

ENGINEERING NOTES

***** CONTINUED *****

USE GROUP GR. 1C, QTY 2.
 *
 FACTORY INSTALLATION:
 *
 - PLACE 2 FERRITES ON THE POWER CABLES AT THE PDXU, ONE ON EACH CABLE WITH THE CABLE LOOPED TWICE AROUND THE FERRITE. USE GR. 1D, QTY. 2.
 *
 - PLACE 4 FERRITES ON THE QPIDB CABLES AT THE PDXU, TWO ON EACH HALF OF THE CABLES. USE GR. 1D, QTY. 2.
 *
 FOR ADDITIONAL INFORMATION, REFER TO THE SIG-1-WW-100 5ESS GLOBAL SWITCH HANDBOOK, SECTION 4872, FIG. 10, P.13.

ENGINEERING NOTES

- 51. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH LUCENT PRACTICES.
- 52. NRTO - NOT READY TO ORDER.
- 53. MOUNTING THE LOCATION OF THIS FERRITE:
 TWO (2) WHERE THE CABLE ENTERS THE VERTICAL CHANNEL AND TWO (2) MORE AT THE LOCATION WHERE THE CABLE EXITS THE CABINET-SHIELD IN THE CABLE RACK. FERRITE MERELY SNAPS ON.
- 54. MOUNTING LOCATION OF THIS FERRITE:
 ONE (1) WHERE THE CABLE ENTERS THE VERTICAL CHANNEL AND ONE (1) MORE AT THE LOCATION WHERE THE CABLE EXITS THE CABINET-SHIELD IN THE CABLE RACK. FERRITE MERELY SNAPS ON.
 OTHER MOUNTING LOCATION OF THIS FERRITE:
 WHEN FAC/AIU APPLICATION, SNAP-ON TWO (2) FERRITES AT THE LOCATION IN THE CABLE RACK WHERE THE CABLE IS CLOSE TO ENTERING THE CABINET.
- 55. MOUNTING LOCATION OF THIS FERRITE:
 TWO (2) FERRITES ARE TO BE MOUNTED IMMEDIATELY BELOW THE T/R CONNECTOR BODY THAT IS ON THE CABLE THAT CONNECTS ON THE FRONT OF THE FAC/AIU UNIT. THE FERRITES MERELY SNAP ON.
- 56. THIS POWER LINE FILTER ASSEMBLY IS USED ONLY IN CONJUNCTION WITH A MESH GROUND SYSTEM FOR THE 5ESS-2000.
- 57. THIS POWER LINE FILTER ASSEMBLY IS USED ONLY IN CONJUNCTION WITH A SINGLE POINT GROUND SYSTEM FOR THE 5ESS-2000.
- 58. INFORMATION FURNISHED PER THIS DRAWING IS IN ACCORDANCE WITH LUCENT PRACTICES.
- 59. THIS EQUIPMENT FOR THE EMEA MARKET ONLY.
- 60. AN EMC SHIELD MUST BE PLACED BETWEEN THE CABINET SEPARATION OF THE 5ESS-2000 & STM EQUIPMENT.
- 61. FOR ADDITIONAL INFORMATION, REFER TO THE GLOBAL INSTALLATION HANDBOOK, SIG.-I-WW-100, SECTION: 9212.
- 62. WHEN ORDERING EMC SHIELDS FOR THE SIDE OF THE CABINET, ORDER 1 PER STM-MODULE IF MODULE IS LOCATED AT THE END OF LINEUP. ORDER 2 PER STM-MODULE IF MODULE IS LOCATED BETWEEN 2 NON-STM CABINETS.
- 63. B. MOUNTING LOCATION OF THIS FERRITE:
 ONE (1) FERRITE IS TO BE MOUNTED ON THE POWER FEED CABLE RIGHT ABOVE THE POWER FEED CONNECTOR THAT CONNECTS TO THE POWER LINE FILTER MOUNTED AT THE TOP OF THE FRAME.
- 64. XAIU REQUIREMENTS:
 *
 THE FERRITES BELOW ARE EXTRA FOR THE XAIU QPIDB, POWER AND THERMAL COUPLE CABLES:
 *
 FIELD INSTALLATION:
 *
 - PLACE 1 FERRITE ON THE THERMAL COUPLE AND ALARM CABLE AT THE FAN CONTROLLER, WITH THE CABLES LOOPED ONCE AROUND THE FERRITE. USE GR. 1C.
 *
 - PLACE 1 FERRITE ON EACH QPIDB CONNECTOR AT THE HOST BACKPLANE.
 ----- CONTINUED TO THE LEFT -----

ISSUE NOTES

THIS IS A NEW DRAWING.

ORIG ISS: 06/01/98 NDD NBR: NDD5D832IX-2 CHANGE CLASS: ME

DRAFT: EMR	ENGR: EMR	SUPV: EJZ	CERTIFIED: 06/01/98	ISSUE: 1
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ADDED: STOCKLIST ITEMS 1017-1018, 1282, 1284, 1420, 1430, 1440, 1450.
 REMOVED: GROUPS 1, 1A, 1B.
 ADDED: GROUPS 1D, 1E, 25D, AND 43.

ORIG ISS: 06/01/98 NDD NBR: C1034 CHANGE CLASS: NEW

DRAFT: EMR	ENGR: EMR	SUPV: EJZ	CERTIFIED: 02/25/00	ISSUE: 2
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ISSUE CREATED DUE TO ERROR IN CERTIFICATION.
 2/28/00 - 3W0
 REMOVED: GROUPS 1, 1A, 1B.
 ADDED: GROUPS 1C, 1D, 1E, 5C, 25D AND 43
 GROUPS 21, 22A, 22B, 23A, 23B, 25A, 25B, 25C & 31
 UPGRADE FROM "NRTO" TO "ACTIVE".
 ADDED SL ITEMS: 1017-1018, 1282, 1284, 1420, 1430, 1440, 1450, 1016, 1500, 1510
 3/23/00 AND 4/27/00 - 3W1 AND 3W2
 TABLE A:
 IN GROUP DESCRIPTION FOR G1D AND G1E, "FE:" SHOULD READ "REPL:"
 ALSO RE-WORDED THE DESCRIPTION FOR G31.
 SL QUANTITY OF ITEM 1420 SHOULD BE "2" NOT "1".

ORIG ISS: 06/01/98 NDD NBR: C00003 CHANGE CLASS: ME

DRAFT: EMR	ENGR: EMR	SUPV: EJZ	CERTIFIED: 07/27/00	ISSUE: 3
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ISSUE 4W0

SH A2, TABLE A, LIST 41, DESC, CHGD
 ...JUNCTIONING OF CABINETS THAT... TO READ
 ...JUNCTIONING OF 24 INCH DEEP CABINETS THAT...
 LIST 42, DESC, CHGD ...JUNCTIONING OF CABINETS AT THE... TO READ
 ...JUNCTIONING OF 24 INCH DEEP CABINETS AT THE...
 NOTE 64 ADDED.

ORIG ISS: 06/01/98 NDD NBR: H09347 CHANGE CLASS: ME

DRAFT: EMR	ENGR: JMB	SUPV: EJZ	CERTIFIED: 05/23/01	ISSUE: 4
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TABLE D-LIST OF ASSOCIATED REFERENCES

NUMBER	TITLE
ED5D779-70	5ESS GLOBAL CABLE RACK PHASE II
ED5D785-70	5ESS SWITCH CABINET AND SOME EMC TREATMENT
ED5D786-70	5ESS END GUARDS / STANCHION / EMC ASSEMBLIES
ED5D792-70	5ESS GLOBAL CROSS-AISLE CABLE DU CTS
ED5D805-10	5ESS POWER DISTRIBUTION AND GROUNDING METHODS
SD5D001-02	5ESS SWITCHING SYSTEM FLOOR PLAN DATA

=DENOTES NOT REQD BY INSTALLER

ED5D832-70

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BN99	
EMC AND POWER TREATMENT FOR GLOBAL SWITCH CABINET AND CENTRAL OFFICE HARDWARE	
DWG SIZE C2	ISSUE 4
LUCENT TECHNOLOGIES INC	ED5D832-70
SHEET A1 OF 4	

TABLE A-FEATURES												
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	
FERRITE ASSEMBLY. REQUIRED IN 5ESS-2000 INSTALLATIONS THAT REQUIRE EMC TREATMENT. QTY: ONE (1) G1 PER 128-PAIR T/R CABLE. DA EFF: FE:ED5D832-70 G1D	53	DA	1	4								
FERRITE ASSEMBLY. REQUIRED IN 5ESS-2000 INSTALLATIONS THAT REQUIRE EMC TREATMENT. QTY: ONE (1) G1A PER 128-PAIR T/R CABLE. DA EFF: FE:ED5D832-70 G1D	54	DA	1A	36								
FERRITE CORE ASSEMBLY REQUIRED IN 5ESS-2000 AIU INSTALLATIONS THAT REQUIRE EMC TREATMENT. QTY: ONE (1) G1B PER 128-PWR T/R CABLE. THIS KIT CONTAINS THE AMOUNT OF FERRITES NEEDED PER ONE SHELF UNIT. (KIT) DA EFF: FE:ED5D832-70 G1E	55	DA	1B	40								
FERRITE CORE ASSEMBLY REQUIRED IN 5ESS-2000 AIU INSTALLATIONS THAT REQUIRE EMC TREATMENT. QTY: ONE (1) G1C PER PWR FEED FOR PWR. LINE FILTER.	63 64		1C	1								
FERRITE ASSEMBLY REQUIRED IN 5ESS-2000 INSTALLATION THAT REQUIRE EMC TREATMENT. QTY: ONE (1) G1D PER 128-PAIR T/R CABLE. REPL:ED5D832-70,G1 REPL:ED5D832-70,G1A	54 64		1D	2								
FERRITE CORE ASSEMBLY REQUIRED IN 5ESS-2000 AIU INSTALLATIONS THAT REQUIRE EMC TREATMENT. QTY: ONE (1) G1E PER 128-PAIR T/R CABLE. REPL:ED5D832-70,G1B	55		1E	10								
EMC SHIELD FOR THE SIDE OF A CABINET. THIS IS REQUIRED BETWEEN STM-CABINET AND A NON-STM CABINET.	60 61 62		5C	1								
POWER LINE FILTER. REQUIRED IN MESH EARTH APPLICATIONS. QTY: ONE (1) PER POWER FEEDER.	56		11	1								
POWER LINE FILTER. REQUIRED IN SINGLE POINT GROUND APPLICATIONS. QTY: ONE (1) PER POWER FEEDER.	57		12	1								
CABLE RACK CONNECTING BOX FOR SHIELDED CABLES. REQUIRED TO TERMINATE THE SHIELD TO FRAME GROUND.			21									
RAISED FLOOR CONNECTING BOX FOR SHIELDED CABLES. REQUIRED FOR NON-SMC CABINETS TO TERMINATE THE SHIELD TO FRAME GROUND. DISTANCE BOTTOM RAISED FLOOR TILL CONCRETE FLOOR 215MM OR MORE. QTY:			22A									
RAISED FLOOR CONNECTING BOX FOR SHIELDED CABLES. REQUIRED FOR NON-SMC CABINETS TO TERMINATE THE SHIELD TO FRAME GROUND. DISTANCE BOTTOM RAISED FLOOR TILL CONCRETE FLOOR 140-215MM. QTY:			22B									

TABLE-A CONTINUED

ED5D832-70

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	
RAISED FLOOR CONNECTING BOX FOR SHIELDED CABLES. REQUIRED FOR SMC CABINETS TO TERMINATE THE SHIELD TO FRAME GROUND. DISTANCE BOTTOM RAISED FLOOR TILL CONCRETE FLOOR 215MM OR MORE. QTY:			23A									
RAISED FLOOR CONNECTING BOX FOR SHIELDED CABLES. REQUIRED FOR SMC CABINETS TO TERMINATE THE SHIELD TO FRAME GROUND. DISTANCE BOTTOM RAISED FLOOR TILL CONCRETE FLOOR 140-215MM. QTY:			23B									
GROUNDING PLATE. REQUIRED IN ADDITION TO G21, G22A, G22B, G23A OR G23B TO TERMINATE TWO (2) SHIELDED MULTI (16) CABLES.	59		25A									
GROUNDING PLATE. REQUIRED IN ADDITION TO G21, G22A, G22B, G23A OR G23B TO TERMINATE THREE (3) SHIELDED CABLES. (MULTI-8/ROP/MCRT)	59		25B									
GROUNDING PLATE. REQUIRED IN ADDITION TO G21, G22A, G22B, G23A OR G23B TO TERMINATE TWO (2) SUB-D CONNECTORS FOR AWS/VCDX OR AWS-SM2000/VCDX-SM2000 APPLICATIONS.			25C									
CONNECTOR GROUNDING PLATE TO TERMINATE OUTER SHIELD OF THE CABLE TO THE EMC CONNECTOR BOX.			25D									
RAISED FLOOR CONNECTING BOX (LOOSE) FOR SHIELDING CABLES. THIS IS REQUIRED FOR ALL CABINETS TO TERMINATE THE SHIELD TO FRAME GROUND IN CASE OF MESH GROUND AND NON-EMC APPLICATION.	59		31									
PARTS REQUIRED TO PROVIDE JUNCTIONING OF 24" DEEP CABINETS THAT ARE UNITIZED IN THE FACTORY BEFORE SHIPMENT.			41	1								
PARTS REQUIRED TO PROVIDE JUNCTIONING OF 24" DEEP CABINETS AT THE CUSTOMER LOCATION.			42	1								
SET OF PARTS REQUIRED TO PROVIDE JUNCTIONING OF THE 6 POST CABINETS (30" DEEP) AT THE CUSTOMER'S LOCATION.			43	1								

END OF TABLE-A

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BN99

EMC AND POWER TREATMENT
FOR
GLOBAL SWITCH CABINET
AND
CENTRAL OFFICE HARDWARE

DWG SIZE
C2

ISSUE
4

LUCENT TECHNOLOGIES INC ED5D832-70

SHEET A2
OF 4

PRINTED IN U.S.A.

STOCKLIST								
ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1000	I	4	406546861		FERRITE,SLEEVE/SNAP #SS28ZU35 FERRISHIELD INC.			
1010	IA	36	407579622	CD-1114-1	ASSEMBLY,FERRITE SLEEVE FAIR-RITE PRODUCTS			
1015	IB	40	406739151	443167251	CORE,SUPPRESSION FAIR-RITE PRODUCTS CORP.			
1016	IC	1	406739151	443167251	CORE,SUPPRESSION FAIR-RITE PRODUCTS CORP.			
1017	1D	2	407579622	CD-1114-1	ASSEMBLY,FERRITE SLEEVE FAIR-RITE PRODUCTS			
1018	1E	10	406739151	443167251	CORE,SUPPRESSION FAIR-RITE PRODUCTS CORP.			
1020	11	1	107188971	1187C	FILTER,POWER LINE EMI FILTER 48V, 20AMP, 20HZ 87.7MMLG, 30MMWD, 28.4MMHT (MESH GRD. SYSTEM)			
1030	12	1	107424897	1187E	FILTER,EMI POWER LINE (SINGLE POINT GRD. SYSTEM)			
1031	11,12	1	901322214		SCREW M4 X 8 MM LG, STEEL PAN HDPHILLIPS ACR2, ZINC OLIVE DRAB CHROMATE, MACHINE SCR			
1040	21	1	847352598		BOX,COAX CONNECTING			
1050	21	1	847351996		PLATE,COVER			
1055	21	14	901340059		SCREW M4-0.7 X 6MM STEEL PAN CROSS RECESS HEAD PHILLIPS ZINC CHROMATE 289A FINISH			
1060	22A, 23A, 31	2	847519287		PLATE,ADAPTER			
1070	22A	1	847391133		BOX,COAX CONNECTION			
1080	22A, 22B, 23A, 23B	2	847519295		PLATE,COVER			
1090	22A, 22B	1	847391125		PLATE,COVER			
1100	22A, 22B, 23A, 23B, 31	1	847523107		ASSEMBLY,CORD			
1110	22A, 22B	11	901344358	M4	WASHER,FLAT (PLAIN) M4 4.3X8.0X.05 STEEL, 289A ZINC CHROMATE			
1120	22A, 23A	18	901340059		SCREW M4-0.7 X 6MM STEEL PAN CROSS RECESS HEAD PHILLIPS ZINC CHROMATE 289A FINISH			
1130	22A, 22B, 23A, 23B	2	901340513		SCREW M4-0.7 X 8 STEEL PAN CROSS RECESS ZINC CHROMATE 289A FINISH			
1150	22A, 22B, 23A, 23B, 31	1	901343897		SCREW,M6-1.00X16MM HEX SCREW			
1160	22B, 23B	2	847861937		PLATE,ADAPTER			
1170	22B	1	847861952		BOX,CABLE			
1180	22B, 23B	16	901340059		SCREW M4-0.7 X 6MM STEEL PAN CROSS RECESS HEAD PHILLIPS ZINC CHROMATE 289A FINISH			
1190	23A, 23B	1	848074993		COVER,PROTECTIVE			
1192	23A	1	848075867		BOX,CABLE			
1194	23B	1	848075883		BOX,CABLE			
1196	23A, 23B	13	901344358	M4	WASHER,FLAT (PLAIN) M4 4.3X8.0X.05 STEEL, 289A ZINC CHROMATE			
1200	25A	1	847381274		PLATE,GROUNDING			
1210	25A	2	407246503		BRACKET,CLAMP #019,8-706R OETIKER			

STOCKLIST CONTINUED ON SHEET D2

S H O P I N S T	MANUFACTURING NOTES	
	2. A/R INDICATES "AS REQUIRED". 3. "S" PARTS NOT ASSEMBLED, SHIPPED SEPARATELY.	

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EMC AND POWER TREATMENT FOR GLOBAL SWITCH CABINET AND CENTRAL OFFICE HARDWARE		BN99	
		DWG SIZE C2	ISSUE 4
LUCENT TECHNOLOGIES INC		ED5D832-70	
		SHEET D1 OF 4	

STOCKLIST

ITEM NBR	LIST GROUP CODE	QTY PER CODE	PRODUCT IDENTIFIER	CODE	DESCRIPTION	REFERENCE POSITION	NOTE	
							SYM	NBR
1220	25A,25B	2	901340059		SCREW M4-0.7 X 6MM STEEL PAN CROSS RECESS HEAD PHILLIPS ZINC CHROMATE 289A FINISH			
1240	25B	1	847462306		PLATE,GROUNDING			
1250	25B	3	407246495		BRACKET,CLAMP #009,5-505R OETIKER			
1260	25C	1	847459112		PLATE,MOUNTING			
1270	25C	1	847459120		PLATE,MOUNTING			
1280	25C	6	901340059		SCREW M4-0.7 X 6MM STEEL PAN CROSS RECESS HEAD PHILLIPS ZINC CHROMATE 289A FINISH			
1282	25D	2	848513727		PLATE,GROUNDING			
1284	25D	4	901322214		SCREW M4 X 8 MM LG, STEEL PAN HDPHILLIPS ACR2, ZINC OLIVE DRAB CHROMATE, MACHINE SCR			
1290	31	9	901340059		SCREW M4-0.7 X 6MM STEEL PAN CROSS RECESS HEAD PHILLIPS ZINC CHROMATE 289A FINISH			
1300	31	2	847519295		PLATE,COVER			
1400	41	1	847337565		KIT,JUNCTION UNITIZED (EMC)			
1410	42	1	847337573		KIT,JUNCTION NON-UNITIZED (EMC)			
1420	43	2	848514691		ASSEMBLY,PLATE GASKET STEEL, ZINC PLATE 289A			
1430	43	2	847172178		TAPE,SHIELDING			
1440	43	4	901278671		SCREW,HEXAGONAL CAP W/FLANGE M12 X 150MM LG STEEL, GR. 8, 289A ZINC CH			
1450	43	4	901278689		NUT,CAP W/RIBBED FLANGE M12 X 10MM THK STEEL, GR. 8, 289A ZINC CH			
1500	5C	1	847874740		ASSEMBLY,SHIELD (EMC) SIDE (SEE GROUP DESCRIPTION)			
1510	5C	10	901278697		SCREW,FLAT HEAD PHILLIPS M5 X 1.5 STEEL 289A ZINC FINISH CHROMATE #QSN90991 QUALITY SCREW AND NUT (SEE GROUP DESCRIPTION)			

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

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BN99

EMC AND POWER TREATMENT
FOR
GLOBAL SWITCH CABINET
AND
CENTRAL OFFICE HARDWARE

DWG SIZE
C2

ISSUE
4

ED5D832-70

LUCENT TECHNOLOGIES INC ED5D832-70

SHEET D2
OF 4

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