

ISSUE NOTES (CONTINUED)				
(H8177)=IN TABLE A:LISTS B1,B2,B3,D1,D2,RATING WAS STANDARD; LIST F2 ADDED;MANUFACTURING NOTE 21 ADDED;MANUFACTURING NOTE 22, TABLE D9, ADDED. ENGINEERING NOTES,74,75 ADDED. TABLES D4,D5,D6,D7,D8,D10 DELETED. IN STOCKLIST:ITEM ITEM 1015 ADDED. APPARATUS BLANKS KIT DRAWING CREATED. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 09/29/97	ISSUE: 16
(H8177)=IN STOCKLIST:ITEMS 2040,2050,2060 AND 2075 REINSTATED. THESE ITEMS WERE INADVERTENTLY REMOVED IN ISSUE 16. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 09/30/97	ISSUE: 17
(C74527)=IN TABLE A:LISTS E1 AND E2 RATING CHANGED TO DA; LISTS E3 AND E4 ADDED. IN STOCKLIST:ITEMS 2085 AND 2090 ADDED. SHOP POINT ISSUE 17.1, REFERENCE TO MF'G NOTE 21, ADDED TO ITEM 1015. SHOP POINT ISSUE 17.2, REFERENCE TO MF'G NOTE 21, ADDED TO ITEMS 2040,2050,2060 AND 2075. ORIG ISS: 07/11/95 CHANGE CLASS: AU				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 11/14/97	ISSUE: 18
(C84513)=IN STOCKLIST: CLEI CODE CHANGED ON ITEM 1060. ORIG ISS: 07/11/95 CHANGE CLASS: AC				
DRAFT: SMW	ENGR: SMW	SUPV: GEY	CERTIFIED: 07/16/98	ISSUE: 19
(C84525)=IN STOCKLIST:ITEM 1035 CLEI E5PQAYNA WAS ADDED. ORIG ISS: 07/11/95 CHANGE CLASS: AC				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 11/16/98	ISSUE: 20
(H8385)=IN TABLE A:ENGINEERING NOTES 499 AND 500 ADDED,NOTE 74 DELETED,ENGINEERING NOTE 75 MODIFIED TO AGREE WITH J DRAWING REQUIREMENTS FOR CHEETAH INITIATIVES ISSUE 4.6. MANUFACTURING NOTES 22 AND 23 REMOVED. D9 TABLE ADDED. IN STOCKLIST:ITEM 1015 DESCRIPTION CHANGED. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 12/03/98	ISSUE: 21

ISSUE NOTES (CONTINUED)				
(C64508)=ED5D766-30 BACKPLANE MODIFIED IN 847332012. ORIG ISS: 07/11/95 CHANGE CLASS: AU				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 03/07/96	ISSUE: 10
(H7799)=847332012 UPDATED TO INCLUDE 847585478 AIR DEFLECTOR. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 07/08/96	ISSUE: 11
(C64533)=IN STOCKLIST:CLEI CODE CHANGED. ORIG ISS: 07/11/95 CHANGE CLASS: AC				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 10/03/96	ISSUE: 12
(C64518)=IN TABLE A:LIST 3 RATING WAS STANDARD; LIST 3A ADDED. IN STOCKLIST:ITEM 1045 ADDED. ENGINEERING NOTE 60 UPDATED WITH LIST 3A. ORIG ISS: 07/11/95 CHANGE CLASS: AU				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 10/15/96	ISSUE: 13
(C64537)=IN TABLE A:LIST 2 RATING WAS STANDARD;LIST 2A ADDED. ENGINEERING NOTE 67 UPDATED. IN STOCKLIST:ITEM 1035 ADDED. ORIG ISS: 07/11/95 CHANGE CLASS: AU				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 01/29/97	ISSUE: 14
(H8172)=ENGINEERING NOTE 54 AND 70 CHANGED. MANUFACTURING NOTE 15 CHANGED. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 05/29/97	ISSUE: 15

ISSUE NOTES				
(H7135)=INTRODUCES THE DNU-S UNIT. ORIG ISS: 07/11/95 CHANGE CLASS: B				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 07/11/95	ISSUE: 1
(PT2)=ENGINEERING NOTE 71 REMOVED; IN STOCKLIST: ITEMS 2065 AND 2068 ADDED. ORIG ISS: 07/11/95 CHANGE CLASS: MF				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 07/11/95	ISSUE: 2
(PT3)=ENGINEERING NOTE 70:A STATEMENT HAS BEEN ADDED AT THE BEGINNING OF THIS NOTE TO ALERT THE REGIONAL ENGINEER THAT PATH AND DATA GROUP INFORMATION NEEDS TO BE INCLUDED IN EACH ORDER. IN STOCKLIST:REFERENCE TO MANUFACTURING NOTE 15 ADDED TO ITEMS 1030,1040,1050 AND 1060. ORIG ISS: 07/11/95 CHANGE CLASS: MF				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 09/08/95	ISSUE: 3
(PT4)=ENGINEERING NOTE 54 MODIFIED, AND MANUFACTURING NOTE 18 ADDED. IN STOCKLIST:REFERENCE TO NOTE 18 ADDED. ORIG ISS: 07/11/95 CHANGE CLASS: MF				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 09/14/95	ISSUE: 4
(PT5)=SHOP POINT ISSUES 2.1 & 4.1 HAVE BEEN INCLUDED INTO THIS ISSUE. ORIG ISS: 07/11/95 CHANGE CLASS: MF				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 10/09/95	ISSUE: 5
(PT6)=ENGINEERING NOTE 70 REVISED TO AID REGIONAL ENGINEERING. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 10/20/95	ISSUE: 6
(PT7)=ENGINEERING NOTE 70 REWRITTEN FOR CLARIFICATION. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 10/31/95	ISSUE: 7
PT8 - MODIFIED MANUFACTURING NOTE 15. CHANGED C. PATH 2 DATA GROUP 1: SLI12 EQL TO 180-345B. ADDED COT141 982TN 120-032B TO (E. PATH 4 DATA GROUP 1). ADDED MANUFACTURING NOTE 19. ADDED NOTE REFERENCE TO STOCKLIST ITEM 1070 AND 1080 TO NOTE 15 & 19. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: CJP	ENGR: CJP	SUPV: GEY	CERTIFIED: 11/09/95	ISSUE: 8
(PT9)=ENGINEERING NOTE 70;PATH 3 DATA GROUP 1 EQL 180-313 CHANGED TO READ 180-313T; MANUFACTURING NOTE 15;PATH 3 DATA GROUP 1 EQL 180-313 CHANGED TO READ 180-313T. ORIG ISS: 07/11/95 CHANGE CLASS: ME				
DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 12/11/95	ISSUE: 9

SHEET INDEX									
SHT NBR	A1 THRU A4								
ISSUE	ISSUE 24								
SHT NBR	D1 THRU D3								
ISSUE	ISSUE 24								
SHT NBR									
ISSUE									
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ISSUE									
SHT NBR									
ISSUE									

TABLE OF CONTENTS	
DESCRIPTION	SHT
SHEET INDEX	A1
ISSUE NOTES	A1
ENGINEERING-NOTES	A2
TABLE A	A3
MANUFACTURING NOTES	D1
STOCKLIST	D2
MISCELLANEOUS TABLES	D2

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BT10	
5ESS SWITCHING EQUIPMENT SPECIFICATION FOR DIGITAL NETWORKING UNIT-SONET (DNU-S)	
DWG SIZE C2	ISSUE 24
LUCENT TECHNOLOGIES INC	J5D003FR-1
SHEET A1 OF 7	

ENGINEERING NOTES

***** CONTINUED *****

OR PADDLEBOARD		EQL-TERMINAL NUMBER
A. PATH 0, DATA GROUP 0		
CC0	KLU2	088
CC1	KLU2	098
CD00	KLU3	080
CD01	KLU3	072
SFI00	KTU2	008
SFI01	KTU2	002
SLI00	9822DY	008-313B
TMUX0S	KTU1B	064
TMUX00	KTU1B	056
COT000	982TN	086-032T
COT001	982TN	072-432T
B. PATH 1, DATA GROUP 0		
SLI01	9822DY	008-332B
TMUX01	KTU1B	048
COT010	982TN	080-132T
COT011	982TN	071-032T
C. PATH 2, DATA GROUP 0		
SLI02	9822DY	008-345B
TMUX02	KTU1B	040
COT020	982TN	086-000T
COT021	982TN	072-400T
D. PATH 3 DATA GROUP 0		
SLI03	9822DY	008-313T
TMUX03	KTU1B	032
COT030	982TN	080-100T
COT031	982TN	071-000T
E. PATH 4 DATA GROUP 0		
SLI04	9822DY	008-332T
TMUX04	KTU1B	024
COT040	982TN	086-032B
COT041	982TN	072-432B
F. PATH 5 DATA GROUP 0		
SLI05	9822DY	008-345T
TMUX05	KTU1B	016
COT050	982TN	080-132B
COT051	982TN	071-032B

DATA GROUP 1 EQUIPPAGE AND EQUIPMENT LOCATION

DESIGNATION	CIRCUIT PACK OR PADDLEBOARD	EQL
A. PATH 0 DATA GROUP 1		
CD10	KLU3	106
CD11	KLU3	114
SFI10	KTU2	180
SFI11	KTU2	186
TMUX1S	KTU1B	124
SLI10	9822DY	180-313B
TMUX10	KTU1B	132
COT100	982TN	106-432T
COT101	982TN	120-032T
B. PATH 1 DATA GROUP 1		
SLI11	9822DY	180-332B
TMUX11	KTU1B	140
COT110	982TN	105-032T
COT111	982TN	114-132T
C. PATH 2 DATA GROUP 1		
SLI12	9822DY	180-345B
TMUX12	KTU1B	148
COT120	982TN	106-400T
COT121	982TN	120-000T
D. PATH 3 DATA GROUP 1		
SLI13	9822DY	180-313T
TMUX13	KTU1B	156
COT130	982TN	105-000T
COT131	982TN	114-100T
E. PATH 4 DATA GROUP 1		
SLI14	9822DY	180-332T
TMUX14	KTU1B	164
COT140	982TN	106-432B
COT141	982TN	120-032B
F. PATH 5 DATA GROUP 1		
SLI15	9822DY	180-345T
TMUX15	KTU1B	172
COT150	982TN	105-032B
COT151	982TN	114-132B

72. OPTIONAL KTU1 AND KTU1B, TMUX, CIRCUIT PACKS WITH VARIABLE LOCATIONS:
08-016,132
024,140
032,148
040,156
048,164
----- CONTINUED ON NEXT SHEET -----

ENGINEERING NOTES

- INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH AT&T PRACTICES-NONE.
- THIS DOCUMENT CONTAINS COMPLETE ENGINEERING INFORMATION FOR THE SUBJECT EQUIPMENT. JOB INFORMATION SHALL BE RECORDED BY LIST OR GROUP.
- REFER TO TRANSLATION GUIDE (TG5) FOR CLI VALUES.
- THE DNU IS A STAND ALONE UNIT. THE DNU-S CONNECTS TO SM2000 FROM A 5ESS-2000 CABINET ONLY. WHEN CONFIGURING FOR A CABINET UP TO TWO DNU-S UNITS CAN BE MOUNTED WITH THE FIRST LOCATED IN THE LOWER CABINET POSITION AND THE SECOND IN THE UPPER CABINET POSITION AS FOLLOWS.

UNIT TYPE CABINET VERTICAL EQL

PLENUM 11
FIRST DNU-S UNIT 0 (J5D003FR) 23** (SEE NOTE **)
FAN UNIT (J5D003FH) 36
SECOND DNU-S UNIT 1 (J5D003FR) 49** (SEE NOTE **)
OPEN* (SEE NOTE)
UNIT DESIGNATION, 0 OR 1, AND CABINET EQL ARE JOB ENGINEERED. DNUS 0 AND 1 MUST BE CONNECTED TO THE SAME SM.
DNU-S 0 WILL BE IN CABINET LEVEL 19 AND WILL BE FIRST UNIT EQUIPPED.

*POSITION NOT EQUIPPED BY DNU-S. MAY BE USED FOR OTHER HARDWARE DEPENDING ON POWER (FUSING AVAILABILITY) AND THERMAL CONSTRAINTS.
** CABINET VERTICAL EQL 23 IS EQUIVALENT TO EQL 19/28, AND ***CABINET VERTICAL EQL 49 IS EQUIVALENT TO EQL 45/53.
DNU-S 1 UNIT CAN BE REPLACED WITH A NON DNU-S UNIT, BUT THIS UNIT MUST NOT CONTAIN ANALOG LINES.
- ONE CARD GUIDE COVERS ALL POSITIONS FOR SHELF WITH SPECIFIC POSITIONS OPEN (TOP & BOTTOM) AT EQLS AS REQUIRED. SLOTS ARE NUMBERED SEQUENTIALLY AT OPEN POSITIONS STARTING WITH ONE.
- PCT LINK CABLES SHALL BE ORDERED BY ED-5D518-30 (BLUE) AND ED-5D518-30 (WHITE). STSX-1 LINK CABLES TO DSX CROSS CONNECT CABINET SHALL BE ORDERED FROM ED5D500-21.
- A MINIMUM OF 2 PER DATA GROUP AND A MAXIMUM OF 4 COMMON DATA, KLU3, CIRCUIT PACKS ARE REQUIRED PER UNIT PER LIST 3,3A.
- A MINIMUM OF 2 PER DATA GROUP AND A MAXIMUM OF 14 TRANSMISSION MULTIPLEXER CIRCUIT PACKS, KTU1B, ARE REQUIRED PER UNIT PER LIST 4A.
- A MINIMUM OF 2 PER DATA GROUP AND A MAXIMUM OF 4 STSX-1 FACILITY INTERFACE CIRCUIT PACKS, KTU2, ARE REQUIRED PER UNIT PER LIST 5.
- A MINIMUM OF 1 AND A MAXIMUM OF 12 STSX-1 LINK INTERFACE PADDLE-BOARDS, 9822DY, ARE REQUIRED PER LIST 6, PER DNU-S. MAXIMUM OF 6 PER DATA GROUP.
- A MINIMUM OF 2, AND A MAXIMUM OF 24 COMMON OPTICAL TERMINATION (COT) PADDLEBOARDS, 982TN, ARE REQUIRED PER LIST 7. TWO REQUIRED FOR EACH STSX-1 LINK.
- SEE ED5D088-12 FOR FUSE LABEL.
- A: ORDER POWER CABLES FOR DNU-S AT EQL 19/28 FROM ED5D693-10
B: ORDER POWER CABLES FOR DNU-S AT EQL 45/53 FROM ED5D693-10
- A MINIMUM OF 2 AND A MAXIMUM OF 2 COMMON CONTROL PROCESSOR CIRCUIT PACKS ARE REQUIRED PER LIST 2 OR 2A PER DNU-S.
- ED5D803-40 CABLE KIT DRAWING ORDERS GROUP 1.
- FOR FINAL ASSEMBLY KIT SEE FASKIT COMCODE DRAWING 847332020.
- REGIONAL ENGINEER MUST PROVIDE PATH AND DATA GROUP INFORMATION AS SHOWN IN TABLE BELOW. THIS INFORMATION IS NEEDED BY THE MANUFACTURING LOCATION TO EQUIP UNIT PROPERLY.
THE PRIMARY EQUIPPAGE REQUIRED FOR A DNU-S IS DATA GROUP 0, PATH 0. ALL OTHER REMAINING PATHS IN DATA GROUP 0 ARE OPTIONAL AND CAN BE ADDED IN OR REMOVED IN ANY ORDER. FOR DATA GROUP 1, PATH 0 MUST BE EQUIPPED FIRST. ALL OTHER REMAINING PATHS IN DATA GROUP 1 ARE OPTIONAL AND CAN BE ADDED OR REMOVED IN ANY ORDER.
PATH 0 MUST BE EQUIPPED ALL THE TIME IN A DNU DATA GROUP IF OTHER PATHS IN THAT DATA GROUP ARE TO BE EQUIPPED. PATH 0 IS THE CONDUIT BY WHICH CONTROL AND SYSTEM TIMING INFORMATION IS PASSED THROUGH A DATA GROUP.

DNU-S SONET PATHS PER DATA GROUPS 0 AND 1

DATA GROUP 0 EQUIPPAGE AND EQUIPMENT LOCATIONS

DESIGNATION CIRCUIT PACK
----- CONTINUED TO THE LEFT -----

ISSUE NOTES (CONTINUED)

(H8385)=MANUFACTURING NOTE 23 RE-INSTATED.

ORIG ISS: 07/11/95

CHANGE CLASS: ME

DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 02/01/99	ISSUE: 22
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(C94524)=IN TABLE A:LIST 3A RATING WAS STANDARD;LIST 3B ADDED.
IN STOCKLIST:ITEM 1046 ADDED.
TABLE D9:LIST 3B ADDED TO LIST COLUMN.

ORIG ISS: 07/11/95

CHANGE CLASS: AU

DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 08/18/99	ISSUE: 23
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(H8662) IN TABLE A LIST 4 RATED DA, LIST 4A & D3 ADDED. IN SL ITEM 1055 & 2069 ADDED. ENG NOTE 61 MODIFIED TO SHOW KTU1B AND LIST 4A; NOTE 70 MODIFIED TO SHOW KTU1B; NOTE 74 REWRITTEN TO CLARIFY EQUIPPAGE OF DNU-S WHEN USED IN A RSM. MAN NOTE 15 MODIFIED TO SHOW KTU1B; NOTE 24 MODIFIED TO SHOW LIST 4 AS 4(); NOTE 27 MODIFIED TO SHOW LIST D3 AND ED5D806-10. TABLE D9 LIST 4A AND D3 ADDED.

ORIG ISS: 07/11/95

CHANGE CLASS: D

DRAFT: MAL	ENGR: MAL	SUPV: GEY	CERTIFIED: 12/15/99	ISSUE: 24
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SHEET A2
OF 7

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 FOR ONE DIGITAL NETWORKING UNIT-SONET.(847332012)	54 69 75		1	1							
COMMON CONTROL PROCESSOR CIRCUIT PACK (KLU2). (5E10 OR LATER) DA EFF:01/29/97 FE:J5D003FR-1,L2A	67	DA	2	1							
COMMON CONTROL PROCESSOR CIRCUIT PACK (KLU2). (5E10 OR LATER) REPL:J5D003FR-1,L2	67 500		2A	1							
COMMON DATA CIRCUIT PACK (KLU3). (5E10 OR LATER) DA EFF:10/15/96 FE:J5D003FR-1,L3A	60	DA	3	1							
COMMON DATA CIRCUIT PACK (KLU3). (5E10 OR LATER) DA EFF:08/18/99 FE:J5D003FR-1,L3B	60 500	DA	3A	1							
COMMON DATA CIRCUIT PACK (KLU3). (5E10 OR LATER) REPL:J5D003FR-1 L3A	60 500		3B	1							
TRANSMISSION MULTIPLEXER CIRCUIT PACK (KTU1). (5E10 OR LATER) DA EFF:12/15/99 FE:J5D003FR-1,L4A	61 500 74	DA	4	1							
TRANSMISSION MULTIPLEXER CIRCUIT PACK (KTU1B). (5E10 OR LATER) REPL:J5D003FR-1 L4	61 500 72 74		4A	1							
STSX-1 FACILITY INTERFACE CIRCUIT PACK (KTU2). (5E10 OR LATER)	62 500		5	1							
STSX-1 LINK INTERFACE PADDLE-BOARD (9822DY).	63 500		6	1							
COMMON OPTICAL TERMINATION (COT) PADDLEBOARD (982TN)	64 500		7	1							
APPARATUS BLANK DA EFF:09/29/97 FE/RA:NONE	55 499	DA	B1	1							
162E APPARATUS BLANK (1 INCH) DA EFF:09/29/97 FE/RA:NONE	55	DA	B2	1							
174D APPARATUS BLANK (1 INCH) DA EFF:09/29/97 FE/RA:NONE	55	DA	B3	1							
LABEL, DESIGNATION NS COMPATIBLE FRONT; REQUIRED IN ADDITION TO LIST 1. DA EFF:09/29/97 FE/RA:NONE		DA	D1	1	ED5D806-10	1					
LABEL, DESIGNATION NS COMPATIBLE REAR; REQUIRED IN ADDITION TO LIST 1. DA EFF:09/29/97 FE/RA:NONE		DA	D2	1	ED5D806-10	2					
EQUIPMENT REQUIRED IN ADDITION TO LIST 4A ONLY FOR RSM APPLICATIONS EQUIPPED WITH ANN5(),DF11, CIRCUIT PACKS. PROVIDES KTU1B LABEL. REPL:NONE	74		D3	1	ED5D806-10	9					
LABEL,FUSE FOR DNU-S 0 ONLY DA EFF:11/14/97 FE:J5D003FR-1,LE3		DA	E1	1	ED5D088-12	94A					
				1	ED5D088-12	94B					
				1	ED5D088-12	94C					
LABEL,FUSE FOR DNU-S 0 AND 1 DA EFF:11/14/97 FE:J5D003FR-1,LE4		DA	E2	1	ED5D088-12	95A					
				1	ED5D088-12	95B					
				1	ED5D088-12	95C					

TABLE-A CONTINUED

J5D003FR-1

ENGINEERING NOTES

***** CONTINUED *****

124,172

73. WHEN ORDERING FIBER OPTIC CABLES (PCT LINKS) FOR DNU-S WITHIN A SWITCH MODULE, USE VIRGOS. IF VIRGOS DOES NOT CONTAIN THE PCT LINK INFORMATION NEEDED THEN USE CAB2000 COMPUTERIZED CABLE LENGTH CALCULATION PROGRAM AND REFER TO ED5D734-10, ENGINEERING NOTES 53 AND 77 AND MISCELLANEOUS TABLES BB-4,BB-5, AND BB-6. ***** THE FIBER OPTIC CABLES SHOULD BE RUN IN THE APPROPRIATE AREA OF THE CABLE TROUGH. TAKE-UP SPOOLS SHOULD BE USED PER ED5D518-10, METHOD OF CABLING DRAWING FOR FIBER OPTIC CABLES.
74. FOR RSM APPLICATIONS;L4A (KTULB) IS REQUIRED FOR RSMS EQUIPPED WITH DF11 PACKS, ANN5(). LIST 4 (KTU1) OR LIST 4A (KTULB) CAN BE USED IN CONJUNCTION WITH RSMS EQUIPPED WITH DF12 PACKS, TN1612().
75. LOOSE LABELS CAN BE ORDERED THROUGH THE CONTROLLING ED DRAWING ONLY. REFERENCE TABLE A, TABLE D9 AND MANUFACTURE NOTES IN J DRAWING TO DETERMINE APPROPRIATE ED GROUPS.FRONT AND REAR LABELS WILL BE PROVIDED BY THE FACTORY ON NON-X AND CABINET MOUNTED UNITS ONLY WHEN LIST 1 IS EQUIPPED WITH A FINAL ASSEMBLY KIT. THESE REAR LABELS WILL BE STAMPED TO REFLECT ULTIMATE CIRCUIT PACK EQUIPPAGE. LABEL INFORMATION INDICATED IN TABLES A AND D9 BY A D()LIST WILL BE PROVIDED ONLY WHEN THE SPECIFIC D() LIST IS ORDERED. ***** ON ALL ORDERS, A HORIZONTAL EQL MUST BE SPECIFIED FOR EACH J LIST WHICH PROVIDES A CIRCUIT PACK EQUIPPED IN A MULTI-PURPOSE CIRCUIT PACK POSITION AND FOR EACH ASSOCIATED D LIST. ***** VERTICAL EQL AND UNIT NUMBER MUST BE SPECIFIED WHEN ORDERING NON-X OR CABINET MOUNTED UNITS. THIS INFORMATION IS INCLUDED ON THE DESIGNATION STRIP LABELS. ***** EACH DESIGNATION STRIP LABEL HAS TWO COMPONENTS; STAMPING INFORMATION AND LABEL MATERIAL. TABLE D9 PROVIDES REFERENCES TO APPROPRIATE STAMPING INFORMATION ONLY. DESIGNATION STRIP MATERIAL IS PROVIDED IN THE FINAL ASSEMBLY KIT FOR EACH UNIT. ***** WHEN MULTIPLE FEATURES ASSOCIATED WITH A GIVEN CIRCUIT PACK ARE BEING SPECIFIED, ONLY ONE D() LIST SHOULD BE ORDERED. SPECIFY ONLY THE HIGHEST D() LIST NUMBER APPROPRIATE FOR THE DESIRED FEATURE SET.
499. REPLACEMENT APPARATUS BLANKS MAY BE ORDERED FROM ED5D868-30, 5ESS SWITCH COMMON USE HARDWARE AND MATERIALS.
500. THIS LIST OR GROUP MAY BE SPECIFIED AS A MAIN OR SUPPLEMENTAL ITEM.

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DWG SIZE C2 ISSUE 24

LUCENT TECHNOLOGIES INC J5D003FR-1

SHEET A3 OF 7

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
LABEL,FUSE FOR DNU-S 0 ONLY REPL:J5D003FR-1,LE1	500		E3	1 1 1	ED5D088-12 ED5D088-12 ED5D088-12	262A 262B 262C					
LABEL,FUSE FOR DNU-S 0 AND 1 REPL:J5D003FR-1,LE2	500		E4	1 1 1	ED5D088-12 ED5D088-12 ED5D088-12	263A 263B 263C					
FINAL ASSEMBLY KIT FOR DNU-S (847332020)	69 500		F1	1							
KIT,APPARATUS BLANKS (848033625) REPL:J5D003FR-1,LE1	499		F2								
KIT, UNIT GUIDE (847286754)	500		G2	1							
END OF TABLE-A											

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DWG SIZE C2 ISSUE 24

J5D003FR-1

LUCENT TECHNOLOGIES INC J5D003FR-1

SHEET A4 OF 7

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MANUFACTURING NOTES

***** CONTINUED *****

- 19. THESE CONNECTORS DO NOT REQUIRE EQL STAMPING.
- 20. RESERVED

X

21. APPARATUS BLANK TABLE

POSITION NUMBER	APPARATUS BLANK TYPE	COMCODE
16,17	162E	105479257
26,27	174C	105552368
03,04,05, 06,07,09, 18,19,20, 21,22,23, 24	174D	105552376
10,14,25, 28	174A	105552343

THE ABOVE EQL'S MUST BE EQUIPPED WITH THE APPROPRIATE APPARATUS BLANK WHEN POSITION IS NOT EQUIPPED WITH CIRCUIT PACK.

X

- 23. BASIC FRONT AND REAR LABEL INFORMATION.

X

- 24. FOR NON-X OR CABINET MOUNTED UNITS, THE FACTORY SHOULD SHIP REAR LABELS STAMPED TO THE ULTIMATE EQUIPAGE EVEN IF LIST 2(),3(),4(), OR 5 CIRCUIT PACKS ARE NOT EQUIPPED. REFERENCE MANUFACTURING NOTES 25-28 FOR ULTIMATE REAR LABEL STAMPING INFORMATION TO BE PROVIDED ON THE LIST 1 REAR LABEL.

X

- 25. WHEN LIST 1 LABEL INFORMATION IS PROVIDED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G5 IN HEQL'S 088,098.

X

- 26. WHEN LIST 1 LABEL INFORMATION IS PROVIDED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G6 IN HEQL'S 072,080,106,114.

X

- 27. WHEN LIST 1 LABEL INFORMATION IS PROVIDED, BUT LIST D3 IS NOT SPECIFIED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G7 IN ALL HEQL POSITIONS 016,024,032,040,048,056,064,124,132,140,148,156,164 AND 172.

WHEN LIST D3 IS SPECIFIED ALONG WITH LIST 4A STAMP ALL HEQL POSITIONS 016,024,032,040,048,056,064,124,132,140,148,156,164 AND 172 WITH LABEL INFORMATION PER ED5D806-10,G9.

X

- 28. WHEN LIST 1 LABEL INFORMATION IS PROVIDED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G8 IN HEQL'S 002,008,180,186.

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MANUFACTURING NOTES

***** CONTINUED *****

SLI03	9822DY	008-313T
TMUX03	KTULB	032
COT030	982TN	080-100T
COT031	982TN	071-000T
E. PATH 4 DATA GROUP 0		
SLI04	9822DY	008-332T
TMUX04	KTULB	024
COT040	982TN	086-032B
COT041	982TN	072-432B
F. PATH 5 DATA GROUP 0		
SLI05	9822DY	008-345T
TMUX05	KTULB	016
COT050	982TN	080-132B
COT051	982TN	071-032B

DATA GROUP 1 EQUIPAGE AND EQUIPMENT LOCATION

DESIGNATION CIRCUIT PACK OR PADDLEBOARD EQL-TERMINAL NUMBER

A. PATH 0 DATA GROUP 1

CD10	KLU3	106
CD11	KLU3	114
SFI10	KTU2	180
SFI11	KTU2	186
TMUX1S	KTULB	124
SLI10	9822DY	180-313B
TMUX10	KTULB	132
COT100	982TN	106-432T
COT101	982TN	120-032T
B. PATH 1 DATA GROUP 1		
SLI11	9822DY	180-332B
TMUX11	KTULB	140
COT110	982TN	105-032T
COT111	982TN	114-132T
C. PATH 2 DATA GROUP 1		
SLI12	9822DY	180-345B
TMUX12	KTULB	148
COT120	982TN	106-400T
COT121	982TN	120-000T
D. PATH 3 DATA GROUP 1		
SLI13	9822DY	180-313T
TMUX13	KTULB	156
COT130	982TN	105-000T
COT131	982TN	114-100T
E. PATH 4 DATA GROUP 1		
SLI14	9822DY	180-332T
TMUX14	KTULB	164
COT140	982TN	106-432B
COT141	982TN	120-032B
F. PATH 5 DATA GROUP 1		
SLI15	9822DY	180-345T
TMUX15	KTULB	172
COT150	982TN	105-032B
COT151	982TN	114-132B

X

- 16. COMMON DATA CIRCUIT PACK (KLU3):FIXED POSITIONS ARE 08-072 & 08-080; OPTIONAL EQUIPMENT POSITIONS ARE 08-106 & 08-114.

X

- 17. A MINIMUM OF 2 PER DATA GROUP AND A MAXIMUM OF 4 STSX-1 FACILITY INTERFACE CIRCUIT PACKS, KTU2, ARE REQUIRED PER UNIT PER LIST 5. EQUIPMENT POSITIONS ARE:08-002,008,180,186

X

- 18. THE DNU IS A STAND ALONE UNIT. THE DNU-S CONNECTS TO SM2000 FROM A 5ESS-2000 CABINET ONLY. WHEN CONFIGURING FOR A CABINET UP TO TWO DNU-S UNITS CAN BE MOUNTED WITH THE FIRST LOCATED IN THE LOWER CABINET POSITION AND THE SECOND IN THE UPPER CABINET POSITION AS FOLLOWS.

UNIT TYPE CABINET VERTICAL EQL

PLENUM	11
FIRST DNU-S UNIT(J5D003FR)	23** (SEE NOTE **)
FAN UNIT (J5D003FH)	36
SECOND DNU-S UNIT(J5D003FR)	49** (SEE NOTE **)
OPEN* (SEE NOTE *)	
UNIT DESIGNATION,0 OR 1, AND CABINET EQL ARE JOB ENGINEERED.	

*POSITION NOT EQUIPPED BY DNU-S. MAY BE USED FOR OTHER HARDWARE DEPENDING ON POWER (FUSING AVAILABILITY) AND THERMAL CONSTRAINTS.

** CABINET VERTICAL EQL 23 IS EQUIVALENT TO EQL 19/28, AND CABINET VERTICAL EQL 49 IS EQUIVALENT TO EQL 45/53.

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MANUFACTURING NOTES

- 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. CABLE SUPPORTS LOCATED AT UPPER, MIDDLE AND LOWER POSITIONS OF UNIT ARE INCLUDED AS ITEMS IN THE FINAL ASSEMBLY KIT. SEE J5D003F-2 FOR MOUNTING POSITIONS.

X

- 13. KEY CODES SHALL BE ASSEMBLED AND EQUIPPED PER TABLE CA OF 847332012 ASSEMBLY, SHELF DRAWING.

X

- 14. ONE CARD GUIDE COVERS ALL POSITIONS FOR SHELF WITH SPECIFIC POSITIONS OPEN (TOP & BOTTOM) AT EQLS AS REQUIRED. SLOTS ARE NUMBERED SEQUENTIALLY AT OPEN POSITIONS STARTING WITH ONE. SEE TABLE D10 FOR APPARATUS BLANK ASSIGNMENTS.

X

- 15. DNU-S SONET PATHS PER DATA GROUPS 0 AND 1

DATA GROUP 0 EQUIPAGE AND EQUIPMENT LOCATIONS

DESIGNATION CIRCUIT PACK OR PADDLEBOARD EQL-TERMINAL NUMBER

A. PATH 0, DATA GROUP 0

CC0	KLU2	088
CCL	KLU2	098
CD00	KLU3	080
CD01	KLU3	072
SFI00	KTU2	008
SFI01	KTU2	002
SLI00	9822DY	008-313B
TMUX0S	KTULB	064
TMUX00	KTULB	056
COT000	982TN	086-032T
COT001	982TN	072-432T
B. PATH 1, DATA GROUP 0		
SLI01	9822DY	008-332B
TMUX01	KTULB	048
COT010	982TN	080-132T
COT011	982TN	071-032T
C. PATH 2, DATA GROUP 0		
SLI02	9822DY	008-345B
TMUX02	KTULB	040
COT020	982TN	086-000T
COT021	982TN	072-400T
D. PATH 3 DATA GROUP 0		

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BT10

5ESS SWITCHING EQUIPMENT
SPECIFICATION FOR
DIGITAL NETWORKING UNIT-SONET
(DNU-S)

DWG SIZE C2 ISSUE 24

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1000	1	1	847332012		ASSEMBLY, SHELF			18
1010	F1	1	847332020		KIT, FINAL ASSEMBLY			
1015	F2	1	848033825		KIT, APPARATUS BLANK			21
1025	G2	1	847286754		KIT, MOUNTING			
1030	2	1	107061566	KLU2	PACK,CIRCUIT FE CLEI=E5PQAKFA CLEI = E5PQATXA EQPT POS 08-088,08-098			67 15
1035	2A	1	107934465	KLU2	PACK,CIRCUIT FE CLEI=E5PQAUCA CLEI = E5PQAYNA EQPT POS 08-088,08-098			67 15
1040	3	1	107061574	KLU3	PACK,CIRCUIT CLEI = E5PQAKGA EQPT POS 08-072,08-080			16 15
1045	3A	1	107802266	KLU3	PACK,CIRCUIT, COMMON DATA 5ESS CLEI = E5PQATEA EQPT POS 08-072,08-080			15 16
1046	3B	1	108595612	KLU3	PACK,CIRCUIT COMMON DATA CLEI = E5PQA0PA EQPT POS 08-072,08-080			15 16
1050	4	1	107061582	KTU1	PACK,CIRCUIT CLEI = E5PQAKBA EQPT POS 08-056,08-064			61 15
1055	4A	1	108225343	KTULB	PACK,CIRCUIT TMUX/T MULTIPLEX CLEI = E5PQAYRA EQPT POS 08-056,08-064			61 15
1060	5	1	107061590	KTU2	PACK,CIRCUIT FE CLEI=E5PQAKCA CLEI = E5PQAX1A EQPT POS 08-002,08-008			17 15
1070	6	1	106708795	9822DY	ASSEMBLY, ELECTRICAL CONNECTOR FEMALE, 24 CONTACT			15 19
1080	7	1	104177704	982TN	CONNECTOR			15 19
2040	B1	1	105552368	174C	BLANK, APPARATUS			21
2050	B1	1	105479257	162E	BLANK, APPARATUS			21
2060	B1	1	105552376	174D	BLANK			21
2065	D1	1	ED5D806-10,G1		LABELS			
2068	D2	1	ED5D806-10,G2		LABELS			
2069	D3	1	ED5D806-10,G9		LABELS			27
2070	E1	1	ED5D088-12,G94A, G94B,G94C		LABELS, FUSE			
2075	B1	1	105552343	174A	BLANK, APPARATUS			21
2080	E2	1	ED5D088-12,G95A, G95B,G95C		LABELS, FUSE			
2085	E3	1	ED5D088-12, G262A,G262B, G262C		LABELS, FUSE			
2090	E4	1	ED5D088-12, G263A,G263B, G263C		LABELS, FUSE			

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

TABLE D9

LIST	ASSOCIATED D LIST	ED GROUP FOR LABEL	NOTE
1		ED5D806-10,G3	23
1		ED5D806-10,G4	23,24
2,2A		ED5D806-10,G5	24,25
3,3A, 3B		ED5D806-10,G6	24,26
4,4A 4A	D3	ED5D806-10,G7 ED5D806-10,G9	24,27 27
5		ED5D806-10,G8	24,28

NOTE 23: BASIC FRONT AND REAR LABEL INFORMATION THAT IS REQUIRED WHEN A UNIT IS ACCOMPANIED BY A FINAL ASSEMBLY KIT.

NOTE 24: FOR NON-X OR CABINET MOUNTED UNITS, THE FACTORY SHOULD SHIP REAR LABELS STAMPED TO THE ULTIMATE EQUIPAGE EVEN IF LIST 2(),3(),4(),OR 5 CIRCUIT PACKS ARE NOT EQUIPPED. REFERENCE MANUFACTURING NOTES 25-28 FOR ULTIMATE REAR LABEL STAMPING INFORMATION TO BE PROVIDED ON LIST 1 REAR LABEL.

NOTE 25: WHEN LIST 1 LABEL INFORMATION IS PROVIDED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G5 IN HEQL'S 088,098.

NOTE 26: WHEN LIST 1 LABEL INFORMATION IS PROVIDED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G6 IN HEQL'S 072,080,106,114.

NOTE 27: WHEN LIST 1 LABEL INFORMATION IS PROVIDED, BUT LIST D3 IS NOT SPECIFIED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G7 IN ALL HEQL POSITIONS 016,024,032,040,048,056,064,124,132,140,148,156,164 AND 172.

WHEN LIST D3 IS SPECIFIED ALONG WITH LIST 4A STAMP ALL HEQL POSITIONS 016,024,032,040,048,056,064,124,132,140,148,156,164 AND 172 WITH LABEL INFORMATION PER ED5D806-10,G9.

NOTE 28: WHEN LIST 1 LABEL INFORMATION IS PROVIDED, STAMP REAR LABEL INFORMATION PER ED5D806-10,G8 IN HEQL'S 002,008,180,186.

TABLE D1

STOCKLIST FOR FASKIT 847332020 ISS: 7 CERTIFIED			
QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION
1	106282973	151E	STRIP, DESIGNATION OA WD 1, OA LG 24.33 THK. .16
2	407763218		LABEL, DESIGNATION #P-258SCP TOPFLIGHT CORP.
24	406693895	WP91768L108	FUSE, 3.00 AMP FAST ACTING
3	845311117		SUPPORT, BRACKET
10	901271031		SCREW, HEXAGONAL WASHER #M6X16 PHILLIPS ACR 2

STOCKLIST FOR FASKIT 848033825 ISS: 1 CERTIFIED			
QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION
2	105479257	162E	BLANK, APPARATUS
2	105552368	174C	BLANK, APPARATUS
12	105552376	174D	BLANK
4	105552343	174A	BLANK, APPARATUS

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BT10

5ESS SWITCHING EQUIPMENT
SPECIFICATION FOR
DIGITAL NETWORKING UNIT-SONET
(DNU-S)

DWG SIZE C2 ISSUE 24

J5D003FR-1

LUCENT TECHNOLOGIES INC J5D003FR-1

SHEET OF 7

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TABLE D2

STOCKLIST FOR UNIT GUIDE KIT 847286754 ISS: 2 CERTIFIED			
QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION
4	847416682		BRACKET, MOUNTING
16	901274498		SCREW, TRILOBE SCREW, THREAD FORMING, FLAT HEAD QUALITY SCREW & NUT CO.

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(DNU-S)

DWG SIZE C2	ISSUE 24
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J5D003FR-1

LUCENT TECHNOLOGIES INC J5D003FR-1

SHEET OF	D3 7
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