CONVERSION FOR BUS 10 IN J5D003C-1 CABINET

TSIU(3AB) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
10	0	152 -100 -104	134 -130 -101	0	10
10	1	152 -100 -108	134 -130 -107	1	10
10	2	152 -100 -113	134 -130 -114	2	10
10	3	152 -100 -117	134 -130 -120	3	10
10	4	152 -100 -121	134 -130 -301	4	10
10	5	152 -108 -132	134 -130 -307	5	10
10	6	152 -108 -136	134 -130 -314	6	10
10	7	152 -108 -140	134 -130 -320	7	10
10	8	152 -108 -304	134 -130 -133	8	10
10	9	152 -108 -308	134 -130 -138	9	10
10	10	152 -108 -313	134 -130 -146	10	10
10	11	152 -108 -317	134 -130 -152	11	10
10	12	152 -108 -321	134 -130 -333	12	10
10	13	152 -108 -332	134 -130 -339	13	10
10	14	152 -108 -336	134 -130 -346	14	10
10	15	152 -108 -340	134 -130 -352	15	10

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET D8 OF 57	

TABLE BW

PIDB PORT CONVERSION FOR BUS 11 IN J5D003C-1 CABINET					
TSIU(3AB) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
11	0	160 -108 -104	134 -138 -101	0	11
11	1	160 -108 -108	134 -138 -107	1	11
11	2	160 -108 -113	134 -138 -114	2	11
11	3	160 -108 -117	134 -138 -120	3	11
11	4	160 -108 -121	134 -138 -301	4	11
11	5	160 -116 -132	134 -138 -307	5	11
11	6	160 -116 -136	134 -138 -314	6	11
11	7	160 -116 -140	134 -138 -320	7	11
11	8	160 -116 -304	134 -138 -133	8	11
11	9	160 -116 -308	134 -138 -138	9	11
11	10	160 -116 -313	134 -138 -146	10	11
11	11	160 -116 -317	134 -138 -152	11	11
11	12	160 -116 -321	134 -138 -333	12	11
11	13	160 -116 -332	134 -138 -339	13	11
11	14	160 -116 -336	134 -138 -346	14	11
11	15	160 -116 -340	134 -138 -352	15	11

TABLE BW

PICB PORT CONVERSION FOR BUS 00 IN J5D003C-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
00	0	143 -077 -051	126 -096 -151	0	00
00	1	143 -083 -051	126 -096 -145	1	00
00	2	143 -089 -051	126 -096 -138	2	00
00	3	143 -077 -045	126 -096 -132	3	00
00	4	143 -083 -045	126 -096 -119	4	00
00	5	143 -089 -045	126 -096 -113	5	00
00	6	143 -077 -038	126 -096 -106	6	00
00	7	143 -083 -038	126 -096 -100	7	00
00	8	143 -089 -038	126 -096 -351	8	00
00	9	143 -077 -032	126 -096 -345	9	00
00	10	143 -083 -032	126 -096 -338	10	00
00	11	143 -089 -032	126 -096 -332	11	00
00	12	143 -077 -019	126 -096 -319	12	00
00	13	143 -083 -019	126 -096 -313	13	00
00	14	143 -089 -019	126 -096 -306	14	00
00	15	143 -077 -013	126 -096 -300	15	00
00	16	143 -083 -013	126 -096 -551	16	00
00	17	143 -089 -013	126 -096 -545	17	00
00	18	143 -077 -006	126 -096 -538	18	00
00	19	143 -083 -006	126 -096 -532	19	00
00	20	143 -089 -006	126 -096 -519	20	00
00	21	143 -077 -000	126 -096 -513	21	00
00	22	143 -083 -000	126 -096 -506	22	00

TABLE BW

PICB PORT CONVERSION FOR BUS 01 IN J5D003C-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
01	0	143 -045 -051	126 -104 -151	0	01
01	1	143 -051 -051	126 -104 -145	1	01
01	2	143 -053 -051	126 -104 -138	2	01
01	3	143 -045 -045	126 -104 -132	3	01
01	4	143 -051 -045	126 -104 -119	4	01
01	5	143 -053 -045	126 -104 -113	5	01
01	6	143 -045 -038	126 -104 -106	6	01
01	7	143 -051 -038	126 -104 -100	7	01
01	8	143 -053 -038	126 -104 -351	8	01
01	9	143 -045 -032	126 -104 -345	9	01
01	10	143 -051 -032	126 -104 -338	10	01
01	11	143 -053 -032	126 -104 -332	11	01
01	12	143 -045 -019	126 -104 -319	12	01
01	13	143 -051 -019	126 -104 -313	13	01
01	14	143 -053 -019	126 -104 -306	14	01
01	15	143 -045 -013	126 -104 -300	15	01
01	16	143 -051 -013	126 -104 -551	16	01
01	17	143 -053 -013	126 -104 -545	17	01
01	18	143 -045 -006	126 -104 -538	18	01
01	19	143 -051 -006	126 -104 -532	19	01
01	20	143 -053 -006	126 -104 -519	20	01
01	21	143 -045 -000	126 -104 -513	21	01
01	22	143 -051 -000	126 -104 -506	22	01

TABLE BW

PICB PORT CONVERSION FOR BUS 10 IN J5D003C-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
10	0	143 -111 -051	134 -096 -151	0	10
10	1	143 -105 -051	134 -096 -145	1	10
10	2	143 -099 -051	134 -096 -138	2	10
10	3	143 -111 -045	134 -096 -132	3	10
10	4	143 -105 -045	134 -096 -119	4	10
10	5	143 -099 -045	134 -096 -113	5	10
10	6	143 -111 -038	134 -096 -106	6	10
10	7	143 -105 -038	134 -096 -100	7	10
10	8	143 -099 -038	134 -096 -351	8	10
10	9	143 -111 -032	134 -096 -345	9	10
10	10	143 -105 -032	134 -096 -338	10	10
10	11	143 -099 -032	134 -096 -332	11	10
10	12	143 -111 -019	134 -096 -319	12	10
10	13	143 -105 -019	134 -096 -313	13	10
10	14	143 -099 -019	134 -096 -306	14	10
10	15	143 -111 -013	134 -096 -300	15	10
10	16	143 -105 -013	134 -096 -551	16	10
10	17	143 -099 -013	134 -096 -545	17	10
10	18	143 -111 -006	134 -096 -538	18	10
10	19	143 -105 -006	134 -096 -532	19	10
10	20	143 -099 -006	134 -096 -519	20	10
10	21	143 -111 -000	134 -096 -513	21	10
10	22	143 -105 -000	134 -096 -506	22	10

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET D9 OF 57	

TABLE BW

PICB PORT CONVERSION FOR BUS 11 IN J5D003C-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
11	0	143 -143 -051	134 -104 -151	0	11
11	1	143 -137 -051	134 -104 -145	1	11
11	2	143 -135 -051	134 -104 -138	2	11
11	3	143 -143 -045	134 -104 -132	3	11
11	4	143 -137 -045	134 -104 -119	4	11
11	5	143 -135 -045	134 -104 -113	5	11
11	6	143 -143 -038	134 -104 -106	6	11
11	7	143 -137 -038	134 -104 -100	7	11
11	8	143 -135 -038	134 -104 -351	8	11
11	9	143 -143 -032	134 -104 -345	9	11
11	10	143 -137 -032	134 -104 -338	10	11
11	11	143 -135 -032	134 -104 -332	11	11
11	12	143 -143 -019	134 -104 -319	12	11
11	13	143 -137 -019	134 -104 -313	13	11
11	14	143 -135 -019	134 -104 -306	14	11
11	15	143 -143 -013	134 -104 -300	15	11
11	16	143 -137 -013	134 -104 -551	16	11
11	17	143 -135 -013	134 -104 -545	17	11
11	18	143 -143 -006	134 -104 -538	18	11
11	19	143 -137 -006	134 -104 -532	19	11
11	20	143 -135 -006	134 -104 -519	20	11
11	21	143 -143 -000	134 -104 -513	21	11
11	22	143 -137 -000	134 -104 -506	22	11

TABLE BX

INTERCABINET COMMUNICATION MULT						
ADD THE FOLLOWING CABLES						
FEATURE	ED GROUP NO.	CABLE DESIG	FROM		TO	
			EQUIP LOC	CAB	EQUIP LOC	CAB
27	ED5D732-35, G1	JX159X	073-J2	MSG 0	()-()-701	IM() IMC1
27	ED5D732-35, G2	JX161X	()-()-501	IM() IMC1	()-()-701	IM() IMC1

TABLE BY

CABINET: LTP0		
UNIT MTG POS (EQL) 78,69,60,52		
PIDB BUS 00	PORTS	
	0,1,12,13,14,15,	ADD 7 GR NO'S TO EXISTING GR NO.
	2,3,8,9,10,11	ADD 6 GR NO'S TO EXISTING GR NO.
	4,5,6,7	ADD 8 GR NO'S TO EXISTING GR NO.
PIDB BUS 01	PORTS	
	0,1	ADD 9 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 7 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 8 GR NO'S TO EXISTING GR NO.
PIDB BUS 10	PORTS	
	6,7,10,11	ADD 6 GR NO'S TO EXISTING GR NO.
	14,15	ADD 5 GR NO'S TO EXISTING GR NO.
	PORTS	
0,1,2,3,6,7,12,13,14,15	ADD 5 GR NO'S TO EXISTING GR NO.	
4,5	ADD 6 GR NO'S TO EXISTING GR NO.	
8,9,10,11	ADD 4 GR NO'S TO EXISTING GR NO.	
PIDB BUS 11	PORTS	
	0,1	ADD 7 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 5 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 6 GR NO'S TO EXISTING GR NO.
PICB BUS 00	PORTS	
	6,7,10,11	ADD 4 GR NO'S TO EXISTING GR NO.
	14,15	ADD 3 GR NO'S TO EXISTING GR NO.
	PORTS	
0,1,10,11,12,13,22	ADD 4 GR NO'S TO EXISTING GR NO.	
2,3,4,5,6,7,14,15	ADD 5 GR NO'S TO EXISTING GR NO.	
8,9,16,17,18,19,20,21	ADD 3 GR NO'S TO EXISTING GR NO.	

*** CONTINUED ***

** CONTINUED **

CABINET: LTP0		
UNIT MTG POS (EQL) 43,34,26		
PIDB BUS 00	PORTS	
	0,1	ADD 5 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 3 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 4 GR NO'S TO EXISTING GR NO.
PIDB BUS 01	PORTS	
	6,7,10,11	ADD 2 GR NO'S TO EXISTING GR NO.
	14,15	ADD 1 GR NO TO EXISTING GR NO.
	PORTS	
0,1	ADD 3 GR NO'S TO EXISTING GR NO.	
2,3,12,13	ADD 1 GR NO'S TO EXISTING GR NO.	
4,5,8,9	ADD 2 GR NO'S TO EXISTING GR NO.	
6,7,10,11	USE SAME GR NO.	
14,15	SUBTRACT 1 GR NO FROM EXISTING GR NO.	
PIDB BUS 10	PORTS	
	0,1	ADD 3 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 1 GR NO TO EXISTING GR NO.
	4,5,8,9	ADD 2 GR NO'S TO EXISTING GR NO.
PIDB BUS 00	PORTS	
	6,7,10,11	USE SAME GR NO.
	14,15	SUBTRACT 1 GR NO FROM EXISTING GR NO.
	PORTS	
0,1	ADD 3 GR NO'S TO EXISTING GR NO.	
2,3,12,13	ADD 1 GR NO TO EXISTING GR NO.	
4,5,8,9	ADD 2 GR NO'S TO EXISTING GR NO.	
6,7,10,11	USE SAME GR NO.	
14,15	SUBTRACT 1 GR NO FROM EXISTING GR NO.	

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** CONTINUED **

TABLE BY BUS 11		
0,1		ADD 1 GR NO TO EXISTING GR NO.
2,3,12,13		SUBTRACT 1 GR NO FROM EXISTING GR NO.
4,5,8,9		USE SAME GR NO.
6,7,10,11		SUBTRACT 2 GR NO'S FROM EXISTING GR NO.
14,15		SUBTRACT 3 GR NO'S FROM EXISTING GR NO.
PICB BUS 00		
PORTS		
0,1		ADD 2 GR NO'S TO EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		ADD 3 GR NO'S TO EXISTING GR NO.
6,7,14,15		ADD 5 GR NO'S TO EXISTING GR NO.
10,11,12,13,22		ADD 4 GR NO'S TO EXISTING GR NO.
PICB BUS 01		
PORTS		
0,1		ADD 3 GR NO'S TO EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		ADD 4 GR NO'S TO EXISTING GR NO.
6,7,14,15		ADD 6 GR NO'S TO EXISTING GR NO.
10,11,12,13,22		ADD 5 GR NO'S TO EXISTING GR NO.
PICB BUS 10		
PORTS		
0,1		USE EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		ADD 1 GR NO TO EXISTING GR NO.
6,7,14,15		ADD 3 GR NO TO EXISTING GR NO.
10,11,12,13,22		ADD 2 GR NO'S TO EXISTING GR NO.
PICB BUS 11		
PORTS		
0,1		SUBTRACT 1 GR NO FROM EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		USE EXISTING GR NO.
6,7,14,15		ADD 2 GR NO'S TO EXISTING GR NO.
10,11,12,13,22		ADD 1 GR NO TO EXISTING GR NO.

TABLE BZ

CABINET: LTP 2,3,4		
UNIT MTG POS (EQL) 78,69,60,52		
PIDB BUS 00	PORTS	
0,1,2,3,12,13,14,15		ADD 5 GR NO'S TO EXISTING GR NO.
4,5,6,7		ADD 6 GR NO'S TO EXISTING GR NO.
8,9,10,11		ADD 4 GR NO'S TO EXISTING GR NO.
PIDB BUS 01	PORTS	
0,1		ADD 7 GR NO'S TO EXISTING GR NO.

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TABLE BZ		
2,3,6,7,10,11		ADD 4 GR NO'S TO EXISTING GR NO.
4,5,8,9		ADD 6 GR NO'S TO EXISTING GR NO.
12,13		ADD 5 GR NO'S TO EXISTING GR NO.
14,15		ADD 3 GR NO'S TO EXISTING GR NO.
PIDB BUS 10		
PORTS		
0,1,2,3,6,7,12,13,14,15		ADD 3 GR NO'S TO EXISTING GR NO.
4,5		ADD 4 GR NO'S TO EXISTING GR NO.
8,9,10,11		ADD 2 GR NO'S TO EXISTING GR NO.
PIDB BUS 11		
PORTS		
0,1		ADD 5 GR NO'S TO EXISTING GR NO.
2,3,12,13		ADD 3 GR NO'S TO EXISTING GR NO.
4,5,8,9		ADD 4 GR NO'S TO EXISTING GR NO.
6,7,10,11		ADD 2 GR NO'S TO EXISTING GR NO.
14,15		ADD 1 GR NO'S TO EXISTING GR NO.
PICB BUS 00		
PORTS		
0,1,10,11,12,13,22		ADD 4 GR NO'S TO EXISTING GR NO.
2,3,4,5,6,7,14,15		ADD 5 GR NO'S TO EXISTING GR NO.
8,9,16,17,18,19,20,21		ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 01		
PORTS		
0,1,10,11,12,13,22		ADD 4 GR NO'S TO EXISTING GR NO.
2,3,4,5,6,7,14,15		ADD 5 GR NO'S TO EXISTING GR NO.
8,9,16,17,18,19,20,21		ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 10		
PORTS		
0,1,10,11,12,13,22		ADD 2 GR NO'S TO EXISTING GR NO.
2,3,4,5,6,7,14,15		ADD 3 GR NO'S TO EXISTING GR NO.
8,9,16,17,18,19,20,21		ADD 1 GR NO TO EXISTING GR NO.
PICB BUS 11		
PORTS		
0,1,10,11,12,13,22		ADD 3 GR NO'S TO EXISTING GR NO.
2,3,4,5,6,7,14,15		ADD 4 GR NO'S TO EXISTING GR NO.
8,9,16,17,18,19,20,21		ADD 2 GR NO'S TO EXISTING GR NO.

*** CONTINUED ***

** CONTINUED **

TABLE BZ		
CABINET: LTP 2,3,4		
UNIT MTG POS (EQL) 43,34,26		
PIDB BUS 00	PORTS	
0,1		ADD 3 GR NO'S TO EXISTING GR NO.
2,3,12,13		ADD 1 GR NO TO EXISTING GR NO.
4,5,8,9		ADD 2 GR NO'S TO EXISTING GR NO.
6,7,10,11		USE EXISTING GR NO.
14,15		SUBTRACT 1 GR NO FROM EXISTING GR NO.
PIDB BUS 01		
PORTS		
0,1		ADD 1 GR NO TO EXISTING GR NO.
2,3,12,13		SUBTRACT 1 GR NO FROM EXISTING GR NO.
4,5,8,9		USE EXISTING GR NO.
6,7,10,11		SUBTRACT 2 GR NO'S FROM EXISTING GR NO.
14,15		SUBTRACT 3 GR NO'S FROM EXISTING GR NO.
PIDB BUS 10		
PORTS		
0,1		ADD 1 GR NO TO EXISTING GR NO.
2,3,12,13		SUBTRACT 1 GR NO FROM EXISTING GR NO.
4,5,8,9		USE EXISTING GR NO.
6,7,10,11		SUBTRACT 2 GR NO'S FROM EXISTING GR NO.
14,15		SUBTRACT 3 GR NO'S FROM EXISTING GR NO.
PIDB BUS 11		
PORTS		
0,1		SUBTRACT 1 GR NO FROM EXISTING GR NO.
2,3,12,13		SUBTRACT 3 GR NO'S FROM EXISTING GR NO.
4,5,8,9		SUBTRACT 2 GR NO'S FROM EXISTING GR NO.
6,7,10,11		SUBTRACT 4 GR NO'S FROM EXISTING GR NO.
14,15		SUBTRACT 5 GR NO'S FROM EXISTING GR NO.
PICB BUS 00		
PORTS		
0,1		ADD 2 GR NO'S TO EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		ADD 3 GR NO'S TO EXISTING GR NO.
6,7,14,15		ADD 5 GR NO'S TO EXISTING GR NO.
10,11,12,13,22		ADD 4 GR NO'S TO EXISTING GR NO.
PICB BUS 01		
PORTS		
0,1		ADD 1 GR NO TO EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		ADD 2 GR NO'S TO EXISTING GR NO.
6,7,14,15		ADD 4 GR NO'S TO EXISTING GR NO.
10,11,12,13,22		ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 10		
PORTS		
0,1		USE EXISTING GR NO.
2,3,4,5,8,9,16,17,18,19,20,21		ADD 1 GR NO TO EXISTING GR NO.

*** CONTINUED ***

** CONTINUED **

TABLE BZ

	17,18,19,20,21	
	6,7,14,15	ADD 3 GR NO TO EXISTING GR NO.
	10,11,12,13,22	ADD 2 GR NO'S TO EXISTING GR NO.
PICB BUS 11	PORTS	
	0,1	ADD 1 GR NO TO EXISTING GR NO.
	2,3,4,5,8,9,16, 17,18,19,20,21	ADD 2 GR NO'S TO EXISTING GR NO.
	6,7,14,15	ADD 4 GR NO'S TO EXISTING GR NO.
	10,11,12,13,22	ADD 3 GR NO'S TO EXISTING GR NO.

TABLE CA

REMOVE THE FOLLOWING SMC CABINET LED WIRING									
FEATURE	COLOR	TYPE	FROM			TO			REMARKS
			EQUIP LOC	TERM		TYPE	EQUIP LOC	TERM	
A1	BR	FAN	CONN 111-011	000		SKT	168-034F	2(*)	26GA (*) MAY HAVE TO DISCONNECT AND RECONNECT A WIRE ON TOP OF THIS LEAD ED5D503-15,G150
	BL					SKT	168-154	1(*)	
	G					SKT	168-154	2(*)	
	O	F/F	CONN 168-043	310		SKT	168-002F	2	ED5D507-15,G21 (ONLY UNPLUG THE CONNECTER, THIS CA IS REUSED)
	BL					SKT	168-186R	1	
	BR	F/F	CONN 168-137	310	F/F	CONN 168-043		110	ED5D507-15,G20 (THIS CABLE WILL BE REUSED) SEE TBL CB

TABLE C

INTERUNIT RIBBON CABLING			
ED5D651-25			
(UPDATE BUSES)			
6-FOOT CABINETS (E/W MCTU2,J5D003LA-1)			
PIN EQL'S			GROUP NO
128-173-045	TO	119-173-045	01
128-173-032	TO	119-173-032	02
128-153-045	TO	119-153-045	03
128-153-032	TO	119-153-032	04
128-153-013	TO	119-153-013	05
128-153-000	TO	119-153-000	06
128-042-545	TO	119-042-545	07
128-042-532	TO	119-042-532	08
128-042-513	TO	119-042-513	09
128-042-500	TO	119-042-500	10
128-033-045	TO	119-033-045	11
128-033-032	TO	119-033-032	12
6-FOOT CABINET(E/W IMPU,J5D003AA-2)			
PIN EQL'S			GROUP NO.
136-173-045	TO	128-173-045	01
136-173-032	TO	128-173-032	02
136-153-045	TO	128-153-045	03
136-153-032	TO	128-153-032	04
136-153-013	TO	128-153-013	05
136-153-000	TO	128-153-000	06
136-042-545	TO	128-042-545	07
136-042-532	TO	128-042-532	08
136-042-513	TO	128-042-513	09
136-042-500	TO	128-042-500	10
136-033-045	TO	128-033-045	11
136-033-032	TO	128-033-032	12

TABLE CB

ADD THE FOLLOWING SMC CABINET LED WIRING									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A1	BR	ED5D507-15,G20	CONN	168-137	310	CONN	168-043	110	
A1	BL	ED5D507-15,G21	CONN	168-043	310	LED	SKT 68-000F	2	A SPLICE MAY BE REQUIRED
	O					LED	SKT 68-186R	1	
	BR	ED5D503-15,160	CONN	111-011	600	LED	SKT 034F	2	LED CABLE FROM J5D003BN FAN UNIT
	BL					LED	SKT 154	1	
	G					LED	SKT 154	2	

TABLE CC

REMOVE THE FOLLOWING FUSE/FILTER ALM WIRING									
FEATURE	COLOR	TYPE	FROM			TO			REMARKS
			EQUIP LOC	TERM		TYPE	EQUIP LOC	TERM	
A1	BL,O	F/F	CONN 068-043	301	F/F	CONN 168-043	(*)303		'A' BUS F/F ALM MULT EXAMPLE IS FOR A SM WITH 4 LTP CABINETS.
	BL,O	F/F	CONN 168-043	(*)303	F/F	CONN 268-043	301		
	BL,O	F/F	CONN 268-043	301	F/F	CONN 368-043	301		(*) DISCONNECT CABLE ONLY AT F/F IN BAY 1
	BL,O	F/F	CONN 368-043	301	F/F	CONN 468-043	301		
	BL,O	F/F	CONN 068-137	301	F/F	CONN 168-137	(*)303		'B' BUS F/F ALM MULT EXAMPLE IS FOR A SM WITH 4 LTP CABINETS
	BL,O	F/F	CONN 168-137	(*)303	F/F	CONN 269-137	301		
	BL,O	F/F	CONN 268-137	301	F/F	CONN 368-137	301		(*) DISCONNECT CABLE AT F/F IN BAY 1 ONLY
	BL,O	F/F	CONN 368-137	301	F/F	CONN 468 137	301		

NOTE: IF SM CONTAINS ONLY 3AU-1/3AU-2 F/F,UNPLUG CA'S IN BAY 1 AND PLUG SAME CA'S AFTER F/F HAS BEEN CHANGED.IF ANY OTHER CONDITION EXSITS USE TABLES AM AND BM ON SHEETS E6 AND E8 OF THIS DRAWING(ED5D731-30)

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET OF	D12 57

TABLE CD

ADD THE FOLLOWING FUSE ALM CABLING									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A1		EXISTING OR ED5D731-30 TABLES AM & BM	RECONNECT EXISTING F/F ALM MULTS FROM TABLE CC. IF ANY OTHER CONDITION EXIST, THE LINE ENG HAS TO ORDER NEW CABLES FROM TABLES 'AM' AND 'BM' ON SHEETS E6 AND E8 OF THIS DRAWING (ED5D731-30)						

TABLE CE

REMOVE THE FOLLOWING WIRES WHEN A SM IS EQUIPPED WITH A LUI (J5D004AB-1)									
FEATURE	COLOR	FROM			TO			REMARKS	
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
A1								IF UNIT HAS FEED THRU TERMINALS-REMOVE 10GA STRAPS BETWEEN TERMINALS OF EACH FUSE PANEL (LOCATED IN SMC1 CABNET) AND TO EACH PRECEDING AND SUCCEEDING UNIT (LOCATED IN LTP 0 AND LTP 2)	
								IF UNIT HAS NO FEED THRU TERMINALS- REMOVE 10GA STRAPS BETWEEN TERMINALS 04 AND 54 OF EACH UNIT (LOCATED IN SMC1 CABNET) AND EACH CABLE CONNECTED TO PRECEDING AND SUCCEEDING UNITS (LOCATED IN LTP 0 AND LTP 2). USE ED5D651-15 FOR REFERENCE.	

TABLE CF

ADD THE FOLLOWING CABLING WHEN A SM IS EQUIPPED WITH A LUI (J5D004AB-1)									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A1	S-BK		F/F		54	F/F		4	'A' BUS TO 'A' BUS AND 'B' BUS TO 'B' BUS
								6	USE ED5D651-15 FOR REQUIRED GROUND LOOP MULT. FIG'S EN THRU IG CONTAINING ALL POSSIBLE GROUNDING MULTS.

TABLE CG

REMOVE THE FOLLOWING FAN ALARM MULT WIRING BETWEEN LTP0, SMC1 AND LTP2									
FEATURE	COLOR	FROM			TO			REMARKS	
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
A2	G	FAN	PWB 011-011	6	FAN	PWB 111-011	26	26GA	
	G	FAN	PWB 111-011	26	FAN	PWB 211-011	6		
	G/G-W	FAN	PWB 011-011	25	FAN	PWB 111-011	25	P/O G/G-W PAIR	
	G/G-W	FAN	PWB 111-011	25	FAN	PWB 211-011	25		
	G-W/G	FAN	PWB 011-011	17	FAN	PWB 111-011	17	P/O G/G-W PAIR	
	G-W/G	FAN	PWB 111-011	17	FAN	PWB 211-011	17		

NOTE: IF LTP0 AND LTP2 HAVE FANS OTHER THAN J5D003BE-1 (E/W ED5D195-30), REMOVE ANY CABLES OR WIRING BETWEEN SMC, LTP0 & LTP2. ALL NEW CABLING AND/OR WIRING IS REQUIRED.

TABLE CH

ADD THE FOLLOWING -48V/RTN PWR CABLES FOR NEW 6-FAN FAN UNIT (J5D003BN-2)									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A2	R	ED5D503-15,G1003	FAN	111 TS 152	T5	F/F	168 TS-114	53	FAN E
	R-BK		FAN	111 TS 152	T4	F/F	168 TS-114	52	FUSE POS 18T
	R		FAN	111 TS 152	T10	F/F	168 TS-114	43	FAN F
	R-BK		FAN	111 TS 152	T9	F/F	168 TS-114	42	FUSE POS 17T
	R		FAN	111 TS 152	T15	F/F	168 TS-114	41	FAN G
	R-BK		FAN	111 TS 152	T14	F/F	168 TS-114	40	FUSE POS 17B
A2	R	ED5D503-15,G1002	FAN	111 TS 060	T5	F/F	168 TS-020	53	FAN A
	R-BK		FAN	111 TS 060	T4	F/F	168 TS-020	52	FUSE POS 6T
	R		FAN	111 TS 060	T10	F/F	168 TS-020	43	FAN B
	R-BK		FAN	111 TS 060	T9	F/F	168 TS-020	42	FUSE POS 5T
	R		FAN	111 TS 060	T15	F/F	168 TS-020	41	FAN C
	R-BK		FAN	111 TS 060	T14	F/F	168 TS-020	40	FUSE POS 5B

TABLE CJ

ADD THE FOLLOWING FAN LOOP ALARM CABLING WHEN LTP0 IS E/W J5D003BE-1 (E/W WITH ED5D195-30 ONLY)										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	NET NAME	PAIR
A2	W-O	ED5D621-20,G9	CONN	111-011	J4 (400)	FUSE UNIT	TS 011-011	6	3 BRES1	PAIR
	W-BL					FUSE UNIT	TS 011-011	17	3 BSCNO	PAIR
	BL-W					FUSE UNIT	TS 011-011	25	3 BSCNR	
	O-W					FUSE UNIT	TS 011-011	27	3 BRESA	

NOTE: IF LTP0 IS EQUIPPED WITH ANY FAN UNIT OTHER THAN J5D003BE-1,L1 (HARDWARE) THEN USE ED5D651-15 TO ORDER REQUIRED CABLE(S).

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BT13

DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

TABLE CK

ADD THE FOLLOWING LW FOR FAN ALARM LOOP WHEN LTP0 & LTP2 ARE E/W J5D003BE-1 (E/W ED5D195-30 ONLY) (26GA DP-3 WIRE)

FEATURE	COLOR	FROM			TO			REMARKS
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A2	G	FAN UNIT	TS 011-011	6	FAN UNIT	TS 211-011	6	PAIR
	W-G/G	FAN UNIT	TS 011-011	17	FAN UNIT	TS 211-011	17	
	G/W-G	FAN UNIT	TS 011-011	25	FAN UNIT	TS 211-011	25	

NOTE: IF LTP0 OR LTP2 IS E/W ANY FAN UNIT OTHER THAN J5D003BE-1 (HARDWIRE) THEN USE ED5D651-15 TO ORDER REQUIRED CABLE(S).

TABLE CL

REMOVE -48V /RTN FROM DSU (J5D003AE-1) POS 62

FEATURE	COLOR	FROM			TO			REMARKS
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A3	R	BP	162-102	LUG	FUSE UNIT	168 TS 02-166	43	PAIR FUSE POS 23T SG 1 PART OF ED5D507-15,G9
	R-BK	BP	162-098	LUG	FUSE UNIT	168 TS 02-166	42	
A4	R	BP	162-012	LUG	FUSE UNIT	168 TS 02-072	43	PAIR FUSE POS 11T SG 0 PART OF ED5D507-15,G8
	R-BK	BP	162-008	LUG	FUSE UNIT	168 TS 02-072	42	

TABLE CL-1

REMOVE PICB/PIDB CABLES FROM DSU (J5D003AE-1) POS 62

FEATURE	FROM			TO		
	TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM
	PICB1	162-024	151	PICB1	136-111	051
	PICD0	162-024	351	PICB0	136-077	051
	PICB1	162-114	151	PICB1	136-105	051
	PICB0	162-114	351	PICB0	135-083	051
	PIDB1	162-024	102	PIDB1	145-132	307
	PIDB0	162-024	302	PIDB1	145-056	307
	PIDB1	162-114	102	PIDB1	145-132	302
	PIDB0	162-114	302	PIDB0	145-056	302
DEDICATED DATA PORT, MULTI MOD OFFICE WITH FAST PUMP						
	PIDB1	153-072	340	PIDB1	128-096	153
	PIDB0	153-116	340	PIDB0	128-096	353

TABLE CM

ADD THE FOLLOWING -48V/RTN POWER CABLES FOR DSU (J5D003AE-1) POS 62

FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A3	R	ED5D503-15,G1053	BP	162-102	LUG	F/F	168 TS 02-166	41	PAIR, FUSE POS 23B SG 1
	R-BK		BP	162-098	LUG	F/F	168 TS 02-166	40	
A4	R	ED5D503-15,G1052	BP	162-012	LUG	F/F	168 TS 02-072	41	PAIR, FUSE POS 11B SG 0
	R-BK		BP	162-008	LUG	F/F	168 TS 02-072	22	

TABLE CM-1

PICB AND PIDB CABLING REQUIRED FOR EXISTING DSU (J5D5003AE) UNIT

IF EXISTING DSU IS TO BE REUSED, THEN PICB AND PIDB CABLING MUST BE ORDERED BY LINE ENGINEER USING ED5D651-10.

TABLE CN

REMOVE THE FOLLOWING -48V/RTN AND ALM SC/SD WIRING FOR THE IMPU (J5D003AA-2) IN POS 28 & 36									
FEATURE	COLOR	FROM			TO			REMARKS	
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
A5	R	BP	136-177	LUG 006	FUSE UNIT	168 TS 02-114	03	PAIR FUSE POS 13T	
	R-BK	BP	136-177	LUG 002	FUSE UNIT	168 TS 02-114	02		
	R	BP	136-016	LUG	FUSE UNIT	168 TS 02-020	03	PAIR FUSE POS 1T	
	R-BK	BP	136-012	LUG	FUSE UNIT	168 TS 02-020	02		
	R	BP	128-174	LUG	FUSE UNIT	168 TS 02-114	01	PAIR FUSE POS 13B	
	R-BK	BP	128-178	LUG	FUSE UNIT	168 TS 02-114	00		
	R	BP	128-101	LUG	FUSE UNIT	168 TS 02-072	33	PAIR FUSE POS 10T	
	R-BK	BP	128-104	LUG	FUSE UNIT	168 TS 02-072	32		
	R	BP	128-012	LUG	FUSE UNIT	168 TS 02-020	01	PAIR FUSE POS 1B	
	R-BK	BP	128-008	LUG	FUSE UNIT	168 TS 02-020	00		
A5	BL1W	CONN	128-056	102	FAN	TS 111-049	19	26GA	
	BL2W					TS 111-049	25		
	G1W					TS 111-049	14		
	G2W					TS 111-049	27		
	O1W	CONN	128-128	102	FAN	TS 111-049	15		26GA
	O2W					TS 111-049	27		
	BR1W					TS 111-049	1		
BR2W					TS 111-049	25			
A5		CONN (3)	153-008	145	FUSE UNIT CONN1	168-043	101	ED5D507-15,G10	
		CONN (2)	145-176	145					
		CONN (3)	153-176	145	FUSE UNIT	168-137	101		ED5D507-15,G11
		CONN (2)	145-156	145					

TABLE CP

REMOVE THE FOLLOWING -48V/RTN AND ALARM WIRING FOR THE TSIU (J5D003AB) IN POS 53 & 45								
FEATURE	COLOR	FROM			TO			REMARKS
		TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A6	R	BP	153-174	LUG	FUSE UNIT	168 TS 02-166	03	PAIR FUSE POS 19T
	R-BK	BP	153-178	LUG	FUSE UNIT	168 TS 02-166	02	
	R	BP	153-016	LUG	FUSE UNIT	168 TS 02-072	03	PAIR FUSE POS 7T
	R-BK	BP	153-012	LUG	FUSE UNIT	168 TS 02-072	02	
	R	BP	145-174	LUG	FUSE UNIT	168 TS 02-114	13	PAIR FUSE POS 14T
	R-BK	BP	145-178	LUG	FUSE UNIT	168 TS 02-114	12	
	R	BP	145-012	LUG	FUSE UNIT	168 TS 02-020	13	PAIR FUSE POS 2T
	R-BK	BP	145-016	LUG	FUSE UNIT	168 TS 02-020	12	
		CONN (2)	145-032	145	FUSE UNIT	168 TS 043	101	ED5D507-15,G10
		CONN (3)	153-008	145				

TABLE CQ

ADD THE FOLLOWING -48V/RTN FOR SERVICE GROUP 0 OF NEW MCTU2 (J5D003LA-1) MOUNTED IN POS 19									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A9	R	ED5D503-15,G1008	BP	119-166	06 LUG	F/F	168 TS-166	03	FUSE POS 7T
	R-BK	(SG 0)	BP	119-166	02 LUG	F/F	168 TS-166	02	
	R		BP	119-007	05 LUG	F/F	168 TS-020	15	FUSE POS 1X
	R-BK		BP	119-007	01 LUG	F/F	168 TS-020	14	
A9	R	ED5D503-15,G1006	BP	119-176	013 LUG	F/F	168 TS-166	43	FUSE POS 11T (DSU FUNCTION)
	R-BK	(SG 0)	BP	119-176	09 LUG	F/F	168 TS-166	42	

TABLE CR

ADD THE FOLLOWING -48V/RTN FOR SERVICE GROUP 1 OF NEW MCTU2 (J5D003LA-1) MOUNTED IN POS 28 (GROUND STRAPS BETWEEN SHELVES)										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
A13	R	ED5D503-15,G1009	BP	128-166	06 LUG	F/F	168 TS-166	03	FUSE POS 19T (SG 1)	
	R-BK		BP	128-166	02 LUG	F/F	168 TS-166	02		
	R		BP	128-007	05 LUG	F/F	168 TS-114	15	FUSE POS 9X	
	R-BK		BP	128-007	01 LUG	F/F	168 TS-114	14		
A13	R	ED5D503-15,G1007	BP	128-176	013 LUG	F/F	168 TS-166	43	FUSE POS 23T (DSU FUNCTION) (SG 1)	
	R-BK		BP	128-176	09 LUG	F/F	168 TS-166	42		
A15	BK	ED5D507-17,G10 (8 STRAPS)	BP	124-016	0B1	BP	123-016	058	GROUND STRAPS BETWEEN SG 0 & SG1 SHELVES	
	BK		BP	124-024	0B1	BP	123-024	058		
	BK		BP	124-060	0B1	BP	123-060	058		
	BK		BP	124-078	0B1	BP	123-078	058		
	BK		BP	124-104	0B1	BP	123-104	058		
	BK		BP	124-122	0B1	BP	123-122	058		
	BK		BP	124-148	0B1	BP	123-148	058		
	BK		BP	124-166	0B1	BP	123-166	058		

TABLE CS

ADD THE FOLLOWING FAN/MCTU2 SCAN & DIST CABLE										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
A9		ED5D503-15,G1010	CONN	111-011	200	CONN	119-033	000	SG 0	BOTH CONN'S ON 'FROM' END PLUG INTO FAN
A13		ED5D503-15,G1011	CONN	111-011	300	CONN	128-033	000	SG 1	

TABLE CT

ADD THE FOLLOWING MCTU2 ALARM CABLES									
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM	
A9		ED5D503-15,G1014	CONN	168-043	101	CONN	119-033	004	SG 0
			CONN			CONN	119-155	000	
A13		ED5D503-15,G1015	CONN	168-137	101	CONN	128-033	004	SG 1
			CONN			CONN	128-155	000	

TABLE CU

REMOVE EXISTING OPTIC FIBERS FROM TSIU/IMPV AND TAG AS SHOWN, FOR RECONNECTING ON MCTU2										
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS	
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM		
A7		OPTIC FIBER	TSIU	153-056	100	MCTU2	119-156	332	(XMIT)A	
				153-056	113		119-156	345	(REC)A	SG0
				153-032	100		119-156	313	(XMIT)B	A 056 B 032
				153-032	113		119-156	300	(REC)B	
A11				153-132	100	MCTU2	128-156	332	(XMIT)A	
				153-132	113		128-156	345	(REC)A	SG1
				153-156	100		128-156	313	(XMIT)B	B 156 A 132
				153-156	113		128-156	300	(REC)B	

TABLE CV

RECONNECT THE OPTIC FIBER CABLES THESE ARE THE SAME FIBERS USED ON OLD TSIU/IMPV (THEY ARE TAGGED FROM WHEN REMOVED FROM OLD UNITS)											
FEATURE	COLOR	ED GR NO.	FROM			TO			REMARKS		
			TYPE	EQUIP LOC	TERM	TYPE	EQUIP LOC	TERM			
A8		OPTIC FIBER	MCTU2	119-156	332		CM 1		(XMIT)A	MAKE SURE MCTU2 HAS CORRECT XMIT & REC CONNECTORS BEFORE TERMINATING CABLES	
				SG 0	119-156	345		CM 1			(REC)A
					119-156	313		CM 1			(XMIT)B
					119-156	300		CM 1			(REC)B
A12			MCTU2	128-156	332		CM 1		(XMIT)A		
				SG 1	128-156	345		CM 1		(REC)A	
					128-156	313		CM 1		(XMIT)B	
					128-156	300		CM 1		(REC)B	

TABLE CW

PIDB AND PICB PORT CONVERSIONS FOR J5D003E-1 CABINETS					
TSIU(3AB-1) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
00	0	145 -088 -104	119 -130 -101	0	00
00	1	145 -088 -108	119 -130 -107	1	00
00	2	145 -088 -113	119 -130 -114	2	00
00	3	145 -088 -117	119 -130 -120	3	00
00	4	145 -088 -121	119 -130 -301	4	00
00	5	145 -080 -132	119 -130 -307	5	00
00	6	145 -080 -136	119 -130 -314	6	00
00	7	145 -080 -140	119 -130 -320	7	00
00	8	145 -080 -304	119 -130 -133	8	00
00	9	145 -080 -308	119 -130 -138	9	00
00	10	145 -080 -313	119 -130 -146	10	00
00	11	145 -080 -317	119 -130 -152	11	00
00	12	145 -080 -321	119 -130 -333	12	00
00	13	145 -080 -332	119 -130 -339	13	00
00	14	145 -080 -336	119 -130 -346	14	00
00	15	145 -080 -340	119 -130 -352	15	00
PIDB PORT CONVERSION FOR BUS 01 IN J5D003E-1 CABINET					
TSIU(3AB) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
01	0	153 -080 -104	119 -138 -101	0	01
01	1	153 -080 -108	119 -138 -107	1	01
01	2	153 -080 -113	119 -138 -114	2	01
01	3	153 -080 -117	119 -138 -120	3	01
01	4	153 -080 -121	119 -138 -301	4	01
01	5	153 -072 -132	119 -138 -307	5	01
01	6	153 -072 -136	119 -138 -314	6	01
01	7	153 -072 -140	119 -138 -320	7	01
01	8	153 -072 -304	119 -138 -133	8	01
01	9	153 -072 -308	119 -138 -138	9	01
01	10	153 -072 -313	119 -138 -146	10	01
01	11	153 -072 -317	119 -138 -152	11	01
01	12	153 -072 -321	119 -138 -333	12	01
01	13	153 -072 -332	119 -138 -339	13	01
01	14	153 -072 -336	119 -138 -346	14	01
01	15	153 -072 -340	119 -138 -352	15	01

*** CONTINUED ***

** CONTINUED **

PIDB PORT CONVERSION FOR BUS 10 IN J5D003E-1 CABINET					
TSIU(3AB) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
10	0	145 -100 -104	128 -130 -101	0	10
10	1	145 -100 -108	128 -130 -107	1	10
10	2	145 -100 -113	128 -130 -114	2	10
10	3	145 -100 -117	128 -130 -120	3	10
10	4	145 -100 -121	128 -130 -301	4	10
10	5	145 -108 -132	128 -130 -307	5	10
10	6	145 -108 -136	128 -130 -314	6	10
10	7	145 -108 -140	128 -130 -320	7	10
10	8	145 -108 -304	128 -130 -133	8	10
10	9	145 -108 -308	128 -130 -138	9	10
10	10	145 -108 -313	128 -130 -146	10	10
10	11	145 -108 -317	128 -130 -152	11	10
10	12	145 -108 -321	128 -130 -333	12	10
10	13	145 -108 -332	128 -130 -339	13	10
10	14	145 -108 -336	128 -130 -346	14	10
10	15	145 -108 -340	128 -130 -352	15	10
PIDB PORT CONVERSION FOR BUS 11 IN J5D003E-1 CABINET					
TSIU(3AB) PIDB PORTS			MCTU2(3LA) PIDB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
11	0	153 -108 -104	128 -138 -101	0	11
11	1	153 -108 -108	128 -138 -107	1	11
11	2	153 -108 -113	128 -138 -114	2	11
11	3	153 -108 -117	128 -138 -120	3	11

*** CONTINUED ***

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PICB PORT CONVERSION FOR BUS 00 IN J5D003E-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
00	0	136 -077 -051	119 -096 -151	0	00
00	1	136 -083 -051	119 -096 -145	1	00
00	2	136 -089 -051	119 -096 -138	2	00
00	3	136 -077 -045	119 -096 -132	3	00
00	4	136 -083 -045	119 -096 -119	4	00
00	5	136 -089 -045	119 -096 -113	5	00
00	6	136 -077 -038	119 -096 -106	6	00
00	7	136 -083 -038	119 -096 -100	7	00
00	8	136 -089 -038	119 -096 -351	8	00
00	9	136 -077 -032	119 -096 -345	9	00
00	10	136 -083 -032	119 -096 -338	10	00
00	11	136 -089 -032	119 -096 -332	11	00
00	12	136 -077 -019	119 -096 -319	12	00
00	13	136 -083 -019	119 -096 -313	13	00
00	14	136 -089 -019	119 -096 -306	14	00
00	15	136 -077 -013	119 -096 -300	15	00

*** CONTINUED ***

** CONTINUED **

PICB PORT CONVERSION FOR BUS 01 IN J5D003E-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
01	0	136 -045 -051	119 -104 -151	0	01
01	1	136 -051 -051	119 -104 -145	1	01
01	2	136 -053 -051	119 -104 -138	2	01
01	3	136 -045 -045	119 -104 -132	3	01
01	4	136 -051 -045	119 -104 -119	4	01
01	5	136 -053 -045	119 -104 -113	5	01
01	6	136 -045 -038	119 -104 -106	6	01
01	7	136 -051 -038	119 -104 -100	7	01
01	8	136 -053 -038	119 -104 -351	8	01
01	9	136 -045 -032	119 -104 -345	9	01
01	10	136 -051 -032	119 -104 -338	10	01
01	11	136 -053 -032	119 -104 -332	11	01
01	12	136 -045 -019	119 -104 -319	12	01
01	13	136 -051 -019	119 -104 -313	13	01
01	14	136 -053 -019	119 -104 -306	14	01
01	15	136 -045 -013	119 -104 -300	15	01
01	16	136 -051 -013	119 -104 -551	16	01
01	17	136 -053 -013	119 -104 -545	17	01
01	18	136 -045 -006	119 -104 -538	18	01
01	19	136 -051 -006	119 -104 -532	19	01
01	20	136 -053 -006	119 -104 -519	20	01

*** CONTINUED ***

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET OF	D17 57

** CONTINUED **

TABLE CW

BUS	PORT	EQL	EQL	PORT	BUS
01	21	136 -045 -000	119 -104 -513	21	01
01	22	136 -051 -000	119 -104 -506	22	01
PICB PORT CONVERSION FOR BUS 10 IN J5D003E-1 CABINET					
SMPU(3AA-2) PICB PORTS			MCTU2(3LA) PICB PORTS		
BUS	PORT	EQL	EQL	PORT	BUS
10	0	136 -111 -051	128 -096 -151	0	10
10	1	136 -105 -051	128 -096 -145	1	10
10	2	136 -099 -051	128 -096 -138	2	10
10	3	136 -111 -045	128 -096 -132	3	10
10	4	136 -105 -045	128 -096 -119	4	10
10	5	136 -099 -045	128 -096 -113	5	10
10	6	136 -111 -038	128 -096 -106	6	10
10	7	136 -105 -038	128 -096 -100	7	10
10	8	136 -099 -038	128 -096 -351	8	10
10	9	136 -111 -032	128 -096 -345	9	10
10	10	136 -105 -032	128 -096 -338	10	10
10	11	136 -099 -032	128 -096 -332	11	10
10	12	136 -111 -019	128 -096 -319	12	10
10	13	136 -105 -019	128 -096 -313	13	10
10	14	136 -099 -019	128 -096 -306	14	10
10	15	136 -111 -013	128 -096 -300	15	10
10	16	136 -105 -013	128 -096 -551	16	10
10	17	136 -099 -013	128 -096 -545	17	10
10	18	136 -111 -006	128 -096 -538	18	10
10	19	136 -105 -006	128 -096 -532	19	10
10	20	136 -099 -006	128 -096 -519	20	10
10	21	136 -111 -000	128 -096 -513	21	10
10	22	136 -105 -000	128 -096 -506	22	10

PICB PORT CONVERSION FOR BUS 11 IN J5D003E-1 CABINET

BUS	PORT	EQL	EQL	PORT	BUS
11	0	136 -143 -051	128 -104 -151	0	11
11	1	136 -137 -051	128 -104 -145	1	11
11	2	136 -135 -051	128 -104 -138	2	11
11	3	136 -143 -045	128 -104 -132	3	11
11	4	136 -137 -045	128 -104 -119	4	11
11	5	136 -135 -045	128 -104 -113	5	11
11	6	136 -143 -038	128 -104 -106	6	11
11	7	136 -137 -038	128 -104 -100	7	11
11	8	136 -135 -038	128 -104 -351	8	11
11	9	136 -143 -032	128 -104 -345	9	11
11	10	136 -137 -032	128 -104 -338	10	11
11	11	136 -135 -032	128 -104 -332	11	11
11	12	136 -143 -019	128 -104 -319	12	11
11	13	136 -137 -019	128 -104 -313	13	11
11	14	136 -135 -019	128 -104 -306	14	11
11	15	136 -143 -013	128 -104 -300	15	11
11	16	136 -137 -013	128 -104 -551	16	11
11	17	136 -135 -013	128 -104 -545	17	11
11	18	136 -143 -006	128 -104 -538	18	11
11	19	136 -137 -006	128 -104 -532	19	11
11	20	136 -135 -006	128 -104 -519	20	11
11	21	136 -143 -000	128 -104 -513	21	11
11	22	136 -137 -000	128 -104 -506	22	11

** CONTINUED **

TABLE CW

BUS	PORT	EQL	EQL	PORT	BUS
11	0	136 -143 -051	128 -104 -151	0	11
11	1	136 -137 -051	128 -104 -145	1	11
11	2	136 -135 -051	128 -104 -138	2	11
11	3	136 -143 -045	128 -104 -132	3	11
11	4	136 -137 -045	128 -104 -119	4	11
11	5	136 -135 -045	128 -104 -113	5	11
11	6	136 -143 -038	128 -104 -106	6	11
11	7	136 -137 -038	128 -104 -100	7	11
11	8	136 -135 -038	128 -104 -351	8	11
11	9	136 -143 -032	128 -104 -345	9	11
11	10	136 -137 -032	128 -104 -338	10	11
11	11	136 -135 -032	128 -104 -332	11	11
11	12	136 -143 -019	128 -104 -319	12	11
11	13	136 -137 -019	128 -104 -313	13	11
11	14	136 -135 -019	128 -104 -306	14	11
11	15	136 -143 -013	128 -104 -300	15	11
11	16	136 -137 -013	128 -104 -551	16	11
11	17	136 -135 -013	128 -104 -545	17	11
11	18	136 -143 -006	128 -104 -538	18	11
11	19	136 -137 -006	128 -104 -532	19	11
11	20	136 -135 -006	128 -104 -519	20	11
11	21	136 -143 -000	128 -104 -513	21	11
11	22	136 -137 -000	128 -104 -506	22	11

TABLE CX
 INTERCABINET COMMUNICATION MULT
 SHOULD BE ABLE TO REUSE EXSITING MULT CABLES(SEE ED5D500-21 IF NEW CABLES SHOULD BE REQUIRED)

TABLE CY
 CABINET: LTP0

*** CONTINUED ***

** CONTINUED **

TABLE CY
 UNIT MTG POS (EQL) 62,53,45

PICB BUS	PORTS	ADD GR NO'S TO EXISTING GR NO.
PICB BUS 00	0,1,12,13,14,15,2,3,8,9,10,11,4,5,6,7	ADD 7 GR NO'S TO EXISTING GR NO. ADD 6 GR NO'S TO EXISTING GR NO. ADD 8 GR NO'S TO EXISTING GR NO.
PICB BUS 01	0,1,2,3,12,13,4,5,8,9,6,7,10,11,14,15	ADD 9 GR NO'S TO EXISTING GR NO. ADD 7 GR NO'S TO EXISTING GR NO. ADD 8 GR NO'S TO EXISTING GR NO. ADD 6 GR NO'S TO EXISTING GR NO. ADD 5 GR NO'S TO EXISTING GR NO.
PICB BUS 10	0,1,2,3,6,7,12,13,14,15,4,5,8,9,10,11	ADD 5 GR NO'S TO EXISTING GR NO. ADD 6 GR NO'S TO EXISTING GR NO. ADD 4 GR NO'S TO EXISTING GR NO.
PICB BUS 11	0,1,2,3,12,13,4,5,8,9,6,7,10,11,14,15	ADD 7 GR NO'S TO EXISTING GR NO. ADD 5 GR NO'S TO EXISTING GR NO. ADD 6 GR NO'S TO EXISTING GR NO. ADD 4 GR NO'S TO EXISTING GR NO. ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 00	0,1,10,11,12,13,22,2,3,4,5,6,7,14,15,8,9,16,17,18,19,20,21	ADD 4 GR NO'S TO EXISTING GR NO. ADD 5 GR NO'S TO EXISTING GR NO. ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 01	0,1,10,11,12,13,22,2,3,4,5,6,7,14,15,8,9,16,17,18,19,20,21	ADD 4 GR NO'S TO EXISTING GR NO. ADD 5 GR NO'S TO EXISTING GR NO. ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 10	0,1,10,11,12,13,22,2,3,4,5,6,7,14,15,8,9,16,17,18,19,20,21	ADD 2 GR NO'S TO EXISTING GR NO. ADD 3 GR NO'S TO EXISTING GR NO. ADD 1 GR NO TO EXISTING GR NO.
PICB BUS 11	0,1,10,11,12,13,22,2,3,4,5,6,7,14,15,8,9,16,17,18,19,20,21	ADD 1 GR NO TO EXISTING GR NO.

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TABLE CY		
	22	
	2,3,4,5,6,7,14,15	ADD 2 GR NO'S TO EXISTING GR NO.
	8,9,16,17,18,19,20,21	USE EXISTING GR NO.
CABINET: LTP0		
UNIT MTG POS (EQL) 36,28,19		
PIDB BUS 00	PORTS	
	0,1	ADD 5 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 3 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 4 GR NO'S TO EXISTING GR NO.
	6,7,10,11	ADD 2 GR NO'S TO EXISTING GR NO.
	14,15	ADD 1 GR NO TO EXISTING GR NO.
PIDB BUS 01	PORTS	
	0,1	ADD 3 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 1 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 2 GR NO'S TO EXISTING GR NO.
	6,7,10,11	USE SAME GR NO.
	14,15	SUBTRACT 1 GR NO FROM EXISTING GR NO.
PIDB BUS 10	PORTS	
	0,1	ADD 3 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 1 GR NO TO EXISTING GR NO.
	4,5,8,9	ADD 2 GR NO'S TO EXISTING GR NO.
	6,7,10,11	USE SAME GR NO.
	14,15	SUBTRACT 1 GR NO FROM EXISTING GR NO.
PIDB BUS 11	PORTS	
	0,1	ADD 1 GR NO TO EXISTING GR NO.
	2,3,12,13	SUBTRACT 1 GR NO FROM EXISTING GR NO.
	4,5,8,9	USE SAME GR NO.
	6,7,10,11	SUBTRACT 2 GR NO'S FROM EXISTING GR NO.
	14,15	SUBTRACT 3 GR NO'S FROM EXISTING GR NO.
PICB BUS 00	PORTS	
	0,1	ADD 2 GR NO'S TO EXISTING GR NO.
	2,3,4,5,8,9,16,17,18,19,20,21	ADD 3 GR NO'S TO EXISTING GR NO.
	6,7,14,15	ADD 5 GR NO'S TO EXISTING GR NO.
	10,11,12,13,22	ADD 4 GR NO'S TO EXISTING GR NO.
PICB BUS 01	PORTS	
	0,1	ADD 3 GR NO'S TO EXISTING GR NO.

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** CONTINUED **

TABLE CY		
	2,3,4,5,8,9,16,17,18,19,20,21	ADD 4 GR NO'S TO EXISTING GR NO.
	6,7,14,15	ADD 6 GR NO'S TO EXISTING GR NO.
	10,11,12,13,22	ADD 5 GR NO'S TO EXISTING GR NO.
PICB BUS 10	PORTS	
	0,1	USE EXISTING GR NO.
	2,3,4,5,8,9,16,17,18,19,20,21	ADD 1 GR NO TO EXISTING GR NO.
	6,7,14,15	ADD 3 GR NO TO EXISTING GR NO.
	10,11,12,13,22	ADD 2 GR NO'S TO EXISTING GR NO.
PICB BUS 11	PORTS	
	0,1	SUBTRACT 1 GR NO FROM EXISTING GR NO.
	2,3,4,5,8,9,16,17,18,19,20,21	USE EXISTING GR NO.
	6,7,14,15	ADD 2 GR NO'S TO EXISTING GR NO.
	10,11,12,13,22	ADD 1 GR NO TO EXISTING GR NO.

TABLE CZ

TABLE CZ		
CABINET: LTP 2,3,4		
UNIT MTG POS (EQL) 62,53,45		
PIDB BUS 00	PORTS	
	0,1,2,3,12,13,14,15	ADD 5 GR NO'S TO EXISTING GR NO.
	4,5,6,7	ADD 6 GR NO'S TO EXISTING GR NO.
	8,9,10,11	ADD 4 GR NO'S TO EXISTING GR NO.
PIDB BUS 01	PORTS	
	0,1	ADD 7 GR NO'S TO EXISTING GR NO.
	2,3,6,7,10,11	ADD 4 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 6 GR NO'S TO EXISTING GR NO.
	12,13	ADD 5 GR NO'S TO EXISTING GR NO.
	14,15	ADD 3 GR NO'S TO EXISTING GR NO.
PIDB BUS 10	PORTS	
	0,1,2,3,6,7,12,13,14,15	ADD 3 GR NO'S TO EXISTING GR NO.
	4,5	ADD 4 GR NO'S TO EXISTING GR NO.
	8,9,10,11	ADD 2 GR NO'S TO EXISTING GR NO.
PIDB BUS 11	PORTS	
	0,1	ADD 5 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 3 GR NO'S TO EXISTING GR NO.
	4,5,8,9	ADD 4 GR NO'S TO EXISTING GR NO.

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** CONTINUED **

TABLE CZ		
	6,7,10,11	ADD 2 GR NO'S TO EXISTING GR NO.
	14,15	ADD 1 GR NO'S TO EXISTING GR NO.
PICB BUS 00	PORTS	
	0,1,10,11,12,13,22	ADD 4 GR NO'S TO EXISTING GR NO.
	2,3,4,5,6,7,14,15	ADD 5 GR NO'S TO EXISTING GR NO.
	8,9,16,17,18,19,20,21	ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 01	PORTS	
	0,1,10,11,12,13,22	ADD 4 GR NO'S TO EXISTING GR NO.
	2,3,4,5,6,7,14,15	ADD 5 GR NO'S TO EXISTING GR NO.
	8,9,16,17,18,19,20,21	ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 10	PORTS	
	0,1,10,11,12,13,22	ADD 2 GR NO'S TO EXISTING GR NO.
	2,3,4,5,6,7,14,15	ADD 3 GR NO'S TO EXISTING GR NO.
	8,9,16,17,18,19,20,21	ADD 1 GR NO TO EXISTING GR NO.
PICB BUS 11	PORTS	
	0,1,10,11,12,13,22	ADD 3 GR NO'S TO EXISTING GR NO.
	2,3,4,5,6,7,14,15	ADD 4 GR NO'S TO EXISTING GR NO.
	8,9,16,17,18,19,20,21	ADD 2 GR NO'S TO EXISTING GR NO.
CABINET: LTP 2,3,4		
UNIT MTG POS (EQL) 36,28,19		
PIDB BUS 00	PORTS	
	0,1	ADD 3 GR NO'S TO EXISTING GR NO.
	2,3,12,13	ADD 1 GR NO TO EXISTING GR NO.
	4,5,8,9	ADD 2 GR NO'S TO EXISTING GR NO.
	6,7,10,11	USE EXISTING GR NO.
	14,15	SUBTRACT 1 GR NO FROM EXISTING GR NO.
PIDB BUS 01	PORTS	
	0,1	ADD 1 GR NO TO EXISTING GR NO.
	2,3,12,13	SUBTRACT 1 GR NO FROM EXISTING GR NO.
	4,5,8,9	USE EXISTING GR NO.
	6,7,10,11	SUBTRACT 2 GR NO'S FROM EXISTING GR NO.

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TABLE CZ	
PIDB BUS 10	14,15 SUBTRACT 3 GR NO'S FROM EXISTING GR NO. PORTS 0,1 ADD 1 GR NO TO EXISTING GR NO. 2,3,12,13 SUBTRACT 1 GR NO FROM EXISTING GR NO. 4,5,8,9 USE EXISTING GR NO. 6,7,10,11 SUBTRACT 2 GR NO'S FROM EXISTING GR NO. 14,15 SUBTRACT 3 GR NO'S FROM EXISTING GR NO.
PIDB BUS 11	PORTS 0,1 SUBTRACT 1 GR NO FROM EXISTING GR NO. 2,3,12,13 SUBTRACT 3 GR NO'S FROM EXISTING GR NO. 4,5,8,9 SUBTRACT 2 GR NO'S FROM EXISTING GR NO. 6,7,10,11 SUBTRACT 4 GR NO'S FROM EXISTING GR NO. 14,15 SUBTRACT 5 GR NO'S FROM EXISTING GR NO.
PICB BUS 00	PORTS 0,1 ADD 2 GR NO'S TO EXISTING GR NO. 2,3,4,5,8,9,16,17,18,19,20,21 ADD 3 GR NO'S TO EXISTING GR NO. 6,7,14,15 ADD 5 GR NO'S TO EXISTING GR NO. 10,11,12,13,22 ADD 4 GR NO'S TO EXISTING GR NO.
PICB BUS 01	PORTS 0,1 ADD 1 GR NO TO EXISTING GR NO. 2,3,4,5,8,9,16,17,18,19,20,21 ADD 2 GR NO'S TO EXISTING GR NO. 6,7,14,15 ADD 4 GR NO'S TO EXISTING GR NO. 10,11,12,13,22 ADD 3 GR NO'S TO EXISTING GR NO.
PICB BUS 10	PORTS 0,1 USE EXISTING GR NO. 2,3,4,5,8,9,16,17,18,19,20,21 ADD 1 GR NO TO EXISTING GR NO. 6,7,14,15 ADD 3 GR NO TO EXISTING GR NO. 10,11,12,13,22 ADD 2 GR NO'S TO EXISTING GR NO.
PICB BUS 11	PORTS 0,1 ADD 1 GR NO TO EXISTING GR NO. 2,3,4,5,8,9,16,17,18,19,20,21 ADD 2 GR NO'S TO EXISTING GR NO. 6,7,14,15 ADD 4 GR NO'S TO EXISTING GR NO. 10,11,12,13,22 ADD 3 GR NO'S TO EXISTING GR NO.

TABLE EA

ECP - TABLE OF CONTENTS

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5ESS SWITCH
CLASS B CHANGE PER
(ED5D731-30)
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TABLE EB

1. GENERAL

1.1 SCOPE

1.1.1 THIS INSTALLATION ENGINEERING CHANGE PROCEDURE (ECP) PROVIDES FOR CONVERSION OF SYSTEMS EQUIPPED WITH SMP1 HARDWARE TO SYSTEMS EQUIPPED WITH SMP20 HARDWARE. THE CONVERSION IS APPLICABLE TO SYSTEMS OPERATING AT GENERIC LEVEL 5E6 OR 5E7 AND EQUIPPED WITH 7' INTERFACE MODULE CONTROL (IMC) CABINETS (J5D003C-1) OR 6' SWITCHING MODULE CONTROL (SMC) CABINETS (J5D003E-1).

1.1.2 THE CONVERSION EFFORT WILL REQUIRE TWO (2) WORKSHIFTS PER AFFECTED SMC/IMC CABINET TO COMPLETE.

*** CONTINUED ***

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TABLE EB

A. THE FIRST WORKSHIFT WILL REQUIRE REPLACEMENT OF THE CABINET FUSE AND FILTER UNIT(S), REPLACEMENT OF THE CABINET 3-FAN FAN UNIT AND THE PHYSICAL MOUNTING OF THE NEW MCTU2 SIDE 0 UNIT. THE SIDE 0 UNIT WILL ALSO BE FUSED AND ALARMED.

B. THE SECOND WORKSHIFT WILL REQUIRE THE CONVERSION OF THE SIDE 0 MCTU2 INTO THE SYSTEM DATABASE, THE ORIGINAL MCTSI EQUIPMENT REMOVED, MCTU2 SIDE 1 HARDWARE INSTALLED, MCTU2 SIDE 1 CONVERSION INTO THE SYSTEM DATABASE AND, FOR 7' CABINET SM, THE REMOVAL OF THE ORIGINAL F/F UNITS.

1.1.3 THE EXISTING EQUIPMENT AFFECTED BY THIS MODIFICATION IS:

J5D003C-1	IMC CABINET (7')
J5D003E-1	SMC CABINET (6')
J5D003AA-2	SMPU MODEL 1
J5D003AB-1	TSI MODEL 1
J5D003AM-1	FUSE PANEL UNIT (7')
J1A053AA-1	FILTER UNIT (7')
J5D003AF-1	3-FAN FAN UNIT (7')
J5D003AU-1	FUSE/FILTER UNIT (6')
J5D003BE-1	3-FAN FAN UNIT (6')

1.2 PURPOSE

1.2.1 THE PURPOSE OF THIS ECP IS TO DESCRIBE A SAFE PROCEDURE FOR THE INSTALLATION OF ED5D731-30 WITH A MINIMUM OF SERVICE DEGRADATION.

1.2.2 THE PROCEDURE IS DESIGNED SPECIFICALLY FOR WORKING OFFICES AND PROVIDES THE STEPS NECESSARY TO REPLACE THE ABOVE EQUIPMENT. THE INSTALLER SHALL MAKE A DETAILED ANALYSIS OF THE PROCEDURE UPON ITS AVAILABILITY.

1.2.3 BEFORE ANY VERIFICATION OR WORK IS STARTED, THIS PROCEDURE SHOULD BE JOINTLY REVIEWED BY INSTALLATION AND THE CUSTOMER REPRESENTATIVE PRIOR TO APPROVAL BY THE CUSTOMER REPRESENTATIVE. IF SOFTWARE CHANGES MUST BE MADE AND ODD OR RC/V INVOKED TO MAKE THE UPDATES, THE CUSTOMER AND INSTALLATION PERSONNEL MUST ALSO JOINTLY REVIEW AND UNDERSTAND THOSE PROCEDURES.

1.3 HARDWARE DESCRIPTION

1.3.1. THE PHYSICAL LAYOUT OF THE MCTU2 IS SHOWN IN FIGURE B OF ED5D731-30. UP TO 6 MEMORY PACKS (TN1374, TN1376 OR TN1661) CAN BE EQUIPPED IN EACH SHELF.

1.3.2 THROUGHOUT THIS PROCEDURE THERE ARE REFERENCES TO "ORIGINAL SM" AND "CONVERTED SM". THESE REFERENCES ARE DEFINED AS FOLLOWS:

- ORIGINAL SM - THE SUBJECT SM TO BE CONVERTED AND CONTAINING IMPU/TSIU (J5D003AA-2/J5D003AB-1) HARDWARE.
- CONVERTED SM - THE SUBJECT SM AFTER IT HAS BEEN CONVERTED TO MCTU2 (J5D003LA-1) HARDWARE.

1.4 DOCUMENT REFERENCES

1.4.1 THE FOLLOWING IS A LIST OF DOCUMENTS THAT SHOULD BE AVAILABLE THE INSTALLER FOR REFERENCE OR TROUBLESHOOTING, IF NEEDED, DURING THE APPLICATION OF THIS ED CHANGE.

ED5D731-30	COPY OF THE ED WHICH THIS ECP ACCOMPANIES
AT&T 235-105-110	SYSTEM MAINTENANCE REQUIREMENTS AND TOOLS (MCC PAGE DISPLAY REFERENCES)
AT&T 235-600-700	5ESS INPUT MESSAGE MANUAL
AT&T 235-600-750	5ESS OUTPUT MESSAGE MANUAL
SD & CD-5D151-01	SCHEMATIC AND CIRCUIT DESCRIPTION OF THE MCTU2 UNIT - MODEL 2
ED-4C249-10	BELLPAK TECH. REQMENTS. FOR NMBRG. &

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
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** CONTINUED **
TABLE EB

LETTERING
METHOD OF PROCEDURE
REQUIRED CIRCUIT PACK HANDLING PROCEDURES
GENERAL EQUIPMENT MARKING PROCEDURES

1.5 GROWTH RECENT CHANGE VIEW FORMS

1.5.1 THE FOLLOWING CUSTOMER SUPPLIED RECENT CHANGE VIEWS WILL BE REQUIRED:

- 19 CLASS OF VIEWS FOR ALL PERIPHERALS THAT ARE EQUIPPED IN THE CONVERSION SM
- 20.4 VIEW FOR ALL DPI(S), IF ANY, EQUIPPED IN THE CONVERSION SM.
- 20.11 VIEW FOR PORT ASSIGNMENT NUMBERS OF PICB,PIDB(S).

THESE CUSTOMER SUPPLIED VIEWS CAN BE USED TO VERIFY THE PICB AND PIDB PORT ASSIGNMENTS FOR THE CONVERSION SM

1.6 SAFE STOP POINTS

1.6.1 THE STEPS IN THE PROCEDURE LABELED "SAFE STOP POINT" ARE POINTS WHERE PROGRESS IN THE EXECUTION OF THE PROCEDURE MAY BE SUSPENDED TEMPORARILY WITHOUT CAUSING DEGRADATION IN THE OPERATION OF THE SWITCH.

*** NOTE: "TEMPORARILY SUSPENDED" MEANS THAT A COFFEE OR LUNCH BREAK, ETC., MAY BE TAKEN. THIS DOES NOT MEAN "END OF WORKSHIFT" AT THIS POINT!!

EXECUTION OF THE PROCEDURE CAN BE HALTED AT ONE OF THESE POINTS ONLY IF PRIOR STEPS HAVE BEEN SUCCESSFULLY COMPLETED.

1.6.2 THE "END OF WORKSHIFT" SAFE STOP POINT IS A PLACE IN THE CONVERSION WHERE THE WORK MAY BE SUSPENDED FOR THAT WORKSHIFT. AT THIS POINT, THE SYSTEM IS STABLE ENOUGH TO PERFORM UNTIL THE NEXT NIGHT'S WORKSHIFT BEGINS.

2. INSTALLERS EQUIPMENT

2.1 TOOL KITS

2.1.1 (TOOL KIT NUMBER, WHEN REQUIRED, WILL BE SHOWN HERE.)

2.2 TEST EQUIPMENT

2.2.1 THE FOLLOWING TEST EQUIPMENT, TOOLS AND SUPPLIES (OR EQUIVALENTS) ARE REQUIRED TO PERFORM THIS PROCEDURE:

- ITE-4447 MULTIMETER
- R-3908 SCREW STARTER
- R-1266 SCREWDRIVER (18") OR EQUIVALENT
- SOFTWARE CONVERSION TOOL

3. PREREQUISITE CONDITIONS

3.1 VERIFY THAT CABINET EQL 19 (6') OR EQL 26 (7') CONTAINS A PLENUM. THIS WILL BE THE LOCATION FOR EQUIPPING MCTU2 SIDE 0 HARDWARE PRIOR TO REMOVING THE ORIGINAL SMP HARDWARE. IF LEVEL 19 (6') OR 26 (7') IS NOT VACANT, THIS CONVERSION PROCEDURE CANNOT BE PERFORMED. REMOVE THE PLENUM ASSEMBLIES. RETAIN THE MOUNTING SCREWS.

3.2 PRIOR TO STARTING A CONVERSION, THE OFFICE MUST BE TESTED TO PROVE ITS VIABILITY. NO UNITS MAY BE SIMPLEX OR CAUSING INTERUPTS. ROUTINE EXERCISES AND AUTOMATICALLY SCHEDULED DIAGNOSTICS
*** CONTINUED ***

** CONTINUED **
TABLE EB

MUST RUN TROUBLE FREE. IF ANY PROBLEMS EXIST IN THE SWITCH, THEY SHOULD BE REVIEWED TO ASSESS THEIR IMPACT ON THE CONVERSION.

3.3 DURING THE CONVERSION PROCEDURE THERE CANNOT BE ANY RECENT CHANGE SESSIONS OR ODDE SESSIONS WHILE THE SOFTWARE CONVERSION TOOL IS EXECUTING. THE RMAS, SCC, ESAC OR ANY OTHER REMOTE ACCESS USERS MUST BE NOTIFIED NOT TO USE THE SYSTEM WHILE THE CONVERSION IS IN PROCESS.

3.4 PRIOR TO BEGINNING THE CONVERSION PROCEDURE, CUSTOMERS THAT ARE CONSIDERED TO BE CRITICAL OR PRIORITY CUSTOMERS ON THE SUBJECT SM (I.E., - POLICE, FIRE, HOSPITAL, ETC.) SHOULD BE NOTIFIED OF THE PENDING CONVERSION. SPECIAL ATTENTION SHOULD BE GIVEN TO MONITORING THEIR ACCESSIBILITY TO THE SYSTEM.

3.5 THIS PROCEDURE IS TO BE USED ONLY WHEN THE SUBJECT S5SS SWITCH SYSTEM IS OPERATING ON GENERIC RELEASE 5E6 OR 5E7.

3.6 VERIFY THAT AN UPDATED BACKUP ODD TAPE IS AVAILABLE ON SITE.

3.7
*** WARNING: VERIFY THAT SPARE FUSES OF THE TYPES USED IN THE PDF AND SMC CABINETS, ARE READILY AVAILABLE IF NEEDED. A SHORTAGE OF THESE FUSES MAY CAUSE SYSTEM DELAYS IF ONE OPERATES.

THE MCTU2 REQUIRES THE SMC CABINET BE EQUIPPED WITH J5D003AU-2 FUSE/FILTER UNITS CONTAINING LISTS 5 AND 6. IF THIS UNIT IS NOT PRESENT, THE EXISTING FUSE/FILTER UNIT WILL HAVE TO BE REPLACED. REFER TO SECTION 4.1 (7') OR TO SECTION 6.1 (6') FOR UNIT REPLACEMENT.

3.8 THE MCTU2 REQUIRES THE SMC CABINET BE EQUIPPED WITH A J5D003BN-2 FAN UNIT. IF THIS IS NOT PRESENT, THE EXISTING 3-FAN FAN UNIT WILL HAVE TO BE REPLACED WITH THE J5D003BN-2 FAN FAN UNIT. REFER TO SECTION 4.2 (7') OR TO SECTION 6.2 (6') FOR UNIT REPLACEMENT.

3.9 BEFORE PERFORMING THE SOFTWARE PORTION OF THE CONVERSION, MCTU2 SIDE 0 MUST BE INSTALLED IN CABINET EQL 19 (6') OR EQL 26 (7'). POSER AND ALARM VERIFICATION MUST HAVE ALSO BEEN PERFORMED.

3.10 RTAC MUST BE CONTACTED AND A REQUEST MADE TO DOWNLOAD THE MCTU2 CONVERSION TOOLS TO THE SUBJECT SWITCH. ONCE THE TOOLS HAVE BEEN DOWNLOADED, IT WILL BE NECESSARY TO MAKE THE PROGRAM EXECUTABLE TO THE SUBJECT SYSTEM. THE FOLLOWING COMMANDS WILL HAVE TO BE INPUTTED TO ACCOMPLISH THIS.

AT THE MCC, ENTER:
EXC:ENVIR:UPROC,FN="/BIN/CHMOD",ARGS="+X"-"/UPDTMP/SMPUTO SMP4";

RESPONSE: PF

3.11 VERIFY THAT THE PROGRAM IS NOW EXECUTABLE BY INPUTTING THE FOLLOWING COMMAND LINE.

AT THE MCC, ENTER:
OP:STATUS,LISTDIR,FN="/UPDTMP/SMPUTOSMP4";

RESPONSE: OP STATUS LISTDIR COMPLETED

THE FOLLOWING IS A SAMPLE OUTPUT OF THE EXPECTED RESULTS:

```

-----
TOTAL 20
1 DRWXRXRX 2 ROOT 64 SEP 29 02:14 .
1 DRWXRXRX 14 ROOT 336 SEP 30 21:18 ..
82 -RWXRXRX 1 ROOT 41472 SEP 29 22:59 SMPUTOSMP4
-----

```

IF THE THREE X'S IN THE FILE PERMISSIONS FOR SMPUTOSMP4 ARE NOT PRESENT, THEN REPEAT THE INPUT COMMAND IN SECTION 3.9.

3.12 EXECUTE THE SOFTWARE CONVERSION TOOL, AS FOLLOWS, USING THE TEST MODE. THIS WILL VERIFY THE PROPER FUNCTIONING OF THE SOFTWARE CONVERSION TOOL IN THE SUBJECT SYSTEM.
*** CONTINUED ***

** CONTINUED **
TABLE EB

*** NOTE: PERFORM THE TEST MODE FOR SIDE 0 FIRST, AND AFTER "TEST COMPLETE", PERFORM IT AGAIN FOR SIDE 1. ***

AT A TLWS, ENTER THE UNIX SHELL BY ENTERING:
RCV:MENU,SH;

RESPONSE: PF

AT THE "#" PROMPT, ENTER:
CD/UPDTMP
THEN SMPUTOSMP4

THERE WILL BE A WELCOME MESSAGE WHEN THE CONVERSION PROGRAM IS ACCESSED AND A QUESTION TO BEGIN THE TEST:
DO YOU WANT THE TEST OR EXECUTION PHASE?
ENTER TEST OR EXEC (OR QUIT) -->

AT THIS TIME ENTER: TEST

RESPONSE: YOU SELECTED "TEST", ARE YOU SURE? (Y OR N) -->

ENTER ACTION REQUEST (SIDE-0, SIDE-1, BKOUT, OR QUIT) -->
(ENTER SIDE-0 OR SIDE-1)

ENTER THE SM NUMBER -->
(ENTER THE SUBJECT CONVERSION SM #).

RESPONSE: EXECUTE SIDE(X) ON SM(Y); IS THIS CORRECT? --> (Y OR N)
(WHERE X = SIDE IN "ACTION REQUEST"; Y = CONVERSION SM #)

ENTER THE SM CABINET HEIGHT (6 OR 7) -->

RESPONSE: YOU SELECTED A _ FT. CABINET, IS THIS CORRECT?
(Y OR N) -->

INPUT CIRCUIT PACK DATA:
WHAT PROCESSOR CORE BOARD IS EQUIPPED IN EQL 119-042?
UN515 OR UN520 -->

OR
WHAT PROCESSOR CORE BOARD IS EQUIPPED IN EQL 126-042?
UN515 OR UN520 -->

(ENTER THE BOARD NUMBER USED IN THE SUBJECT SM.)

RESPONSE: YOU SELECTED A UN5___, IS THIS CORRECT? (Y OR N) -->

ENTER THE MEMORY BOARD TYPE (TN1374, TN1376, TN1661) FOR THE FOLLOWING EQUIPMENT LOCATIONS (TYPE "E" TO END).

119-050 --> 119-058 --> 119-064 -->
126-050 --> 126-058 --> 126-064 -->

*** NOTE: VERIFY WITH THE ORIGINAL SMP THAT THE MEMORY SIZES OF THE SMP AND THE SMP20 MATCH (SHOULD BE 16 MEG). THIS WILL DETERMINE THE NUMBER AND TYPE OF PACK(S) TO BE ENTERED! IF ADDITIONAL MEMORY IS DESIRED, IT MAY BE GROWN AFTER THIS CONVERSION PROCEDURE HAS BEEN COMPLETED SUCCESSFULLY.

(ENTER THE PACK TYPE FOR THE POSITIONS THAT WILL BE EQUIPPED. IF LESS THAN 6 ENTRIES ARE MADE, ENTER AN "E" IN THE NEXT POSITION.)

RESPONSE: MEMORY PACK CONFIGURATION.

BD #	TYPE
----	----
---	TN

IS THIS MEMORY CONFIGURATION CORRECT? (Y OR N) -->

READING RELATIONS FOR SIDE (0 OR 1)
SIDE (0 OR 1) READ COMPLETED SUCCESSFULLY

*** CONTINUED ***

** CONTINUED **
 TABLE EB
 UPDATING RELATIONS FOR SIDE (0 OR 1)
 SIDE (0 OR 1) TEST COMPLETED SUCCESSFULLY

TEST COMPLETE !!!
 WHEN THE MESSAGE "TEST COMPLETE !!!" APPEARS AFTER THE FIRST TIME THROUGH, ENTER "SMPUTOSMPU4" AGAIN AND RUN THE PROGRAM FOR SIDE 1. WHEN THE MESSAGE "TEST COMPLETE !!!" APPEARS AFTER THE SECOND TIME THROUGH, AT THE "#" PROMPT, TYPE A CONTROL-D TO EXIT THE UNIX SHELL.

3.13 PRIOR TO BEGINNING ANY HARDWARE OR CONVERSION WORK, IT IS RECOMMENDED THAT THE CABLES TO BE USED WITH THE CONVERSION BE SORTED AND VERIFIED AND THAT THE NEW UNITS BE VISUALLY VERIFIED.

- LAY THE CABLES IN A CONVENIENT AREA, CHECK CABLE TAGS, CONNECTOR MARKINGS, ETC. IF POSSIBLE, GROUP THEM ACCORDING TO THEIR USE DURING THE CONVERSION.
- PERFORM A VISUAL INSPECTION OF THE NEW UNITS.

A. CHECK THE UNIT STAMPING TO VERIFY THE PROPER UNIT HAS BEEN SENT (FUSE/FILTER, 6-FAN FAN UNIT, BOTH SIDES OF THE MCTU2.

*** NOTE: FOR MCTU2 UNIT, VERIFY ON THE BACKPLANE THAT THE SIDE NUMBER STAMPING AGREES WITH THE ED NUMBER OF THE BACKPLANE.
 *** SIDE 0 USES ED-5D649-30 BACKPLANE ***
 *** SIDE 1 USES ED-5D650-30 BACKPLANE ***

B. CHECK THAT THE PACKS EQUIPPED ARE THE PROPER PACKS

C. DO A VISUAL CHECK OF THE BACKPLANE PIN CONDITION. MAKE SURE NO PINS ARE BENT OR ARE SHORTING.

D. FOR 7' CABINET APPLICATIONS, VERIFY THAT ALL NECESSARY BRACKETS ARE MOUNTED ON THE UNIT FOR PROPER MOUNTING IN 7' CABINETS.

3.14 *** RSM APPLICATIONS. **** FOR RSM APPLICATIONS, VISUALLY VERIFY THAT TWO 963E-2 SHORTING BERGS ARE EQUIPPED ON THE BACKPLANE OF EACH SIDE OF THE MCTU2. CHECK THE FOLLOWING UNIT EQL LOCATIONS FOR EACH MCTU2 SIDE:
 04 - 033 - 011
 04 - 033 - 020

ALSO CHECK TO SEE IF THERE IS A 982JJ SHORTING BERG CONNECTED TO EACH SIDE OF THE NEW MCTU2 AT EQL 04-155-013. IF THERE IS, REMOVE AND DISCARD LOCALLY.

RSM APPLICATIONS REQUIRE A CABLE FROM THE FIU TO BE CONNECTED AT THESE LOCATIONS. THE EXISTING CABLE FROM FIU TO THE ORIGINAL MCTSI MAY BE USED. MOVE THE MCTSI END ONLY. FIU CABLE LOCATIONS ARE:
 EQL 04-008-132 (SIDE 0)
 EQL 04-098-132 (SIDE 1)

TABLE EC
 ECP - 7 FT CABINET CONVERSION

4. FIRST SHIFT - 7' CABINET

4.1 **** FUSE/FILTER UNIT INSTALLATION ****

4.1.1 BEFORE BEGINNING ANY WORK IN THE SUBJECT SYSTEM, A FAN ALARM AND FUSE ALARM VERIFICATION SHOULD BE PERFORMED TO CHECK THE EXISTING STATUS OF THESE ALARM INDICATORS. PERFORM THE FOLLOWING STEPS:

A. DEFUSE A FAN AND WAIT FOR IT TO STOP ROTATING. NOTE THE LED ACTIVITY ON THE FAN UNIT AND THE CABINET IN WHICH IT IS EQUIPPED. ALSO VIEW MCC PAGE 1010 FOR THE SUBJECT SM AND NOTE THE FAN ALM AND FAN/PERIPH FUSE ALM BOX IN THE UPPER RIGHT CORNER.

B. INSERT A BLOWN FUSE IN THE VACANT FAN FUSE POSITION AND AGAIN
 *** CONTINUED ***

** CONTINUED **
 TABLE EC
 NOTE ANY LED ACTIVITY OR CHANGE IN THE REPORT RESULTS. ALSO VIEW PAGE 1010.

C. REMOVE THE BLOWN FUSE, REFUSE THE FAN AND VERIFY THAT IT OPERATES PROPERLY. CLEAR ANY ALARMS AND RESET THE FAN ALARM BOARD SWITCH ON THE REAR OF THE FAN UNIT.

D. PERFORM A BLOWN FUSE ALARM TEST ON A PERIPHERAL UNIT IN THE SUBJECT SM.

E. REMOVE THE UNIT FROM SERVICE AND CAREFULLY REPLACE ITS FUSE WITH A BLOWN FUSE. NOTE THE LED ACTIVITY ON THE CABINET IN WHICH THE UNIT IS EQUIPPED AND AGAIN VIEW MCC PAGE 1010 FOR THE SUBJECT SM. NOTE THAT THERE IS FAN/PERIPH FUSE ALM BOX ACTIVITY.

F. REPLACE THE FUSE, RESTORE THE PERIPHERAL TO SERVICE, CLEAR ANY ALARMS AND CHECK THE CABINET LED(S). VIEW MCC PAGE 1010, VERIFY ALL IS NORMAL.

4.1.2
 *** NOTE: IT IS RECOMMENDED THAT THE SMC CABINET GRID PANELS, LOCATED ON THE BASE OF THE CABINET, BE REMOVED PRIOR TO STARTING FOR EASIER ACCESS TO THE EXISTING FUSE PANEL AND 3-FAN FAN UNIT. ***

RUN 4 NEW POWER FEEDER CABLES (2 A-BUS, 2 B-BUS) BETWEEN THE PDF CABINET AND TOP OF THE SMC CABINET. CONNECT THESE CABLES AT THE PDF BUT DO NOT FUSE THEM YET. IDENTIFY EACH SMC FEEDER FOR EASE OF CONNECTING LATER.

4.1.3
 *** NOTE: IT IS RECOMMENDED TO USE A PIECE OF CARDBOARD OR FIBERBOARD BENEATH EACH AREA WITHIN THE CABINET THAT WILL HAVE HARDWARE EITHER ADDED OR REMOVED. THIS WILL HELP AVOID ANY SHORTING IF MOUNTING SCREWS ARE DROPPED. ***

MOUNT THE FUSE/FILTER (F/F) UNIT SUPPORT SHELF FOR THE NEW J5D003AU-2 F/F UNITS TO BE MOUNTED AT THE TOP OF THE SUBJECT SMC CABINET. BE SURE TO COVER THE EQUIPMENT MOUNTED BELOW THE F/F UNIT.

4.1.4. INSTALL THE J5D003AU-2 F/F UNITS.

A. AT A CONVENIENT WORK AREA, SET THE TWO J5D003AU-2 UNITS NEXT TO EACH OTHER AND ON THE FRONT, ATTACH THE SPLICE PLATE AS SHOWN IN FIGURE A. ON THE REAR, ATTACH THE SMALL JOINING STRAP BETWEEN THE UNITS AS SHOWN IN FIGURE A. THESE WILL HELP MAKE THE UNITS RIGID WHEN MOUNTING.

B. CAREFULLY PLACE THE UNITS ON THE F/F UNIT SUPPORT SHELF WHILE ALIGNING THE MOUNTING HOLES IN THE CABINET UPRIGHT. THE USE OF THE R-3908 SCREWHOLDER IS RECOMMENDED AT THIS TIME IN ORDER TO HELP PREVENT THE DROPPING OF THE MOUNTING SCREWS INTO THE CABINET. ALSO USE A COVER BELOW THE WORKING AREA AS RECOMMENDED IN 4.1.3.

C. USING THE SCREWHOLDER, START THE MOUNTING SCREWS IN THEIR RESPECTIVE HOLES. THEN, USING THE LONG SCREWDRIVER, SECURE THE F/F UNITS TO THE CABINET UPRIGHTS.

4.1.5 CONNECT THE NEW PDF POWER FEEDERS TO THE NEW F/F UNITS. BE CAREFUL TO DISTINGUISH THE TWO A-BUS FEEDERS FROM THE B-BUS FEEDERS WHEN PLUGGING INTO THE F/F UNITS. DO NOT DO ANY FUSING AT THIS TIME.

4.2 **** FAN UNIT REPLACEMENT ****

*** CAUTION: A SUPPLEMENTARY FLOOR FAN MAY BE USED FOR AIR CIRCULATION WHILE THE 3-FAN FAN UNIT IS BEING REPLACED WITH THE 6-FAN FAN UNIT. ***

*** NOTE: THE REX ROUTINES FOR THE SUBJECT SM SHOULD BE INHIBITED BEFORE BEGINNING THE FAN UNIT REPLACEMENT. AT THE MCC, ENTER:

*** INH:REX,SM=A;
 *** RESPONSE: OK ***

*** CONTINUED ***

** CONTINUED **
 TABLE EC
 4.2.1 VERIFY THAT THE POWER FEEDER CABLES FOR THE FAN UNIT CHANGE ARE ON SITE. THESE SHOULD BE THE GROUP 1 AND GROUP 2 CABLES SHOWN IN TABLE BH OF THE ED5D731-30. IF THE CABLES HAVE TO BE MADE ON SITE, IT MUST BE NOTED THAT THE LUG AT THE UNIT END OF THE CABLE (I.E., - FAN UNIT, MCTU2, ETC.) MUST HAVE HEAT SHRINK APPLIED.

4.2.2 CONNECT THE NEW FAN UNIT POWER FEEDERS AT THE NEW F/F UNIT END ONLY. DO NOT FUSE THESE POSITIONS YET. REFER TO TABLE BH OF ED5D731-30 AS MENTIONED ABOVE.

4.2.3 ON THE OLD 3-FAN FAN UNIT, REMOVE THE 6 FUSES. THERE ARE TWO FUSES PER FAN, ONE EACH FOR THE "A" AND "B" BUS (F1A,F1B,F2A, F2B,F3A,F3B). THE "A" BUS FEEDERS TO THE FUSE PANEL ARE RUN FROM THE RIGHTMOST FUSE PAIR (FAN 1) DOWN TO THE FUSE PANEL AND ARE COUPLED WITH THE MAIN FEEDERS TO THE FUSE PANEL. THE "B" BUS ONLY RUNS THE -48V LEAD (SLATE). THIS LEAD MAY BE COUPLED WITH ANY OF THE OTHER REMAINING FEEDERS FROM THE PDF. THE R, R-BK PAIR AND THE S(LATE) FROM THE FAN FUSES WILL HAVE TO BE CAREFULLY CUT AT THE FUSE PANEL END.

*** WARNING: THE R & S WILL BE "HOT" AND EXTREME CAUTION MUST BE TAKEN WHEN CUTTING THEM. THEY MUST BE CUT AND INSULATED FIRST. THE USE OF A WELL INSULATED CUTTER IS REQUIRED. INSULATE ALL LEADS IMMEDIATELY! ***

4.2.4 REMOVE THE WIRING FROM THE OLD FAN UNIT ALARM BOARD. THIS CAN BE DONE BY CUTTING THE LEADS. IT IS RECOMMENDED TO CUT THE ALARM MULTIPLE LEADS FIRST AND TAG THEM FOR LATER IDENTIFICATION. USE THE APPROPRIATE PART OR PARTS OF THE FOLLOWING TABLES FOR IDENTIFICATION:

TABLE - BA	FAN TO LED(S)
TABLE - BG	MULTIPLES BETWEEN CABINETS
TABLE - BN	ALARM SC/SD TO IMPU
TABLE - BP	ALARM SC/SD TO TSUI

*** WARNING: AT THIS POINT, THE ALARMING CAPABILITIES OF THE SUBJECT SM WILL BE REMOVED UNTIL SIDE 0 OF MCTU2 IS INSTALLED AND ACTIVE. ***

4.2.5 REMOVE THE 3-FAN FAN UNIT

A. REMOVE THE AIR FILTER FOR ACCESS TO THE FAN UNIT MOUNTING SCREWS. USE CARDBOARD OR FIBERBOARD TO COVER THE TOP OF THE FUSE PANEL TO PREVENT THE DROPPING OF ANY SCREWS INTO IT. CAREFULLY REMOVE THE FAN UNIT MOUNTING SCREWS. DO NOT LET THE FAN UNIT DROP ON THE FUSE PANEL.

B. MAKE SURE THE CARDBOARD/FIBERBOARD COVERING IS STILL OVER THE TOP OF THE FUSE PANEL UNIT. CAREFULLY REMOVE THE FAN UNIT FROM THE FRONT OF THE SMC CABINET. USE EXTREME CAUTION TO AVOID SHORTING THE UNIT ON THE FUSE PANEL.

C. CAREFULLY REMOVE THE MOUNTING BRACKETS.

4.2.6 MOUNT AND WIRE THE NEW 6-FAN FAN UNIT

A. A GAP OF 8 1/2" IS REQUIRED ABOVE THE 6-FAN FAN UNIT IN ORDER TO MOUNT THE MCTU2 SIDE 0. USING THIS INFORMATION, MEASURE TO FIND WHICH MOUNTING HOLES WILL BE USED TO MOUNT THE FAN UNIT.

B. CAREFULLY SET THE FAN UNIT IN PLACE AND USING THE SCREWHOLDER, INSERT THE MOUNTING SCREWS THROUGH THE MOUNTING BRACKETS INTO THE HOLES DETERMINED ABOVE. SECURE THE SCREWS USING THE REGULAR SCREWDRIVER.

C. CONNECT THE FAN UNIT POWER CABLES AT THE FAN UNIT END. USE TABLE BH FOR THE ASSOCIATED TERMINATIONS ON THE NEW FAN UNIT.

4.2.7 POWER UP AND WIRE THE SUBJECT SMC CABINET.

A. AT THE PDF CABINET, INSERT THE NEW FUSES FOR THE NEW F/F UNIT IN THE CONVERSION SMC CABINET (DON'T FORGET TO USE THE CHARGE PROBE FOR THE NEW F/F UNIT CAPACITORS).

B. AT THE NEW F/F UNIT, INSTALL THE FUSES FOR EACH FAN, IN TURN. VERIFY THAT THE PROPER FAN OPERATES FOR EACH FUSE INSERTION BEFORE CONTINUING WITH THE NEXT ONE. REFER TO TABLE BH FOR THE
 *** CONTINUED ***

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		BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2			
DWG SIZE C2	ISSUE 10		
LUCENT TECHNOLOGIES INC		ED5D731-30	
		SHEET OF	D22 57

** CONTINUED **
 TABLE EC
 FUSE ASSIGNMENTS.

C. ADD THE NEW ALARM MULTIPLE WIRING TO THE ALARM UNIT MOUNTED ON THE FAN UNIT. USE THE FOLLOWING TABLES FOR IDENTIFICATION:

TABLE - BJ	FAN LOOP ALARM CABLING
TABLE - BK	LW FOR FAN ALARM LOOP

4.3 **** MCTU2 SIDE 0 INSTALLATION ****

4.3.1 PREPARE TO MOUNT THE MCTU2 SIDE 0 UNIT

A. VISUALLY VERIFY THE UNIT TO BE MOUNTED IS SIDE 0.

- THE BACKPLANE SHOULD BE STAMPED "SIDE 0"
- THE SIDE 0 BACKPLANE SHOULD ALSO BE STAMPED "ED-5D649-30"

B. REMOVE EACH EQUIPPED PACK AND CAREFULLY STORE IN AN ESD PROTECTED AREA OR CONTAINER. WRIST STRAP MUST BE WORN!

C. REMOVE THE SIDE MOUNTING BRACKETS FROM MCTU2 SIDE 0. RETAIN THESE SCREWS AND TAKE THEM TO THE FRONT OF THE CABINET WHERE THEY WILL BE USED LATER.

D. TAKE THE SCREWS, FOR MOUNTING THE MOUNTING BRACKET TO THE UPRIGHT, AND START THEM IN THEIR RESPECTIVE HOLES. WHEN THE MOUNTING BRACKETS ARE INSTALLED, THERE WILL BE MINIMAL SPACE TO SCREW THE SCREWS DOWN. BY STARTING THE SCREWS NOW, AND THE MOUNTING BRACKETS BEING SLOTTED, IT WILL BE EASIER TO SECURE THE BRACKETS TO THE UPRIGHT.

E. SLIP THE BRACKETS ON THE SCREWS AND SECURE THEM TO THE UPRIGHT.

4.3.2 MOUNT THE MCTU2 SIDE 0 UNIT

A. USING THE CARDBOARD/FIBERBOARD, PLACE IT ACROSS THE TOP OF THE FAN UNIT TO PROTECT THE FILTER RAILS. (IT MAY BE DESIRABLE TO TEMPORARILY TURN THE FANS OFF. THE SUPPLEMENTARY FAN MAY BE USED, IF AVAILABLE).

B. CAREFULLY INSTALL THE MCTU2 SIDE 0 UNIT FROM THE FRONT OF THE SMC CABINET.

C. SCREW THE UNIT TO THE MOUNTING BRACKETS JUST INSTALLED USING THE SCREWS REMOVED BEFORE.

D. REINSERT THE CIRCUIT PACKS INTO THEIR PROPER SLOTS BUT DO NOT SEAT THEM AT THIS TIME.

4.3.3 POWER AND ALARM MCTU2 SIDE 0

A. ADD AND CONNECT THE NEW MCTU2 SIDE 0 POWER FEEDERS AT THE F/F UNIT AND THE MCTU2. REFER TO TABLE BQ AND CONNECT THE GROUP 4 AND, IF APPLICABLE, THE GROUP 6 CABLES (FEATURE B9).

B. INSTALL THE FUSES FOR MCTU2 SIDE 0 REFERRING TO TABLE BQ FOR FUSE ASSIGNMENTS. FUSE AS APPLICABLE.

C. SEAT THE POWER PACK, THE CONTROL AND DISPLAY PACK AND THE DLI PACK. SEAT ANY OTHER PACKS EQUIPPED. THE RED "OFF" LEADS SHOULD LIGHT.

D. OPERATE THE ON BUTTONS AND VERIFY THAT THE RED "OFF" LED(S) EXTINGUISH.

E. SIMULTANEOUSLY OPERATE THE OFF AND MOR BUTTONS TO REMOVE POWER FROM THE MCTSI AND DLI.

F. ADD AND CONNECT THE NEW MCTU2 SIDE 0 ALARM AND SC/SD CABLES. REFER TO THE FOLLOWING TABLES FOR TERMINATIONS:

TABLE - BS	FAN/MCTU2 SCAN AND DIST CABLE (FEAT. B9)
TABLE - BT	MCTU2 ALARM CABLE (FEAT. B9)

4.3.4 AT THIS POINT, THE ALARM CAPABILITIES OF THE SUBJECT SM SHOULD HAVE BEEN RESTORED. OPERATE THE "ON" BUTTONS OF THE MCTSI AND DLI AND PERFORM THE ALARM VERIFICATION OUTLINED IN

*** CONTINUED ***

** CONTINUED **
 TABLE EC
 SECTION 4.1.1. FOR THE FAN PORTION, CHECK ALL 6 FANS. EXPECT THE SAME RESPONSES AS BEFORE.

4.3.5 ALLOW THE REX THAT WAS INHIBITED EARLIER AS FOLLOWS.

AT THE MCC, ENTER:

ALW:REX,SM=A;
 RESPONSE: OK

4.3.6 THIS COMPLETES THE WORK REQUIRED FOR THE FIRST SHIFT.

SAFE STOP POINT (SEE 1.6.2)

END OF WORKSHIFT

5. SECOND SHIFT - 7' CABINET

5.1 MCTU2 SIDE 0 CONVERSION

5.1.1 A CONVERSION SM IDENTIFICATION AND A CONVERSION MATERIAL VERIFICATION MUST BE PERFORMED BEFORE PROCEEDING WITH THE CONVERSION PROCEDURE.

THE SM IDENTIFICATION MUST INCLUDE:

- SM NUMBER
- ORIGINAL SM UNIT TYPE
- PROCESSOR CORE BOARD USED (UN515 OR UN 520)
- MEMORY PACK POSITIONS USED (MCTU2)
- ORIGINAL LDSU TYPE

THE IDENTIFICATION IS AN OPERATING COMPANY FUNCTION.

THE CONVERSION MATERIAL VERIFICATION MUST INCLUDE:

- AVAILABILITY OF REPLACEMENT UNITS
- PROPER CIRCUIT PACK EQUIPPAGE
- ALL NECESSARY CABLES ARE ON SITE AND ACCOUNTED FOR

THE VERIFICATION IS AN INSTALLATION FUNCTION.

5.1.2 VIEW AND TEST ALL PERIPHERAL UNITS AND THE MCTSI IN THE ORIGINAL SM AS DETAILED BELOW. THIS TESTING MAY BE PERFORMED BY THE OPERATING COMPANY PRIOR TO WORKSHIFT START IN ORDER TO EXPEDITE THE CONVERSION PROCESS.

*** NOTE: ALL POKE AND INPUT MESSAGE REFERENCES ***
 *** TO "A" MEANS THE SUBJECT SM NUMBER. ***

A. AT THE MCC, ENTER: POKE 1010,A;
 VERIFY THAT ALL PERIPHERALS SHOW NORMAL STATUS.

B. PERFORM DIAGNOSTICS ON ALL PERIPHERALS EQUIPPED IN THE SUBJECT SM. AT THE MCC, ENTER: POKE 1190,A;

- DIAGNOSE EACH DLI. AT THE MCC, FOR EACH DLI, ENTER:

RST:DLI=A-C; (C = ONTC SIDE, 0 OR 1)
 OR
 POKE 31C
 RESPONSE: RST DLI-A-C COMPLETED

- IF MCTSI 0 IS ACT, EXECUTE A SWITCH BY ENTERING:

SW:MCTSI=A;
 OR
 POKE 403
 RESPONSE: SW MCTSI A COMPLETED

DIAGNOSE EACH MCTSI SIDE STARTING WITH SIDE 0. AT THE MCC ENTER:

RST:MCTSI=A-0; UPON COMPLETION RST:MCTSI=A-1,STBY
 OR
 POKE 300 ENTER POKE 301,STBY
 RESPONSE: RST MCTSI=A-(0/1) COMPLETED

*** CONTINUED ***

** CONTINUED **
 TABLE EC

5.1.3 VERIFY THAT MCTSI SIDE 1 WILL OFF-LINE PUMP.

A. AT THE MCC, FORCE MCTSI SIDE 0 ACTIVE BY ENTERING:

ORD:CPI=A,CMD=FRC-0;
 RESPONSE: ORD CPI A CMD FRC 0 COMPLETE

B. PERFORM THE OFF-LINE PUMP. AT THE MCC, ENTER:

ST:OPUMP,SM=A,ACTDISK,VFY,NPERF;
 RESPONSE: REPT SM=A OFFLINE PUMP COMPLETED

C. CLEAR THE FORCE ON MCTSI 0 AND RETURN MCTSI 1 TO STANDBY UNCONDITIONALLY. AT THE MCC, ENTER:

ORD:CPI=A,CMD=CLR;
 RESPONSE: ORD:CPI A CMD CLR COMPLETE

THEN ENTER:

RST:MCTSI=A-1,UCL,STBY;
 RESPONSE: RST MCTSI=A-1 COMPLETED

5.1.4 MAKE A COPY OF THE CURRENT RC/V VIEW 18.1 DATA.

A. AT THE MCC, ENTER POKE COMMAND 196 TO ENTER ODD RCV.

B. SPECIFY THE FOLLOWING OPTIONS:

PRINT OPTION	Y
DETAIL OPTION	Y
VERBOSE OPTION	Y

C. ACCESS RECENT CHANGE VIEW 18.1 IN THE "REVIEW" MODE.

D. ENTER THE FOLLOWING KEY VALUE FOR THE SUBJECT SM:

*1. SM__

E. AT THE MCC, ENTER: P

F. EXIT THE RECENT CHANGE SESSION.

**** CAUTION: SAVE THE PRINTED ROP OUTPUT OF THE 18.1 VIEW IN THE EVENT IT BECOMES NECESSARY TO BACKOUT THE CONVERSION AND RESTORE THE ORIGINAL DATA. ****

5.1.5 INHIBIT THE ROUTINE EXERCISES AND SCHEDULED OPERATIONS. THE ROUTINE EXERCISES AND SCHEDULED OPERATIONS INHIBITED IN THIS SECTION WILL HAVE TO BE ALLOWED AT THE CONCLUSION OF THIS PROCEDURE.

A. BACK UP THE OFFICE DEPENDENT DATA. AT THE MCC, ENTER:

BKUP:ODD;
 RESPONSE: PF (PRINTOUT FOLLOWS)

WAIT FOR COMPLETION REPORT FROM THE BACKUP.

B. RECORD ANY OFFICE SCHEDULED RUN FOR ODD BACKUP. AT THE MCC ENTER:

OP:BKUPSTAT;
 RESPONSE: PF (THEN RECORD CONTENT OF OP:BKUPSTAT OUTPUT MESSAGE)

OR
 RESPONSE: NG (INDICATING NO SCHEDULED BACKUP)

C. CLEAR THE SCHEDULED ODD BACKUP. AT THE MCC, ENTER:

CLR:ODDBKUP;
 RESPONSE: PF

D. CHECK TO SEE THAT ALL CRAFT BWM ARE IN THE OFFICIAL STATE AND THERE HAVE BEEN NO TEMP(S) APPLIED TO THE SWITCH. AT THE MCC, VIEW DISPLAY PAGE 1960.

E. INHIBIT THE FOLLOWING REX ROUTINES. AT THE MCC, ENTER:

*** CONTINUED ***

** CONTINUED **
TABLE EC

INH:DMQ:SRC=REX;
RESPONSE: OK

INH:REX,CM;
RESPONSE: OK

INH:REX,SM=A&&B; (A&&B = ALL SM)
RESPONSE: OK

F. REMOVE THE RC/MAC CHANNEL FROM SERVICE. AT THE MCC, ENTER:

POKE 113 TO VIEW THE OS LINKS

- FIND THE RMAS CHANNEL AND ASSOCIATED SDLC.
- CHECK MCC PAGE 121/122 FOR THE SDLC STATUS.
- REMOVE THE SDLC FROM SERVICE.

G. INHIBIT THE AUTO REORGANIZATION. AT THE MCC, ENTER:

INH:REORG;
RESPONSE: OK

H. INHIBIT BREVITY CONTROL. AT THE MCC, ENTER:

INH:BREVC,SM=A;
RESPONSE: OK

I. SET PERIPHERAL VERBOSE. AT THE MCC, ENTER:

SET:PERPH,SM=A,VERBOSE;
RESPONSE: OK

J. ALLOW ADDITIONAL PFR (PERIPHERAL FAULT RECOVERY) MESSAGE PRINTING. THE FOLLOWING COMMAND ALLOWS ADDITIONAL PFR MESSAGES TO BE PRINTED AT THE READ ONLY PRINTER (ROP). WITHOUT THIS STEP, CERTAIN MESSAGES COULD BE OVERLOOKED SINCE THEY ARE ONLY LOGGED.

AT THE MCC, ENTER:

- FOR SOFTWARE RELEASE 5E6 ONLY:

CHG:LPS,MSGCLS=HW_MON,PRINT=ON;
RESPONSE: OK

- FOR SOFTWARE RELEASE 5E7 ONLY:

CHG:LPS,MSGCLS=PFR_MON,PRINT=ON;
RESPONSE: OK

5.1.6 SET FORCE ON THE ORIGINAL MCTSI SIDE 1 IN PREPARATION FOR INTEGRATING THE NEW MCTU2 SIDE 0 INTO THE SYSTEM. AT THE MCC, ENTER POKE COMMAND 1190,A TO VIEW THE MCTSI PAGE OF THE SUBJECT SM. OBSERVE THAT SIDE 1 IS ACTIVE. IF IT'S NOT, ENTER POKE COMMAND 403 (SWITCH). ALSO CHECK TO SEE THAT ONTC 1 IS MAJOR ACT. VIEW MCC PAGE 1209. IF ONTC 1 IS NOT MAJOR ACT THEN SWITCH ONTC(S) BY ENTERING POKE 403.

ON MCC PAGE 1190, FORCE THE ORIGINAL MCTSI 1 ACTIVE BY ENTERING POKE 401 (SET FORCE), FOLLOWED BY A "Y". THE MCC PAGE DISPLAY SHOULD SHOW SIDE 1 FORCED ACTIVE. THIS ACTION WILL CAUSE THE REMOVAL OF MCTSI 0 FROM SERVICE. ON PAGE 1209, CHECK TO SEE THAT ONTC 1 IS ACT MAJOR. IF NOT, SWITCH ONTC.

5.1.7 REMOVE THE ORIGINAL DLI SIDE 0 AND THE BOOT STRAPPER FROM SERVICE. AT THE MCC, ENTER:

RMV:DLI=A-0;
RESPONSE: RMV DLI A 0 COMPLETED

RMV:BTSR=A;
RESPONSE: RMV BTSR A COMPLETED

5.1.8 POWER DOWN THE ORIGINAL DLI AND MCTSI SIDE 0.

A. POWER DOWN DLI SIDE 0 BY DEPRESSING THE OFF BUTTON ON THE FRONT OF THE DLI PACK, OR THE OFF BUTTON ON THE CONTROL AND DISPLAY (C&D) PACK FOR THE DLI. OBSERVE THAT THE YELLOW AND RED LED(S) ARE LIT.

*** CONTINUED ***

** CONTINUED **
TABLE EC

B. REMOVE POWER FROM MCTSI SIDE 0 BY DEPRESSING THE OFF BUTTON ON THE FRONT OF THE C&D PACK FOR THAT SIDE. OBSERVE THAT THE YELLOW AND RED LED(S) ARE NOW LIT FOR MCTSI SIDE 0.

5.1.9 EQUIP PACKS (IF APPLICABLE) AND CABLE THE NEW MCTU2 SIDE 0.

A. *** REFER TO TABLE EF AT THE END OF THIS ECP FOR STEP A ***
*** INFORMATION REGARDING THE OFFICE LDSU TYPE AND CHANGES ***
*** RELATED FOR EACH CONFIGURATION. WHEN COMPLETE WITH THE ***
*** APPROPRIATE ITEM IN TABLE A, RETURN TO PART B, BELOW. ***

B. REMOVE THE FUSES FOR THE ORIGINAL MCTSI SIDE 0.

C. CAREFULLY REMOVE THE DIP SWITCHES FROM THE ORIGINAL MCTSI SIDE 0 AND REPLACE THOSE IN THE MCTU2 WITH THEM. THE OLD ONES CONTAIN THE CORRECT CONTROL TIME SLOTS ASSIGNED TO THIS SM.

RSM(S) MAY NOT USE THESE SWITCHES.

D. DISCONNECT/RECONNECT THE SIDE 0 NCT LINKS AS INDICATED IN TABLES BU AND BV OF ED5D731-30, FEATURES B7 AND B8 RESPECTIVELY. RELOCATE THE FIBER OPTIC WITH THEIR TRANSCIEVERS. REFER TO FIGURE 1 ON SHEET E1 FOR NCT LINK CONNECTIONS.

E. INSTALL THE NEW PICB/PIDB CABLES FOR SIDE 0 IN THE CONVERSION SM. DISCONNECT ALL CABLE TIES FIRST. IT IS RECOMMENDED TO START WITH THE PICB(S) FOR EASE OF WORKING.

- START WITH THE PICB FOR THE CI IN THE ORIGINAL MCTSI. UNPLUG IT.
- FIND THE OTHER END AND CHECK THE EQL. DO NOT UNPLUG IT YET.
- FIND THE NEW PICB CABLE, MATCH THE PERIPHERAL END EQL, UNPLUG THE PERIPHERAL END AND RECONNECT WITH THE NEW CABLE.
- CONNECT THE MCTSI END (VERIFY THE EQL ON THE CABLE).

F. CONTINUE IN THE ABOVE MANNER UNTIL ALL NEW PICB/PIDB CABLES HAVE BEEN EQUIPPED IN SIDE 0.

G. IF THE SUBJECT SM IS EQUIPPED WITH A MODEL 1 LOCAL DSU (J5D003AE-1), VERIFY THAT THERE ARE NO TN833 PACKS EQUIPPED IN NEW MCTU2 SIDE 0. CONVERSION OF THE MODEL 1 LDSU TO THE INTEGRATED LDSU, IF DESIRED, MUST BE PERFORMED OUTSIDE OF THIS PROCEDURE.

H. IF THE SUBJECT SM IS EQUIPPED WITH A DSU2-LDSUF (J5D003AE-1), THE NEW MCTU2 MUST HAVE A TN833 PACK EQUIPPED IN UNIT POSITION 168 IN BOTH SIDES.

5.1.10 UPDATE MCTSI AND DLI SIDE 0 DATA. THIS WILL INTEGRATE THE NEW MCTU2 SIDE 0 INTO THE SYSTEM DATABASE AND ACTIVATE IT. IT IS RECOMMENDED AT THIS POINT TO DUMP THE AMA INFORMATION FOR THIS SM TO DISK. AT THE MCC, ENTER:

WRT:AMADATA;
RESPONSE: WRT AMA DATA HAS BEEN WRITTEN TO DISK

A. ENTER THE UNIX SHELL IN ORDER TO USE THE SOFTWARE CONVERSION TOOL THAT WAS PREVIOUSLY DOWN-LOADED. AT THE MCC OR TLWS, ENTER:

RCV:MENU,SH;
RESPONSE: PF

B. AT THE "#" PROMPT, ENTER:

CD/UPDTMP
THEN
SMPUTOSMPU4

C. AT THE "DO YOU WANT...?" REQUEST, ENTER:

EXEC

D. AT THE "ENTER ACTION" PROMPT, ENTER:

SIDE-0

*** CONTINUED ***

** CONTINUED **
TABLE EC

E. CONTINUE BY ENTERING THE APPROPRIATE INFORMATION FOR THE QUESTIONS ASKED. WHEN ALL OF THE MCTSI 0 CIRCUIT PACKS HAVE BEEN ENTERED VIA THE MENU, ENTER THE LETTER "E".

RESPONSE: PROGRAM COMPLETE

*** NOTE: VERIFY THAT BKUP:ODD HAS COMPLETED BEFORE ***
*** CONTINUING BY WAITING FOR THE BKUPODD COMPLETED ***
*** MESSAGE. THERE WILL BE THREE MESSAGES PRIOR TO THE ***
*** FINAL COMPLETED MESSAGE. ***

IF THE "#" PROMPT DOES NOT RETURN, HIT RETURN.

F. AT THE "#" PROMPT, ENTER A CONTROL-D TO EXIT THE UNIX SHELL. AT THIS POINT IN THE CONVERSION PROCEDURE, THE SM IS READY TO CUT OVER TO SIDE 0 OF THE NEW MCTU2. MAKE SURE ALL PREVIOUS STEPS WERE COMPLETED CORRECTLY.

5.1.11 SET ISOLATION. NOTE: AT THIS TIME, CALL PROCESSING WILL BE SUSPENDED.

ENTER THE FOLLOWING INPUT COMMANDS:

SET:ISOL,SM=A;
OR
POKE 403 (MCC PAGE 1800), THEN ANSWER "Y"
RESPONSE: PF
SET:ISOL-SM.....

5.1.12 POWER DOWN ORIGINAL MCTSI AND DLI SIDE 1.

A. FOR MCTSI SIDE 1 REMOVE POWER BY SIMULTANEOUSLY DEPRESSING THE OFF AND MOR BUTTONS ON ITS C&D PACK AT EQL 151-156.

B. FOR DLI SIDE 1, REMOVE POWER BY SIMULTANEOUSLY DEPRESSING THE OFF AND MOR BUTTONS ON THE FRONT OF THE DLI AT EQL 160-176 OF THE SIDE 1 (RIGHT) SHELF OF THE ORIGINAL IMPU/TSIU.

C. OBSERVE THAT THE RED LED(S) ARE NOW LIT.

5.1.13 AT THIS TIME POWER WILL BE RESTORED TO SIDE 0 MCTSI AND DLI ON THE MCTU2 UNIT.

A. POWER UP SIDE 0 MCTSI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE POWER UNIT LOCATED AT EQL 126-026 OF SIDE 0 (LOWER SHELF) OF THE MCTU2. OBSERVE THAT THE RED LED EXTINGUISHES.

B. POWER UP SIDE 0 DLI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE DLI CIRCUIT PACK LOCATED AT EQL 126-156. OBSERVE THAT THE RED LED EXTINGUISHES.

5.1.14 AT THIS TIME POWER WILL BE APPLIED TO THE SIDE 0 DSU UNIT ON THE MCTU2 (TN833 PACK). IF THE ORIGINALLY EQUIPPED LDSU WAS A DSU1 (J5D003AE-1), THEN SKIP THIS STEP AND CONTINUE WITH 5.1.15.

A. POWER UP SIDE 0 DSU BY DEPRESSING THE ST BUTTON ON THE FRONT OF THE TN833 (DSU2) CIRCUIT PACK AT EQL 126-168.

B. OBSERVE THAT THE RED LED ON THE PACK EXTINGUISHES.

5.1.15 CLEAR THE ISOLATION PREVIOUSLY SET AND RESTORE DLI SIDE 0 OF THE CONVERTED SM. THIS ACTION WILL BEGIN INITIALIZATION OF THE CONVERTED SM.

A. ENTER THE FOLLOWING INPUT COMMAND:

CLR:ISOL,SM=A;
OR
POKE 503 (MCC PAGE 1800), THEN ENTER "Y"
RESPONSE: PF
CLR:ISOL.....

B. ENTER THE FOLLOWING INPUT COMMAND:

RST:DLI=A-0,UCL;
OR
POKE 310,UCL (MCC PAGE 1190)
RESPONSE: PF
RST DLI=A-0 COMPLETED

*** CONTINUED ***

** CONTINUED **
TABLE EC

5.1.16 VIEW MCC DISPLAY PAGE 1900 TO VERIFY THAT THE SM HAS ESTABLISHED C-LINKS AND IS PUMPING. IF THE SM FAILS TO ESTABLISH C-LINKS, THEN MANUALLY TRY TO RESTORE THEM. ON MCC PAGE 1900, USE THE 3XXX POKE COMMAND TO RESTORE THE C-LINKS (WHERE XXX IS THE LINK NUMBER).

5.1.17 THE CONVERTED SM SHOULD INITIALIZE ITSELF. WAIT UNTIL MCTSI SIDE 0 ON THE CONVERTED SMP HAS COMPLETED INITIALIZATION BEFORE CONTINUING WITH THIS PROCEDURE. COMPLETION IS INDICATED BY THE FORCED MESSAGE IN THE SM STATUS BOX ON MCC PAGE 1800 FOR THIS SM. IF THE SMP WILL NOT INITIALIZE OR THERE IS TROUBLE WITH THE NEXT TWO STEPS, USE THE BACK-OUT PROCEDURES IN PARAGRAPH 8.

5.1.18 CALL PROCESSING SHOULD NOW BE RESTORED. UPON COMPLETION OF INITIALIZATION, VERIFY THE CALL PROCESSING CAPABILITIES OF THE CONVERTED SM BY PLACING SEVERAL TEST CALLS ON THE SM.

5.1.19 VERIFY THAT THE SIDE 0 PERIPHERALS ARE FUNCTIONING BY GOING TO THE MCC 1010 PAGE. UNCONDITIONALLY RESTORE ANY OUT-OF-SERVICE PERIPHERALS. IF ANY PERIPHERALS WILL NOT RESTORE, RECHECK THE PICB/PIDB CABLES.

SAFE STOP POINT (SEE 1.6.1)

5.2 ORIGINAL SMP HARDWARE REMOVAL

5.2.1 CAREFULLY REMOVE THE REST OF THE FUSES POWERING THE ORIGINAL IMPU/SMPU HARDWARE AND ASSOCIATED POWER CABLES.

- REFER TO TABLE BN FOR THE IMPU

- REFER TO TABLE BP FOR THE TSIU1

5.2.2 DISCONNECT THE SIDE 1 NCT LINKS AS INDICATED IN TABLE BU OF ED5D731-30, FEATURE B11. TAG THEM FOR LATER IDENTIFICATION.

5.2.3 DISCONNECT THE SIDE 1 PICB/PIDB CABLES AND TAG THEM FOR LATER IDENTIFICATION. REFER TO TABLE BW OF ED5D731-30.

5.2.4 CAREFULLY REMOVE THE UNITS FROM THE SUBJECT SMC CABINET.

A. REMOVE ENOUGH PACKS FROM EACH SIDE OF THE UNIT IN ORDER TO REACH THE SCREWS HOLDING THE UNIT TO THE MOUNTING BRACKETS.

B. NOTE: USE A PIECE OF CARDBOARD/FIBERBOARD AT THE BOTTOM OF THE UNIT CAGE TO CATCH ANY SCREWS THAT MAY BE DROPPED.

CAREFULLY REMOVE THE SCREWS HOLDING THE UNIT TO THE MOUNTING BRACKETS AND REMOVE THE UNIT THRU THE FRONT OF THE CABINET.

C. CAREFULLY REMOVE THE UNIT MOUNTING BRACKETS BY USING THE LONG SCREWDRIVER TO LOOSEN THE BRACKET SCREWS AND REMOVE THOSE SCREWS WITH THE R-3908 SCREWHOLDER.

5.3 MCTU2 SIDE 1 INSTALLATION

5.3.1 PREPARE TO MOUNT THE MCTU2 SIDE 1 UNIT.

A. VISUALLY VERIFY THE UNIT TO BE MOUNTED IS SIDE 1.

- THE BACKPLANE SHOULD BE STAMPED "SIDE 1"

- THE SIDE 1 BACKPLANE SHOULD ALSO BE STAMPED "ED-5D650-30"

B. REMOVE EACH EQUIPPED PACK AND CAREFULLY STORE IN AN ESD PROTECTED AREA OR CONTAINER. WRIST STRAP MUST BE WORN!

C. REMOVE THE SIDE MOUNTING BRACKETS FROM MCTU2 SIDE 1. RETAIN THESE SCREWS AND TAKE THEM TO THE FRONT OF THE CABINET WHERE THEY WILL BE USED LATER.

D. TAKE THE SCREWS, FOR MOUNTING THE MOUNTING BRACKET TO THE UPRIGHT, AND START THEM IN THEIR RESPECTIVE HOLES. WHEN THE MOUNTING BRACKETS ARE INSTALLED, THERE WILL BE MINIMAL

*** CONTINUED ***

** CONTINUED **
TABLE EC

SPACE TO SCREW THE SCREWS DOWN. BY STARTING THE SCREWS NOW, AND THE MOUNTING BRACKETS BEING SLOTTED, IT WILL BE EASIER TO SECURE THE BRACKETS TO THE UPRIGHT.

E. SLIP THE BRACKETS ON THE SCREWS AND SECURE THEM TO THE UPRIGHT.

5.3.2 MOUNT THE MCTU2 SIDE 1 UNIT

A. USING THE CARDBOARD/FIBERBOARD, PLACE IT ACROSS THE TOP OF THE MCTU2 SIDE 0 UNIT TO PROTECT FROM ANYTHING BEING DROPPED.

B. CAREFULLY INSTALL THE MCTU2 SIDE 1 UNIT FROM THE FRONT OF THE CABINET.

C. SCREW THE UNIT TO THE MOUNTING BRACKETS JUST INSTALLED USING THE SCREWS REMOVED BEFORE.

D. REINSERT THE CIRCUIT PACKS INTO THEIR PROPER SLOTS BUT DO NOT SEAT THEM AT THIS TIME.

5.3.3 POWER AND ALARM MCTU2 SIDE 1

A. ADD AND CONNECT THE NEW MCTU2 SIDE 1 POWER FEEDERS AT THE F/F UNIT AND AT THE MCTU2. REFER TO TABLE BR AND CONNECT THE GROUP 3 AND, IF APPLICABLE, THE GROUP 5 CABLES (FEATURE B13).

B. ADD AND CONNECT THE COMMON GROUND STRAPS THAT TIE SIDE 0 AND SIDE 1 TOGETHER. REFER TO TABLE BR, FEATURE B15, GROUP 10 STRAPS. ALSO ADD THE INTER-UNIT RIBBON CABLES BETWEEN MCTU2 SIDE 0 AND SIDE 1 AT THIS TIME. THE CABLES ARE STAMPED ED5D651-25, GROUPS 1-12 WITH TERMINATING LOCATIONS. REFER TO TABLE B ON SHEET D3.

C. INSTALL THE FUSES FOR MCTU2 SIDE 1 REFERRING TO TABLE BR FOR FUSE ASSIGNMENTS. FUSE AS APPLICABLE.

D. SEAT THE POWER PACK, THE CONTROL AND DISPLAY PACK AND THE DLI PACK. SEAT ANY OTHER PACKS EQUIPPED. THE RED "OFF" LED(S) SHOULD LIGHT.

E. OPERATE THE ON BUTTONS AND VERIFY THAT THE RED "OFF" LED(S) EXTINGUISH.

F. SIMULTANEOUSLY OPERATE THE OFF AND MOR BUTTONS TO REMOVE POWER FROM THE MCTSI AND DLI.

G. ADD AND CONNECT THE NEW MCTU2 SIDE 1 ALARM AND SC/SD CABLES. REFER TO THE FOLLOWING TABLES FOR TERMINATIONS:

TABLE - BS FAN/MCTU2 SCAN AND DIST CABLE (FEAT. B13)
TABLE - BT MCTU2 ALARM CABLE (FEAT. B13)

5.3.4 AT THIS TIME, THE ALARM CAPABILITIES OF THE SUBJECT SM FOR SIDE 1 MCTU2 SHOULD HAVE BEEN RESTORED. OPERATE THE "ON" BUTTON OF THE MCTSI AND DLI AND PERFORM THE ALARM VERIFICATION OUTLINED IN SECTION 4.1.1. BEFORE BEGINNING THOSE STEPS, GO TO THE FAN UNIT ALARM BOARD AND DISCONNECT THE CABLE ON TERMINAL 200. THIS WILL ASSURE USAGE OF THE SIDE 1 ALARM CIRCUIT. FOR THE FAN PORTION, CHECK ALL 6 FANS. EXPECT THE SAME RESPONSES AS BEFORE. WHEN COMPLETE, RESTORE THE CABLE CONNECTOR ONTO TERMINAL 200 OF THE FAN UNIT ALARM BOARD. WHEN COMPLETE, AGAIN REMOVE POWER FROM MCTSI AND DLI BY SIMULTANEOUSLY OPERATING THEIR "OFF" AND "MOR" BUTTONS.

5.3.5 EQUIP PACKS (IF APPLICABLE) AND CABLE THE NEW MCTU2 SIDE 1.

A. *** REFER TO TABLE EG AT THE END OF THIS ECP FOR STEP A ***
*** INFORMATION REGARDING THE OFFICE LDSU TYPE AND ***
*** CHANGES RELATED FOR EACH CONFIGURATION. WHEN COM- ***
*** PLETE WITH THE APPROPRIATE ITEM IN TABLE B, RETURN ***
*** TO PART B BELOW. ***

B. CAREFULLY REMOVE THE DIP SWITCHES FROM THE ORIGINAL MCTSI SIDE 1 AND REPLACE THOSE IN THE MCTU2 WITH THEM. THE OLD ONES CONTAIN THE CORRECT TIME SLOTS ASSIGNED TO THIS SM.

RSM(S) MAY NOT USE THESE SWITCHES.

*** CONTINUED ***

** CONTINUED **
TABLE EC

C. RECONNECT THE SIDE 1 NCT LINKS AS INDICATED IN TABLES BU AND BV OF ED5D731-30, FEATURES B11 AND B12 RESPECTIVELY. RELOCATE THE FIBER OPTIC WITH THEIR RESPECTIVE TRANSCIEVERS.

D. INSTALL THE NEW PICB/PIDB CABLES FOR SIDE 1 IN THE NEW MCTU2. DISCONNECT ALL CABLE TIES, IF NOT ALREADY DONE. IT IS RECOMMENDED TO START WITH THE PICB(S) FOR EASE OF WORKING.

- START WITH THE PICB FOR THE CI FROM THE ORIGINAL MCTSI. FOLLOW IT TO THE PERIPHERAL END AND NOTE THE EQL. DO NOT UNPLUG IT YET.

- FIND THE NEW PICB CABLE, MATCH THE PERIPHERAL END EQL, UNPLUG THE PERIPHERAL END AND CONNECT THE NEW CABLE.

- CONNECT THE MCTU2 END (VERIFY THE EQL ON THE CABLE).

E. CONTINUE IN THE ABOVE MANNER UNTIL ALL NEW PICB/PIDB CABLES HAVE BEEN EQUIPPED IN SIDE 1.

F. IF THE SUBJECT SM IS EQUIPPED WITH A MODEL 1 LOCAL DSU (J5D003AE-1), VERIFY THAT THERE ARE NO TN833 PACKS EQUIPPED IN THE NEW MCTU2 SIDE 1. CONVERSION OF THE MODEL 1 LDSU TO THE INTEGRATED LDSU, IF DESIRED, MUST BE PERFORMED OUTSIDE OF THIS PROCEDURE.

G. IF THE SUBJECT SM IS EQUIPPED WITH A DSU2-LDSUF (J5D003AE-1), THE NEW MCTU2 MUST HAVE A TN833 PACK EQUIPPED IN UNIT POSITION 168 IN BOTH SIDES.

5.4 MCTU2 SIDE 1 CONVERSION

5.4.1 UPDATE MCTSI AND DLI SIDE 1 DATA. THIS WILL INTEGRATE THE NEW MCTU2 SIDE 1 INTO THE SYSTEM DATABASE AND ACTIVATE IT. IT IS RECOMMENDED AT THIS POINT TO DUMP THE AMA INFORMATION FOR THIS SM TO DISK. AT THE MCC ENTER:

WRT:AMADATA;
RESPONSE: WRT AMA DATA HAS BEEN WRITTEN TO DISK

A. ENTER THE UNIX SHELL IN ORDER TO USE THE SOFTWARE CONVERSION TOOL THAT WAS PREVIOUSLY DOWN-LOADED. AT THE MCC OR TLWS, ENTER:

RCV:MENU,SH;
RESPONSE: PF

B. AT THE "#" PROMPT, ENTER:

CD/UPDTMP
THEN
SMPUTOSMPU4

C. AT THE "DO YOU WANT.?" REQUEST, ENTER:

EXEC

D. AT THE "ENTER ACTION" PROMPT, ENTER:

SIDE-1

E. CONTINUE BY ENTERING THE APPROPRIATE INFORMATION FOR THE QUESTIONS ASKED. WHEN ALL OF THE MCTSI 1 CIRCUIT PACKS HAVE BEEN ENTERED VIA THE MENU, ENTER THE LETTER "E".

RESPONSE: PROGRAM COMPLETE

IF THE "#" PROMPT DOES NOT RETURN, HIT RETURN.

F. AT THE "#" PROMPT, ENTER A CONTROL-D TO EXIT THE UNIX SHELL. AT THIS POINT IN THE CONVERSION PROCEDURE, THE SM IS READY TO CUT OVER TO SIDE 1 OF THE NEW MCTU2. MAKE SURE ALL PREVIOUS STEPS WERE COMPLETED CORRECTLY!

5.4.2 AT THIS TIME MCTU2 SIDE 1 AND DLI 1 WILL BE POWERED UP.

A. POWER UP SIDE 1 MCTSI BY DEPRESSING THE ON BUTTON ON THE

*** CONTINUED ***

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BT13

DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE
C2

ISSUE
10

** CONTINUED **
TABLE EC
FRONT OF THE POWER UNIT LOCATED AT EQL 134-026 OF SIDE 1 (UPPER SHELF) OF THE MCTU2. OBSERVE THAT THE RED LED EXTINGUISHES.

B. POWER UP SIDE 1 DLI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE DLI CIRCUIT PACK LOCATED AT EQL 134-156. OBSERVE THAT THE RED LED EXTINGUISHES.

5.4.3 AT THIS TIME, POWER WILL BE APPLIED TO SIDE 1 DSU UNIT ON THE MCTU2 (TN833 PACK). IF THE ORIGINALLY EQUIPPED LDSU WAS A DSU1 (J5D003AE-1), THEN SKIP THIS STEP AND CONTINUE WITH 5.4.4.

A. POWER UP SIDE 1 DSU BY DEPRESSING THE ST BUTTON ON THE FRONT OF THE TN833 (DSU2) CIRCUIT PACK AT EQL 134-168.

B. OBSERVE THAT THE RED LED ON THE PACK EXTINGUISHES.

5.4.4 RESTORE DLI 1 AND MCTSI SIDE 1 OF THE CONVERTED SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC, ENTER:

RST:DLI=A-1;
OR
POKE 311 (MCC PAGE 1190)
RESPONSE: PF
RST DLI=1-1 COMPLETED

AND
RST:MCTSI=A-1;
OR
POKE 301
RESPONSE: PF
RST MCTSI=A-1 COMPLETED

AT THE MCC, VIEW PAGE 1010 AND VERIFY THAT ALL PERIPHERALS IN THE SUBJECT CONVERSION SM ARE OPERATING NORMALLY. PERFORM DIAGNOSTICS ON ANY UNIT EXPERIENCING PROBLEMS.

5.4.5 RESTORE MCTSI SIDE 0 OF THE CONVERTED SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC, ENTER THE FOLLOWING:

RST:MCTSI=A-0;
OR
POKE 300
RESPONSE: PF
RST MCTSI=A-0 COMPLETED

THIS STEP MUST BE COMPLETED SUCCESSFULLY BEFORE CONTINUING!

5.4.6 RESTORE DLI 0 OF THE CONVERTED SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC, ENTER THE FOLLOWING:

RST:DLI=A-0;
OR
POKE 310
RESPONSE: PF
RST DLI=A-0 COMPLETED

5.4.7 PRINT THE INFORMATION IN RCV VIEW 18.1.

A. ENTER RECENT CHANGE AT THE MCC BY TYPING "196".

B. SPECIFY THE FOLLOWING OPTIONS:

- PRINT OPTION Y
- DETAIL OPTION Y
- VERBOSE OPTION Y

C. ACCESS RECENT CHANGE VIEW 18.1 IN THE REVIEW MODE:

*1 SM

D. ENTER "P" TO GET A PRINTOUT OF THE VIEW.

E. EXIT THE RECENT CHANGE SESSION.

5.4.8 VERIFY THE DATA WRITTEN IN THE FOLLOWING ATTRIBUTES:

A. ATTRIBUTE 3. UNIT TYPE IS:
- SMPU4

*** CONTINUED ***

** CONTINUED **
TABLE EC
B. ATTRIBUTE 15. MCTSI 0 CLI,
ATTRIBUTE 16. MCTSI 1 CLI IS:

- 10DC IF THE MCTSI IS EQUIPPED WITH A UN515 PROCESSOR CORE BOARD
- 90DC IF THE MCTSI IS EQUIPPED WITH A UN520 PROCESSOR CORE BOARD

C. ATTRIBUTE 13. DLI 0 CLI,
ATTRIBUTE 14. DLI 1 CLI IS:

- 5 IF THE SM IS AN LSM OR RSM WITH 2 LINKS AND DIP SWITCHES
- 7 IF THE SM IS AN RSM WITH 4 LINKS AND NO DIP SWITCHES

D. ATTRIBUTES 41. - 52. ARE CONSISTENT WITH THE MEMORY BOARDS EQUIPPED IN THE MCTU2.

- 200 IF THE MEMORY BOARD EQUIPPED IS A TN1374 (4MB)
- 4000 IF THE MEMORY BOARD EQUIPPED IS A TN1376 (8MB)
- 20000 IF THE MEMORY BOARD EQUIPPED IS A TN1661 (16MB)

5.4.9 IF THE SUBJECT SM WAS EQUIPPED WITH A DSU2 (J5D003EA-1) UNIT AND THE LDSU FUNCTION HAS MIGRATED TO THE MCTU2 SHELVES DURING THIS CONVERSION, CONTINUE WITH THIS SECTION. OTHERWISE CONTINUE WITH SECTION 5.4.10. THIS SECTION UPDATES THE VERTICAL POSITION (EQL) OF THE LDSU IN RCV 19.5.

A. ACCESS RCV AS BEFORE EXCEPT IN THE UPDATE MODE.

B. ENTER THE FOLLOWING KEY VALUES FOR THE CONVERSION SM:

*1. SM
*2. DSU
*3. SG

C. CHANGE ATTRIBUTE 13. EQLUNVER TO 15

D. UPDATE THE FORM:

RESPONSE: UPDATING.....FORM UPDATED

E. ACCESS RC VIEW 19.5 IN THE UPDATE MODE AGAIN.

F. ENTER THE FOLLOWING KEY VALUES FOR THE CONVERSION SM:

*1. SM
*2. DSU
*3. SG

G. CHANGE ATTRIBUTE 13. EQLUNVER TO 24

H. UPDATE THE FORM

RESPONSE: UPDATING.....FORM UPDATED

H. UPDATE THE FORM

RESPONSE: UPDATING.....FORM UPDATED

I. EXIT THE RECENT CHANGE SESSION.

J. PERFORM AN ODD BACKUP AT THIS TIME. AT THE MCC, ENTER:

BKUP:ODD;
RESPONSE: PF

5.4.10 ENABLE THE REX, SCHEDULED OPERATIONS AND ANYTHING ELSE THAT WAS INHIBITED EARLIER.
AT THE MCC, ENTER THE FOLLOWING:

A. ALW:AUD,SM=A;
RESPONSE: OK

B. ALW:DMQ:SRC=REX;
RESPONSE: PF

C. ALW:REX,CM;
RESPONSE: OK

*** CONTINUED ***

** CONTINUED **
TABLE EC
D. ALW:REX,SM=A&&B; (A&&B = ALL SM)
RESPONSE: OK

E. RESTORE THE RC/MAC CHANNEL TO SERVICE. AT THE MCC, ENTER:

POKE 113 (TO VIEW THE OS LINKS AND VERIFY THE SUBJECT SDLC IS OOS)

POKE 121/122 (TO VIEW THE PC COMMUNITY THAT THE SUBJECT SDLC IS LOCATED)

AT THE MCC, ENTER THE FOLLOWING TO RESTORE THE SDLC:

RST:SDLC=A; (WHERE: A = MEMBER #)
RESPONSE: PF
RST SDLC A COMPLETED

F. IF AN OFFICE SCHEDULED RUN FOR ODD BACKUP HAD BEEN RECORDED IN SECTION 5.1.5 (B), THEN USE THE SAME SCHEDULE IN THE FOLLOWING MESSAGE TO REQUEST SCHEDULED ODD BACKUP. AT THE MCC, ENTER:

BKUP:ODD,EVERY=A,AT=B;

WHERE: A = # OF DAYS FOR EVERY ODD BACKUP TO RUN
B = TIME OF DAY IN THE HOUR & MINUTE

RESPONSE: PF
BKUP ODD COMPLETED

G. ALW:REORG;
RESPONSE: OK

H. ALW:BREVC,SM=A;
RESPONSE: OK

I. CLR:PERPH,SM=A,VERBOSE;
RESPONSE: OK

J. *** NOTE: IF ANY DATA BASE REORGANIZATIONS WERE MISSED BECAUSE OF THE INHIBIT IN EFFECT DURING THE CONVERSION, IT MAY BE DESIRABLE TO START A REORGANIZATION NOW RATHER THAN WAITING FOR THE NEXT SCHEDULED ONE. IF SO, AT THE MCC, ENTER:

EXC:REORG;
RESPONSE: PF
REPT REORG COMPLETED

K. TURN THE ADDITIONAL PFR MESSAGE PRINTING OFF. AT THE MCC, ENTER:

FOR 5E6 ONLY: CHG:LPS,MSGCLS=HW_MON,PRINT=OFF;
RESPONSE: OK

FOR 5E7 ONLY: CHG:LPS,MSGCLS=PFR_MON,PRINT=OFF;
RESPONSE: OK

5.4.11 MAKE AN ODD BACKUP TAPE. USE THE STANDARD PROCEDURES FOR THIS OFFICE TO MAKE THE BACKUP TAPE.

5.5 ORIGINAL FUSE UNIT/FILTER UNIT REMOVAL

5.5.1 AT THIS POINT, THE OLD FUSE PANEL AND FILTER UNIT IN THE CONVERSION SMC CABINET MAY BE REMOVED BUT ONLY IF THERE ARE NO OTHER UNITS BEING POWERED BY IT (SPECIFICALLY AN LDSU MODEL 1 - J5D003AE-1). IF THE UNITS ARE TO BE REMOVED, CONTINUE WITH THIS SECTION; OTHERWISE, CONTINUE WITH 5.6.

A. REMOVE THE FUSES AT THE PDF THAT SERVE THE ORIGINAL FUSE PANEL IN THE CONVERSION SMC CABINET.

B. REMOVE THE FRONT CABINET GRILLE BASE, IF NOT ALREADY DONE, FOR ACCESS TO THE FILTER UNIT.

C. DISCONNECT THE PDF FEEDERS, AT THE TOP OF THE SMC CABINET, THAT FEED THE ORIGINAL FUSE PANEL.

D. AT THE FUSE PANEL, DISCONNECT (CUT) ALL FEEDERS UNTIL THE UNIT CAN BE SAFELY REMOVED.

*** CONTINUED ***

** CONTINUED **
 TABLE EC

E. CAREFULLY LOOSEN AND REMOVE THE FUSE PANEL UNIT.

F. CAREFULLY LOOSEN AND REMOVE THE OLD FILTER UNIT.

*** WARNING: AVOID TOUCHING OR SHORTING THE ***
 *** LARGE CANISTER CAPACITORS!! ***

5.6 CONVERSION COMPLETION

5.6.1 PERFORM THE FOLLOWING ITEMS TOWARDS COMPLETING THE CONVERSION PROCESS:

- REPLACE THE FRONT AND REAR SMC CABINET GRILLES.
- SECURE THE LOOSE CABLES WITH CABLE TIES AND NEATLY DRESS THEM INTO THE CABINET. NEATLY SECURE THE CABLE ARMS TO THEIR ASSOCIATED TOWEL BARS (CABLE SUPPORTS) IN ORDER TO BE CLEAR OF THE CABINET DOOR CLOSURE.
- INSTALL A PLENUM ON THE FRONT AND REAR AT EACH EQL LEVEL THAT HAS AN 8-1/2 INCH HIGH OPENING. THE PLENUMS SHOULD HAVE BEEN ORDERED AND BE ON SITE FOR THE SUBJECT SYSTEM. THIS WILL CONTAIN THE FLOW OF AIR WITHIN THE CABINET AND RAISE THE EFFICIENCY OF THE FAN'S COOLING CAPABILITIES.
- REMOUNT ALL CABINET DOORS THAT WERE REMOVED TO OBTAIN NECESSARY ACCESS FOR PERFORMING THE VARIOUS HARDWARE AND CABLING CHANGES. THE DOOR SHOULD OPEN AND CLOSE FREELY. IF NECESSARY, THE TOP PIVOT BRACKET CAN BE ADJUSTED HORIZONTALLY TO ACHIEVE A SMOOTH OPERATION.
- AFFIX THE NEW FUSE LABELS ON THE INSIDE OF THE SMC CABINET FRONT DOOR AT THE F/F UNIT LEVEL. THE LABELS SHOULD BE PLACED SO THEY ARE READABLE WHEN THE CABINET DOOR IS IN THE OPEN POSITION. THE LABELS SHOULD REFLECT, AS CLOSELY AS POSSIBLE, THE FUSE LAYOUT OF THE UNIT.

5.6.2 THIS SHOULD COMPLETE THE WORK REQUIRED FOR THE SMP20 CONVERSION IN THE 7-FOOT SMC CABINET.

TABLE ED
 6. FIRST SHIFT - 6' CABINET

6.1 **** FUSE/FILTER UNIT INSTALLATION ****

6.1.1 BEFORE BEGINNING ANY WORK IN THE SUBJECT SYSTEM, A FAN ALARM AND FUSE ALARM VERIFICATION SHOULD BE PERFORMED TO CHECK THE EXISTING OPERATION AND RESPONSES OF THESE ALARMS AND INDICATORS. PERFORM THE FOLLOWING STEPS:

- A. DEFUSE A FAN AND WAIT FOR IT TO STOP ROTATING. NOTE THE LED ACTIVITY ON THE FAN UNIT AND THE CABINET IN WHICH IT IS EQUIPPED. ALSO VIEW MCC PAGE 1010 FOR THE SUBJECT SM AND NOTE THE FAN ALM AND FAN/PERIPH FUSE ALM BOX IN THE UPPER RIGHT CORNER.
- B. INSERT A BLOWN FUSE IN THE VACANT FAN FUSE POSITION AND AGAIN NOTE ANY LED ACTIVITY OR CHANGE IN THE REPORT RESULTS. ALSO VIEW PAGE 1010.
- C. REMOVE THE BLOWN FUSE, REFUSE THE FAN AND VERIFY THAT IT OPERATES PROPERLY. CLEAR ANY ALARMS AND RESET THE FAN ALARM BOARD SWITCH ON REAR OF THE FAN UNIT.
- D. PERFORM A BLOWN FUSE ALARM CHECK ON A PERIPHERAL UNIT IN THE SUBJECT SM.
- E. CHOOSE A PERIPHERAL THAT WILL NOT ADVERSELY AFFECT THE SYSTEM WHILE BEING OUT-OF-SERVICE AND REMOVE IT FROM SERVICE. CAREFULLY REPLACE ITS FUSE WITH A BLOWN FUSE. NOTE THE LED ACTIVITY ON THE CABINET IN WHICH THE UNIT IS EQUIPPED AND AGAIN VIEW MCC PAGE 1010 FOR THE SUBJECT SM. NOTE THE FAN/PERIPH FUSE ALM BOX ACTIVITY.

*** CONTINUED ***

** CONTINUED **
 TABLE ED

F. REPLACE THE FUSE, RESTORE THE PERIPHERAL TO SERVICE, CLEAR ANY ALARMS AND CHECK THE CABINET LED(S). VIEW MCC PAGE 1010, VERIFY ALL IS NORMAL.

6.1.2 REPLACE THE SIDE 0 FUSE/FILTER (F/F) UNIT.

*** NOTE: IT IS RECOMMENDED TO USE A PIECE OF CARDBOARD ***
 *** OR FIBERBOARD BENEATH EACH AREA WITHIN THE ***
 *** CABINET THAT WILL HAVE HARDWARE EITHER ADDED ***
 *** OR REMOVED. THIS WILL HELP AVOID ANY SHORTING ***
 *** IF MOUNTING SCREWS OR OTHER PARTS ARE ACCIDENTLY ***
 *** DROPPED. ***

6.1.3 REMOVE ALL SIDE 0 UNITS IN THE SUBJECT SMC CABINET FROM SERVICE. AT THE MCC VIEW PAGE 1190,A (A=SM#).

*** NOTE: ALL SUBSEQUENT POKE AND MESSAGE REFERENCES TO "A" ***
 *** MEAN THE SUBJECT SM NUMBER. ***

MCTSI SIDE 0 SHOULD BE STBY; IF NOT, SWITCH MCTSI SIDES BY ENTERING:

SW:MCTSI=A;
 OR
 POKE 403;
 RESPONSE: SW MCTSI A COMPLETED

A. REMOVE MCTSI 0 FROM SERVICE. AT THE MCC, ENTER:

RMV:MCTSI=A-0;
 OR
 POKE 200;
 RESPONSE: RMV MCTSI A 0 COMPLETED

B. REMOVE DLI 0 FROM SERVICE. AT THE MCC, ENTER:

RMV:DLI=A-0;
 OR
 POKE 210;
 RESPONSE: RMV DLI A 0 COMPLETED

C. REMOVE THE BOOTSTRAPPER FROM SERVICE. AT THE MCC, ENTER:

RMV:BTSR=A;
 OR
 POKE 202;
 RESPONSE: RMV BTSR A COMPLETED

D. REMOVE THE LDSU FROM SERVICE. CHANGE TO MCC DISPLAY PAGE 108Y,A WHERE: A = SM# , Y = LDSU #

D1. IF THE LDSU IS A MODEL 1 (J5D003AE-1), ENTER:

RMV:LDSUCOM=A-0-0;
 OR
 POKE 200;
 RESPONSE: RMV LDSUCOM A 0 0 COMPLETED

D2. IF THE LDSU IS A MODEL 2 DSU2-LFSUF (J5D003EA-1), ENTER:

RMV:LDSU=A-0-0;
 OR
 POKE 230;
 RESPONSE: RMV LDSU A 0 0 COMPLETED

E. REMOVE FROM SERVICE SIDE 0 OF ANY OTHER UNIT THAT MAY BE EQUIPPED IN THE SUBJECT SMC CABINET. FOLLOW THE FORMAT AS ABOVE.

6.1.4 CAREFULLY REMOVE THE CABINET DOORS FROM THE SUBJECT SMC CABINET. IT IS RECOMMENDED THAT THE DOORS BE STORED IN AN AREA AWAY FROM THE WORK AREA.

6.1.5 REMOVE POWER FROM THE OUT-OF-SERVICE SIDE 0 UNITS EQUIPPED IN THE SUBJECT SMC CABINET.

A. POWER DOWN THE ORIGINAL DLI AND MCTSI SIDE 0.

A1. POWER DOWN DLI SIDE 0 BY DEPRESSING THE OFF BUTTON ON THE FRONT OF THE DLI PACK OR THE OFF BUTTON ON THE CONTROL AND

*** CONTINUED ***

** CONTINUED **
 TABLE ED

DISPLAY (C&D) PACK FOR THAT DLI. OBSERVE THE OUT-OF-SERVICE LED(S) LITE.

A2. POWER DOWN MCTSI SIDE 0 BY DEPRESSING THE OFF BUTTON ON THE FRONT OF THE C&D PACK FOR THAT SIDE. OBSERVE THE OUT-OF-SERVICE LED(S) LITE.

B. POWER DOWN ANY OTHER UNIT IN THE SMC THAT HAS A C&D CONTROL PACK AS ABOVE. FOR UNITS WITHOUT A C&D CONTROL PACK, UNSEAT THE POWER CONVERTER PACK.

C. CAREFULLY REMOVE ALL THE FUSES FROM THE SIDE 0 FUSE/FILTER (F/F) UNIT. FOR THOSE UNITS THAT DID NOT HAVE A C&D PACK, THEIR POWER CONVERTER PACK SHOULD BE UNSEATED.

D. THE FANS IN THE 3-FAN FAN UNIT ARE EACH POWERED BY 2 FUSES, ONE IN THE -48VA UNIT AND ONE IN THE -48VB UNIT. THEREFORE, WHEN THE 3 FAN FUSES IN F/F UNIT 0 ARE REMOVED, THE FANS SHOULD CONTINUE TO OPERATE USING POWER THRU THE 3 -48VB FUSES.

E. AT THE APPROPRIATE POWER DISTRIBUTION CABINET, REMOVE THE LOAD AND PILOT FUSES (FOR -48A0 AND 048A1) FOR SIDE 0 OF THE CONVERSION SMC CABINET.

F. USE THE MULTIMETER TO CHECK THAT VOLTAGE IS REMOVED FROM THE AFFECTED F/F UNIT (SIDE 0). WITH THE METER SET ON THE -150 VOLT SCALE, VERIFY THAT THERE IS NOMINAL, IF ANY, VOLTAGE READING AT ANY FUSED PAIR OF TERMINALS ON THE REAR OF THE F/F UNIT. CHECK SEVERAL LOCATIONS ON BOTH TS0 AND TS1 OF F/F SIDE 0. REFER TO FIGURE C.

6.1.6 REPLACE THE SIDE 0 FUSE/FILTER UNIT.

A. ON THE FRONT OF THE F/F UNITS, CAREFULLY REMOVE THE SPLICE PLATE THAT HOLDS THE UNITS TOGETHER. LIKEWISE ON THE REAR, CAREFULLY REMOVE THE SMALL STRAP BETWEEN THE TWO UNITS. REFER TO FIGURE A. USE THE PIECE OF CARDBOARD OR FIBERBOARD BENEATH THE UNITS IN CASE SCREWS OR PARTS ARE ACCIDENTLY DROPPED.

***** NOTE: REFER TO FIGURE C WHILE PERFORMING *****
 ***** THE FOLLOWING F/F UNIT REPLACEMENT. *****

B. DISCONNECT THE TWO PLUG-IN POWER INPUT FEEDERS (-48A0 AND -48A1) AT THE TOP REAR OF THE F/F UNIT SIDE 0. DISCONNECT AT THE F/F UNIT END ONLY.

C. DISCONNECT AND TAG (FOR LATER RECONNECTION) ALL WIRING FROM F/F UNIT 0.

C1. DISCONNECT THE FILTER GROUND MULT LOOP.

- A. IF THE F/F UNIT HAS A FEED-THRU TERMINAL (A LUG LOCATED BETWEEN TS0 AND TS1 AT BOTTOM OF UNIT), THEN DISCONNECT THE 10GA STRAPS TOGETHER. LIKEWISE ON THE REAR, CAREFULLY REMOVE THE SMALL STRAP BETWEEN THE TWO UNITS. REFER TO FIGURE A. USE THE PIECE OF CARDBOARD OR FIBERBOARD BENEATH THE UNITS IN CASE SCREWS OR PARTS ARE ACCIDENTLY DROPPED.
- B. IF THE F/F UNIT DOES NOT HAVE THE FEED-THRU LUG, DISCONNECT THE 10GA STRAPS AS FOLLOWS:

BETWEEN	TS1	04	AND	TS0	54			
ON	TS0	04	(MULTS	BACK	TO	LTP0,	WHEN	EQUIPPED)
ON	TS1	54	(MULTS	TO	LTP2,	WHEN	EQUIPPED)	

TAG ALL THE 10GA STRAPS. KEEP THE REMOVED ONE AT THE CABINET LOCATION. TIE THE OTHER(S) OUT OF THE WAY.

C2. DISCONNECT THE ALARM MULT LEAD(S) ON TS044. THESE SHOULD BE CONNECTORIZED.

- A. IF THE SM IS A SINGLE SMC BAY, NO LEADS WILL BE CONNECTED.
- B. FOR MULTI-CABINET SM(S), DISCONNECT ONLY THE LEADS CONNECTED TO THE SUBJECT F/F UNIT. TAG THE LEADS FOR RECONNECTION LATER.

C3. DISCONNECT ALL CABINET LED CABLES THAT TERMINATE ON TS044. THESE ALSO SHOULD BE CONNECTORIZED. ONLY DISCONNECT THE

*** CONTINUED ***

** CONTINUED **
TABLE ED
F/F UNIT ENDS.

C4. DISCONNECT AND TAG ALL S/S-BK (-48V/-48RTN) LEADS, RESPECTIVELY, FROM TS0 AND TS1 ON THE REAR OF THE SUBJECT F/F UNIT.

D. AT THE FRONT OF THE SMC CABINET, CAREFULLY REMOVE THE F/F UNIT MOUNTING SCREWS AND SLIDE THE UNIT FORWARD OUT OF THE CABINET. HANDLE THE UNIT CAREFULLY TO AVOID PERSONAL INJURY OR DAMAGE TO OTHER EQUIPMENT. TAKE THE UNIT TO AN AREA REMOTE FROM THE WORKING AREA.

E. VERIFY THAT THE NEW J5D003AU-2 F/F UNIT STAMPING IS COMPARABLE TO THE J5D003AU-1. THEY SHOULD BOTH BE THE SIDE 0 UNIT. CAREFULLY SLIDE THE NEW J5D003AU-2 F/F UNIT INTO PLACE FROM THE FRONT OF THE CABINET. SECURE THE UNIT TO THE CABINET UPRIGHT BUT DO NOT INSTALL THE SPLICE PLATE OR STRAP AT THIS TIME.

F. RECONNECT THE WIRING THAT WAS REMOVED AND TAGGED IN SECTION C ABOVE.

F1. RECONNECT ALL THE S/S-BK (-48V/-48RTN) LEADS THAT PROVIDE POWER TO THE UNITS IN THE SMC. THEY MUST GO ON THE SAME LUGS AS BEFORE.

F2. RECONNECT THE CABINET LED CABLES THAT TERMINATE ON TS044.

F3. RECONNECT THE ALARM MULT LEAD(S) TO TS044.

A. IF THE SM IS A SINGLE SMC BAY, NO LEADS WILL BE CONNECTED.

B. FOR MULTI-CABINET SM(S), CONNECT THE APPROPRIATELY TAGGED LEADS.

F4. RECONNECT THE FILTER GROUND MULT LOOP.

A. IF THE OLD J5D003AU-1 UNIT HAD NO FEED-THRU TERMINAL LUG, THEN RECONNECT THE 10GA STRAPS AS FOLLOWS:

BETWEEN	TS1	04	AND	TS0	54
ON	TS0	04	(WHEN	MULTIPLIED	TO LTP0)
ON	TS1	54	(WHEN	MULTIPLIED	TO LTP2)

B. IF THE OLD F/F UNIT HAD A FEED-THRU TERMINAL LUG, THEN A NEW SHORT STRAP WILL HAVE TO BE ADDED AND THE DISCONNECTED LEADS FROM LTP0 AND LTP2 WILL HAVE TO BE MODIFIED AT THE SMC CABINET END.

1. ADD THE NEW ED-5D507-17 G50 10GA STRAP AS FOLLOWS:

BETWEEN	TS1	04	AND	TS0	54
---------	-----	----	-----	-----	----

2. MODIFY THE OTHER STRAPS BY REMOVING THE RING TERMINALS AT THE SMC CABINET END. REPLACE THE RING TERMINALS WITH PUSH-ON LUGS, #41450(AMP), PROVIDED WITH THE CONVERSION. MAKE SURE THE LEAD LENGTHS ARE CORRECT, DO NOT CUT OFF TOO MUCH LEAD! CONNECT THE 10GA STRAPS AS FOLLOWS:

ON	TS0	04	(THE	MULT	BACK	TO	LTP0)
ON	TS1	54	(THE	MULT	BACK	TO	LTP2)

*** NOTE: A VISUAL VERIFICATION THAT ALL WIRING WAS REPLACED AND IS CORRECT MUST BE MADE. IN ADDITION, THE NEW ADDED LUGS SHOULD BE CHECKED TO SEE THAT THEY ARE SECURE. FROM ADJACENT CABINETS, PERFORM A CONTINUITY CHECK ON THE FILTER GROUND MULT LOOP. ***

G. REPLACE THE TWO PLUG-IN POWER INPUT FEEDERS (-48A0 AND -48A1) AT THE TOP REAR OF THE NEW J5D003AU-2 F/F UNIT 0. VERIFY THAT THEY ARE INSERTED IN THEIR PROPER SLOT.

6.1.7 RESTORE POWER TO THE OUT-OF-SERVICE SIDE 0 UNITS IN THE SUBJECT SMC CABINET.

A. AT THE PDF CABINET FOR THIS SMC, INSERT THE ITE-4715 CAPACITOR FORMING TOOL INTO THE PILOT FUSE LOCATION FOR THE -48A0 FUSE POSITION FOR THE NEW F/F UNIT 0. WHEN THE CAPACITOR IS FORMED, CAREFULLY INSERT THE PROPER LOAD FUSE, THEN QUICKLY REMOVE

*** CONTINUED ***

** CONTINUED **
TABLE ED
THE ITE-4715 TOOL AND CAREFULLY INSERT THE PILOT FUSE. REPEAT FOR THE -48A1 FUSE POSITION.

B. AT THE SMC, REPLACE ALL APPROPRIATE FUSES FOR THE UNITS PRESENTLY EQUIPPED IN THE SMC. AT THE REAR OF THE F/F UNIT, CHECK SEVERAL FUSED LOCATIONS ON TS0 AND TS1 WITH A VOM AND VERIFY THAT -42.5V TO -52.75V ARE PRESENT. ALSO PERFORM THE VOM CHECK AT THE POWER LUGS FOR EACH EQUIPPED UNIT. THE READING AT THE UNITS SHOULD ALSO BE -42.5V TO -52.75V.

C. VERIFY THAT ALL UNITS EQUIPPED WITH A C&D CONTROL PACK HAVE THE RED "OFF" LED LIT. FOR THOSE UNITS NOT HAVING A C&D PACK, BUT HAVE THEIR POWER CONVERTER PACK UNSEATED, SEAT THE POWER CONVERTER. THE RED "OFF" LED SHOULD LITE.

C1. FOR UNITS WITH C&D PACKS, PRESS THE ON BUTTON AND VERIFY THAT THE "OFF" LED EXTINGUISHES.

C2. FOR UNITS WITH POWER CONVERTER PACKS ONLY, OPERATE THE ON BUTTON ON THE FACEPLATE. THE "OFF" LED SHOULD EXTINGUISH.

D. VISUALLY VERIFY THAT ALL UNITS HAVE POWER RESTORED. ALSO VIEW MCC DISPLAY PAGES 1190,A (MCTSI), 108Y,A (LDSU) AND ANY OTHER EQUIPPED UNIT'S MCC PAGE TO VERIFY POWER.

6.1.8 RESTORE ALL EQUIPPED SMC CABINET SIDE 0 UNITS TO SERVICE AS FOLLOWS:

A. RESTORE DLI 0 TO SERVICE. AT MCC PAGE 1190, ENTER:

```
RST:DLI=A-0;
OR
POKE 310;
RESPONSE: ATP
RST DLI A 0 COMPLETED
```

B. RESTORE MCTSI 0 TO SERVICE. AT THE MCC, ENTER:

```
RST:MCTSI=A-0;
OR
POKE 300;
RESPONSE: ATP
RST MCTSI A 0 COMPLETED
```

C. RESTORE THE BOOTSTRAPPER TO SERVICE. AT THE MCC, ENTER:

```
RST:BTSR=A;
OR
POKE 302;
RESPONSE: ATP
RST BTSR A COMPLETED
```

D. RESTORE THE LDSU TO SERVICE. CHANGE TO MCC DISPLAY PAGE 108Y,A WHERE: A = SM# , Y = LDSU #

D1. IF THE LDSU IS A MODEL 1 (J5D003AE-1), ENTER:

```
RST:LDSUCOM=A-0-0;
OR
POKE 300;
RESPONSE: ATP
RST LDSUCOM A 0 0 COMPLETED
```

D2. IF THE LDSU IS A MODEL 2 DSU2-LDSUF (J5D003EA-1), ENTER:

```
RST:LDSU=A-0-0;
OR
POKE 330;
RESPONSE: ATP
RST LDSU A 0 0 COMPLETED
```

E. RESTORE TO SERVICE SIDE 0 OF ANY OTHER UNITS THAT MAY BE EQUIPPED IN THE SUBJECT SMC. USE THE MCC INPUT MESSAGE METHOD OR USE THE MCC DISPLAY POKE COMMANDS AS ABOVE.

F. AT THE SUBJECT MCC DISPLAY PAGES (1190 FOR MCTSI, 108Y FOR LDSU, ETC.) VERIFY THAT ALL UNITS ARE POWERED AND FUNCTIONING NORMALLY.

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TABLE ED
6.1.9 THIS COMPLETES THE WORK REQUIRED FOR REPLACING THE SIDE 0 J5D003AU-1 F/F UNIT WITH A J5D003AU-2. CONTINUE WITH THE FUSE ALARM TEST AS FOLLOWS:

*** NOTE: THIS TEST VERIFIES THE MINOR ALARM CONDITION THAT OCCURS WHEN A FRAME FUSE IS BLOWN. THE TEST ONLY NEEDS TO BE PERFORMED ON LTP0, SMC1 AND LTP2 OF THE SUBJECT SM. USAGE OF THE ITE-5590A FUSE ALARM VERIFICATION TEST SET WILL SIMULATE A BLOWN FUSE. ***

THE ALARM CIRCUIT BEING TESTED SHOULD LIGHT THE RED LED AT THE TOP OF THE CABINET, THE RED LED ON THE ALARM CIRCUIT PACK IN THE UPPER LEFT CORNER OF THE AFFECTED F/F UNIT AND THE RED ALARM LED ASSOCIATED WITH THE C&D PACK ON THE MCTU IN THE SUBJECT SM.

A. AT THE F/F UNIT FOR LTP0 SIDE 0, INSERT THE ITE-5590A INTO A FUSED POSITION ON THE -48VA0 PORTION OF THE FUSE PANEL.

RESPONSE: RED "FUSE" LED ON THE CABINET BEZEL LIGHTS
RED LED ON THE ALARM CIRCUIT PACK (F/F UNIT) LIGHTS
RED "ALM" LED ON THE SIDE 0 MCTU C&D PACK LIGHTS

B. REMOVE THE ITE-5590A TEST SET. THE RED LED(S) SHOULD EXTINGUISH.

C. TRY A COUPLE OF OTHER POSITIONS ON THE -48VA0 PORTION.

D. REPEAT A THRU C USING THE -48VA1 PORTION OF THE FUSE PANEL.

E. CONTINUE BY PERFORMING A - D FOR SMC1 AND, IF EQUIPPED, LTP2.

SAFE STOP POINT (SEE 1.6.1)

6.1.10 REPLACE THE SIDE 1 FUSE/FILTER (F/F) UNIT.

*** NOTE: IT IS RECOMMENDED TO USE A PIECE OF CARDBOARD OR FIBERBOARD BENEATH EACH AREA WITHIN THE CABINET THAT WILL HAVE HARDWARE EITHER ADDED OR REMOVED. THIS WILL HELP AVOID ANY SHORTING IF MOUNTING SCREWS OR OTHER PARTS ARE ACCIDENTALLY DROPPED. ***

6.1.11 REMOVE ALL SIDE 1 UNITS IN THE SUBJECT SM FROM SERVICE. AT THE MCC VIEW PAGE 1190,A (A=SM#).

*** NOTE: ALL SUBSEQUENT POKE AND MESSAGE REFERENCES TO "A" MEANS THE SUBJECT SM NUMBER. MCTSI SIDE 1 SHOULD BE STBY; IF NOT, SWITCH MCTSI SIDES BY ENTERING: ***

```
SW:MCTSI=A;
OR
POKE 403;
RESPONSE: SW MCTSI A COMPLETED
```

A. REMOVE MCTSI 1 FROM SERVICE. AT THE MCC, ENTER:

```
RMV:MCTSI=A-1;
OR
POKE 201;
RESPONSE: RMV MCTSI A 1 COMPLETED
```

B. REMOVE DLI 1 FROM SERVICE. AT THE MCC, ENTER:

```
RMV:DLI=A-1;
OR
POKE 211;
RESPONSE: RMV DLI A 1 COMPLETED
```

C. REMOVE THE LDSU FROM SERVICE. CHANGE TO MCC DISPLAY PAGE 108Y,A WHERE: A = SM# , Y = LDSU #

C1. IF THE LDSU IS A MODEL 1 (J5D003AE-1), ENTER:

```
RMV:LDSUCOM=A-0-1;
OR
POKE 201;
RESPONSE: RMV LDSUCOM A 0 1 COMPLETED
```

C2. IF THE LDSU IS A MODEL 2 DSU2-LDSUF (J5D003EA-1), ENTER:

```
RMV:LDSU=A-0-1;
OR
POKE 201;
RESPONSE: RMV LDSU A 0 1 COMPLETED
```

*** CONTINUED ***

** CONTINUED **
TABLE ED

OR
POKE 231;
RESPONSE: RMV LDSU A 0 1 COMPLETED

D. REMOVE FROM SERVICE SIDE 1 OF ANY OTHER UNITS THAT MAY BE EQUIPPED IN THE SUBJECT SMC CABINET. FOLLOW THE FORMAT AS ABOVE.

6.1.1.2 REMOVE POWER FROM THE OUT-OF-SERVICE SIDE 1 UNITS EQUIPPED IN THE SUBJECT SMC CABINET.

A. POWER DOWN THE ORIGINAL DLI AND MCTSI SIDE 1.

A1. POWER DOWN DLI SIDE 1 BY DEPRESSING THE OFF BUTTON ON THE FRONT OF THE DLI PACK OR THE OFF BUTTON ON THE CONTROL AND DISPLAY (C&D) PACK FOR THAT DLI. OBSERVE THE OUT-OF-SERVICE LED(S) LITE.

A2. POWER DOWN MCTSI SIDE 1 BY DEPRESSING THE OFF BUTTON ON THE FRONT OF THE C&D PACK FOR THAT SIDE. OBSERVE THE OUT-OF-SERVICE LED(S) LITE.

B. POWER DOWN ANY OTHER UNIT IN THE SMC THAT HAS A C&D CONTROL PACK AS ABOVE. FOR UNITS WITHOUT A C&D CONTROL PACK, UNSEAT THE POWER CONVERTER PACK.

C. CAREFULLY REMOVE ALL THE FUSES FROM THE SIDE 1 FUSE/FILTER (F/F) UNIT. FOR THOSE UNITS THAT DID NOT HAVE A C&D PACK, THEIR POWER CONVERTER PACK SHOULD BE UNSEATED.

D. THE -48VA FUSE WIRING HAS BEEN RECONNECTED TO THE FAN UNIT AND THEREFORE THE FANS SHOULD CONTINUE TO OPERATE WHEN THE 3 -48VB FUSES OF F/F UNIT 1 ARE REMOVED.

E. AT THE APPROPRIATE POWER DISTRIBUTION CABINET, REMOVE THE LOAD AND PILOT FUSES (FOR -48B0 AND -48B1) FOR SIDE 1 OF THE CONVERSION SMC CABINET.

F. USE THE MILTIMETER TO CHECK THAT VOLTAGE IS REMOVED FROM THE AFFECTED F/F UNIT (SIDE 1). WITH THE METER SET ON THE -150 VOLT SCALE, VERIFY THAT THERE IS NOMINAL, IF ANY, VOLTAGE READING AT ANY FUSED PAIR OF TERMINALS ON THE REAR OF THE F/F UNIT. CHECK SEVERAL LOCATIONS ON BOTH TS0 AND TS1 OF F/F SIDE 1. REFER TO FIGURE C.

6.1.1.3 REPLACE THE SIDE 1 FUSE/FILTER UNIT.

***** NOTE: REFER TO FIGURE C WHILE PERFORMING THE FOLLOWING F/F UNIT REPLACEMENT. *****

A. DISCONNECT THE TWO PLUG-IN POWER INPUT FEEDERS (-48B0 AND -48B1) AT THE TOP REAR OF THE F/F UNIT SIDE 1. DISCONNECT AT THE F/F UNIT END ONLY.

B. DISCONNECT AND TAG (FOR LATER RECONNECTION) ALL WIRING FROM F/F UNIT 1.

B1. DISCONNECT THE FILTER GROUND MULT LOOP.

A. IF THE F/F UNIT HAS A FEED-THRU TERMINAL (A LUG LOCATED BETWEEN TS0 AND TS1 AT BOTTOM OF UNIT), THEN DISCONNECT THE 10GA STRAPS FROM THE LUG. THESE STRAPS MUST BE MODIFIED AND RECONNECTED LATER.

B. IF THE F/F UNIT DOES NOT HAVE THE FEED-THRU LUG, DISCONNECT THE 10GA STRAPS AS FOLLOWS:

BETWEEN TS1 04 AND TS0 54
ON TS0 04 (MULTS BACK TO LTP0, WHEN EQUIPPED)
ON TS1 54 (MULTS TO LTP2, WHEN EQUIPPED)

TAG ALL THE 10GA STRAPS. KEEP THE REMOVED ONE AT THE CABINET LOCATION. TIE THE OTHER(S) OUT OF THE WAY.

B2. DISCONNECT THE ALARM MULT LEAD(S) ON TS138. THESE SHOULD BE CONNECTORIZED.

A. IF THE SM IS A SINGLE SMC BAY, NO LEADS WILL BE

*** CONTINUED ***

** CONTINUED **
TABLE ED

CONNECTED.

B. FOR MULTI-CABINET SM(S), DISCONNECT ONLY THE LEADS CONNECTED TO THE SUBJECT F/F UNIT. TAG THE LEADS FOR RECONNECTION LATER.

B3. DISCONNECT ALL CABINET LED CABLES THAT TERMINATE ON TS138. THESE ALSO SHOULD BE CONNECTORIZED. ONLY DISCONNECT THE F/F UNIT ENDS.

B4. DISCONNECT AND TAG ALL S/S-BK (-48V/-48RTN)LEADS, RESPECTIVELY, FROM TS0 AND TS1 ON THE REAR OF THE SUBJECT F/F UNIT.

C. AT THE FRONT OF THE SMC CABINET, CAREFULLY REMOVE THE F/F UNIT MOUNTING SCREWS AND SLIDE THE UNIT FORWARD OUT OF THE CABINET. HANDLE THE UNIT CAREFULLY TO AVOID PERSONAL INJURY OR DAMAGE TO OTHER EQUIPMENT. TAKE THE UNIT TO AN AREA REMOTE FROM THE WORKING AREA.

D. VERIFY THAT THE NEW J5D003AU-2 F/F UNIT STAMPING IS COMPARABLE TO THE J5D003AU-1. THEY SHOULD BOTH BE THE SIDE 1 UNIT. CAREFULLY SLIDE THE NEW J5D003AU-2 F/F UNIT INTO PLACE FROM THE FRONT OF THE CABINET. SECURE THE UNIT TO THE CABINET UPRIGHT. INSTALL THE SPLICE PLATE AND STRAP AT THIS TIME (SEE FIGURE A).

E. RECONNECT THE WIRING THAT WAS REMOVED AND TAGGED IN SECTION B ABOVE.

E1. RECONNECT ALL THE S/S-BK (-48V/-48RTN) LEADS THAT PROVIDE POWER TO THE UNITS IN THE SMC. THEY MUST GO ON THE SAME LUGS AS BEFORE.

E2. RECONNECT THE CABINET LED CABLES THAT TERMINATE ON TS138.

E3. RECONNECT THE ALARM MULT LEAD(S) TO TS138.

A. IF THE SM IS A SINGLE SMC BAY, NO LEADS WILL BE CONNECTED.

B. FOR MULTI-CABINET SM(S), CONNECT THE APPROPRIATELY TAGGED LEADS.

E4. RECONNECT THE FILTER GROUND MULT LOOP.

A. IF THE OLD J5D003AU-1 UNIT HAD NO FEED-THRU TERMINAL LUG, THEN RECONNECT THE 10GA STRAPS AS FOLLOWS:

BETWEEN TS1 04 AND TS0 54
ON TS0 04 (WHEN MULTIPLIED TO LTP0)
ON TS1 54 (WHEN MULTIPLIED TO LTP2)

B. IF THE OLD F/F UNIT HAD A FEED-THRU TERMINAL LUG, THEN A NEW SHORT STRAP WILL HAVE TO BE ADDED AND THE DISCONNECTED LEADS FROM LTP0 AND LTP2 WILL HAVE TO BE MODIFIED AT THE SMC CABINET END.

1. ADD THE NEW ED-5D507-17 G50 10GA STRAP AS FOLLOWS:

BETWEEN TS1 04 AND TS0 54

2. MODIFY THE OTHER STRAPS BY REMOVING THE RING TERMINALS AT THE SMC CABINET END. REPLACE THE RING TERMINALS WITH PUSH-ON LUGS, #41450 (AMP), PROVIDED WITH THE CONVERSION. MAKE SURE THE LEAD LENGTHS ARE CORRECT, DO NOT CUT OFF TOO MUCH LEAD!
CONNECT THE 10GA STRAPS AS FOLLOWS:

ON TS0 04 (THE MULT BACK TO LTP0)
ON TS1 54 (THE MULT BACK TO LTP2)

*** NOTE: A VISUAL VERIFICATION THAT ALL WIRING WAS REPLACED AND IS CORRECT MUST BE MADE. IN ADDITION, THE NEW ADDED LUGS SHOULD BE CHECKED TO SEE THAT THEY ARE SECURE. FROM ADJACENT CABINETS, PERFORM A CONTINUITY CHECK ON THE FILTER GROUND MULT LOOP.

F. REPLACE THE TWO PLUG-IN POWER INPUT FEEDERS (-48B0 AND -48B1) AT THE TOP REAR OF THE NEW J5D003AU-2 F/F UNIT 1. VERIFY THAT THEY

*** CONTINUED ***

** CONTINUED **
TABLE ED

ARE INSERTED IN THEIR PROPER SLOT.

6.1.14 RESTORE POWER TO THE OUT-OF-SERVICE SIDE 1 UNITS IN THE SUBJECT SMC CABINET.

A. AT THE PDF CABINET FOR THIS SMC, INSERT THE ITE-4715 CAPACITOR FORMING TOOL INTO THE PILOT FUSE LOCATION FOR THE -48B0 FUSE POSITION FOR THE NEW F/F UNIT 1. WHEN THE CAPACITOR IS FORMED, CAREFULLY INSERT THE PROPER LOAD FUSE, THEN QUICKLY REMOVE THE ITE-4715 TOOL AND CAREFULLY INSERT THE PILOT FUSE. REPEAT FOR THE -48B1 FUSE POSITION.

B. AT THE SMC, REPLACE ALL APPROPRIATE FUSES FOR THE UNITS PRESENTLY EQUIPPED IN THE SMC. AT THE REAR OF THE F/F UNIT, CHECK SEVERAL FUSED LOCATIONS ON TS0 AND TS1 WITH A VOM AND VERIFY THAT -42.5V TO -52.75V ARE PRESENT. ALSO PERFORM THE VOM CHECK AT THE POWER LUGS FOR EACH EQUIPPED UNIT. THE READING AT THE UNITS SHOULD ALSO BE -42.5V TO -52.75V.

C. VERIFY THAT ALL UNITS EQUIPPED WITH A C&D CONTROL PACK HAVE THE RED "OFF" LED LIT. FOR THOSE UNITS NOT HAVING A C&D PACK, BUT HAVE THEIR POWER CONVERTER PACK UNSEATED, SEAT THE POWER CONVERTER. THE RED "OFF" LED SHOULD LITE.

C1. FOR UNITS WITH C&D PACKS, PRESS THE ON BUTTON AND VERIFY THAT THE "OFF" LED EXTINGUISHES.

C2. FOR UNITS WITH POWER CONVERTER PACKS ONLY, OPERATE THE ON BUTTON ON THE FACEPLATE. THE "OFF" LED SHOULD EXTINGUISH.

D. VISUALLY VERIFY THAT ALL UNITS HAVE POWER RESTORED. ALSO VIEW MCC DISPLAY PAGES 1190,A (MCTSI), 108Y,A (LDSU) AND ANY OTHER EQUIPPED UNIT'S MCC PAGE TO VERIFY POWER.

6.1.15 RESTORE ALL EQUIPPED SMC CABINET SIDE 1 UNITS TO SERVICE AS FOLLOWS:

A. RESTORE DLI 1 TO SERVICE. AT MCC PAGE 1190, ENTER:

RST:DLI=A-1;
OR
POKE 311;
RESPONSE: ATP
RST DLI A 1 COMPLETED

B. RESTORE MCTSI 1 TO SERVICE. AT THE MCC, ENTER:

RST:MCTSI=A-1;
OR
POKE 301;
RESPONSE: ATP
RST MCTSI A 1 COMPLETED

C. RESTORE THE LDSU TO SERVICE. CHANGE TO MCC DISPLAY PAGE 108Y,A WHERE: A = SM#, Y = LDSU #

C1. IF THE LDSU IS A MODEL 1 (J5D003AE-1), ENTER:

RST:LDSUCOM=A-0-1;
OR
POKE 301;
RESPONSE: ATP
RST LDSUCOM A 0 1 COMPLETED

C2. IF THE LDSU IS A MODEL 2 DSU2-LDSUF (J5D003EA-1), ENTER:

RST:LDSU=A-0-1;
OR
POKE 331;
RESPONSE: ATP
RST LDSU A 0 1 COMPLETED

D. RESTORE TO SERVICE SIDE 1 OF ANY OTHER UNITS THAT MAY BE EQUIPPED IN THE SUBJECT SMC. USE THE MCC INPUT MESSAGE METHOD OR USE THE MCC DISPLAY POKE COMMANDS AS ABOVE.

E. AT THE SUBJECT MCC DISPLAY PAGES (1190 FOR MCTSI, 108Y FOR LDSU, ETC.) VERIFY THAT ALL UNITS ARE POWERED AND FUNCTIONING NORMALLY.

*** CONTINUED ***

** CONTINUED **
 TABLE ED
 6.1.16 THIS COMPLETES THE WORK REQUIRED FOR REPLACING THE SIDE 1 J5D003AU-1 F/F UNIT WITH A J5D003AU-2. CONTINUE WITH THE FUSE ALARM TEST AS FOLLOWS:

*** NOTE: THIS TEST VERIFIES THE MINOR ALARM CONDITON THAT OCCURS WHEN A FRAME FUSE IS BLOWN. THE TEST ONLY NEEDS TO BE PERFORMED ON LTP0, SM1 AND LTP2 OF THE SUBJECT SM. USAGE OF THE ITE-5590A FUSE ALARM VERIFICATION TEST SET WILL SIMULATE A BLOWN FUSE. ***

THE ALARM CIRCUIT BEING TESTED SHOULD LIGHT THE RED LED AT THE TOP OF THE CABINET, THE RED LED ON THE ALARM CIRCUIT PACK IN THE UPPER LEFT CORNER OF THE AFFECTED F/F UNIT AND THE RED ALARM LED ASSOCIATED WITH THE C&D PACK ON THE MCTU IN THE SUBJECT SM.

- A. AT THE F/F UNIT FOR LTP0 SIDE 1, INSERT THE ITE-5590A INTO A FUSED POSITION ON THE -48VB0 PORTION OF THE FUSE PANEL.
 RESPONSE: RED "FUSE" LED ON THE CABINET BEZEL LIGHTS
 RED LED ON THE ALARM CIRCUIT PACK (F/F UNIT) LIGHTS
 RED "ALM" LED ON THE SIDE 1 MCTU C&D PACK LIGHTS
- B. REMOVE THE ITE-5590A TEST SET. THE RED LED(S) SHOULD EXTINGUISH.
- C. TRY A COUPLE OF OTHER POSITIONS ON THE -48VB0 PORTION.
- D. REPEAT A THRU C USING THE -48VB1 PORTION OF THE FUSE PANEL
- E. CONTINUE BY PERFORMING A - D FOR SM1 AND, IF EQUIPPED, LTP2.

SAFE STOP POINT (SEE 1.6.1)

6.2 **** FAN UNIT REPLACEMENT ****

*** CAUTION: A SUPPLEMENTARY FLOOR FAN SHOULD BE USED FOR AIR CIRCULATION WHILE THE 3-FAN FAN UNIT IS BEING REPLACED WITH THE 6-FAN FAN UNIT. ***

*** NOTE: THE REX ROUTINES FOR THE SUBJECT SM SHOULD BE INHIBITED BEFORE BEGINNING THE FAN UNIT REPLACEMENT. AT THE MCC, ENTER:

INH:REX,SM=A;
 RESPONSE: OK

6.2.1 VERIFY THAT THE POWER FEEDER CABLES FOR THE FAN UNIT CHANGE ARE ON SITE. THEY SHOULD BE GROUP 1003 AND GROUP 1002 CABLES SHOWN IN TABLE CH ON ED5D731-30. IF THE CABLES HAVE TO BE MADE ON SITE, IT MUST BE NOTED THAT THE LUG AT THE UNIT END OF THE CABLE (I.E., AT THE FAN UNIT END) MUST HAVE HEAT SHRINK APPLIED.

6.2.2 AT EACH F/F UNIT, REMOVE THE FAN FUSES FOR EACH FAN (I.E., REMOVE THE FUSE FOR FAN 1 ON THE -48VA UNIT, THEN THE FUSE FOR FAN 1 ON THE -48VB UNIT). LET THE FAN SPIN DOWN AND RETIRE ANY ALARMS. DO THIS FOR EACH FAN.

6.2.3 DISCONNECT BOTH ENDS OF THE POWER FEEDERS GOING BETWEEN THE F/F UNIT AND THE FAN UNIT. THE OLD FEEDERS SHOULD BE REMOVED FROM THE CABINET BEFORE RUNNING THE NEW ONES.

6.2.4 REMOVE THE WIRING FROM THE OLD FAN UNIT ALARM BOARD. THIS CAN BE DONE BY CUTTING THE LEADS, IF CONNECTED TO A HARD-WIRED ALARM BOARD, OR DISCONNECTING THE CONNECTORIZED CABLES. TAG ALL LEADS/CABLES FOR IDENTIFICATION LATER. IT IS RECOMMENDED TO TAKE OFF THE ALARM MULTIPLE LEADS FIRST. USE THE APPROPRIATE PART OR PARTS OF THE FOLLOWING TABLES FOR IDENTIFICATION:

TABLE - CG	MULTIPLES BETWEEN CABINETS (SEE NOTE AT END OF TABLE CG)
TABLE - CA	FAN TO LED(S)
TABLE - CN	ALARM SC/SD TO IMPU
TABLE - CP	ALARM SC/SD TO TSIU

WARNING: AT THIS POINT, THE ALARMING CAPABILITIES OF THE SUBJECT SM WILL BE REMOVED UNTIL SIDE 0 OF MCTU2 IS INSTALLED.

*** CONTINUED ***

** CONTINUED **
 TABLE ED
 6.2.5 REMOVE THE 3-FAN FAN UNIT.

- A. AT THE FRONT OF THE SMC CABINET, CAREFULLY REMOVE THE FAN UNIT MOUNTING SCREWS.
- B. CAREFULLY REMOVE THE FAN UNIT THRU THE FRONT OF THE SMC CABINET.
- C. STORE THE OLD FAN UNIT IN AN AREA REMOTE FROM THE WORK AREA.

6.2.6 MOUNT AND WIRE THE NEW 6-FAN FAN UNIT.

- A. FROM THE FRONT OF THE SMC CABINET, CAREFULLY SET THE FAN UNIT IN PLACE AND SLIDE IT INTO THE CABINET. SECURE THE UNIT TO THE CABINET USING THE MOUNTING SCREWS AND A FLAT END SCREWDRIVER.
- B. REUSE THE OLD TOWEL BARS (CABLE SUPPORT BRACKET) AND THEIR ASSOCIATED MOUNTING SCREWS. FOR THE NEW LOCATIONS OF THE TOWEL BARS, REFER TO THE SMC CABINET LAYOUT (REAR VIEW) ON SHEET B2 OF ED5D731-30.

C. RUN AND CONNECT THE FAN UNIT POWER CABLES. USE TABLE CH FOR THE LOCATION OF THE ASSOCIATED TERMINATIONS ON THE NEW F/F UNIT AND ON THE NEW FAN UNIT. DO NOT INSERT THE FAN FUSES AT THIS TIME. ALSO REFER TO FIGURE 1 ON SHEET E1 OF ED5D731-30 FOR A PHYSICAL LAYOUT OF THE TERMINALS.

- C1. FOR THE TERMINALS AT THE F/F UNIT END (TS 020 AND TS 114), REFER TO THE LAYOUT IN THE UPPER RIGHT CORNER OF THE FIGURE.
- C2. FOR THE TERMINALS AT THE FAN UNIT END (TS0 - POSITION 050 AND TS1 - POSITION 152), REFER TO THE PORTION OF THE FIGURE REPRESENTING THE J5D003BN-2 FAN UNIT.

D. ADD THE ALARM MULTIPLE WIRING TO THE FAN UNIT ALARM BOARD. USE THE FOLLOWING TABLES FOR IDENTIFICATION:

TABLE - CB	FAN TO CABINET LED(S)
TABLE - CJ	MULTIPLES BETWEEN CABINETS (SEE NOTE AT END OF TABLE)
TABLE - CK	LW FOR FAN ALARM LOOP (SEE NOTE AT END OF TABLE)

6.3 **** MCTU2 SIDE 0 INSTALLATION ****

6.3.1 PREPARE TO MOUNT THE MCTU2 SIDE 0 UNIT.

- A. VISUALLY VERIFY THE UNIT TO BE MOUNTED IS SIDE 0.
 - THE BACKPLANE SHOULD BE STAMPED "SIDE 0".
 - THE SIDE 0 BACKPLANE SHOULD ALSO BE STAMPED "ED-5D649-30".

B. CAREFULLY UNSEAT EACH EQUIPPED PACK, BUT DO NOT REMOVE FROM UNIT CAGE.

6.3.2 MOUNT THE MCTU2 SIDE 0 UNIT.

A. USING THE CARDBOARD/FIBERBOARD, PLACE IT ACROSS THE TOP OF THE FAN UNIT TO PROTECT THE FILTER RAILS. (IT MAY BE DESIRABLE TO TEMPORARILY TURN THE FANS OFF. THE SUPPLEMENTARY FAN MAY BE USED, IF AVAILABLE).

B. CAREFULLY INSTALL THE MCTU2 SIDE 0 UNIT FROM THE FRONT OF THE SMC CABINET.

C. SCREW THE UNIT TO THE CABINET UPRIGHTS USING THE PLENUM SCREWS REMOVED BEFORE.

6.3.3 POWER AND ALARM MCTU2 SIDE 0.

A. ADD AND CONNECT THE NEW MCTU2 SIDE 0 POWER FEEDERS AT THE F/F UNIT AND THE MCTU2. REFER TO TABLE CQ AND CONNECT THE GROUP 1008 AND, IF APPLICABLE, THE GROUP 1006 CABLES (FEATURE A9).

B. INSTALL THE FUSES FOR MCTU2 SIDE 0 REFERRING TO TABLE CQ FOR FUSE ASSIGNMENTS. FUSE AS APPLICABLE.

C. SEAT THE POWER PACK, THE CONTROL AND DISPLAY PACK AND THE DLI
 *** CONTINUED ***

** CONTINUED **
 TABLE ED
 PACK. SEAT ANY OTHER PACKS EQUIPPED. THE RED "OFF" LED(S) SHOULD LIGHT.

D. OPERATE THEIR "ON" BUTTONS AND VERIFY THAT THE RED "OFF" LED(S) EXTINGUISH.

E. SIMULTANEOUSLY OPERATE THE "OFF" & "MOR" BUTTONS TO REMOVE POWER FROM THE MCTSI AND DLI FOR MCTU2 SIDE 0.

6.3.4 ALLOW THE REX THAT WAS INHIBITED EARLIER AS FOLLOWS:

AT THE MCC, ENTER:

ALW:REX,SM=A;
 RESPONSE: OK

6.3.5 THIS COMPLETES THE WORK REQUIRED FOR THE FIRST SHIFT.

***** SAFE STOP POINT (SEE 1.6.2) *****
 ***** END OF WORKSHIFT *****

7. SECOND SHIFT - 6' CABINET

7.1 MCTU2 SIDE 0 CONVERSION

7.1.1 A CONVERSION SM IDENTIFICATION AND A CONVERSION MATERIAL VERIFICATION MUST BE PERFORMED BEFORE PROCEEDING WITH THE CONVERSION PROCEDURE.

THE SM IDENTIFICATION MUST INCLUDE:

- SM NUMBER
- ORIGINAL SM UNIT TYPE
- PROCESSOR CORE BOARD USED (UN515 OR UN520)
- MEMORY PACK POSITIONS USED (MCTU2)
- ORIGINAL LDSU TYPE

THE IDENTIFICATION IS AN OPERATING COMPANY FUNCTION.

THE CONVERSION MATERIAL VERIFICATION MUST INCLUDE:

- AVAILABILITY OF REPLACEMENT UNITS
- PROPER CIRCUIT PACK EQUIPPAGE
- ALL NECESSARY CABLES ARE ON SITE AND ACCOUNTED FOR

THE VERIFICATION IS AN INSTALLATION FUNCTION.

7.1.2 VIEW AND TEST ALL PERIPHERAL UNITS AND THE MCTSI IN THE ORIGINAL SM AS DETAILED BELOW. THIS TESTING MAY BE PERFORMED BY THE OPERATING COMPANY PRIOR TO WORKSHIFT START IN ORDER TO EXPEDITE THE CONVERSION PROCESS.

*** NOTE: ALL POKE AND INPUT MESSAGE REFERENCES ***
 *** TO "A" MEANS THE SUBJECT SM NUMBER. ***

A. AT THE MCC, ENTER:

POKE 1010,A;

VERIFY THAT ALL PERIPHERALS SHOW NORMAL STATUS.

B. PERFORM DIAGNOSTICS ON ALL PERIPHERALS EQUIPPED IN THE SUBJECT SM. AT THE MCC, ENTER:

POKE 1190,A;

- DIAGNOSE EACH DLI. AT THE MCC, FOR EACH DLI, ENTER:

RST:DLI=A-C; (C = ONTC SIDE, 0 OR 1)
 OR
 POKE 31C;
 RESPONSE: RST DLI=A-C COMPLETED

- IF MCTSI 0 IS ACT, EXECUTE A SWITCH BY ENTERING:

SW:MCTSI=A;
 OR

*** CONTINUED ***

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BT13

DETAIL CHANGE SPECIFICATION
 TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

** CONTINUED **
TABLE ED
POKE 403;
RESPONSE: SW MCTSI A COMPLETED

DIAGNOSE EACH MCTSI SIDE STARTING WITH SIDE 0. AT THE MCC,
ENTER:

RST:MCTSI=A-0; UPON RST:MCTSI=A-1,STBY;
OR COMPLETION OR
POKE 300; ENTER POKE 301,STBY;
RESPONSE: RST MCTSI=A-(0/1) COMPLETED

7.1.3 VERIFY THAT MCTSI SIDE 1 WILL OFF-LINE PUMP.

A. AT THE MCC, FORCE MCTSI SIDE 0 ACTIVE BY ENTERING:

ORD:CPI=A,CMD=FRC-0;
RESPONSE: ORD CPI A CMD FRC 0 COMPLETE

B. PERFORM THE OFF-LINE PUMP. AT THE MCC, ENTER:

ST:OPUMP,SM=A,ACTDISK,VFY,NPERF;
RESPONSE: REPT SM=A OFFLINE PUMP COMPLETED

C. CLEAR THE FORCE ON MCTSI 0 AND RETURN MCTSI 1 TO STANDBY
UNCONDITIONALLY. AT THE MCC, ENTER:

ORD:CPI=A,CMD=CLR;
RESPONSE: ORD:CPI A CMD CLR COMPLETE

THEN ENTER:

RST:MCTSI=A-1,UCL,STBY;
RESPONSE: RST MCTSI=A-1 COMPLETED

7.1.4 MAKE A COPY OF THE CURRENT RC/V VIEW 18.1 DATA.

A. AT THE MCC, ENTER POKE COMMAND 196 TO ENTER ODD RCV.

B. SPECIFY THE FOLLOWING OPTIONS:

PRINT OPTION Y
DETAIL OPTION Y
VERBOSE OPTION Y

C. ACCESS RECENT CHANGE VIEW 18.1 IN THE "REVIEW" MODE.

D. ENTER THE FOLLOWING KEY VALUE FOR THE SUBJECT SM:

*1. SM__

E. AT THE MCC, ENTER: P

F. EXIT THE RECENT CHANGE SESSION.

**** CAUTION: SAVE THE PRINTED ROP OUTPUT OF THE ****
**** 18.1 VIEW IN THE EVENT IT BECOMES ****
**** NECESSARY TO BACKOUT THE CONVERSION ****
**** AND RESTORE THE ORIGINAL DATA. ****

7.1.5 INHIBIT THE ROUTINE EXERCISES AND SCHEDULED OPERATIONS. THE
ROUTINE EXERCISES AND SCHEDULED OPERATIONS INHIBITED IN THIS
SECTION WILL HAVE TO BE ALLOWED AT THE CONCLUSION OF THIS PROCEDURE.

A. BACK UP THE OFFICE DEPENDENT DATA. AT THE MCC, ENTER:

BKUP:ODD;
RESPONSE: PF (PRINTOUT FOLLOWS)

WAIT FOR COMPLETION REPORT FROM THE BACKUP.

B. RECORD ANY OFFICE SCHEDULED RUN FOR ODD BACKUP. AT THE MCC,
ENTER:

OP:BKUPSTAT;
RESPONSE: PF (THEN RECORD CONTENT OF OP:BKUPSTAT OUTPUT
MESSAGE)

OR
RESPONSE: NG (INDICATING NO SCHEDULED BACKUP)

*** CONTINUED ***

** CONTINUED **
TABLE ED
C. CLEAR THE SCHEDULED ODD BACKUP. AT THE MCC, ENTER:

CLR:ODDBKUP;
RESPONSE: PF

D. CHECK TO SEE THAT ALL CRAFT BWM ARE IN THE OFFICIAL STATE AND
THERE HAVE BEEN NO TEMP(S) APPLIED TO THE SWITCH. AT THE MCC,
VIEW DISPLAY PAGE 1960.

E. INHIBIT THE FOLLOWING REX ROUTINES. AT THE MCC, ENTER:

INH:DMQ:SRC=REX;
RESPONSE: OK

INH:REX,CM;
RESPONSE: OK

INH:REX,SM=A&&B; (A&&B = ALL SM(S))
RESPONSE: OK

F. REMOVE THE RC/MAC CHANNEL FROM SERVICE. AT THE MCC, ENTER:

POKE 113; TO VIEW THE OS LINKS

- FIND THE RMAS CHANNEL AND ASSOCIATED SDLC.
- CHECK MCC PAGE 121/122 FOR THE SDLC STATUS.
- REMOVE THE SDLC FROM SERVICE.

G. INHIBIT THE AUTO REORGANIZATION. AT THE MCC, ENTER:

INH:REORG;
RESPONSE: OK

H. INHIBIT BREVITY CONTROL. AT THE MCC, ENTER:

INH:BREVC,SM=A;
RESPONSE: OK

I. SET PERIPHERAL VERBOSE. AT THE MCC, ENTER:

SET:PERPH,SM=A,VERBOSE;
RESPONSE: OK

J. ALLOW ADDITIONAL PFR (PERIPHERAL FAULT RECOVERY) MESSAGE
PRINTING. THE FOLLOWING COMMAND ALLOWS ADDITIONAL PFR MESSAGES
TO BE PRINTED AT THE READ ONLY PRINTER (ROP). WITHOUT THIS STEP,
CERTAIN MESSAGES COULD BE OVERLOOKED SINCE THEY ARE ONLY LOGGED.
AT THE MCC, ENTER:

- FOR SOFTWARE RELEASE 5E6 ONLY:

CHG:LPS,MSGCLS=HW_MON,PRINT=ON;
RESPONSE: OK

- FOR SOFTWARE RELEASE 5E7 ONLY:

CHG:LPS,MSGCLS=PFR_MON,PRINT=ON;
RESPONSE: OK

7.1.6 SET FORCE ON THE ORIGINAL MCTSI SIDE 1 IN PREPARATION FOR
INTEGRATING THE NEW MCTU2 SIDE 0 INTO THE SYSTEM. AT THE MCC,
ENTER POKE COMMAND 1190,A; TO VIEW THE MCTSI PAGE OF THE SUBJECT SM.
OBSERVE THAT SIDE 1 IS ACTIVE. IF IT'S NOT, ENTER POKE COMMAND 403;
(SWITCH). ALSO CHECK TO SEE THAT ONTC 1 IS MAJOR ACT. VIEW MCC
PAGE 1209. IF ONTC 1 IS NOT MAJOR ACT, THEN SWITCH ONTC(S) BY
ENTERING POKE 403;

ON MCC PAGE 1190, FORCE THE ORIGINAL MCTSI 1 ACTIVE BY ENTERING
POKE 401; (SET FORCE), FOLLOWED BY A "Y". THE MCC PAGE DISPLAY
SHOULD SHOW SIDE 1 FORCED ACTIVE. THIS ACTION WILL CAUSE THE
REMOVAL OF MCTSI 0 FROM SERVICE. ON PAGE 1209, CHECK TO SEE THAT
ONTC 1 IS ACT MAJOR. IF NOT, SWITCH ONTC.

7.1.7 REMOVE THE ORIGINAL DLI SIDE 0 AND THE BOOT STRAPPER FROM
SERVICE. AT THE MCC, ENTER:

RMV:DLI=A-0;
RESPONSE: RMV DLI A 0 COMPLETED

*** CONTINUED ***

** CONTINUED **
TABLE ED
RMV:BTSR=A;
RESPONSE: RMV BTSR A COMPLETED

7.1.8 POWER DOWN THE ORIGINAL DLI AND MCTSI SIDE 0.

A. POWER DOWN DLI SIDE 0 BY DEPRESSING THE OFF BUTTON ON THE FRONT
OF THE DLI PACK, OR THE OFF BUTTON ON THE CONTROL AND DISPLAY
(C&D) PACK FOR THE DLI. OBSERVE THAT THE YELLOW AND RED LED(S)
ARE LIT.

B. REMOVE POWER FROM MCTSI SIDE 0 BY DEPRESSING THE OFF BUTTON ON
THE FRONT OF THE C&D PACK FOR THAT SIDE. OBSERVE THAT THE YELLOW
AND RED LED(S) ARE NOW LIT FOR MCTSI SIDE 0.

7.1.9 EQUIP PACKS (IF APPLICABLE) AND CABLE THE NEW MCTU2 SIDE 0.

A. *** REFER TO TABLE EH AT THE END OF THIS ECP FOR STEP A ***
*** INFORMATION REGARDING THE OFFICE LDSU TYPE AND CHANGES ***
*** RELATED FOR EACH CONFIGURATION. WHEN COMPLETE WITH THE ***
*** APPROPRIATE ITEM IN TABLE C, RETURN TO PART B, BELOW. ***

B. REMOVE ALL THE FUSES FOR THE ORIGINAL MCTSI SIDE 0.

C. CAREFULLY REMOVE THE DIP SWITCHES FROM THE ORIGINAL MCTSI SIDE 0
AND REPLACE THOSE IN THE MCTU2 WITH THEM. THE OLD ONES CONTAIN
THE CORRECT CONTROL TIME SLOTS ASSIGNED TO THIS SM.
RSM(S) MAY NOT USE THESE SWITCHES.

D. DISCONNECT/RECONNECT THE SIDE 0 NCT LINKS AS INDICATED IN
TABLES CU AND CV OF ED5D731-30, FEATURES A7 AND A8 RESPECTIVELY.
RELOCATE THE FIBER OPTIC WITH THEIR TRANSCIEVERS. REFER TO FIGURE
1 ON SHEET E1 FOR NCT LINK CONNECTIONS.

E. INSTALL THE NEW PICB/PIDB CABLES FOR SIDE 0 IN THE CONVERSION
SM. DISCONNECT ALL CABLE TIES FIRST. IT IS RECOMMENDED TO START
WITH THE PICB(S) FOR EASE OF WORKING.

- START WITH THE PICB FOR THE CI IN THE ORIGINAL MCTSI. UNPLUG
IT.

- FIND THE OTHER END AND CHECK THE EQL. DO NOT UNPLUG IT YET.

- FIND THE NEW PICB CABLE, MATCH THE PERIPHERAL END EQL, UNPLUG
THE PERIPHERAL END AND RECONNECT WITH THE NEW CABLE.

- CONNECT THE MCTSI END (VERIFY THE EQL ON THE CABLE).

F. CONTINUE IN THE ABOVE MANNER UNTIL ALL NEW PICB/PIDB CABLES HAVE
BEEN EQUIPPED IN SIDE 0.

G. IF THE SUBJECT SM IS EQUIPPED WITH A MODEL 1 LOCAL DSU
(J5D003AE-1), VERIFY THAT THERE ARE NO TN833 PACKS EQUIPPED IN
NEW MCTU2 SIDE 0. CONVERSION OF THE MODEL 1 LDSU TO THE
INTEGRATED LDSU, IF DESIRED, MUST BE PERFORMED OUTSIDE OF THIS
PROCEDURE.

H. IF THE SUBJECT SM IS EQUIPPED WITH A DSU2-LDSUF (J5D003EA-1),
THE NEW MCTU2 MUST HAVE A TN833 PACK EQUIPPED IN UNIT POSITION
168 IN BOTH SIDES.

I. ADD AND CONNECT THE NEW MCTU2 SIDE 0 ALARM AND SC/SD CABLES.
REFER TO THE FOLLOWING TABLES FOR TERMINATIONS:

TABLE - CS FAN/MCTU2 SCAN AND DIST CABLE GRP. 1010 (FEAT. A9)
TABLE - CT MCTU2 ALARM CABLE GRP. 1014 (FEAT. A9)

7.1.10 UPDATE MCTSI AND DLI SIDE 0 DATA. THIS WILL INTEGRATE THE
NEW MCTU2 SIDE 0 INTO THE SYSTEM DATABASE AND ACTIVATE IT.
IT IS RECOMMENDED AT THIS POINT TO DUMP THE AMA INFORMATION FOR
THIS SM TO DISK. AT THE MCC, ENTER:

WRT:AMADATA;
RESPONSE: WRT AMA DATA HAS BEEN WRITTEN TO DISK

A. ENTER THE UNIX SHELL IN ORDER TO USE THE SOFTWARE CONVERSION
TOOL THAT WAS PREVIOUSLY DOWN-LOADED. AT THE MCC OR TLWS, ENTER:

RCV:MENU,SH;
*** CONTINUED ***

** CONTINUED **
TABLE ED
RESPONSE: PF

B. AT THE "# PROMPT, ENTER:
CD/UPDTMP
THEN
SMPUTOSMPU4

C. AT THE "DO YOU WANT...?" REQUEST, ENTER:
EXEC

D. AT THE "ENTER ACTION" PROMPT, ENTER:
SIDE-0

E. CONTINUE BY ENTERING THE APPROPRIATE INFORMATION FOR THE QUESTIONS ASKED. WHEN ALL OF THE MCTSI 0 CIRCUIT PACKS HAVE BEEN ENTERED VIA THE MENU, ENTER THE LETTER "E".
RESPONSE: PROGRAM COMPLETE

*** NOTE: VERIFY THAT BKUP:ODD HAS COMPLETED BEFORE CONTINUING ***
*** BY WAITING FOR THE BKUPODD COMPLETED MESSAGE. THERE ***
*** WILL BE THREE MESSAGES PRIOR TO THE FINAL COMPLETED ***
*** MESSAGE. ***

IF THE "# PROMPT DOES NOT RETURN, HIT RETURN.

F. AT THE "# PROMPT, ENTER A CONTROL-D TO EXIT THE UNIX SHELL. AT THIS POINT IN THE CONVERSION PROCEDURE, THE SM IS READY TO CUT OVER TO SIDE 0 OF THE NEW MCTU2. MAKE SURE ALL PREVIOUS STEPS WERE COMPLETED CORRECTLY.

IT IS RECOMMENDED AT THIS POINT TO DUMP THE AMA INFORMATION FOR THIS SM TO DISK. AT THE MCC, ENTER:
WRT:AMADATA;
RESPONSE: WRT AMA DATA HAS BEEN WRITTEN TO DISK

7.1.11 SET ISOLATION. NOTE: AT THIS TIME, CALL PROCESSING WILL BE SUSPENDED.
ENTER THE FOLLOWING INPUT COMMANDS:
SET:ISOL,SM=A;
OR
POKE 403; (MCC PAGE 1800), THEN ANSWER "Y"
RESPONSE: PF
SET:ISOL-SM.....

7.1.12 POWER DOWN ORIGINAL MCTSI AND DLI SIDE 1.

A. FOR MCTSI SIDE 1, REMOVE POWER BY SIMULTANEOUSLY DEPRESSING THE OFF AND MOR BUTTONS ON ITS C&D PACK AT EQL 145-156.

B. FOR DLI SIDE 1, REMOVE POWER BY SIMULTANEOUSLY DEPRESSING THE OFF AND MOR BUTTONS ON THE FRONT OF THE DLI AT EQL 153-176 OF THE SIDE 1 (RIGHT) SHELF OF THE ORIGINAL IMPU/TSIU.

C. OBSERVE THAT THE RED LED(S) ARE NOW LIT.

7.1.13 AT THIS TIME, POWER WILL BE RESTORED TO SIDE 0 MCTSI AND DLI ON THE MCTU2 UNIT.

A. POWER UP SIDE 0 MCTSI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE POWER UNIT LOCATED AT EQL 119-026 OF SIDE 0 (LOWER SHELF) OF THE MCTU2. OBSERVE THAT THE RED LED EXTINGUISHES.

B. POWER UP SIDE 0 DLI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE DLI CIRCUIT PACK LOCATED AT EQL 119-156. OBSERVE THAT THE RED LED EXTINGUISHES.

7.1.14 AT THIS TIME, POWER WILL BE APPLIED TO THE SIDE 0 DSU UNIT ON THE MCTU2 (TN833 PACK). IF THE ORIGINALLY EQUIPPED LDSU WAS A DSU1 (J5D003AE-1), THEN SKIP THIS STEP AND CONTINUE WITH 7.1.15.

A. POWER UP SIDE 0 DSU BY DEPRESSING THE ST BUTTON ON THE FRONT OF

*** CONTINUED ***

** CONTINUED **
TABLE ED
THE TN833 (DSU2) CIRCUIT PACK AT EQL 119-168.

B. OBSERVE THAT THE RED LED ON THE PACK EXTINGUISHES.

7.1.15 CLEAR THE ISOLATION PREVIOUSLY SET AND RESTORE DLI SIDE 0 OF THE CONVERSION SM. THIS ACTION WILL BEGIN INITIALIZATION OF THE CONVERTED SM.

A. ENTER THE FOLLOWING INPUT COMMAND:
CLR:ISOL,SM=A;
OR
POKE 503; (MCC PAGE 1800), THEN ENTER "Y"
RESPONSE: PF
CLR:ISOL.....

B. ENTER THE FOLLOWING INPUT COMMAND:
RST:DLI=A-0,UCL;
OR
POKE 310,UCL; (MCC PAGE 1190)
RESPONSE: PF
RST DLI=A-0 COMPLETED

7.1.16 VIEW MCC DISPLAY PAGE 1900 TO VERIFY THAT THE SM HAS ESTABLISHED C-LINKS AND IS PUMPING. IF THE SM FAILS TO ESTABLISH C-LINKS, THEN MANUALLY TRY TO RESTORE THEM. ON MCC PAGE 1900, USE THE 3XXX POKE COMMAND TO RESTORE THE C-LINKS (WHERE XXX IS THE LINK NUMBER).

7.1.17 THE CONVERTED SM SHOULD INITIALIZE ITSELF. WAIT UNTIL MCTSI SIDE 0 ON THE CONVERTED SMP HAS COMPLETED INITIALIZATION BEFORE CONTINUING WITH THIS PROCEDURE. COMPLETION IS INDICATED BY THE FORCED MESSAGE IN THE SM STATUS BOX ON MCC PAGE 1800 FOR THIS SM. IF THE SMP WILL NOT INITIALIZE OR THERE IS TROUBLE WITH THE NEXT TWO STEPS, USE THE BACK-OUT PROCEDURES IN PARAGRAPH 8.

7.1.18 CALL PROCESSING SHOULD NOW BE RESTORED. UPON COMPLETION OF INITIALIZATION, VERIFY THE CALL PROCESSING CAPABILITIES OF THE CONVERTED SM BY PLACING SEVERAL TEST CALLS ON THE SM.

7.1.19 VERIFY THAT THE SIDE 0 PERIPHERALS ARE FUNCTIONING BY GOING TO THE MCC 1010 PAGE. UNCONDITIONALLY RESTORE ANY OUT-OF-SERVICE PERIPHERALS.
IF ANY PERIPHERALS WILL NOT RESTORE, RECHECK THE PICB/PIDB CABLES.

7.1.20 AT THIS POINT, THE ALARM CAPABILITIES OF THE SUBJECT SM SHOULD HAVE BEEN RESTORED. OPERATE THE "ON" BUTTON OF THE MCTSI AND DLI AND PERFORM THE ALARM VERIFICATION OUTLINED IN SECTION 4.1.1. FOR THE FAN PORTION, CHECK ALL 6 FANS. EXPECT THE SAME RESPONSES AS BEFORE.

SAFE STOP POINT (SEE 1.6.1)

7.2 ORIGINAL SMP HARDWARE REMOVAL

7.2.1 CAREFULLY REMOVE THE REST OF THE FUSES POWERING THE ORIGINAL IMPU/SMPU HARDWARE AND ASSOCIATED POWER CABLES.
- REFER TO TABLE CN FOR THE IMPU
- REFER TO TABLE CP FOR THE TSIU1

7.2.2 DISCONNECT THE SIDE 1 NCT LINKS AS INDICATED IN TABLE CU OF ED5D731-30, FEATURE A7. TAG THEM FOR LATER IDENTIFICATION.

7.2.3 DISCONNECT THE SIDE 1 PICB/PIDB CABLES AND TAG THEM FOR LATER IDENTIFICATION. REFER TO TABLE CW OF ED5D731-30.

7.2.4 CAREFULLY REMOVE THE J5D003AA-2 AND J5D003AB-1 UNITS FROM THE SUBJECT SMC CABINET.

A. NOTE: USE A PIECE OF CARDBOARD/FIBERBOARD AT THE BOTTOM OF THE UNIT CAGE TO CATCH ANY SCREWS THAT MAY BE DROPPED.
CAREFULLY REMOVE THE SCREWS HOLDING THE UNIT TO THE CABINET UPRIGHT AND REMOVE THE UNIT THRU THE FRONT OF THE CABINET.

*** CONTINUED ***

** CONTINUED **
TABLE ED

B. PROCEED WITH THE OTHER UNIT TO BE REMOVED.

7.3 MCTU2 SIDE 1 INSTALLATION

7.3.1 PREPARE TO MOUNT THE MCTU2 SIDE 1 UNIT.

A. VISUALLY VERIFY THE UNIT TO BE MOUNTED IS SIDE 1.
- THE BACKPLANE SHOULD BE STAMPED "SIDE 1".
- THE SIDE 1 BACKPLANE SHOULD ALSO BE STAMPED "ED-5D650-30".

B. CAREFULLY UNSEAT EACH EQUIPPED PACK, BUT DO NOT REMOVE FROM UNIT CAGE.

7.3.2 MOUNT THE MCTU2 SIDE 1 UNIT.

A. USING THE CARDBOARD/FIBERBOARD, PLACE IT ACROSS THE TOP OF THE MCTU2 SIDE 0 UNIT TO PROTECT FROM ANYTHING BEING DROPPED INTO IT.

B. CAREFULLY INSTALL THE MCTU2 SIDE 1 UNIT FROM THE FRONT OF THE CABINET.

C. SCREW THE UNIT TO THE CABINET UPRIGHTS USING THE SCREWS FROM THE REMOVED UNIT.

7.3.3 POWER AND ALARM MCTU2 SIDE 1.

A. ADD AND CONNECT THE NEW MCTU2 SIDE 1 POWER FEEDERS AT THE F/F UNIT AND AT THE MCTU2. REFER TO TABLE CR AND CONNECT THE GROUP 1009 AND, IF APPLICABLE, THE GROUP 1007 CABLES (FEATURE A13).

B. ADD AND CONNECT THE COMMON GROUND STRAPS THAT TIE SIDE 0 AND SIDE 1 TOGETHER. REFER TO TABLE CR, FEATURE A15, GROUP 10 STRAPS. ALSO ADD THE INTER-UNIT RIBBON CABLES BETWEEN MCTU2 SIDE 0 AND SIDE 1 AT THIS TIME. THE CABLES ARE STAMPED ED5D651-25, GROUPS 1-12 WITH TERMINATING LOCATIONS. REFER TO TABLE B ON SHEET D3.

C. INSTALL THE FUSES FOR MCTU2 SIDE 1 REFERRING TO TABLE CR FOR FUSE ASSIGNMENTS. FUSE AS APPLICABLE.

D. SEAT THE POWER PACK, THE CONTROL AND DISPLAY PACK AND THE DLI PACK. SEAT ANY OTHER PACKS EQUIPPED. THE RED "OFF" LED(S) SHOULD LIGHT.

E. OPERATE THE ON BUTTONS AND VERIFY THAT THE RED "OFF" LED(S) EXTINGUISH.

F. SIMULTANEOUSLY OPERATE THE OFF AND MOR BUTTONS TO REMOVE POWER FROM THE MCTSI AND DLI.

G. ADD AND CONNECT THE NEW MCTU2 SIDE 1 ALARM AND SC/SD CABLES. REFER TO THE FOLLOWING TABLES FOR TERMINATIONS:

TABLE - CS	FAN/MCTU2 SCAN AND DIST CABLE (FEATURE A13)
TABLE - CT	MCTU2 ALARM CABLE (FEATURE A13)

7.3.4 AT THIS TIME, THE ALARM CAPABILITIES OF THE SUBJECT SM FOR SIDE 1 MCTU2 SHOULD HAVE BEEN RESTORED. OPERATE THE "ON" BUTTON OF THE MCTSI AND DLI AND PERFORM THE ALARM VERIFICATION OUTLINED IN SECTION 4.1.1. BEFORE BEGINNING THOSE STEPS, GO TO THE FAN UNIT ALARM BOARD AND DISCONNECT THE CABLE ON TERMINAL 200. THIS WILL ASSURE USAGE OF THE SIDE 1 ALARM CIRCUIT. FOR THE FAN PORTION, CHECK ALL 6 FANS. EXPECT THE SAME RESPONSES AS BEFORE. WHEN COMPLETE, RESTORE THE CABLE CONNECTOR ONTO TERMINAL 200 OF THE FAN UNIT ALARM BOARD.

7.3.5 EQUIP PACKS (IF APPLICABLE) AND CABLE THE NEW MCTU2 SIDE 1.

A. *** REFER TO TABLE EI AT THE END OF THIS ECP FOR STEP A ***
*** INFORMATION REGARDING THE OFFICE LDSU TYPE AND CHANGES ***
*** RELATED FOR EACH CONFIGURATION. WHEN COMPLETE WITH THE ***
*** APPROPRIATE ITEM IN TABLE D, RETURN TO PART B, BELOW. ***

B. CAREFULLY REMOVE THE DIP SWITCHES FROM THE ORIGINAL MCTSI SIDE 1 AND REPLACE THOSE IN THE MCTU2 WITH THEM. THE OLD ONES CONTAIN THE CORRECT TIME SLOTS ASSIGNED TO THIS SM.

*** CONTINUED ***

** CONTINUED **
TABLE ED

RSM(S) MAY NOT USE THESE SWITCHES.

C. RECONNECT THE SIDE 1 NCT LINKS AS INDICATED IN TABLES CU AND CV OF ED5D731-30, FEATURES A11 AND A12 RESPECTIVELY. RELOCATE THE FIBER OPTIC WITH THEIR RESPECTIVE TRANSCIEVERS.

D. INSTALL THE NEW PICB/PIDB CABLES FOR SIDE 1 IN THE CONVERSION SM. DISCONNECT ALL CABLE TIES, IF NOT ALREADY DONE. IT IS RECOMMENDED TO START WITH THE PICB(S) FOR EASE OF WORKING.

- START WITH THE PICB FOR THE CI FROM THE ORIGINAL MCTSI. UNPLUG IT.
- FOLLOW IT TO THE PERIPHERAL END AND NOTE THE EQL. DO NOT UNPLUG IT.
- FIND THE NEW PICB CABLE, MATCH THE PERIPHERAL END EQL, UNPLUG THE PERIPHERAL END AND RECONNECT WITH THE NEW CABLE.
- CONNECT THE MCTU2 END (VERIFY THE EQL ON THE CABLE).

E. CONTINUE IN THE ABOVE MANNER UNTIL ALL NEW PICB/PIDB CABLES HAVE BEEN EQUIPPED IN SIDE 1.

F. IF THE SUBJECT SM IS EQUIPPED WITH A MODEL 1 LOCAL DSU (J5D003AE-1), VERIFY THAT THERE ARE NO TN833 PACKS EQUIPPED IN THE NEW MCTU2 SIDE 1. CONVERSION OF THE MODEL 1 LDSU TO THE INTEGRATED LDSU, IF DESIRED, MUST BE PERFORMED OUTSIDE OF THIS PROCEDURE.

G. IF THE SUBJECT SM IS EQUIPPED WITH A DSU2-LDSUF (J5D003EA-1), THE NEW MCTU2 MUST HAVE A TN833 PACK EQUIPPED IN UNIT EQL 168 IN BOTH SIDES.

7.4 MCTU2 SIDE 1 CONVERSION

7.4.1 UPDATE MCTSI AND DLI SIDE 1 DATA. THIS WILL INTEGRATE THE NEW MCTU2 SIDE 1 INTO THE SYSTEM DATABASE AND ACTIVATE IT. IT IS RECOMMENDED AT THIS POINT TO DUMP THE AMA INFORMATION FOR THIS SM TO DISK. AT THE MCC, ENTER:

WRT:AMADATA;
RESPONSE: WRT AMA DATA HAS BEEN WRITTEN TO DISK

A. ENTER THE UNIX SHELL IN ORDER TO USE THE SOFTWARE CONVERSION TOOL THAT WAS PREVIOUSLY DOWN-LOADED. AT THE MCC OR TLWS, ENTER:

RCV:MENU,SH;
RESPONSE: PF

B. AT THE "#" PROMPT, ENTER:

CD/UPDTMP
THEN
SMPUTOSMPU4

C. AT THE "DO YOU WANT..?" REQUEST, ENTER:

EXEC

D. AT THE "ENTER ACTION" PROMPT, ENTER:

SIDE-1

E. CONTINUE BY ENTERING THE APPROPRIATE INFORMATION FOR THE QUESTIONS ASKED. WHEN ALL OF THE MCTSI 1 CIRCUIT PACKS HAVE BEEN ENTERED VIA THE MENU, ENTER THE LETTER "E".

RESPONSE: PROGRAM COMPLETE

IF THE "#" PROMPT DOES NOT RETURN, HIT RETURN.

F. AT THE "#" PROMPT, ENTER A CONTROL-D TO EXIT THE UNIX SHELL. AT THIS POINT IN THE CONVERSION PROCEDURE, THE SM IS READY TO CUT OVER TO SIDE 1 OF THE NEW MCTU2. MAKE SURE ALL PREVIOUS STEPS WERE COMPLETED CORRECTLY!

*** CONTINUED ***

** CONTINUED **
TABLE ED

7.4.2 AT THIS TIME, MCTU2 SIDE 1 AND DLI 1 WILL BE POWERED UP.

A. POWER UP SIDE 1 MCTSI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE POWER UNIT LOCATED AT EQL 128-026 OF SIDE 1 (UPPER SHELF) OF THE MCTU2. OBSERVE THAT THE RED LED EXTINGUISHES.

B. POWER UP SIDE 1 DLI BY DEPRESSING THE ON BUTTON ON THE FRONT OF THE DLI CIRCUIT PACK LOCATED AT EQL 128-156. OBSERVE THAT THE RED LED EXTINGUISHES.

7.4.3 AT THIS TIME, POWER WILL BE APPLIED TO SIDE 1 DSU UNIT ON THE MCTU2 (TN833 PACK). IF THE ORIGINALLY EQUIPPED LDSU WAS A DSU1 (J5D003AE-1), THEN SKIP THIS STEP AND CONTINUE WITH 7.4.4.

A. POWER UP SIDE 1 DSU BY DEPRESSING THE ST BUTTON ON THE FRONT OF OF THE TN833 (DSU2) CIRCUIT PACK AT EQL 128-168.

B. OBSERVE THAT THE RED LED ON THE PACK EXTINGUISHES.

7.4.4 RESTORE DLI 1 AND MCTSI SIDE 1 OF THE CONVERTED SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC, ENTER:

RST:DLI=A-1;
OR
POKE 311; (MCC PAGE 1190)
RESPONSE: PF
RST DLI=A-1 COMPLETED

AND

RST:MCTSI=A-1;
OR
POKE 301;
RESPONSE: PF
RST MCTSI=A-1 COMPLETED

AT THE MCC, VIEW PAGE 1010 AND VERIFY THAT ALL PERIPHERALS IN THE SUBJECT CONVERSION SM ARE OPERATING NORMALLY. PERFORM DIAGNOSTICS ON ANY UNIT EXPERIENCING PROBLEMS.

7.4.5 RESTORE MCTSI SIDE 0 OF THE CONVERTED SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC, ENTER THE FOLLOWING:

RST:MCTSI=A-0;
OR
POKE 300;
RESPONSE: PF
RST MCTSI=A-0 COMPLETED

THIS STEP MUST BE COMPLETED SUCCESSFULLY BEFORE CONTINUING!

7.4.6 RESTORE DLI 0 OF THE CONVERTED SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC, ENTER THE FOLLOWING:

RST:DLI=A-0;
OR
POKE 310;
RESPONSE: PF
RST DLI=A-0 COMPLETED

7.4.7 PRINT THE INFORMATION IN RCV VIEW 18.1.

A. ENTER RECENT CHANGE AT THE MCC BY TYPING "196".

B. SPECIFY THE FOLLOWING OPTIONS:

- PRINT OPTION Y
- DETAIL OPTION Y
- VERBOSE OPTION Y

C. ACCESS RECENT CHANGE VIEW 18.1 IN THE REVIEW MODE:

*1 SM ___

D. ENTER "P" TO GET A PRINTOUT OF THE VIEW.

E. EXIT THE RECENT CHANGE SESSION.

7.4.8 VERIFY THE DATA WRITTEN IN THE FOLLOWING ATTRIBUTES:

A. ATTRIBUTE 3. UNIT TYPE IS:

*** CONTINUED ***

** CONTINUED **
TABLE ED

- SMPU4

B. ATTRIBUTE 15. MCTSI 0 CLI,
ATTRIBUTE 16. MCTSI 1 CLI IS:

- 10DC IF THE MCTSI IS EQUIPPED WITH A UN515 PROCESSOR CORE BOARD
- 90DC IF THE MCTSI IS EQUIPPED WITH A UN520 PROCESSOR CORE BOARD

C. ATTRIBUTE 13. DLI 0 CLI,
ATTRIBUTE 14. DLI 1 CLI IS:

- 5 IF THE SM IS AN LSM OR RSM WITH 2 LINKS AND DIP SWITCHES
- 7 IF THE SM IS AN RSM WITH 4 LINKS AND NO DIP SWITCHES

D. ATTRIBUTES 41. - 52. ARE CONSISTENT WITH THE MEMORY BOARDS EQUIPPED IN THE MCTU2.

- 200 IF THE MEMORY BOARD EQUIPPED IS A TN1374 (4MB)
- 4000 IF THE MEMORY BOARD EQUIPPED IS A TN1376 (8MB)
- 20000 IF THE MEMORY BOARD EQUIPPED IS A TN1661 (16MB)

7.4.9 IF THE SUBJECT SM WAS EQUIPPED WITH A DSU2 (J5D003EA-1) UNIT AND THE LDSU FUNCTION HAS MIGRATED TO THE MCTU2 SHELVES DURING THIS CONVERSION, CONTINUE WITH THIS SECTION. OTHERWISE CONTINUE WITH SECTION 7.4.10. THIS SECTION UPDATES THE VERTICAL POSITION (EQL) OF THE LDSU IN RCV 19.5.

A. ACCESS RCV AS BEFORE, EXCEPT IN THE UPDATE MODE.

B. ENTER THE FOLLOWING KEY VALUES FOR THE CONVERSION SM:

- *1. SM ___
- *2. DSU ___
- *3. SG 0

C. CHANGE ATTRIBUTE 13. EQLUNVER TO 15.

D. UPDATE THE FORM:

RESPONSE: UPDATING.....FORM UPDATED

E. ACCESS RC VIEW 19.5 IN THE UPDATE MODE AGAIN.

F. ENTER THE FOLLOWING KEY VALUES FOR THE CONVERSION SM.

- *1. SM ___
- *2. DSU ___
- *3. SG 1

G. CHANGE ATTRIBUTE 13. EQLUNVER TO 24

H. UPDATE THE FORM

RESPONSE: UPDATING.....FORM UPDATED

I. EXIT THE RECENT CHANGE SESSION.

J. PERFORM AN ODD BACKUP AT THIS TIME. AT THE MCC, ENTER:

BKUP:ODD;
RESPONSE: PF

*** CAUTION: THE BKUP MUST COMPLETE BEFORE CONTINUING WITH STEP K - INITIALIZATION AND PUMP. ***

IT IS RECOMMENDED AT THIS POINT TO DUMP THE AMA INFORMATION FOR THIS SM TO DISK. AT THE MCC, ENTER:

WRT:AMADATA;
RESPONSE: WRT AMA DATA HAS BEEN WRITTEN TO DISK

K. GET TO MCC PAGE 1800. PERFORM A FULL INITIALIZATION WITH PUMP BY ENTERING: POKE 923;
RESPONSE WILL ASK: ARE YOU SURE?(Y,N) ENTER: Y

WAIT UNTIL THE ACTION HAS COMPLETED BEFORE CONTINUING.

7.4.10 ENABLE THE REX, SCHEDULED OPERATIONS AND ANYTHING ELSE THAT WAS INHIBITED EARLIER. AT THE MCC, ENTER THE FOLLOWING:

*** CONTINUED ***

** CONTINUED **
TABLE ED

A. ALW:AUD,SM=A;
RESPONSE: OK

B. ALW:DMQ:SRC=REX;
RESPONSE: PF

C. ALW:REX,CM;
RESPONSE: OK

D. ALW:REX,SM=A&&B; (A&&B = ALL SM(S))
RESPONSE: OK

E. RESTORE THE RC/MAC CHANNEL TO SERVICE. AT THE MCC, ENTER:

POKE 113; (TO VIEW THE OS LINKS AND VERIFY
THE SUBJECT SDLC IS 00S)

POKE 121/122; (TO VIEW THE PC COMMUNITY THAT THE
SUBJECT SDLC IS LOCATED)

AT THE MCC, ENTER THE FOLLOWING TO RESTORE THE SDLC:

RST:SDLC=A; (WHERE: A = MEMBER #)
RESPONSE: PF
RST SDLC A COMPLETED

F. IF AN OFFICE SCHEDULED RUN FOR ODD BACKUP HAD BEEN
RECORDED IN SECTION 7.1.5 (B), THEN USE THE SAME SCHEDULE
IN THE FOLLOWING MESSAGE TO REQUEST SCHEDULED ODD BACKUP.
AT THE MCC, ENTER:

BKUP:ODD,EVERY=A,AT=B:

WHERE: A = # OF DAYS FOR EVERY ODD BACKUP TO RUN
B = TIME OF DAY IN THE HOUR AND MINUTE

RESPONSE: PF
BKUP ODD COMPLETED

G. ALW:REORG;
RESPONSE: OK

H. ALW:BREVC,SM=A;
RESPONSE: OK

I. CLR:PERPH,SM=A,VERBOSE;
RESPONSE: OK

J.
*** NOTE: IF ANY DATABASE REORGANIZATIONS WERE MISSED BECAUSE OF ***
*** THE INHIBIT IN EFFECT DURING THE CONVERSION, IT MAY ***
*** BE DESIRABLE TO START A REORGANIZATION NOW RATHER THAN ***
*** WAITING FOR THE NEXT SCHEDULED ONE. IF SO, AT THE MCC, ***
*** ENTER: ***

EXC:REORG;
RESPONSE: PF
REPT REORG COMPLETED

K. TURN THE ADDITIONAL PFR MESSAGE PRINTING OFF. AT THE MCC,
ENTER:

FOR 5E6 ONLY: CHG:LPS,MSGCLS=HW_MON,PRINT=OFF;
RESPONSE: OK

FOR 5E7 ONLY: CHG:LPS,MSGCLS=PFR_MON,PRINT=OFF;
RESPONSE: OK

7.4.11 MAKE AN ODD BACKUP TAPE. USE THE STANDARD PROCEDURES FOR
THIS OFFICE TO MAKE THE BACKUP TAPE.

7.5 CONVERSION COMPLETION

7.5.1 PERFORM THE FOLLOWING ITEMS TOWARDS COMPLETING THE CONVERSION
PROCESS.

- SECURE THE LOOSE CABLES WITH CABLE TIES AND NEATLY DRESS THEM
*** CONTINUED ***

** CONTINUED **
TABLE ED

INTO THE CABINET. NEATLY SECURE THE CABLE ARMS TO THEIR
ASSOCIATED TOWEL BARS (CABLE SUPPORTS) IN ORDER TO BE CLEAR OF
THE CABINET DOOR CLOSURE.

- INSTALL A PLENUM ON THE FRONT AND REAR AT EACH EQL LEVEL THAT HAS
AN 8-1/2 INCH HIGH OPENING. THE PLENUMS SHOULD HAVE BEEN ORDERED
AND BE ON SITE FOR THE SUBJECT SYSTEM. THIS WILL CONTAIN THE FLOW
OF AIR WITHIN THE CABINET AND RAISE THE EFFICIENCY OF THE FAN'S
COOLING CAPABILITIES.

- REMOUNT ALL CABINET DOORS THAT WERE REMOVED TO OBTAIN NECESSARY
ACCESS FOR PERFORMING THE VARIOUS HARDWARE AND CABLING CHANGES.
THE DOOR SHOULD OPEN AND CLOSE FREELY. IF NECESSARY, THE TOP PIVOT
BRACKET CAN BE ADJUSTED HORIZONTALLY TO ACHIEVE A SMOOTH
OPERATION.

- IF NOT ALREADY DONE, AFFIX THE NEW FUSE LABELS BENEATH THE FRONT
BEZEL OF THE SMC CABINET. THE LABELS SHOULD REFLECT THE FUSE
LAYOUT OF THE F/F UNIT.

7.5.2 THIS SHOULD COMPLETE THE WORK REQUIRED FOR THE SMP20
CONVERSION IN THE 6-FOOT SMC CABINET.

TABLE EE
8. BACKOUT PROCEDURES

8.1 THIS BACKOUT SECTION IS INTENDED TO GET THE SM BACK TO THE
ORIGINAL MCTSI SIDE 1. ONCE THE SM IS OPERATING ON SIDE 1, THE
PROCEDURE SHOULD BE STOPPED AND THE REASON THE CONVERTED SIDE 0
WOULD NOT INITIALIZE SHOULD BE INVESTIGATED. AFTER THE PROBLEM
IS RESOLVED CONTINUE WITH SECTION 5.1.11 (7 FT) OR 7.1.11
(6 FT). IF IT IS NECESSARY TO RESTORE SIDE 0 OF THE ORIGINAL
MCTSI TO ACHIEVE FULL DUPLEX, CALL TECHNICAL ASSISTANCE.

8.1.1 POWER DOWN MCTU2 SIDE 0 AND DLI SIDE 0. (ALSO VERIFY THAT
THE ORIGINAL MCTSI AND DLI SIDE 1 IS POWERED DOWN).

**** NOTE: BEFORE EXECUTION OF THE BACKOUT ****
**** TOOL, MCTU2 AND DLI SIDE 0 MUST ****
**** BE POWERED DOWN. ****

A. POWER DOWN MCTU2 SIDE 0 BY DEPRESSING THE OFF AND MOR BUTTONS
SIMULTANEOUSLY ON THE UN516 PACK AT EQL 126-026 (7 FT) OR
119-026 (6 FT).

B. POWER DOWN DLI 0 SIDE 0 (TN1077B) AT EQL 126-156 (7 FT) OR
119-056 (6 FT) BY DEPRESSING ITS "OFF" AND "MOR" BUTTONS
SIMULTANEOUSLY.

8.1.2 POWER UP THE ORIGINAL DLI SIDE 1 AND MCTSI SIDE 1.

A. POWER UP THE ORIGINAL DLI SIDE 1 BY DEPRESSING THE ON BUTTON ON
THE SN412 PACK AT EQL 160-176 (7 FT) OR 153-176 (6 FT).

B. POWER UP THE ORIGINAL MCTSI SIDE 1 BY DEPRESSING THE "ON" BUTTON
ON THE CONTROL AND DISPLAY PACK AT EQL 151-156 (7 FT) OR
145-156 (6 FT).

8.1.3 UNCONDITIONALLY RESTORE DLI SIDE 1. AT THE MCC, ENTER:

RST:DLI=A-1,UCL;
RESPONSE: RST DLI=A-1 COMPLETED

8.1.4 INHIBIT THE SOFTWARE AND THE HARDWARE CHECKS. AT THE MCC ON
DISPLAY PAGE 1800,X (X=SM#), INPUT THE FOLLOWING INHIBITS:

POKE 604; (SOFTWARE CHECKS)
POKE 608; (HARDWARE CHECKS)

8.1.5 VIEW MCC DISPLAY PAGE 1900 TO VERIFY THAT THE SM HAS
ESTABLISHED C-LINKS AND IS PUMPING. IF THE SM FAILS TO
ESTABLISH C-LINKS, THEN MANUALLY TRY TO RESTORE THEM. ON
MCC PAGE 1900, USE THE 3XXX POKE COMMAND TO RESTORE THE
C-LINKS (WHERE XXX IS THE LINK NUMBER).

*** CONTINUED ***

** CONTINUED **
TABLE EE

8.1.6 THE SM SHOULD INITIALIZE ITSELF. WAIT UNTIL THE ORIGINAL
SIDE 1 MCTSI HAS COMPLETED INITIALIZATION BEFORE CONTINUING
WITH THIS PROCEDURE. COMPLETION IS INDICATED BY THEBACKOUT
MESSAGE IN THE SM STATUS BOX ON MCC PAGE 1800 FOR THIS SM.

8.1.7 BACK OUT MCTU2 AND DLI SIDE 0 DATA. ENTER THE UNIX SHELL IN
ORDER TO USE THE SOFTWARE CONVERSION TOOL FOR THE BACKOUT
PROCEDURE.

A. AT THE MCC OR TLWS, ENTER:

RCV:MENU,SH;
RESPONSE: PF

B. AT THE "#" PROMPT, ENTER:

CD/UPDTMP
SMPUTOSMPU4

THEN

C. AT THE "DO YOU WANT...?" REQUEST, ENTER:

EXEC

D. AT THE "ENTER ACTION" PROMPT, ENTER:

BKOUT

E. AT THE "ENTER THE SM NUMBER" PROMPT, ENTER THE NUMBER OF THE SM
UNDERGOING THE CONVERSION.

RESPONSE: PROGRAM COMPLETE

*** NOTE: VERIFY THAT THE BKUP:ODD HAS COMPLETED BEFORE ***
*** CONTINUING BY WAITING FOR THE BKUP:ODD COMPLETED ***
*** MESSAGE. THERE WILL BE THREE MESSAGES PRIOR TO ***
*** THE FINAL COMPLETED MESSAGE. ***

IF THE "#" PROMPT DOES NOT RETURN, HIT RETURN.

F. AT THE "#" PROMPT, ENTER A CONTROL-D TO EXIT THE UNIX SHELL.

G. RESTORE THE BOOTSTRAPPER OF THE ORIGINAL SM. AT THE MCC, ENTER:

RST:BTSR=A,UCL;
OR
POKE 302,UCL; (MCC PAGE 1190)
RESPONSE: PF
RST BTSR=A COMPLETED

ON MCC PAGE 1190, VERIFY THAT THE BOOTSTRAPPER HAS BEEN
RESTORED.

H. WITH THE ORIGINAL SIDE 1 ON-LINE, INITIALIZE AGAIN (MCC PAGE
1800, POKE 923;). AFTER INITIALIZATION, ALLOW THE SOFTWARE
AND HARDWARE CHECKS BY ENTERING:

POKE 704; (SOFTWARE CHECKS)
POKE 708; (HARDWARE CHECKS)

8.1.8 CALL PROCESSING SHOULD NOW BE RESTORED. UPON COMPLETION OF
INITIALIZATION, VERIFY THE CALL PROCESSING CAPABILITIES OF
THE SUBJECT SM BY PLACING SEVERAL TEST CALLS THROUGH IT.

8.1.9 VERIFY THAT THE SIDE 1 PERIPHERALS ARE FUNCTIONING BY GOING
TO THE MCC 1010 PAGE FOR THE SUBJECT SM. UNCONDITIONALLY
RESTORE ANY OUT-OF-SERVICE PERIPHERALS. IF ANY PERIPHERALS WILL NOT
RESTORE, CHECK THEIR PICB/PIDB CABLE LOCATIONS AND CONNECTIONS.

8.1.10 AT THIS POINT, THE SM SHOULD BE PROCESSING ON ORIGINAL SIDE 1.
THE MCTU2 MAY NOW BE INVESTIGATED. WHEN THE PROBLEM(S) HAVE
BEEN RESOLVED, CONTINUE WITH SECTION 5.1.11 (7 FT) OR 7.1.11 (6 FT),
PREPARATION AND ACTIVATION OF SIDE 0 MCTU2.

8.1.11 IF THE PROBLEM(S) CANNOT BE RESOLVED OR FOUND BEFORE THE END
OF THE WORKSHIFT, AND THE SYSTEM MUST BE RESTORED TO DUPLEX,
(SEE NOTE BELOW), CONTINUE WITH THE MCTU2 SIDE 0 BACKOUT (SECTION
8.2) FOLLOWED BY THE ORIGINAL SIDE 0 RESTORAL (SECTION 8.3).

*** CONTINUED ***

** CONTINUED **
 TABLE EE
 TECHNICAL ASSISTANCE WILL BE REQUIRED.

*** NOTE: A TOTAL BACKOUT TO DUPLEX IS NOT REQUIRED IF THE OPERATING COMPANY AND INSTALLATION AGREE THAT THE SYSTEM CAN BE LEFT SIMPLEX (SIDE 1 OF ORIGINAL MCTSI IS ACTIVE). THEREFORE, SECTIONS 8.2 AND 8.3 CAN BE CONSIDERED OPTIONAL. ***

8.2 BACKOUT OF MCTU2 SIDE 0.

8.2.1 RECABLE AND REPOWER ORIGINAL MCTSI SIDE 0.

A. RECONNECT THE MCTU2 SIDE 0 NCT LINKS BACK TO THE ORIGINAL MCTSI SIDE 0. REFER TO SECTION 5.1.9, PART D (7 FT) OR 7.1.9, PART D (6 FT). @

B. RECONNECT THE MCTU2 SIDE 0 PICB AND PIDB CABLES BACK TO THE ORIGINAL MCTSI SIDE 0. REFER TO SECTION 5.1.9, PART E (7 FT) OR 7.1.9, PART E (6 FT). @

C. REPLACE ORIGINAL MCTSI SIDE 0 FUSES AND, IF APPLICABLE, THE LDSU FUSES INTO THE ORIGINAL FUSE PANEL.

8.3 ACTIVATION OF ORIGINAL MCTSI SIDE 0.

8.3.1 POWER UP THE ORIGINAL MCTSI SIDE 0 AND DLI SIDE 0.

A. POWER UP THE ORIGINAL MCTSI SIDE 0 BY DEPRESSING THE "ON" BUTTON ON THE FRONT OF THE C&D PACK AT LOCATION 151-032 (7 FT) OR 145-032 (6 FT). OBSERVE THAT THE RED OOS LAMP EXTINGUISHES.

B. POWER UP THE ORIGINAL DLI SIDE 0 BY DEPRESSING THE "ON" BUTTON ON THE FRONT OF THE DLI CIRCUIT PACK AT LOCATION 160-008 (7 FT) OR 153-008 (6 FT). OBSERVE THAT THE RED OOS LAMP EXTINGUISHES.

8.3.2 RESTORE DLI 0 AND MCTSI 0 OF THE ORIGINAL SM TO SERVICE WITH A DIAGNOSTIC. AT THE MCC ENTER:

RST:DLI=A-0;
 OR
 POKE 310; (MCC PAGE 1190)
 RESPONSE: PF
 RST DLI=A-0 COMPLETED

AND

RST:MCTSI=A-0;
 OR
 POKE 301;
 RESPONSE: PF
 RST MCTSI=A-0 COMPLETED

AT THE MCC, VIEW PAGE 1010 AND VERIFY THAT ALL PERIPHERALS IN THE SUBJECT SM ARE OPERATING NORMALLY. PERFORM DIAGNOSTICS ON ANY UNIT EXPERIENCING PROBLEMS.

8.3.3 ENABLE THE REX, SCHEDULED OPERATIONS AND ANYTHING ELSE THAT WAS INHIBITED EARLIER. AT THE MCC, ENTER THE FOLLOWING:

A. ALW:REX,ALL;
 RESPONSE: OK

B. ALW:REX,CM;
 RESPONSE: OK

C. ALW:REX,SM=A&B; (A&B = ALL SM(S))
 RESPONSE: OK

D. IF AN OFFICE SCHEDULED RUN FOR ODD BACKUP HAD BEEN RECORDED IN SECTION 5.1.5(B) (7 FT) OR 7.1.5(B) (6 FT), THEN USE THE SAME SCHEDULE IN THE FOLLOWING MESSAGE TO REQUEST SCHEDULED ODD BACKUP. AT THE MCC, ENTER:

BKUP:ODD,EVERY=A,AT=B;

WHERE: A = # OF DAYS FOR EVERY ODD BACKUP TO RUN
 B = TIME OF DAY IN THE HOUR & MINUTE

RESPONSE: PF

*** CONTINUED ***

** CONTINUED **
 TABLE EE
 BKUP ODD COMPLETED

E. ALW:REORG;
 RESPONSE: OK

F. ALW:BREVC,SM=A;
 RESPONSE: OK

G. CLR:PERPH,SM=A,VERBOSE;
 RESPONSE: OK

H. *** NOTE: IF ANY DATABASE REORGANIZATIONS WERE MISSED BECAUSE OF THE INHIBIT IN EFFECT DURING THE CONVERSION, IT MAY BE DESIRABLE TO START A REORGANIZATION NOW RATHER THAN WAITING FOR THE NEXT SCHEDULED ONE. IF SO, AT THE MCC, ENTER: ***

EXC:REORG;
 RESPONSE: PF
 REPT REORG COMPLETED

I. TURN THE ADDITIONAL PFR MESSAGE PRINTING OFF. AT THE MCC, ENTER: @

FOR 5E6 ONLY: CHG:LPS,MSGCLS=HW_MON,PRINT=OFF;
 RESPONSE: OK

FOR 5E7 ONLY: CHG:LPS,MSGCLS=PFR_MON,PRINT=OFF;
 RESPONSE: OK

8.3.4 BOTH SIDES OF THE ORIGINAL MCTSI SHOULD NOW BE POWERED AND ACTIVATED. THE SUBJECT SM SHOULD BE RUNNING FULL DUPLEX. LOCAL DETERMINATION BETWEEN THE CUSTOMER, INSTALLATION, RTAC AND ANY OTHER SUPPORT ORGANIZATION SHOULD BE MADE FOR TROUBLESHOOTING ANY UNRESOLVED MCTU2 SIDE 0 PROBLEM(S).

TABLE EF
 (FOR 7 ' CABINET - SIDE 0)

REMOVE LDSU SG 0 FROM SERVICE AS SHOWN BELOW, AND POWER IT DOWN.

AT THE MCC, ENTER:

RMV:LDSU=A-B-0; (WHERE: A = SM#, B = DSU#)
 OR
 (DSU1) POKE 200; (MCC DISPLAY PAGE 108Y,X Y=LDSU#, X=SM#)
 OR
 (DSU2) POKE 230; (MCC DISPLAY PAGE AS ABOVE).

AFTER POWERED DOWN, FOLLOW THE APPROPRIATE ITEM BELOW AND WHEN COMPLETED, RETURN TO SECTION 5.1.9, PART B.

1.A. IF THE SM IS EQUIPPED WITH A DSU2 (J5D003EA-1) WITH TN833 CIRCUIT PACKS, THE LDSU FUNCTION WILL AUTOMATICALLY MIGRATE DOWN TO THE NEW TN833 PACK THAT IS EQUIPPED IN THE MCTU2 AT EQL 119-168 (SG0).

B. ON THE MCTU2 AT EQL 119, VERIFY THAT THE TN833 IS EQUIPPED AND THAT POWER CABLING AND FUSES HAVE BEEN INSTALLED FOR THIS LOCATION PER SECTION 4.3.3.

C. IF THE PACKS ARE EQUIPPED AND POWER IS PRESENT ON THE NEW MCTU2 UNIT, REMOVE THE FUSES FOR THE OLD LDSU SG0, ONLY, AT THIS TIME (SG1 WILL BE DONE LATER).

D. INSERT AND LATCH THE MCTU2 TN833 PACKS, IF NOT ALREADY, AND VERIFY THAT THE RED OFF LED IS LIT. THIS PACK WILL BE TURNED ON LATER DURING SECTION 5.1.14.

*** NOTE: CHECK THE CLI VALUES FOR THE DSU2 PACKS. THE TN833 ***
 *** MAY HAVE DIFFERENT MICROCODES ON THE PACK. IF IT ***
 *** HAS MC5D073A1, THE CLI VALUE WILL BE "0". IF IT ***
 *** HAS THE LATEST MICROCODE WHICH IS MC5D085A1, THE ***
 *** CLI VALUE SHOULD BE A "1". ***

2.A. IF THE LDSU IS A MODEL 1, BUT IT HAS THE LDSUF FEATURE WHICH USES TN1637/MC5D140A1 PACKS TO SIMULATE THE MODEL 2 DSU, THEN

*** CONTINUED ***

** CONTINUED **
 TABLE EF
 FOLLOW THE PROCEDURE ABOVE, BUT IN ADDITION, A CLI CHANGE WILL HAVE TO BE MADE.

B. WITH LDSU SG0 OUT OF SERVICE, ENTER RC/V VIEW 19.5. GET TO FIELD "6" AND CHANGE THE VALUE FROM "3" TO A "1". GET TO FIELD "13" AND CHANGE THE VALUE TO "15" FOR THE VERTICAL POSITION. EXIT RECENT CHANGE. THESE CHANGES WILL BE SAVED TO DISK DURING THE BKUP ODD DURING SECTION 5.1.10.

C. VERIFY THAT THE TN833 PACK IS EQUIPPED AND POWER IS AVAILABLE (AS IN 1.B. ABOVE). THE PACK WILL BE TURNED ON LATER DURING SECTION 5.1.14. (SG1 WILL BE DONE LATER).

3.A. IF THE LDSU IS A MODEL 1 EQUIPPED WITH A TN128 PACK FOR THE LDSUCOM, THEN FOLLOW THE PROCEDURE IN THIS ITEM.

B. VERIFY THAT LDSU SG0 IS REMOVED FROM SERVICE AND POWERED DOWN. DISCONNECT THE PICB(S) AND PIDB(S) FROM THE OLD MCTSI 0 LOCATIONS ONLY, AND RECONNECT THEM TO THE NEW MCTU2 LOCATIONS. THE FINAL END-TO-END CONNECTIONS ARE SHOWN BELOW.

LDSU1 EQL	MCTU2 EQL
SG 0 XXX-024-102	SG 0 119-168-102
SG 0 XXX-024-302	SG 0 119-168-302
SG 0 XXX-024-151	SG 0 119-168-151
SG 0 XXX-024-351	SG 0 119-168-351

C. *** NOTE: IT MUST BE NOTED THAT THERE ARE NO RETAINERS AT THESE MCTU2 POSITIONS, SO CARE MUST BE TAKEN WHEN CONNECTING THE PICB/PIDB CABLES TO ASSURE THE CABLES CONNECT TO THE PROPER TERMINALS. ALSO VERIFY THAT THE CABLES ARE SECURE ON THE TERMINALS. THIS ARRANGEMENT IS TEMPORARY UNTIL THE LDSU CONVERSION TAKES PLACE (SUBSEQUENT TO THIS CONVERSION). ***

D. VERIFY THAT THE TN833 PACK IN THE MCTU2 IS NOT SEATED AND THAT NO POWER IS SUPPLIED TO THAT SLOT AT THIS TIME. THE TN833 WILL BE USED LATER. REPOWER SG 0 BEFORE INITIALIZING MCTSI SIDE 0.

4.A. IF THE LDSU1 IS EQUIPPED WITH A TN853/MC5D068A1 IN UNIT POSITION 7, THEN THE SUBJECT SM SUPPORTS REVERTIVE PULSING TO AN OLDER TYPE OF CENTRAL OFFICE (SUCH AS A LAESS).

B. PERFORM ITEM 3.B ABOVE EXCEPT, THE LDSU1 MUST RETAIN THIS CONFIGURATION. IN THIS CASE, THE PICB(S)/PIDB(S) WILL REMAIN AT MCTU2 PERMANENTLY. THEREFORE, IT IS ADVISED TO INSTALL RETAINERS AS NECESSARY, AT THE MCTU2 END, WHEN MAKING THE PICB/PIDB RELOCATIONS.

TABLE EG
 (FOR 7 ' CABINET - SIDE 1)

REMOVE LDSU SG 1 FROM SERVICE AS SHOWN BELOW, AND POWER IT DOWN.

AT THE MCC, ENTER:

RMV:LDSU=A-B-1; (WHERE: A = SM#, B = DSU#)
 OR
 (DSU1) POKE 201; (MCC DISPLAY PAGE 108Y,X Y=LDSU#, X=SM#)
 OR
 (DSU2) POKE 231; (MCC DISPLAY PAGE AS ABOVE).

AFTER POWERED DOWN, FOLLOW THE APPROPRIATE ITEM BELOW AND WHEN COMPLETED, RETURN TO SECTION 5.3.5, PART B.

1.A. IF THE SM IS EQUIPPED WITH A DSU2 (J5D003EA-1) WITH TN833 CIRCUIT PACKS, THE LDSU FUNCTION WILL AUTOMATICALLY MIGRATE DOWN TO THE NEW TN833 PACK THAT IS EQUIPPED IN THE MCTU2 AT EQL 128-168 (SG1).

B. ON THE MCTU2 AT EQL 128, VERIFY THAT THE TN833 IS EQUIPPED AND THAT POWER CABLING AND FUSES HAVE BEEN INSTALLED FOR THIS LOCATION PER SECTION 5.3.3.

*** CONTINUED ***

** CONTINUED **
 TABLE EG
 C. IF THE PACKS ARE EQUIPPED AND POWER IS PRESENT ON THE NEW MCTU2 UNIT, REMOVE THE FUSES FOR THE OLD LDSU SG1, ONLY, AT THIS TIME.
 D. INSERT AND LATCH THE MCTU2 TN833 PACKS, IF NOT ALREADY, AND VERIFY THAT THE RED OFF LED IS LIT. THIS PACK WILL BE TURNED ON LATER DURING SECTION 5.4.3.

*** NOTE: CHECK THE CLI VALUES FOR THE DSU2 PACKS. THE TN833 ***
 *** MAY HAVE DIFFERENT MICROCODES ON THE PACK. IF IT ***
 *** HAS MC5D073A1, THE CLI VALUE WILL BE "0". IF IT ***
 *** HAS THE LATEST MICROCODE WHICH IS MC5D085A1, THE ***
 *** CLI VALUE SHOULD BE A "1". ***

2.A. IF THE LDSU IS A MODEL 1, BUT IT HAS THE LDSUF FEATURE WHICH USES TN1637/MC5D140A1 PACKS TO SIMULATE THE MODEL 2 DSU, THEN FOLLOW THE PROCEDURE ABOVE, BUT IN ADDITION, A CLI CHANGE WILL HAVE TO BE MADE.
 B. WITH LDSU SG1 OUT OF SERVICE, ENTER RC/V VIEW 19.5. GET TO FIELD "6" AND CHANGE THE VALUE FROM "3" TO A "1". GET TO FIELD "13" AND CHANGE THE VALUE TO "24" FOR THE VERTICAL POSITION. EXIT RECENT CHANGE. THESE CHANGES WILL BE SAVED TO DISK DURING THE BKUP ODD DURING SECTION 5.4.9.
 C. VERIFY THAT THE TN833 PACK IS EQUIPPED AND POWER IS AVAILABLE (AS IN 1.B. ABOVE). THE PACK WILL BE TURNED ON LATER DURING SECTION 5.4.3.

3.A. IF THE LDSU IS A MODEL 1 EQUIPPED WITH A TN128 PACK FOR THE LDSUCOM, THEN FOLLOW THE PROCEDURE IN THIS ITEM.
 B. VERIFY THAT LDSU SG1 IS REMOVED FROM SERVICE AND POWERED DOWN. DISCONNECT THE PICB(S) AND PIDB(S) FROM THE OLD MCTSI 1 LOCATIONS ONLY, AND RECONNECT THEM TO THE NEW MCTU2 LOCATIONS. THE FINAL END-TO-END CONNECTIONS ARE SHOWN BELOW.

LDSU1 EQL	MCTU2 EQL
SG 1 XXX-024-102	SG 1 128-168-102
SG 1 XXX-024-302	SG 1 128-168-302
SG 1 XXX-024-151	SG 1 128-168-151
SG 1 XXX-024-351	SG 1 128-168-351

C. *** NOTE: IT MUST BE NOTED THAT THERE ARE NO RETAINERS ***
 *** AT THESE MCTU2 POSITIONS, SO CARE MUST BE ***
 *** TAKEN WHEN CONNECTING THE PICB/PIDB CABLES ***
 *** TO ASSURE THE CABLES CONNECT TO THE PROPER ***
 *** TERMINALS. ALSO VERIFY THAT THE CABLES ARE ***
 *** SECURE ON THE TERMINALS. THIS ARRANGEMENT ***
 *** IS TEMPORARY UNTIL THE LDSU CONVERSION TAKES ***
 *** PLACE (SUBSEQUENT TO THIS CONVERSION). ***

D. VERIFY THAT THE TN833 PACK IN THE MCTU2 IS NOT SEATED AND THAT NO POWER IS SUPPLIED TO THAT SLOT AT THIS TIME. THE TN833 WILL BE USED LATER. REPOWER SG 1 BEFORE INITIALIZING MCTSI SIDE 1.

4.A. IF THE LDSU1 IS EQUIPPED WITH A TN853/MC5D068A1 IN UNIT POSITION 7, THEN THE SUBJECT SM SUPPORTS REVERTIVE PULSING TO AN OLDER TYPE OF CENTRAL OFFICE (SUCH AS A 1AESS).
 B. PERFORM ITEM 3.B ABOVE EXCEPT, THE LDSU1 MUST RETAIN THIS CONFIGURATION. IN THIS CASE, THE PICB(S)/PIDB(S) WILL REMAIN AT MCTU2 PERMANENTLY. THEREFORE, IT IS ADVISED TO INSTALL RETAINERS AS NECESSARY, AT THE MCTU2 END, WHEN MAKING THE PICB/PIDB RELOCATIONS.

TABLE EH
 (FOR 6 ' CABINET - SIDE 0)
 REMOVE LDSU SG 0 FROM SERVICE AS SHOWN BELOW, AND POWER IT DOWN.
 AT THE MCC, ENTER:
 RMV:LDSU=A-B-0; (WHERE: A = SM#, B = DSU#)
 OR
 *** CONTINUED ***

** CONTINUED **
 TABLE EH
 (DSU1) POKE 200; (MCC DISPLAY PAGE 108Y,X Y=LDSU#, X=SM#)
 OR
 (DSU2) POKE 230; (MCC DISPLAY PAGE AS ABOVE).
 AFTER POWERED DOWN, FOLLOW THE APPROPRIATE ITEM BELOW AND WHEN COMPLETED, RETURN TO SECTION 7.1.9, PART B.

1.A. IF THE SM IS EQUIPPED WITH A DSU2 (J5D003EA-1) WITH TN833 CIRCUIT PACKS, THE LDSU FUNCTION WILL AUTOMATICALLY MIGRATE DOWN TO THE NEW TN833 PACK THAT IS EQUIPPED IN THE MCTU2 AT EQL 119-168 (SG0).
 B. ON THE MCTU2 AT EQL 119, VERIFY THAT THE TN833 IS EQUIPPED AND THAT POWER CABLING AND FUSES HAVE BEEN INSTALLED FOR THIS LOCATION PER SECTION 6.3.3.
 C. IF THE PACKS ARE EQUIPPED AND POWER IS PRESENT ON THE NEW MCTU2 UNIT, REMOVE THE FUSES FOR THE OLD LDSU SG0, ONLY, AT THIS TIME (SG1 WILL BE DONE LATER).
 D. INSERT AND LATCH THE MCTU2 TN833 PACKS, IF NOT ALREADY, AND VERIFY THAT THE RED OFF LED IS LIT. THIS PACK WILL BE TURNED ON LATER DURING SECTION 7.1.14.

*** NOTE: CHECK THE CLI VALUES FOR THE DSU2 PACKS. THE TN833 ***
 *** MAY HAVE DIFFERENT MICROCODES ON THE PACK. IF IT ***
 *** HAS MC5D073A1, THE CLI VALUE WILL BE "0". IF IT ***
 *** HAS THE LATEST MICROCODE WHICH IS MC5D085A1, THE ***
 *** CLI VALUE SHOULD BE A "1". ***

2.A. IF THE LDSU IS A MODEL 1, BUT IT HAS THE LDSUF FEATURE WHICH USES TN1637/MC5D140A1 PACKS TO SIMULATE THE MODEL 2 DSU, THEN FOLLOW THE PROCEDURE ABOVE, BUT IN ADDITION, A CLI CHANGE WILL HAVE TO BE MADE.
 B. WITH LDSU SG0 OUT OF SERVICE, ENTER RC/V VIEW 19.5. GET TO FIELD "6" AND CHANGE THE VALUE FROM "3" TO A "1". GET TO FIELD "13" AND CHANGE THE VALUE TO "15" FOR THE VERTICAL POSITION. EXIT RECENT CHANGE. THESE CHANGES WILL BE SAVED TO DISK DURING THE BKUP ODD DURING SECTION 7.1.10.
 C. VERIFY THAT THE TN833 PACK IS EQUIPPED AND POWER IS AVAILABLE (AS IN 1.B. ABOVE). THE PACK WILL BE TURNED ON LATER DURING SECTION 7.1.14. (SG1 WILL BE DONE LATER).

3.A. IF THE LDSU IS A MODEL 1 EQUIPPED WITH A TN128 PACK FOR THE LDSUCOM, THEN FOLLOW THE PROCEDURE IN THIS ITEM.
 B. VERIFY THAT LDSU SG0 IS REMOVED FROM SERVICE AND POWERED DOWN. DISCONNECT THE PICB(S) AND PIDB(S) FROM THE OLD MCTSI 0 LOCATIONS ONLY, AND RECONNECT THEM TO THE NEW MCTU2 LOCATIONS. THE FINAL END-TO-END CONNECTIONS ARE SHOWN BELOW.

LDSU1 EQL	MCTU2 EQL
SG 0 XXX-024-102	SG 0 119-168-102
SG 0 XXX-024-302	SG 0 119-168-302
SG 0 XXX-024-151	SG 0 119-168-151
SG 0 XXX-024-351	SG 0 119-168-351

C. *** NOTE: IT MUST BE NOTED THAT THERE ARE NO RETAINERS ***
 *** AT THESE MCTU2 POSITIONS, SO CARE MUST BE ***
 *** TAKEN WHEN CONNECTING THE PICB/PIDB CABLES ***
 *** TO ASSURE THE CABLES CONNECT TO THE PROPER ***
 *** TERMINALS. ALSO VERIFY THAT THE CABLES ARE ***
 *** SECURE ON THE TERMINALS. THIS ARRANGEMENT ***
 *** IS TEMPORARY UNTIL THE LDSU CONVERSION TAKES ***
 *** PLACE (SUBSEQUENT TO THIS CONVERSION). ***

D. VERIFY THAT THE TN833 PACK IN THE MCTU2 IS NOT SEATED AND THAT NO POWER IS SUPPLIED TO THAT SLOT AT THIS TIME. THE TN833 WILL BE USED LATER. REPOWER SG 0 BEFORE INITIALIZING MCTSI SIDE 0.

4.A. IF THE LDSU1 IS EQUIPPED WITH A TN853/MC5D068A1 IN UNIT POSITION 7, THEN THE SUBJECT SM SUPPORTS REVERTIVE PULSING TO AN OLDER TYPE OF CENTRAL OFFICE (SUCH AS A 1AESS).
 B. PERFORM ITEM 3.B ABOVE EXCEPT, THE LDSU1 MUST RETAIN THIS CONFIGURATION. IN THIS CASE, THE PICB(S)/PIDB(S) WILL REMAIN AT MCTU2 PERMANENTLY. THEREFORE, IT IS ADVISED TO INSTALL RETAINERS AS NECESSARY, AT THE MCTU2 END, WHEN MAKING THE PICB/PIDB RELOCATIONS.

** CONTINUED **
 TABLE EH
 CONFIGURATION. IN THIS CASE, THE PICB(S)/PIDB(S) WILL REMAIN AT MCTU2 PERMANENTLY. THEREFORE, IT IS ADVISED TO INSTALL RETAINERS AS NECESSARY, AT THE MCTU2 END, WHEN MAKING THE PICB/PIDB RELOCATIONS.

TABLE EI
 (FOR 6 ' CABINET - SIDE 1)
 REMOVE LDSU SG 1 FROM SERVICE AS SHOWN BELOW, AND POWER IT DOWN.
 AT THE MCC, ENTER:
 RMV:LDSU=A-B-1; (WHERE: A = SM#, B = DSU#)
 OR
 (DSU1) POKE 201; (MCC DISPLAY PAGE 108Y,X Y=LDSU#, X=SM#)
 OR
 (DSU2) POKE 231; (MCC DISPLAY PAGE AS ABOVE).
 AFTER POWERED DOWN, FOLLOW THE APPROPRIATE ITEM BELOW AND WHEN COMPLETED, RETURN TO SECTION 7.3.5, PART B.

1.A. IF THE SM IS EQUIPPED WITH A DSU2 (J5D003EA-1) WITH TN833 CIRCUIT PACKS, THE LDSU FUNCTION WILL AUTOMATICALLY MIGRATE DOWN TO THE NEW TN833 PACK THAT IS EQUIPPED IN THE MCTU2 AT EQL 128-168 (SG1).
 B. ON THE MCTU2 AT EQL 128, VERIFY THAT THE TN833 IS EQUIPPED AND THAT POWER CABLING AND FUSES HAVE BEEN INSTALLED FOR THIS LOCATION PER SECTION 7.3.3.
 C. IF THE PACKS ARE EQUIPPED AND POWER IS PRESENT ON THE NEW MCTU2 UNIT, REMOVE THE FUSES FOR THE OLD LDSU SG1, ONLY, AT THIS TIME.
 D. INSERT AND LATCH THE MCTU2 TN833 PACKS, IF NOT ALREADY, AND VERIFY THAT THE RED OFF LED IS LIT. THIS PACK WILL BE TURNED ON LATER DURING SECTION 7.4.3.

*** NOTE: CHECK THE CLI VALUES FOR THE DSU2 PACKS. THE TN833 ***
 *** MAY HAVE DIFFERENT MICROCODES ON THE PACK. IF IT ***
 *** HAS MC5D073A1, THE CLI VALUE WILL BE "0". IF IT ***
 *** HAS THE LATEST MICROCODE WHICH IS MC5D085A1, THE ***
 *** CLI VALUE SHOULD BE A "1". ***

2.A. IF THE LDSU IS A MODEL 1, BUT IT HAS THE LDSUF FEATURE WHICH USES TN1637/MC5D140A1 PACKS TO SIMULATE THE MODEL 2 DSU, THEN FOLLOW THE PROCEDURE ABOVE, BUT IN ADDITION, A CLI CHANGE WILL HAVE TO BE MADE.
 B. WITH LDSU SG1 OUT OF SERVICE, ENTER RC/V VIEW 19.5. GET TO FIELD "6" AND CHANGE THE VALUE FROM "3" TO A "1". GET TO FIELD "13" AND CHANGE THE VALUE TO "24" FOR THE VERTICAL POSITION. EXIT RECENT CHANGE. THESE CHANGES WILL BE SAVED TO DISK DURING THE BKUP ODD DURING SECTION 7.4.9.
 C. VERIFY THAT THE TN833 PACK IS EQUIPPED AND POWER IS AVAILABLE (AS IN 1.B. ABOVE). THE PACK WILL BE TURNED ON LATER DURING SECTION 7.4.3.

3.A. IF THE LDSU IS A MODEL 1 EQUIPPED WITH A TN128 PACK FOR THE LDSUCOM, THEN FOLLOW THE PROCEDURE IN THIS ITEM.
 B. VERIFY THAT LDSU SG1 IS REMOVED FROM SERVICE AND POWERED DOWN. DISCONNECT THE PICB(S) AND PIDB(S) FROM THE OLD MCTSI 1 LOCATIONS ONLY, AND RECONNECT THEM TO THE NEW MCTU2 LOCATIONS. THE FINAL END-TO-END CONNECTIONS ARE SHOWN BELOW.

LDSU1 EQL	MCTU2 EQL
SG 1 XXX-024-102	SG 1 128-168-102
SG 1 XXX-024-302	SG 1 128-168-302
SG 1 XXX-024-151	SG 1 128-168-151
SG 1 XXX-024-351	SG 1 128-168-351

C. *** NOTE: IT MUST BE NOTED THAT THERE ARE NO RETAINERS ***
 *** AT THESE MCTU2 POSITIONS, SO CARE MUST BE ***
 *** TAKEN WHEN CONNECTING THE PICB/PIDB CABLES ***
 *** TO ASSURE THE CABLES CONNECT TO THE PROPER ***
 *** TERMINALS. ALSO VERIFY THAT THE CABLES ARE ***
 *** SECURE ON THE TERMINALS. THIS ARRANGEMENT ***
 *** IS TEMPORARY UNTIL THE LDSU CONVERSION TAKES ***
 *** PLACE (SUBSEQUENT TO THIS CONVERSION). ***

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BT13	
DETAIL CHANGE SPECIFICATION TO CONVERT SMPU1/TSIU1 TO MCTU2	
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES INC	ED5D731-30
SHEET OF	D36 57

** CONTINUED **

TABLE EI

*** TO ASSURE THE CABLES CONNECT TO THE PROPER ***
*** TERMINALS. ALSO VERIFY THAT THE CABLES ARE ***
*** SECURE ON THE TERMINALS. THIS ARRANGEMENT ***
*** IS TEMPORARY UNTIL THE LDSU CONVERSION TAKES ***
*** PLACE (SUBSEQUENT TO THIS CONVERSION). ***

- D. VERIFY THAT THE TN833 PACK IN THE MCTU2 IS NOT SEATED AND THAT NO POWER IS SUPPLIED TO THAT SLOT AT THIS TIME. THE TN833 WILL BE USED LATER. REPOWER SG 1 BEFORE INITIALIZING MCTSI SIDE 1.
- 4.A. IF THE LDSU1 IS EQUIPPED WITH A TN853/MC5D068A1 IN UNIT POSITION 7, THEN THE SUBJECT SM SUPPORTS REVERTIVE PULSING TO AN OLDER TYPE OF CENTRAL OFFICE (SUCH AS A LAESS).
- B. PERFORM ITEM 3.B ABOVE EXCEPT, THE LDSU1 MUST RETAIN THIS CONFIGURATION. IN THIS CASE, THE PICB(S)/PIDB(S) WILL REMAIN AT MCTU2 PERMANENTLY. THEREFORE, IT IS ADVISED TO INSTALL RETAINERS AS NECESSARY, AT THE MCTU2 END, WHEN MAKING THE PICB/PIDB RELOCATIONS.

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BT13

DETAIL CHANGE SPECIFICATION
TO CONVERT SMPU1/TSIU1 TO MCTU2

DWG SIZE C2 ISSUE 10

ED5D731-30

LUCENT TECHNOLOGIES INC ED5D731-30

SHEET D37 OF 57

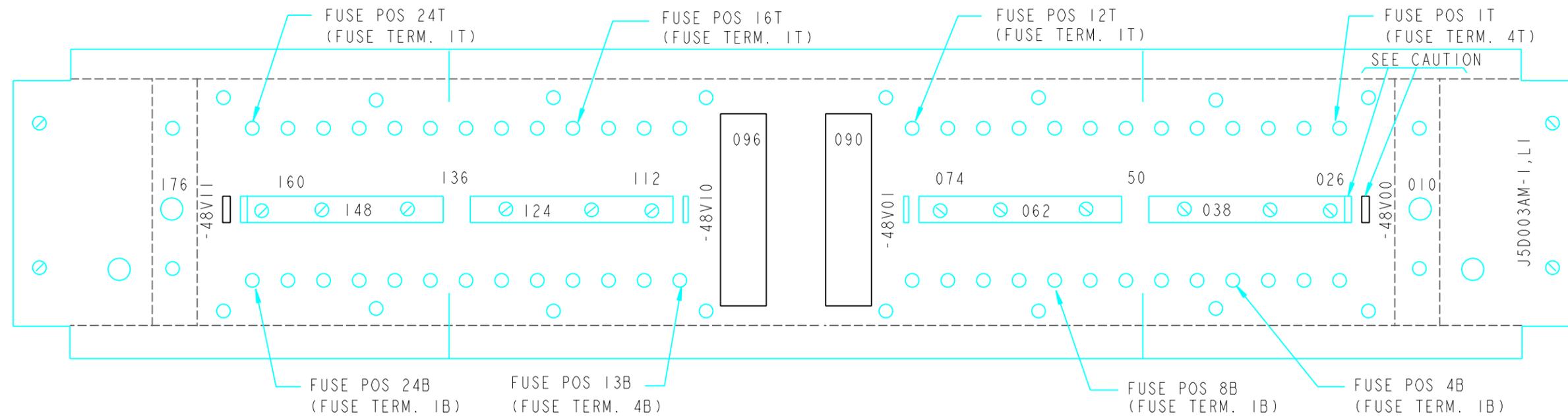
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TABLE A

FUSE LOCATIONS AND ASSOCIATED RETURN TERMINALS																			
FUSE	-48V00 FUSE		-48V00 ASSOC RTN		FUSE	-48V01 FUSE		-48V01 ASSOC RTN		FUSE	-48V10 FUSE		-48V10 ASSOC RTN		FUSE	-48V11 FUSE		-48V11 ASSOC RTN	
	EQL	TERM	EQL	TERM		EQL	TERM	EQL	TERM		EQL	TERM	EQL	TERM		EQL	TERM	EQL	TERM
1T	026	4T	038	10T	7T	050	2T	062	10T	13T	112	4T	124	10T	19T	136	2T	148	10T
1B		4B		10B	7B		2B		10B	13B		4B		10B	19B		2B		10B
2T		3T		8T	8T		1T		8T	14T		3T		8T	20T		3T		8T
2B		3B		8B	8B		1B		8B	14B		3B		8B	20B		3B		8B
3T		2T		6T	9T	074	4T		6T	15T		2T		6T	21T	160	2T		6T
3B		2B		6B	9B		4B		6B	15B		2B		6B	21B		2B		6B
4T		1T		4T	10T		3T		4T	16T		1T		4T	22T		1T		4T
4B		1B		4B	10B		3B		4B	16B		1B		4B	22T		1B		4B
5T	050	4T		2T	11T		2T		2T	17T	136	4T		2T	23B		4T		2T
5B		4B		2B	11B		2B		2B	17B		4B		2B	23B		4B		2B
6T		3T		1T	12T		1T		1T	18T		3T		1T	24T		3T		1T
6B		3B		1B	12B		1B		1B	18B		3B		1B	24B		3B		1B

CAUTION

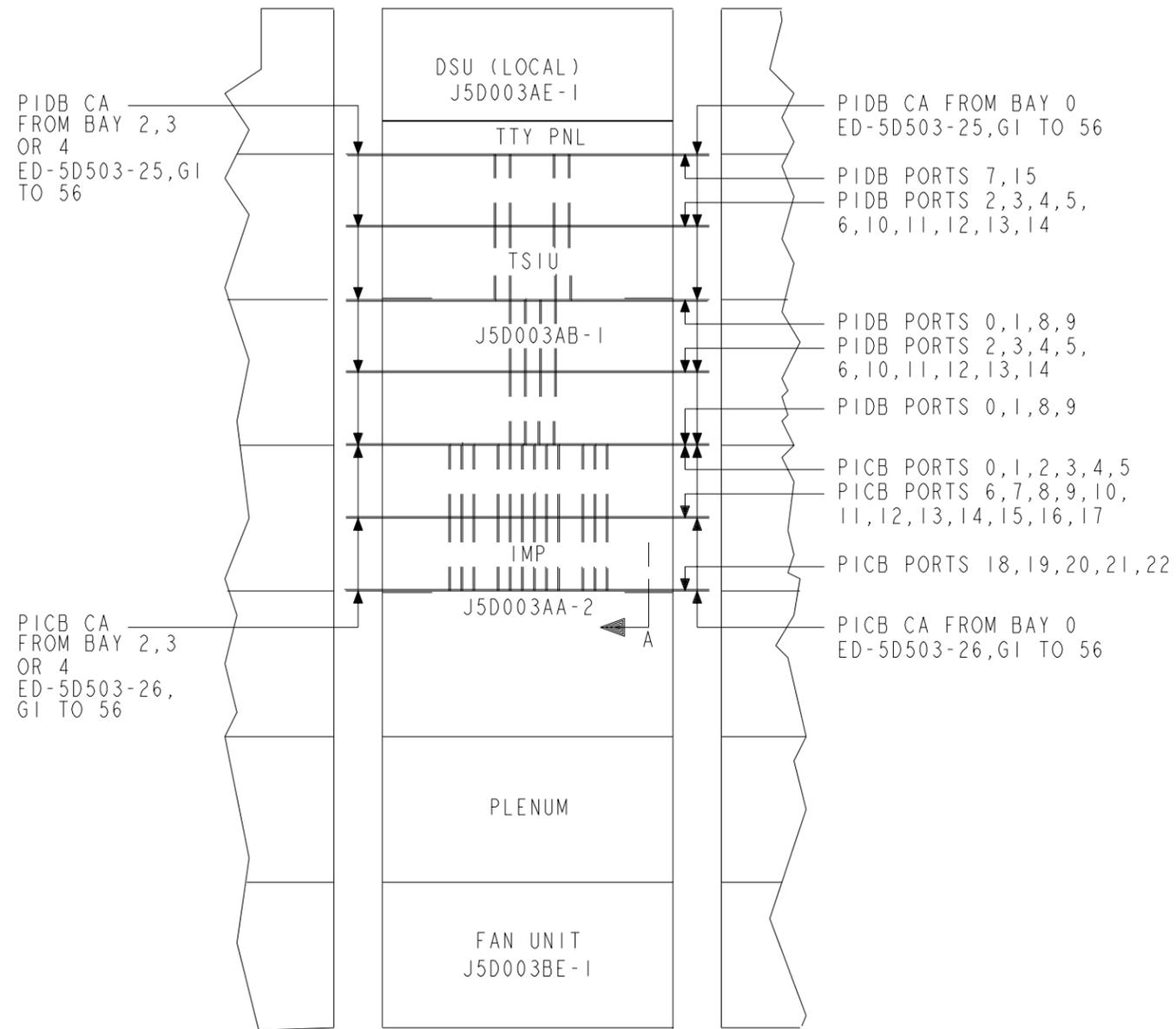
WIRES TERMINATING ON -48V00 BUS BAR AND 038 GRD BAR TO THE FAN ARE HOT LEADS WHEN CUT TAPE ENDS WHEN COMPLETED.



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FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJN	
CABLE ASSEMBLY			
DWG SIZE	C2	ISSUE	10
LUCENT TECHNOLOGIES		ED5D731-30	SHEET NO. E2
MODEL NAME			



REAR VIEW
FIG. 3

TERMINAL FIELD NUMBERING
FOR 233A CKT. BOARD

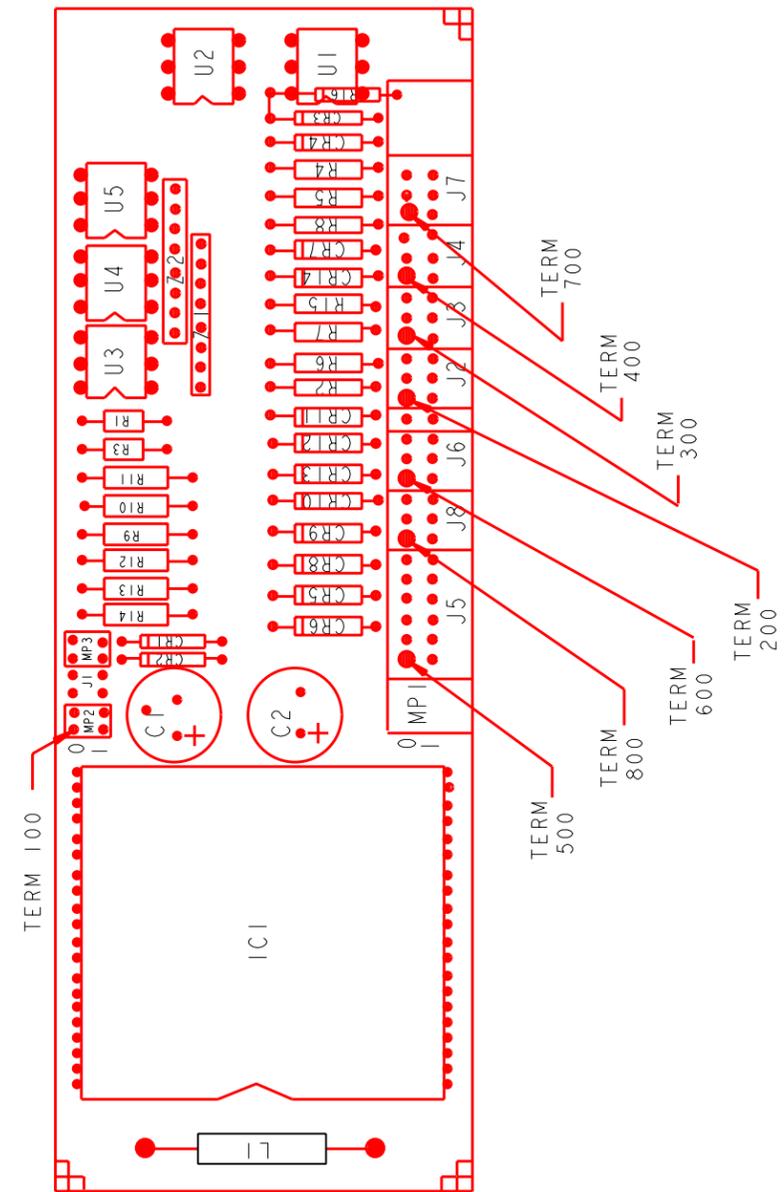


FIG. 5

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJN	
CABLE ASSEMBLY			
DWG SIZE	ISSUE		
C2	10		
LUCENT TECHNOLOGIES	ED5D731-30	SHEET NO. E3	
MODEL NAME			

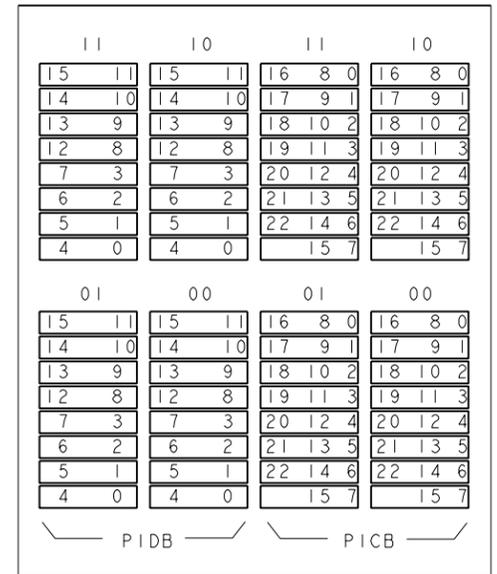
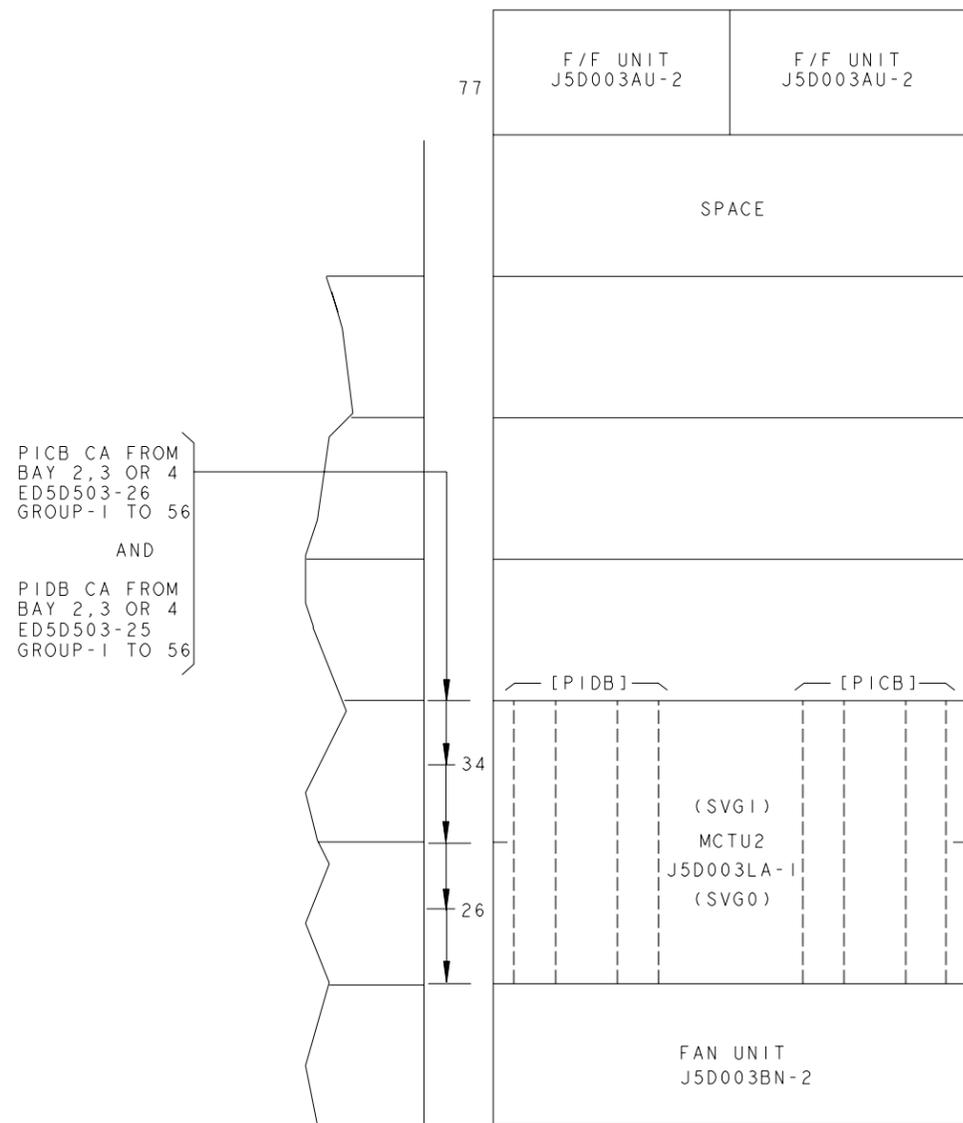
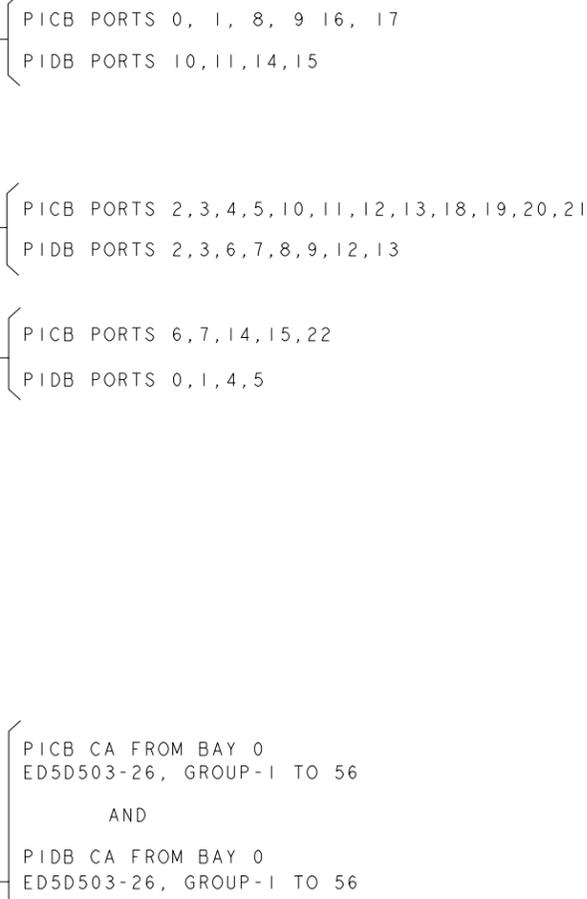


FIG. 4A
PICB, PIDB PORT LOCATIONS



REAR VIEW
FIG. 4



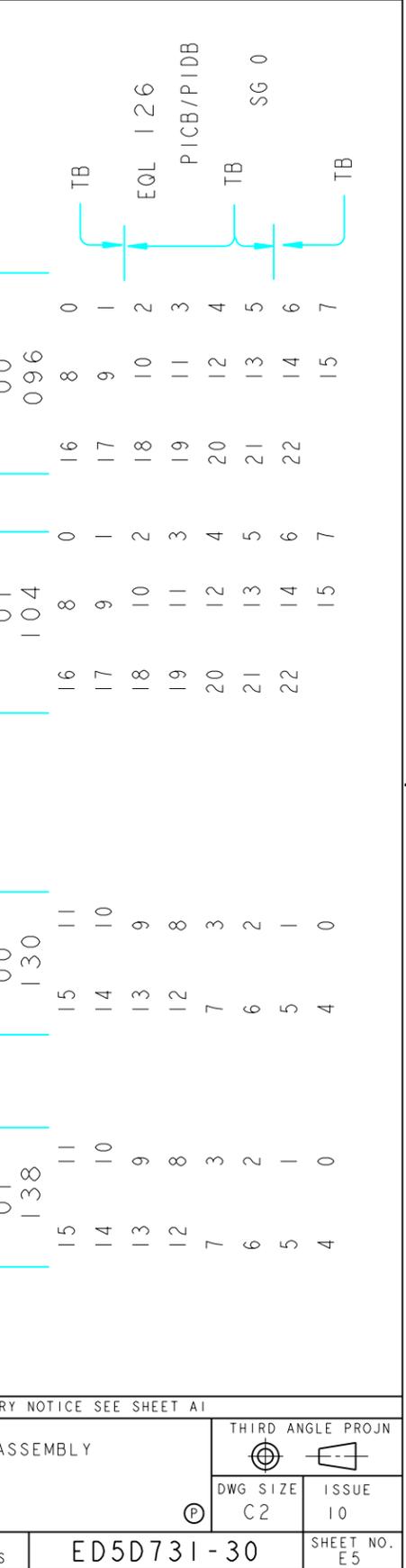
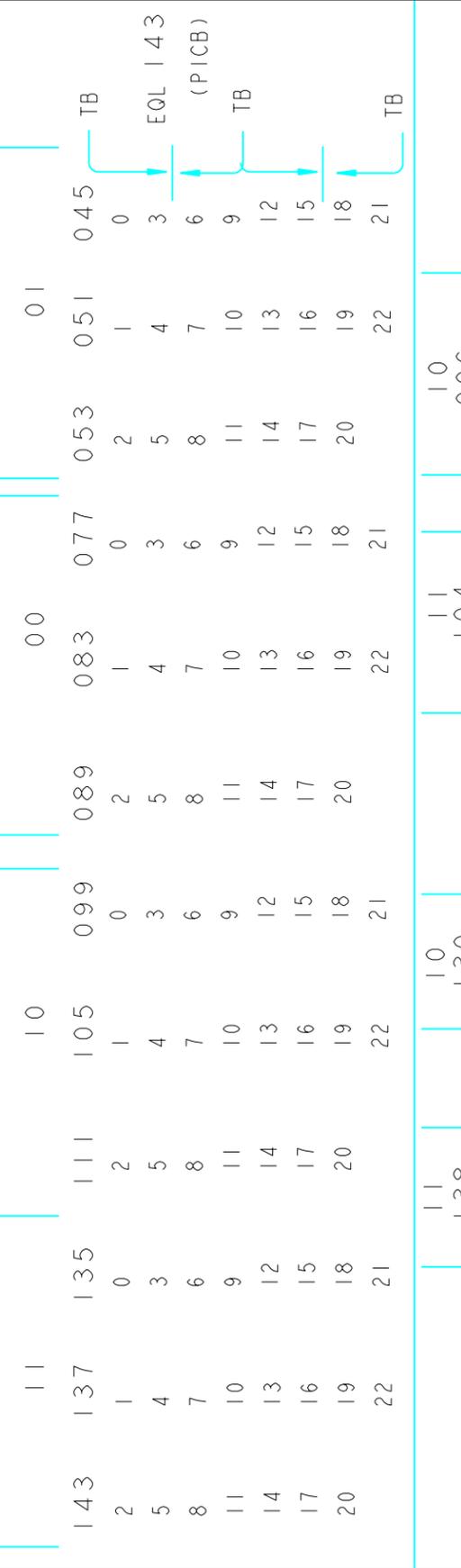
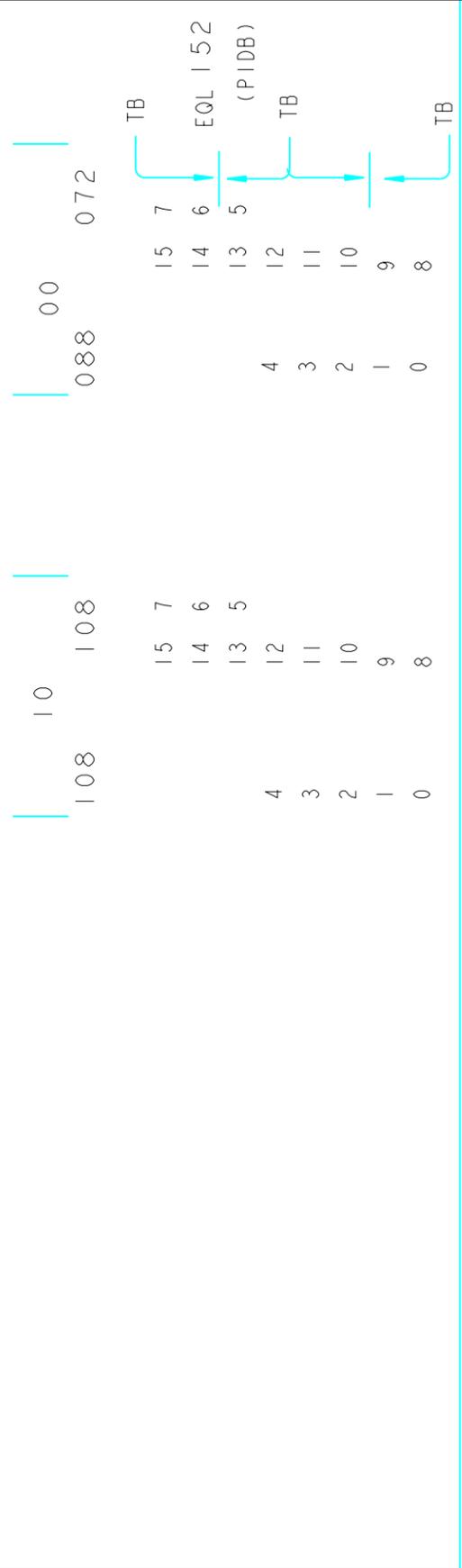
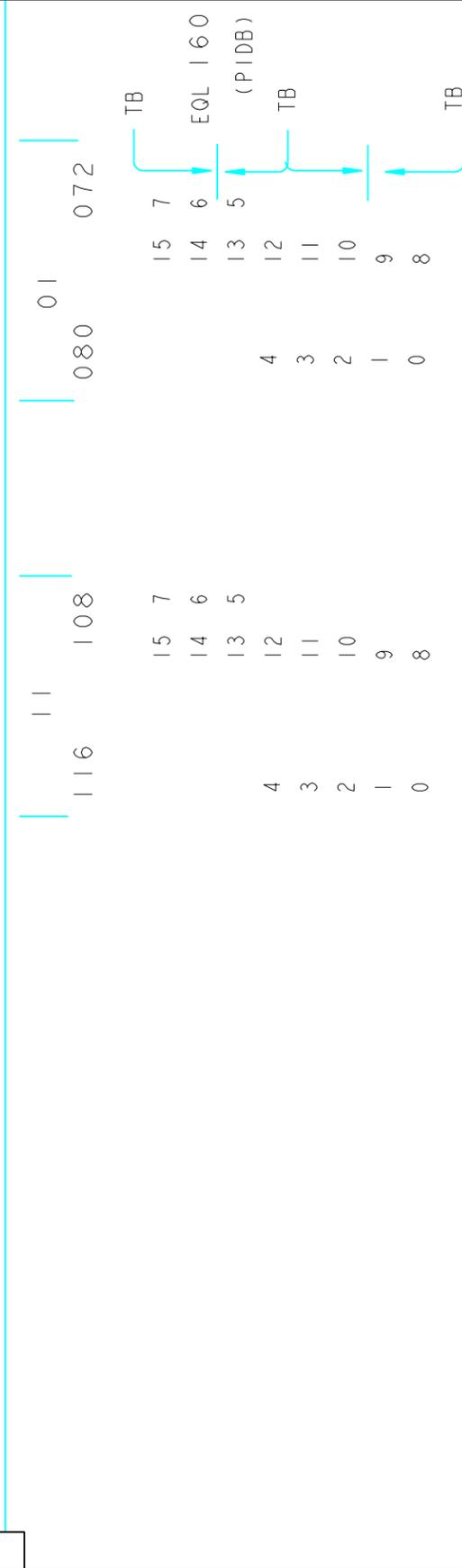
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ED5D731-30

FOR PROPRIETARY NOTICE SEE SHEET A1	
CABLE ASSEMBLY	THIRD ANGLE PROJN
DWG SIZE C2	ISSUE 10
LUCENT TECHNOLOGIES	SHEET NO. E4
ED5D731-30	MODEL NAME

ED5D731-30

PORT LOCATIONS
FOR
TSIU/IMPU
MCTU2



FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJN	
CABLE ASSEMBLY			
DWG SIZE	C2	ISSUE	10
LUCENT TECHNOLOGIES		MODEL NAME	ED5D731-30
		SHEET NO.	E5

TABLE AM (FUSE/FILTER "A" BUS ALARM MULT CABLE GROUPS) SEE SHEET NOTE 1

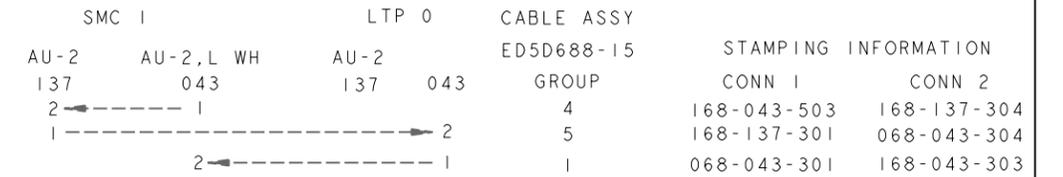
SMC		LTP0		ORDER ED5D688-15, GROUP AS REQUIRED										REMARKS	
LTP0		LTP2		SAME CABINET		SMC TO	LTP0 TO	LTP2 TO	LTP3 TO	LAST LTP TO SMC					
LTP2		LTP3		137	043	LTP0	LTP2	LTP3	LTP4	LTP0	LTP2	LTP3	LTP4		
LTP3		LTP4		LAST LTP											
SMC		LAST LTP													
137	043	137	043												FUSE ALARM CIRCUIT LOOP MUST BE ENGINEERED IN ACCORDANCE WITH TABLE AM AND SM FOR THE "A" BUS AND TABLE BM AND SB FOR THE "B" BUS
1 → 2		2 ← 1				1	2	1	1						
2 ← 1		1 → 2								1	1	2	3		
137	043	137	043												
2 ← 1		1 → 2		4											
1 → 2		2 ← 1				5	7	6	6						
2 ← 1		1 → 2								1	1	2	3		
137	043	137	043												
2 ← 1		1 → 2		4											
1 → 2		2 ← 1				5	7	6	6						
2 ← 1		1 → 2		4								6	5	8	9
137	043	137	043												
1 → 2		2 ← 1				6	8	5	5						
2 ← 1		1 → 2								6	5	8	9		
137	043	137	043												
2 ← 1		1 → 2		4											
1 → 2		2 ← 1				1	2	1	1						
2 ← 1		1 → 2								6	5	8	9		

NOTE: 2. 1 → 2 DENOTES CONNECTOR NUMBERS (SEE STAMPING TABLE SA)


NOTE 1.

THE "A" BUS FUSE ALARM CIRCUIT LOOP MUST INTERCONNECT ALL OF THE FUSE/FILTER UNITS THAT ARE POWERED FROM THE "A" BUS. THE COMPLETE ALARM CIRCUIT LOOP ORIGINATES IN THE SMC 1 CABINET, INTERCONNECTING ALL THE LTP CABINETS CONTAINED IN THE SWITCHING MODULE AND TERMINATING IN THE SMC 1 CABINET. THE CONNECTORIZED CABLE ASSEMBLIES AND ASSOCIATED STAMPING INFORMATION SHALL BE SPECIFIED IN ACCORDANCE WITH TABLES AM AND SA. SEE STAMPING EXAMPLES BELOW.

EX. 1.



EX. 2.

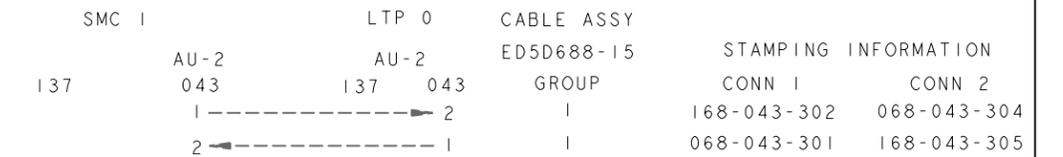


TABLE LEDALM

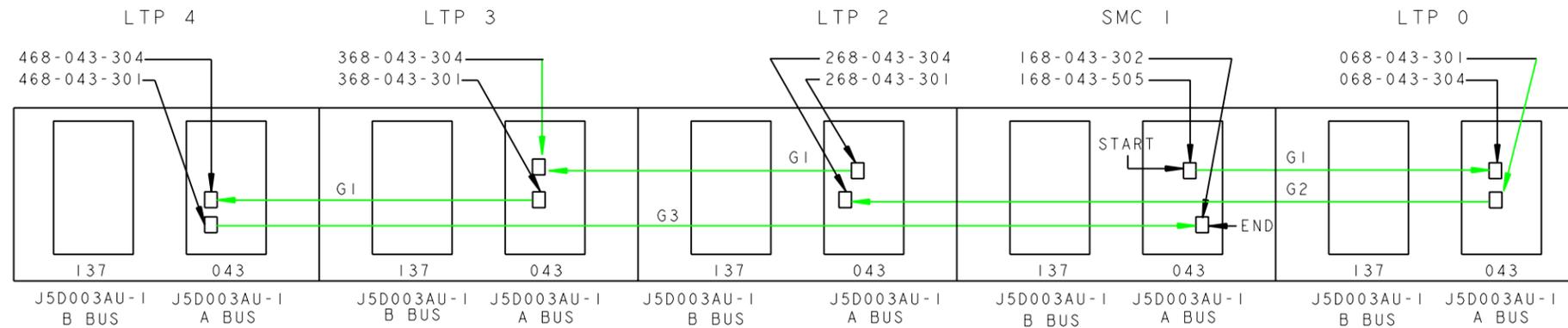
THE BEZEL LED MULT CABLING WITHIN EACH CABINET SHALL BE ORDERED AS FOLLOWS:

	137	043	ORDER ED5D503-15,G	REMARKS
FUSE/FILTER BUS ARRANGEMENT	B	A	1250	
	A	B	1250	
	A	*B/A	1252	
	B	*B/A	1252	
	B/A	*B/A	1254	
	*B/A	*B/A	1256	2 SMC'S IN ONE SMC CABINET
	B/A	A	1294	
	B/A	B	1294	

* DENOTES RECONFIGURED J5D003AU-2,L WH FUSE/FILTER UNIT.

TABLE SA ("A" BUS ALARM MULT STAMPING)

FUSE/FILTER UNIT	CONN NO.	SMC		LTP 0		LTP 2		LTP 3		LTP 4	
		137	043	137	043	137	043	137	043	137	043
J5D003AU-2,L WE STANDARD	CONN 1										
	CONN 2	168-137-304		068-137-304	068-043-304	268-137-304	268-043-304	368-137-304	368-043-304	468-137-304	468-043-304
	CONN 1	168-137-301		068-137-301	068-043-301	268-137-301	268-043-301	368-137-301	368-043-301	468-137-301	468-043-301
J5D003AU-2,L WD STANDARD	CONN 2		168-043-305								
	CONN 1		168-043-302								
J5D003AU-2,L WH RECONFIGURED	CONN 1		168-043-503								
	CONN 2		168-043-303								
J5D003AU-2,L WL SPLIT	CONN 2	168-137-305		068-137-305		268-137-305		368-137-305		468-137-305	
	CONN 1	168-137-301		068-137-301		268-137-301		368-137-301		468-137-301	
J5D003BT-1,L WC STANDARD	CONN 2	168-137-304		068-137-304	068-043-304	268-137-304	268-043-304	368-137-304	368-043-304	468-137-304	468-043-304
	CONN 1	168-137-301		068-137-301	068-043-301	268-137-301	268-043-301	368-137-301	368-043-301	468-137-301	468-043-301
J5D003BT-1,L WD SPLIT	CONN 2	168-137-305		068-137-305		268-137-305		368-137-305		468-137-305	
	CONN 1	168-137-301		068-137-301		268-137-301		368-137-301		468-137-301	



TYPICAL "A" BUS ALARM CIRCUIT LOOP
ED5D688-15
SK. C

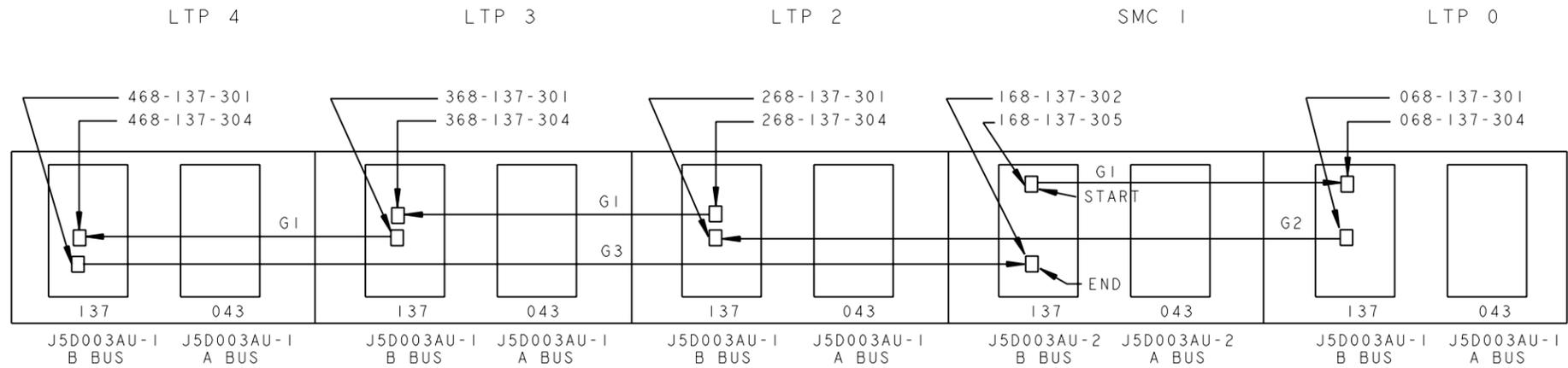
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ED5D731-30

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJN	
INTRA-CONNECTORIZED CABLING REQUIREMENTS			
DWG SIZE	C2	ISSUE	10
LUCENT TECHNOLOGIES		ED5D731-30	SHEET NO. E7
MODEL NAME			

TABLE SB ("B" BUS ALARM MULT STAMPING)

FUSE/FILTER UNIT	CONN NO.	SMC		LTP 0		LTP 2		LTP 3		LTP 4	
		137	043	137	043	137	043	137	043	137	043
J5D003AU-2,L WE STANDARD	CONN 1 CONN 2 CONN 1	168-137-301 168-137-304		068-137-304 068-137-301		268-137-304 268-137-301		368-137-304 368-137-301		468-137-304 468-137-301	
J5D003AU-2,L WD STANDARD	CONN 2 CONN 1	168-137-305 168-137-302									
J5D003AU-2,L WH RECONFIGURED	CONN 1 CONN 2		168-043-510 168-043-310								
J5D003AU-2,L WL SPLIT	CONN 2 CONN 1	168-137-110 168-137-104		068-137-110 068-137-104		268-137-110 268-137-104		368-137-110 368-137-104		468-137-110 468-137-104	
J5D003BT-1,L WC STANDARD	CONN 2 CONN 1	168-137-304 168-137-301		068-137-304 068-137-301	068-043-304 068-043-301	268-137-304 268-137-301	268-043-304 268-043-301	368-137-304 368-137-301	368-043-304 368-043-301	468-137-304 468-137-301	468-043-304 468-043-301
J5D003BT-1,L WD SPLIT	CONN 2 CONN 1	168-137-110 168-137-104		068-137-110 068-137-104		268-137-110 268-137-104		368-137-110 368-137-104		468-137-110 468-137-104	



TYPICAL "B" BUS ALARM CIRCUIT LOOP
ED5D688-15
SK. C1

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ED5D731-30

FOR PROPRIETARY NOTICE SEE SHEET A1		THIRD ANGLE PROJ	
INTRA-CONNECTORIZED CABLING REQUIREMENTS			
DWG SIZE C2		ISSUE 10	
LUCENT TECHNOLOGIES		SHEET NO. E9	
ED5D731-30		MODEL NAME	