4ESS™ Switch
Common Network Interface
Growth/Degrowth

1. General

1.001 This addendum supplements TOP 234-153-055AC, Issue 8.

1.002 This addendum is being issued to:

■ Add a procedure to Convert Direct Link Node (DLN) to DLN AP60

■ Add a procedure to Back Out of Direct Link Node (DLN) AP60 to DLN

■ Add External and Internal Link Check Information

■ Incorporate Field Comments.

2. Attachments

2.001 Place the pink sheet in front of the practice. Insert the attached pages in place of the corresponding numbered pages or file added pages as follows:

■ IXL-001, Pages 1 and 2 (Revised)

■ NTP-029, Page 3 (Reissued) and NTP-029, Page 4 (Revised)

■ NTP-031, Page 3 (Reissued) and NTP-031, Page 4 (Revised)

■ NTP-031, Page 5 (Revised) and Blank

■ NTP-033, Pages 1 through 15 (Added) and Blank

■ NTP-034, Pages 1 through 4 (Added)

■ DLP-562, Page 3 (Revised) and Blank.

- DLP-623, Page 1 (Added) and Blank

- DLP-624, Page 1 (Added) and Blank

- DLP-625, Page 1 (Added) and Blank

- DLP-626, Page 1 (Added) and Blank

- CKL-891, Page 1 (Revised) and Blank

3. Developed by:

The Lucent Technologies Network Systems Information Services *4ESS*™ Switch Organization.

FIND YOUR JOB IN THE LIST BELOW . . . . THEN GO TO

	Revised	Issue 8	OCT 2000
TASK INDEX LIST		**234-153-055AC**	**IXL**
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FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
Convert IUN Node(s) To CCITT7 — Support to Installer	NTP-014
Convert IUN Node(s) To CCS7 — Support to Installer	NTP-015
Convert IRN2 IUN Node(s) To DCHAN Node(s) — Support to Installer	NTP-016
Convert IUN Node(s) To SADC — Support to Installer	NTP-017
Convert IUN Node(s) With IRN to DCHAN With IRN2	NTP-018
Degrow of D-Channel Growth for Cabinets 12, 14, 44, and 46 — Support to Installer (INST)	NTP-032
Degrow EIN Shelf Unit — Support To Installer (INST)	NTP-021
Degrow Shelf Unit and/or Link Node(s) — Support to Installer	NTP-027
Determine Node Data for All Growth Nodes	DLP-561
Relocate Shelf Unit — Support to Installer	NTP-019

20	At New CNI Cabinet Being Added, Connect the A and B Bus Power Feeders to the CNI Cabinet Power Connectors	INST	—
	NOTE: The precharging probe is required to charge the 48V Power Feeder.		
21	At Power Distribution Frame (PDF), Precharge each 48V Power Feeder to the CNI Cabinet Being Added and Insert the Fuse	INST	—
22	Replace All Fuses at the Top of the Cabinet	INST	—
23	At 3B MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
24	At 3B21D APS MCRT, Depress **NORM/DISP (PF2)** Key and Enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
25	At 3B21D APS MCRT, Depress **ALM RLS** Key to Clear Any Alarms at the MCRT.	TELCO	—
26	At Fan Unit in CNI Ring Cabinet Being Grown, Depress **OFF** pushbutton.	TELCO	—
	Note: It will take a short time for **FAN A** and **FAN B** LEDs to light.		
27	Wait for **FAN A** and **FAN B** LEDs on Fan Unit to Light.	TELCO/INST	—

28	When **FAN A** and **FAN B** LEDs on the Fan Unit Light, Ensure the Following:
	• **FAN A** and **FAN B** LEDs go on
	• Audible Major and Minor Alarms are Received
	• At Top of Cabinet, **ALARM RESET** Lamp Goes On
	• Grid **MJ** and **MN** go on
	• End Guard Major and Minor Lamps Go On
	• At 3B21D APS MCRT, **MAJOR** and **MINOR** colored red
	• At 3B21D APS MCRT ROP:
	    REPT RING FRAME xx POWER ALARM
	    REPT RING FRAME xx FAN ALARM
		TELCO/INST	—

29	At Fan Unit, in CNI Cabinet Being Grown, Depress **ON/RESET** Pushbutton.	TELCO	—
30	At Top of CNI Cabinet Being Grown, Depress **ALARM/RESET** pushbutton.	TELCO	—
	(Continued on Page 4)		

ADD D-CHANNEL CABINETS 12, 14, 44 AND 46 — SUPPORT TO INSTALLER (INST)

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	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	

31	Ensure the Following:
	• **FAN A** and **FAN B** LEDs go off
	• Audible Minor Alarm Retires
	• At Top of Cabinet, **ALARM RESET** Lamp Goes Off
	• Grid **MN** Goes Off
	• End Guard Major and Minor Lamps Go Off
	• At 3B21D APS MCRT, **MAJOR** and **MINOR** remain red
	• At 3B21D APS MCRT ROP:
	    REPT RING FRAME xx POWER ALARM CLEARED
	    CLEARED
	    REPT RING FRAME xx FAN ALARM CLEARED
		TELCO/INST	—

32	At Top of CNI Cabinet Being Grown, Depress **ALARM CUT OFF** Pushbutton.	TELCO	—
33	Ensure the Following: • Audible Major Alarm Retires • Grid **MJ** goes off • At 3B21D APS MCRT, **MAJOR** and **MINOR** clears		
34	If Three Hours Remain in Maintenance Window, Continue with Item 36. If Three Hours Does NOT Remain in Maintenance Window, Stop This Procedure and Resume This procedure with the Next Item.	TELCO/INST	—
35	If Procedure was Stopped in Previous Item, Verify System Status. Continue with Next Item	TELCO/INST	—
36	Enter Message **OP:RING;DETD** and Ensure No "i" Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	—
37	If Any Link Node Is Isolated, Enter Message CFR:RING! To Clear CNI Ring of Isolation	TELCO	—
38	Enter Message **CFR:RING,LNaa 01;EXCLUDE!** for Cabinet Being Grown. Ensure **RING CFR RING LNaa 01 COMPL** Message Is Received [Where aa = Cabinet Being Grown (12, 14, 44 or 46)]	TELCO	—
39	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	—
40	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	—
	NOTE 1: The display should show two nodes: One define the beginning of isolation (BISO), and the other define the end of isolation (EISO). These nodes will also be the IFB control nodes for the balanced cable connections (actual IFB circuit packs are installed adjacent to these nodes).		

ADD D-CHANNEL CABINETS 12, 14, 44 AND 46 — SUPPORT TO
INSTALLER (INST)

Revised

	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS,	GO TO
14	At 3B MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: · INH:DMQ;SRC REX! · INH:DMQ;SRC ADP!	TELCO	—
15	Enter Message **OP:RING;DETD** and Ensure No "i" Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	—
16	If Any Link Node Is Isolated, Enter Message **CFR:RING!** To Clear CNI Ring Of Isolation	TELCO	—
17	Enter Message **CFR:RING,LNxx yy;EXCLUDE!** To Isolate the Growth Link Node(s)	TELCO	DLP-538
18	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	—
19	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	—
	NOTES: 1. The display should show two nodes: one defines the beginning of isolation (BISO), the other defines the end of isolation (EISO). These nodes will also be the IFB control nodes for the balanced cable connections (actual IFB circuit packs are installed adjacent to these nodes). 2. The highest node number in the isolation, the EISO node is the IFB control node for the D-channel shelf being grown. This IFB is moved down to the lowest shelf being grown. Record the LN number of the EISO node and mark it "Old IFB Control Node". 3. If more than two nodes are shown, it probably indicates that an OOS node has been included in the isolation. Determine cause and restore any OOS node before continuing.		
20	On the 1106 Page, Ensure That the Display Should Show Two Nodes	TELCO	—
21	Verify That the Node Position Removed In Item 17 Is the Place Where the New Node Will Be Grown (LNaa bb) and Is Now Included in the Ring Isolation	TELCO	—
	NOTE: If more than one node is being grown in this growth session, remove only the unbalanced cables for the node currently being grown		
22	At the D-Channel Cabinet Node Being Added, Remove the Unbalanced Node Jumpers from the Backplane	INST	—
23	Insert and Seat All Circuit Packs on the Node Being Installed,	TELCO	—

ADD OPTIONAL D-CHANNEL NODES 3, 8, or 13 TO CABINETS 12, 14, 44 AND 46 — SUPPORT TO INSTALLER (INST)

Reissued

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	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS,	GO TO
24	At the CNI D-Channel Cabinet, Identify the Shelf Where the D-Channel Node Is Being Installed and Ensure That the Nodes Being Grown Has RQ and NT LEDs illuminated; This Indicates the Growth Node Is In Isolation	TELCO/INST	—
25	Recent Change the New D-Channel Node To GROW (Using the *dchgro.sh* Script)		DLP-600
26	At 3B MCRT, Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	—
27	If the Links Associated With the Node Determined in Item 25 Are Not Displayed, Enter **400** in command Mode. Ensure That the New D-Channel Node Grown Is Now In the **GROW** State	TELCO	—
28	Enter Message DGN:LNaa bb;RAW To Diagnose the New D-Channel Node	TELCO	—
29	Ensure the DGN LNaa bb ATP Message Is Received For Unit Being Diagnosed	TELCO	—
30	Recent Change D-Channel Cabinet Node Unit Being Added to OOS	TELCO	DLP-601
31	Enter Message RST:LNaa bb;UCL! To Restore Cabinet Being Grown	TELCO	—
32	Ensure RING RST LNaa bb COMPLETED! Message Is Received	TELCO	—
33	Enter Message OP:RING;DETD and Ensure No "i" Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time	TELCO	—
34	If Any Link Node Is Isolated, Enter Message CFR:RING! To Restore Link Node	TELCO	—
35	Soak New D-Channel Cabinet and Nodes for 1/2 Hour To Ensure No Problems Exist With System Operation After Upgrading. If for Any Reason Backout Is Necessary, the Backout Procedure Should Be Used to Unequip the Cabinet and Return IFB Configuration Between the Existing CNI Cabinets. Contact the Appropriate Support Organization for Technical Assistance.	TELCO/INST	—
36	Repeat From Item 15 for the Next Optional Centered Node In Cabinet Being Grown	TELCO/INST	—
37	Enter Message EXC:ENVIR:UPROC,FN"/tools/bootaud"! To Verify Boot Audit Status and Ensure REPT BOOTAUD COMPLETE - TOTAL OF 0 ERRORS DETECTED Message Is Received	TELCO	—
38	Test (Prove-in) Growth Associated Signaling Links — Internal Link Check	TELCO	DLP-515
39	Test (Prove-in) Growth Associated Signaling Links — External Link Check	TELCO	DLP-562
40	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	TELCO	—

ADD OPTIONAL D-CHANNEL NODES 3, 8, or 13 TO CABINETS 12, 14, 44 AND 46 — SUPPORT TO INSTALLER (INST)

Revised

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DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
41	Copy Incore ECD to Disk	TELCO	DLP-519
42	Verify System Status	TELCO/INST	DLP-544
43	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
44	Update Backup Data Base	TELCO	DLP-521
45	Write 3B Computer Backup Tapes	TELCO	DLP-522
46	Verify Backup Tapes	TELCO	DLP-525
47	Soak New D-Channel Cabinet and Nodes for 12 Hours To Ensure No Problems Exist With System Operation After Upgrading. If for Any Reason Backout Is Necessary, the Backout Procedure Should Be Used to Unequip the Cabinet and Return IFB Configuration Between the Existing CNI Cabinets. Contact the Appropriate Support Organization for Technical Assistance.	TELCO/INST	—
48	Safe Point To Temporarily Stop This Procedure	TELCO	—

ADD OPTIONAL D-CHANNEL NODES 3, 8, or 13 TO CABINETS 12, 14, 44 AND 46 — SUPPORT TO INSTALLER (INST)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO			
		RESPONSIBILITY	
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling		

	NOTES: 1. This procedure must be performed during light traffic periods
	2. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified
	3. Attached processor circuit pack (position 37-42 and 53-42) will be replaced by AP60 circuit pack (TN2522)
	4. There are two DLNs to be converted to DLN AP60 per RNC 00 and 32; however, there is only one DLN to convert per nightly growth activity. They will be converted in the following order:
	    • LN00 - 5
	    • LN00 - 10
	    • LN32 - 5
	    • LN32 - 10
	5. If degrowth is required, refer to NTP-034 "Back Out of Direct Link Node (DLN) AP60 to DLN" procedure
	6. All input commands are entered on the 3B MCRT unless otherwise stated		

1	Verify System Status	TELCO	DLP-544

2	Enter Following Messages To Inhibit Automatic Diagnostics:
	    • **INH:DMQ;SRC REX**!
	    • **INH:DMQ;SRC ADP**!
		TELCO	—

	NOTE: Items 3 through 5 are being performed to ensure clean file system before starting growth		
3	Copy Incore Equipment Configuration Data Base (ECD) To Disk	TELCO	DLP-519
4	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
5	Update Backup Data Base	TELCO	DLP-521
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	NOTE: DLN will be converted in LN00-5 first		
6	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	−
7	At 1B Processor MCC Terminal, If **801 − RESTRICT RC** Is Not Highlighted (Colored White on Black); Enter **801** To Restrict Recent Change	TELCO	−
8	Depress **NORM/DISP** Key and Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	−
9	If APPL STATE for DLN Being Converted Is ACT on 1107 Page, Enter Message **SW:DLN,LN00 5,LNaa b!** aa = Group Number of DLN in STBY State b = Member Number of DLN in STBY State	TELCO	−
10	Enter Message **OP:RING;DETD!** and Ensure No **"i"** Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	−
11	Enter Message **RMV:LN00 5!** To Remove DLN. Ensure **RING RMV LN00 5 COMPLETED** Message Is Received	TELCO	−
12	Enter Message **DGN:LN00 5;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN00 5 ATP MSG COMPLETE** Message	TELCO	−
13	Enter Message **SW:CU!** To Switch CUs	TELCO	−
14	Enter Message **DGN:LN00 5;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN00 5 ATP MSG COMPLETE** Message	TELCO	−
15	Ensure 1107 Page Displays HDWR STATE As OOS for Removed DLN	TELCO	−
16	Enter Message **CFR:RING,LN00 5;EXCLUDE!** To Isolate DLN. Ensure **RING CFR RING LN00 5 COMPL** Message Is Received	TELCO	DLP-538
17	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	−
18	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	−
19	Ensure DLN Being Converted Is Isolated	TELCO	−
20	Recent Change DLN Being Converted to UNEQIP (Using dln.UNEQIP Script)	TELCO	DLP-623
21	Enter **1107** in Command Mode To Obtain Display Page 1107	TELCO	−

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	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS,	GO TO
22	Ensure HWDR STATE for DLN Being Converted Is UNEQIP	TELCO	—
	NOTE: Attached Processor circuit pack (position 37-42) will be replaced by the new AP60 circuit pack (TN2522)	—	—
23	At DLN Being Converted, Remove and Replace Circuit Packs and Label, As Required, To Convert DLN to DLN AP60 (Place Removed Circuit Pack Into Proper Anit-Static Packaging)	INST	—
24	Recent Change DLN Being Converted to GROW (Using dln60.grow Script)	TELCO	DLP-624
25	On 1107 Page, Ensure HDWR STATE for DLN Being Converted Is GROW	TELCO	—
26	Enter Message DGN:LN00 5;RAW! No Diagnostic Failures Allowed on Phases Run. Wait for DGN LN00 5 ATP MSG COMPLETE Message	TELCO	—
27	Enter Message SW:CU! To Switch CUs	TELCO	—
28	Enter Message DGN:LN00 5;RAW! No Diagnostic Failures Allowed on Phases Run. Wait for DGN LN00 5 ATP MSG COMPLETE Message	TELCO	—
29	Recent Change DLN Being Converted to OOS (Using dln.OOS Script)	TELCO	DLP-625
30	Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
31	Ensure HWDR STATE for DLN Being Converted Is OOS	TELCO	—
32	Enter Message RST:LN00 5;UCL! To Restore DLN. Ensure RING RST LN00 5 COMPLETED Message Is Received	TELCO	DLP-583
33	Enter Message OP:RING;DETD!. Ensure No **"i"** is Listed for Any Link Node (i = Isolated). If Segment Is Isolated, Enter Message CFR:RING!. Ensure **NORMAL CONFIGURATION, NO NODES ISOLATED** Message Is Received	TELCO	—
34	Enter Message AUD:DLN 1,INS "LN00-5"! To Run DLN 1 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
35	Enter Message AUD:DLN 2,INS "LN00-5"! To Run DLN 2 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
36	Enter Message AUD:DLN 3,INS "LN00-5"! To Run DLN 3 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
37	Soak DLN Being Converted As Standby DLN for 15 Minutes	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO		

38	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY IN
	   STREAM = SCANIN
		TELCO	—

39	Enter Message SW:DLN,LNaa b,LN00 5! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 38 b = Member Number of DLN Determined in Item 38	TELCO	—
40	Soak DLN Being Converted in **ACT 1WAY IN** State for 15 Minutes	TELCO	—
41	Enter Message SW:DLN,LNaa b,LN00 5! To Make DLN Being Converted Standby aa = Group Number of DLN Determined in Item 38 b = Member Number of DLN Determined in Item 38	TELCO	—

42	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY OUT
	   STREAM = SCANOUT
		TELCO	—

43	Enter Message SW:DLN,LNaa b,LN00 5! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 42 b = Member Number of DLN Determined in Item 42	TELCO	—
44	Soak DLN Being Converted in **ACT 1WAY OUT** State for 15 Minutes	TELCO	—
45	If Time Permits to Convert the Next DLN (Approximately 3 Hours Needed), Go to Step 56. Otherwise, Go to Step 46	TELCO	—
46	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
47	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Highlighted (Colored Black on White); Enter **801** To Allow Recent Change	TELCO	—
48	Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	TELCO	—
49	Copy Incore ECD to Disk	TELCO	DLP-519

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DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
50	Safe Point To Temporarily Stop This Procedure. Soak New DLN AP60 for 12 Hours To Ensure No Problems Exist With System Operation After Growing. If for Any Reason Backout Is Necessary, hv, mv and Packcode Values Must Be Changed To Their Old Values. Refer to Back Out Procedure. Old Circuit Pack Must Replace AP60 Circuit Pack. Contact Appropriate Support	TELCO	—
51	Verify System Status	TELCO	DLP-544
52	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
53	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
	NOTE: DLN will be converted in LN00-10 next		
54	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
55	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Not Highlighted (Colored White on Black); Enter **801** To Restrict Recent Change	TELCO	—
56	Depress **NORM/DISP** Key and Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
57	If APPL STATE for DLN Being Converted Is ACT on 1107 Page, Enter Message **SW:DLN,LN00 10,LNaa b!** aa = Group Number of DLN in STBY State b = Member Number of DLN in STBY State	TELCO	—
58	Enter Message **OP:RING;DETD!** and Ensure No **"i"** Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	—
59	Enter Message **RMV:LN00 10!** To Remove DLN. Ensure **RING RMV LN00 10 COMPLETED** Message Is Received	TELCO	—
60	Enter Message **DGN:LN00 10;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN00 10 ATP MSG COMPLETE** Message	TELCO	—
61	Enter Message **SW:CU!** To Switch CUs	TELCO	—
62	Enter Message **DGN:LN00 10;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN00 10 ATP MSG COMPLETE** Message	TELCO	—

	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS,	GO TO
63	Ensure **1107** Page Displays HDWR STATE As OOS for Removed DLN	TELCO	—
64	Enter Message **CFR:RING,LN00 10;EXCLUDE!** To Isolate DLN. Ensure **RING CFR RING LN00 10 COMPL** Message Is Received	TELCO	DLP-538
65	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	—
66	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	—
67	Ensure DLN Being Converted Is Isolated	TELCO	—
68	Recent Change DLN Being Converted to UNEQIP (Using dln.UNEQIP Script)	TELCO	DLP-623
69	Enter **1107** in Command Mode To Obtain Display Page 1107	TELCO	—
70	Ensure HWDR STATE for DLN Being Converted Is UNEQIP	TELCO	—
	NOTE: Attached Processor circuit pack (position 53-42) will be replaced by the new AP60 circuit pack (TN2522)	—	—
71	At DLN Being Converted, Remove and Replace Circuit Packs and Label, As Required, To Convert DLN to DLN AP60 (Place Removed Circuit Pack Into Proper Anti-Static Packaging)	INST	—
72	Recent Change DLN Being Converted to GROW (Using dln60.grow Script)	TELCO	DLP-624
73	On 1107 Page, Ensure HDWR STATE for DLN Being Converted Is GROW	TELCO	—
74	Enter Message **DGN:LN00 10;RAW!** No Diagnostic Failures Allowed on Phases Run. Wait for **DGN LN00 10 ATP MSG COMPLETE** Message	TELCO	—
75	Enter Message **SW:CU!** To Switch CUs	TELCO	—
76	Enter Message **DGN:LN00 10;RAW!** No Diagnostic Failures Allowed on Phases Run. Wait for **DGN LN00 10 ATP MSG COMPLETE** Message	TELCO	—
77	Recent Change DLN Being Converted to OOS (Using dln.OOS Script)	TELCO	DLP-625
78	Enter **1107** in Command Mode To Obtain Display Page 1107	TELCO	—
79	Ensure HWDR STATE for DLN Being Converted Is OOS	TELCO	—
80	Enter Message **RST:LN00 10;UCL!** To Restore DLN. Ensure **RING RST LN00 10 COMPLETED** Message Is Received	TELCO	DLP-583
81	Enter Message **OP:RING;DETD!**. Ensure No "**i**" is Listed for Any Link Node (i = Isolated). If Segment Is Isolated, Enter Message **CFR:RING!**. Ensure **NORMAL CONFIGURATION, NO NODES ISOLATED** Message Is Received	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO			
82	Enter Message AUD:DLN 1,INS "LN00-10"! To Run DLN 1 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	–
83	Enter Message AUD:DLN 2,INS "LN00-10"! To Run DLN 2 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	–
84	Enter Message AUD:DLN 3,INS "LN00-10"! To Run DLN 3 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	–
85	Soak DLN Being Converted As Standby DLN for 15 Minutes	TELCO	–

86	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY IN
	   STREAM = SCANIN
		TELCO	–

87	Enter Message SW:DLN,LNaa b,LN00 10! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 86 b = Member Number of DLN Determined in Item 86	TELCO	–
88	Soak DLN Being Converted in **ACT 1WAY IN** State for 15 Minutes	TELCO	–
89	Enter Message SW:DLN,LNaa b,LN00 10! To Make DLN Being Converted Standby aa = Group Number of DLN Determined in Item 86 b = Member Number of DLN Determined in Item 86	TELCO	–

90	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY OUT
	   STREAM = SCANOUT
		TELCO	–

91	Enter Message SW:DLN,LNaa b,LN00 10! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 90 b = Member Number of DLN Determined in Item 90	TELCO	–
	NOTE: Items 92 and 93 are intended to put LN00-5 in "SCANIN" to Soak with LN00-10 as "SCANOUT." Ensure LN00-5 is STBY Before Proceeding		

	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS,	GO TO

92	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY OUT
	   STREAM = SCANOUT
		TELCO	—

93	Enter Message **SW:DLN,LN**aa b,**LN00 5!** To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 92 b = Member Number of DLN Determined in Item 92	TELCO	—
94	Soak DLN Being Converted in **ACT 1WAY OUT** State for 15 Minutes	TELCO	—
95	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
96	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Highlighted (Colored Black on White); Enter **801** To Allow Recent Change	TELCO	—

97	Enter Following Messages To Allow Automatic Diagnostics:
	  • **ALW:DMQ;SRC REX!**
	  • **ALW:DMQ;SRC ADP!**
		TELCO	—

98	Copy Incore ECD to Disk	TELCO	DLP-519
99	Safe Point To Temporarily Stop This Procedure. Soak New DLN AP60 for 12 Hours To Ensure No Problems Exist With System Operation After Growing. If for Any Reason Backout Is Necessary, hv, mv and Packcode Values Must Be Changed To Their Old Values. Refer to Back Out Procedure. Old Circuit Pack Must Replace AP60 Circuit Pack. Contact Appropriate Support	TELCO	—
100	Verify System Status	TELCO	DLP-544
101	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
102	Update Backup Data Base	TELCO	DLP-521

103	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics:
	  • **INH:DMQ;SRC REX!**
	  • **INH:DMQ;SRC ADP!**
		TELCO	—

	NOTE: DLN will be converted in LN32-5 next		
104	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—

105	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Not Highlighted (Colored White on Black); Enter **801** To Restrict Recent Change	TELCO	—
106	Depress **NORM/DISP** Key and Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
107	If APPL STATE for DLN Being Converted Is ACT on 1107 Page, Enter Message **SW:DLN,LN32 5,LN aa b!** aa = Group Number of DLN in STBY State b = Member Number of DLN in STBY State	TELCO	—
108	Enter Message **OP:RING;DETD!** and Ensure No "**i**" Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	—
109	Enter Message **RMV:LN32 5!** To Remove DLN. Ensure **RING RMV LN32 5 COMPLETED** Message Is Received	TELCO	—
110	Enter Message **DGN:LN32 5;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN32 5 ATP MSG COMPLETE** Message	TELCO	—
111	Enter Message **SW:CU!** To Switch CUs	TELCO	—
112	Enter Message **DGN:LN32 5;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN32 5 ATP MSG COMPLETE** Message	TELCO	—
113	Ensure **1107** Page Displays HDWR STATE As OOS for Removed DLN	TELCO	—
114	Enter Message **CFR:RING,LN32 5;EXCLUDE!** To Isolate DLN. Ensure **RING CFR RING LN32 5 COMPL** Message Is Received	TELCO	DLP-538
115	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	—
116	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	—
117	Ensure DLN Being Converted Is Isolated	TELCO	—
118	Recent Change DLN Being Converted to UNEQIP (Using dln.UNEQIP Script)	TELCO	DLP-623
119	Enter **1107** in Command Mode To Obtain Display Page 1107	TELCO	—
120	Ensure HWDR STATE for DLN Being Converted Is UNEQIP	TELCO	—
	NOTE: Attached Processor circuit pack (position 37-42) will be replaced by the new AP60 circuit pack (TN2522)	—	—

	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
121	At DLN Being Converted, Remove and Replace Circuit Packs and Label, As Required, To Convert DLN to DLN AP60 (Place Removed Circuit Pack Into Proper Anti-Static Packaging)	INST	—
122	Recent Change DLN Being Converted to GROW (Using dln60.grow Script)	TELCO	DLP-624
123	On 1107 Page, Ensure HDWR STATE for DLN Being Converted Is GROW	TELCO	—
124	Enter Message DGN:LN32 5;RAW! No Diagnostic Failures Allowed on Phases Run. Wait for DGN LN32 5 ATP MSG COMPLETE Message	TELCO	—
125	Enter Message SW:CU! To Switch CUs	TELCO	—
126	Enter Message DGN:LN32 5;RAW! No Diagnostic Failures Allowed on Phases Run. Wait for DGN LN32 5 ATP MSG COMPLETE Message	TELCO	—
127	Recent Change DLN Being Converted to OOS (Using dln.OOS Script)	TELCO	DLP-625
128	Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
129	Ensure HWDR STATE for DLN Being Converted Is OOS	TELCO	—
130	Enter Message RST:LN32 5;UCL! To Restore DLN. Ensure RING RST LN32 5 COMPLETED Message Is Received	TELCO	DLP-583
131	Enter Message OP:RING;DETD!. Ensure No "i" is Listed for Any Link Node (i = Isolated). If Segment Is Isolated, Enter Message CFR:RING!. Ensure NORMAL CONFIGURATION, NO NODES ISOLATED Message Is Received	TELCO	—
132	Enter Message AUD:DLN 1,INS "LN32-5"! To Run DLN 1 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
133	Enter Message AUD:DLN 2,INS "LN32-5"! To Run DLN 2 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
134	Enter Message AUD:DLN 3,INS "LN32-5"! To Run DLN 3 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
135	Soak DLN Being Converted As Standby DLN for 15 Minutes	TELCO	—

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136	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY IN
	   STREAM = SCANIN
		TELCO	—

137	Enter Message **SW:DLN,LN**aa b**,LN32 5!** To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 136 b = Member Number of DLN Determined in Item 136	TELCO	—
138	Soak DLN Being Converted in **ACT 1WAY IN** State for 15 Minutes	TELCO	—
139	Enter Message **SW:DLN,LN**aa b**,LN32 5!** To Make DLN Being Converted Standby aa = Group Number of DLN Determined in Item 136 b = Member Number of DLN Determined in Item 136	TELCO	—

140	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY OUT
	   STREAM = SCANOUT
		TELCO	—

141	Enter Message **SW:DLN,LN**aa b**,LN32 5!** To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 140 b = Member Number of DLN Determined in Item 140	TELCO	—
142	Soak DLN Being Converted in **ACT 1WAY OUT** State for 15 Minutes	TELCO	—
143	If Time Permits to Convert the Next DLN (Approximately 3 Hours Needed), Go to Step 154. Otherwise, Go to Step 144	TELCO	—
144	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
145	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Highlighted (Colored Black on White); Enter **801** To Allow Recent Change	TELCO	—
146	Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	TELCO	—
147	Copy Incore ECD to Disk	TELCO	DLP-519

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148	Safe Point To Temporarily Stop This Procedure. Soak New DLN AP60 for 12 Hours To Ensure No Problems Exist With System Operation After Growing. If for Any Reason Backout Is Necessary, hv, mv and Packcode Values Must Be Changed To Their Old Values. Refer to Back Out Procedure. Old Circuit Pack Must Replace AP60 Circuit Pack. Contact Appropriate Support	TELCO	—
149	Verify System Status	TELCO	DLP-544
150	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
151	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
	NOTE: DLN will be converted in LN32-10 next		
152	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
153	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Not Highlighted (Colored White on Black); Enter **801** To Restrict Recent Change	TELCO	—
154	Depress **NORM/DISP** Key and Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
155	If APPL STATE for DLN Being Converted Is ACT on 1107 Page, Enter Message **SW:DLN,LN32 10,LNaa b!** aa = Group Number of DLN in STBY State b = Member Number of DLN in STBY State	TELCO	—
156	Enter Message **OP:RING;DETD!** and Ensure No "**i**" Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	—
157	Enter Message **RMV:LN32 10!** To Remove DLN. Ensure **RING RMV LN32 10 COMPLETED** Message Is Received	TELCO	—
158	Enter Message **DGN:LN32 10;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN32 10 ATP MSG COMPLETE** Message	TELCO	—
159	Enter Message **SW:CU!** To Switch CUs	TELCO	—
160	Enter Message **DGN:LN32 10;RAW!** No Diagnostic Failure Allowed on Phases Run. Wait for **DGN LN32 10 ATP MSG COMPLETE** Message	TELCO	—
161	Ensure **1107** Page Displays HDWR STATE As OOS for Removed DLN	TELCO	—

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162	Enter Message **CFR:RING,LN32 10;EXCLUDE!** To Isolate DLN. Ensure **RING CFR RING LN00 10 COMPL** Message Is Received	TELCO	DLP-538
163	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	—
164	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	—
165	Ensure DLN Being Converted Is Isolated	TELCO	—
166	Recent Change DLN Being Converted to UNEQIP (Using dln.UNEQIP Script)	TELCO	DLP-623
167	Enter **1107** in Command Mode To Obtain Display Page 1107	TELCO	—
168	Ensure HWDR STATE for DLN Being Converted Is UNEQIP	TELCO	—
	NOTE: Attachment Processor circuit pack (position 53-42) will be replaced by the new AP60 circuit pack (TN2522)	—	—
169	At DLN Being Converted, Remove and Replace Circuit Packs and Label, As Required, To Convert DLN to DLN AP60 (Place Removed Circuit Pack Into Proper Anti-Static Packaging)	INST	—
170	Recent Change DLN Being Converted to GROW (Using dln60.grow Script)	TELCO	DLP-624
171	On 1107 Page, Ensure HDWR STATE for DLN Being Converted Is GROW	TELCO	—
172	Enter Message **DGN:LN32 10;RAW!** No Diagnostic Failures Allowed on Phases Run. Wait for **DGN LN00 10 ATP MSG COMPLETE** Message	TELCO	—
173	Enter Message **SW:CU!** To Switch CUs	TELCO	—
174	Enter Message **DGN:LN32 10;RAW!** No Diagnostic Failures Allowed on Phases Run. Wait for **DGN LN32 10 ATP MSG COMPLETE** Message	TELCO	—
175	Recent Change DLN Being Converted to OOS (Using dln.OOS Script)	TELCO	DLP-625
176	Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
177	Ensure HWDR STATE for DLN Being Converted Is OOS	TELCO	—
178	Enter Message **RST:LN32 10;UCL!** To Restore DLN. Ensure **RING RST LN32 10 COMPLETED** Message Is Received	TELCO	DLP-583
179	Enter Message **OP:RING;DETD!**. Ensure No **"i"** is Listed for Any Link Node (i = Isolated). If Segment Is Isolated, Enter Message **CFR:RING!**. Ensure **NORMAL CONFIGURATION, NO NODES ISOLATED** Message Is Received	TELCO	—

180	Enter Message AUD:DLN 1,INS "LN32-10"! To Run DLN 1 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
181	Enter Message AUD:DLN 2,INS "LN32-10"! To Run DLN 2 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
182	Enter Message AUD:DLN 3,INS "LN32-10"! To Run DLN 3 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	—
183	Soak DLN Being Converted As Standby DLN for 15 Minutes	TELCO	—

184	Using 1107 Page, Determine DLN That Has Following Configuration:
	  HDWR STATE = ACT
	  APPL STATE = ACT
	  MODE = 1WAY IN
	  STREAM = SCANIN
		TELCO	—

185	Enter Message SW:DLN,LNaa b,LN32 10! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 184 b = Member Number of DLN Determined in Item 184	TELCO	—
186	Soak DLN Being Converted in **ACT 1WAY IN** State for 15 Minutes	TELCO	—
187	Enter Message SW:DLN,LNaa b,LN32 10! To Make DLN Being Converted Standby aa = Group Number of DLN Determined in Item 184 b = Member Number of DLN Determined in Item 184	TELCO	—

188	Using 1107 Page, Determine DLN That Has Following Configuration:
	  HDWR STATE = ACT
	  APPL STATE = ACT
	  MODE = 1WAY OUT
	  STREAM = SCANOUT
		TELCO	—

189	Enter Message SW:DLN,LNaa b,LN32 10! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 188 b = Member Number of DLN Determined in Item 188	TELCO	—
	NOTE: Items 190 and 191 are intended to put LN32-5 in "SCANIN" to Soak with LN32-10 as "SCANOUT." Ensure LN32-5 is STBY Before Proceeding		

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190	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY OUT
	   STREAM = SCANOUT
		TELCO	–

191	Enter Message SW:DLN,LNaa b,LN32 5! To Make DLN Being Converted Active aa = Group Number of DLN Determined in Item 190 b = Member Number of DLN Determined in Item 190	TELCO	–
192	Soak DLN Being Converted in **ACT 1WAY OUT** State for 15 Minutes	TELCO	–
193	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	–
194	At 1B Processor MCC Terminal, If **801 – RESTRICT RC** Is Highlighted (Colored Black on White); Enter **801** To Allow Recent Change	TELCO	–

195	Enter Following Messages To Allow Automatic Diagnostics:
	  • ALW:DMQ;SRC REX!
	  • ALW:DMQ;SRC ADP!
		TELCO	–

196	Copy Incore ECD to Disk	TELCO	DLP-519
197	Safe Point To Temporarily Stop This Procedure. Soak New DLN AP60 for 12 Hours To Ensure No Problems Exist With System Operation After Growing. If for Any Reason Backout Is Necessary, hv, mv and Packcode Values Must Be Changed To Their Old Values. Refer to Degrowth Procedure. Old Circuit Pack Must Replace AP60 Circuit Pack. Contact Appropriate Support	TELCO	–
198	Verify System Status	TELCO	DLP-544
199	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
200	Update Backup Data Base	TELCO	DLP-521
201	Write 3B Computer Backup Tapes	TELCO	DLP-522
202	Verify Backup Tapes	TELCO	DLP-525
	NOTE: Soak new DLN AP60 until next night's shift to ensure no problems exist with system operation after growing		

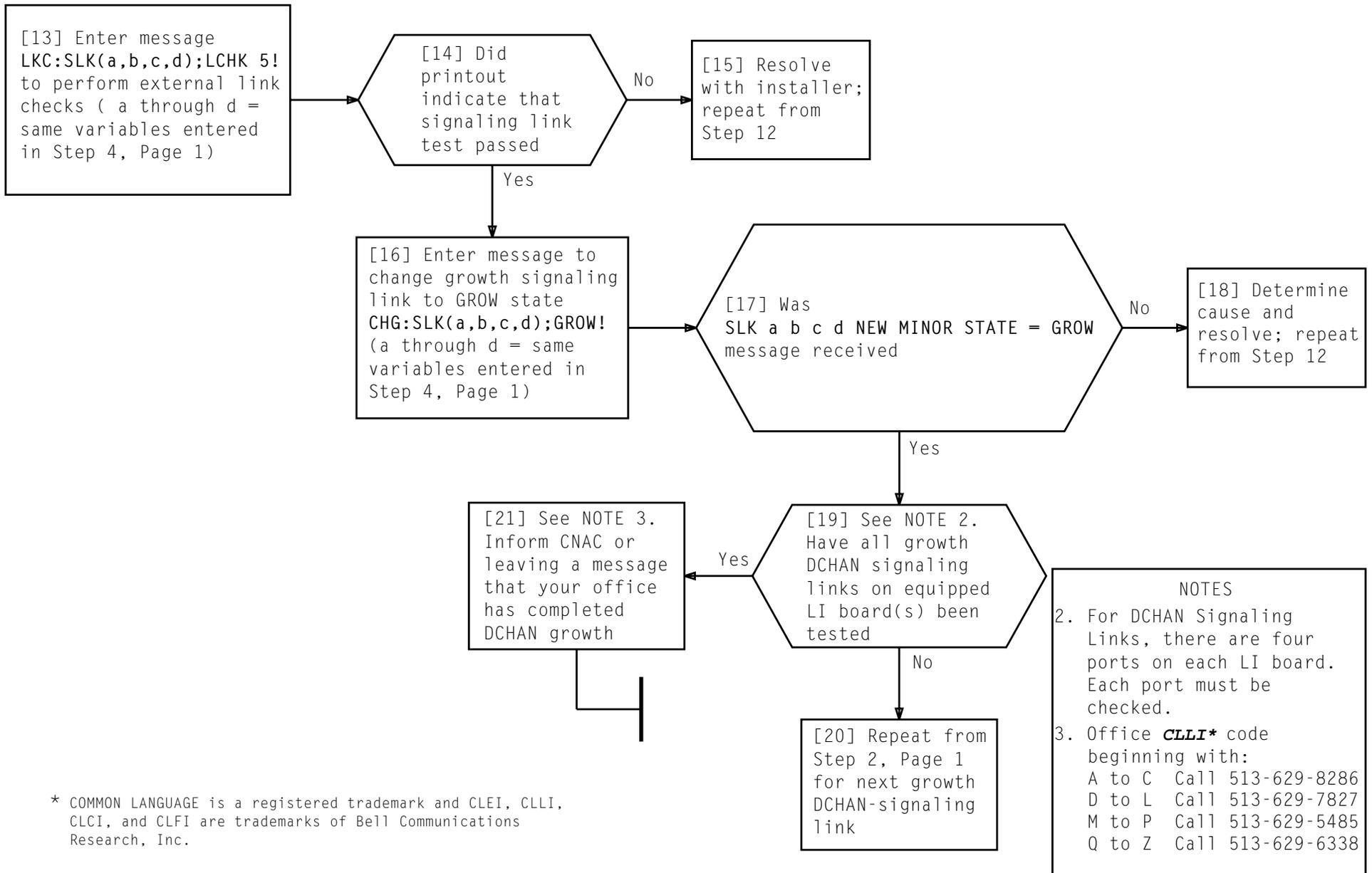| DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO			
		RESPONSIBILITY	
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling		
	NOTES: 1. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified 2. The Old Attached processor circuit pack (TN1622) (position 28-42 and 53-42) will be replacing the AP60 circuit pack (TN2522) 3. Throughout this procedure the following term xx and y are used where xx is group number of DLN being backed out y is member number of DLN being backed out 4. All input commands are entered on the 3B MCRT unless otherwise stated		
1	Enter Following Messages To Inhibit Automatic Diagnostics: • **INH:DMQ;SRC REX**! • **INH:DMQ;SRC ADP**!	TELCO	—
2	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
3	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Not Highlighted (Colored White on Black); Enter **801** To Restrict Recent Change	TELCO	—
4	Depress **NORM/DISP** Key and Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	—
5	If APPL STATE for DLN Being Backed Out Is ACT on 1107 Page, Enter Message SW:DLN,LNxx y,LNaa b! aa = Group Number of DLN in STBY State b = Member Number of DLN in STBY State	TELCO	—
6	Enter Message OP:RING;DETD! and Ensure No **"i"** Is Listed for Any Link Node (i = Isolated). Only One Area on CNI Ring Can Be Isolated at a Time. If Any Link Node Is Isolated, That Link Node Will Have To Be Restored Before Continuing	TELCO	—
7	Enter Message RMV:LNxx y! To Remove DLN. Ensure RING RMV LNxx y COMPLETED Message Is Received	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
8	Ensure 1107 Page Displays HDWR STATE As OOS for Removed DLN	TELCO	–
9	Enter Message **CFR:RING,LNxx y;EXCLUDE!** To Isolate DLN. Ensure **RING CFR RING LNxx y COMPL** Message Is Received	TELCO	DLP-538
10	Enter **1106** in Command Mode To Obtain Display Page 1106	TELCO	–
11	Enter **400** in Command Mode To Obtain BISO-EISO Screen	TELCO	–
12	Ensure DLN Being Backed Out Is Isolated	TELCO	–
13	Recent Change DLN Being Backed Out to UNEQIP (Using dln.UNEQIP Script)	TELCO	DLP-623
14	Enter **1107** in Command Mode To Obtain Display Page 1107	TELCO	–
15	Ensure HWDR STATE for DLN Being Backed Out Is UNEQIP	TELCO	–
16	At DLN Being Backed Out, Remove and Replace Circuit Packs, As Required, To Back Out DLN AP60 to DLN (Place Removed Circuit Pack Into Proper Anit-Static Packaging)	TELCO	–
17	Recent Change DLN Being Backed Out to GROW (Using dln.grow Script)	TELCO	DLP-626
18	On 1107 Page, Ensure HDWR STATE for DLN Being Backed Out Is GROW	TELCO	–
19	Enter Message **DGN:LNxx y;RAW!** No Diagnostic Failures Allowed on Phases Run. Wait for **DGN LNxx y ATP MSG COMPLETE** Message	TELCO	–
20	Enter Message **SW:CU!** To Switch CUs	TELCO	–
21	Enter Message **DGN:LNxx y;RAW!** No Diagnostic Failures Allowed on Phases Run. Wait for **DGN LNxx y ATP MSG COMPLETE** Message	TELCO	–
22	Recent Change DLN Being Backed Out to OOS (Using dln.OOS Script)	TELCO	DLP-625
23	Enter 1107 in Command Mode To Obtain Display Page 1107	TELCO	–
24	Ensure HWDR STATE for DLN Being Backed Out Is OOS	TELCO	–
25	Enter Message **RST:LNxx y;UCL!** To Restore DLN. Ensure **RING RST LNxx y COMPLETED** Message Is Received	TELCO	DLP-583
	(Continued on Page 3)		

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	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
26	Enter Message OP:RING;DETD!. Ensure No "**i**" is Listed for Any Link Node (i = Isolated). If Segment Is Isolated, Enter Message CFR:RING!. Ensure **NORMAL CONFIGURATION, NO NODES ISOLATED** Message Is Received	TELCO	–
27	Enter Message AUD:DLN 1,INS "LNxx-y"! To Run DLN 1 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	–
28	Enter Message AUD:DLN 2,INS "LNxx-y"! To Run DLN 2 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	–
29	Enter Message AUD:DLN 3,INS "LNxx-y"! To Run DLN 3 Audit. Ensure Number of Errors Found and Number of Errors Corrected Are Same	TELCO	–
30	Soak DLN Being Backed Out As Standby DLN for 15 Minutes	TELCO	–

31	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY IN
	   STREAM = SCANIN
		TELCO	–

32	Enter Message SW:DLN,LNaa b,LNxx y! To Make DLN Being Backed Out Active aa = Group Number of DLN Determined in Item 31 b = Member Number of DLN Determined in Item 31	TELCO	–
33	Soak DLN Being Backed Out in ACT 1WAY IN State for 15 Minutes	TELCO	–
34	Enter Message SW:DLN,LNaa b,LNxx y! To Make DLN Being Backed Out Standby aa = Group Number of DLN Determined in Item 31 b = Member Number of DLN Determined in Item 31	TELCO	–

35	Using 1107 Page, Determine DLN That Has Following Configuration:
	   HDWR STATE = ACT
	   APPL STATE = ACT
	   MODE = 1WAY OUT
	   STREAM = SCANOUT
		TELCO	–

36	Enter Message SW:DLN,LNaa b,LNxx y! To Make DLN Being Backed Out Active aa = Group Number of DLN Determined in Item 35 b = Member Number of DLN Determined in Item 35	TELCO	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
37	Soak DLN Being Backed Out in **ACT 1WAY OUT** State for 30 Minutes	TELCO	—
38	At 1B Processor MCC Terminal, If System Status Page (108) Is Not Displayed, Enter **108**	TELCO	—
39	At 1B Processor MCC Terminal, If **801 — RESTRICT RC** Is Highlighted (Colored Black on White); Enter **801** To Allow Recent Change	TELCO	—
40	Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	TELCO	—
41	Copy Incore ECD to Disk	TELCO	DLP-519
42	Safe Point To Temporarily Stop This Procedure. Soak Old DLN for 12 Hours To Ensure No Problems Exists With System Operation After Being Backed Out	TELCO	—
43	Verify System Status	TELCO	DLP-544
44	Run File System Audits To Ensure No File System Errors	TELCO	DLP-520
45	Update Backup Data Base	TELCO	DLP-521
46	Write 3B Computer Backup Tapes	TELCO	DLP-522
47	Verify Backup Tapes	TELCO	DLP-525

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BACK OUT OF DIRECT LINK NODE (DLN) AP60 TO DLN

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[13] Enter message
LKC:SLK(a,b,c,d);LCHK 5!
to perform external link
checks (a through d =
same variables entered
in Step 4, Page 1)

[14] Did
printout
indicate that
signaling link
test passed

No →

[15] Resolve
with installer;
repeat from
Step 12

Yes ↓

[16] Enter message to
change growth signaling
link to GROW state
CHG:SLK(a,b,c,d);GROW!
(a through d = same
variables entered in
Step 4, Page 1)

[17] Was
SLK a b c d NEW MINOR STATE = GROW
message received

No →

[18] Determine
cause and
resolve; repeat
from Step 12

Yes ↓

[21] See NOTE 3.
Inform CNAC or
leaving a message
that your office
has completed
DCHAN growth

← Yes

[19] See NOTE 2.
Have all growth
DCHAN signaling
links on equipped
LI board(s) been
tested

No ↓

[20] Repeat from
Step 2, Page 1
for next growth
DCHAN-signaling
link

NOTES

2. For DCHAN Signaling
   Links, there are four
   ports on each LI board.
   Each port must be
   checked.

3. Office **CLLI*** code
   beginning with:
   A to C Call 513-629-8286
   D to L Call 513-629-7827
   M to P Call 513-629-5485
   Q to Z Call 513-629-6338

* COMMON LANGUAGE is a registered trademark and CLEI, CLLI,
  CLCI, and CLFI are trademarks of Bell Communications
  Research, Inc.

```
[1] At 3B MCRT,        [2] Was
enter message          printout            Yes
per TABLE A            received per   ───────────┃
                       FIG. 1

                            │ No
                            ▼
                       [3] Determine
                       cause and
                       resolve; Repeat
                       from Step 1
```
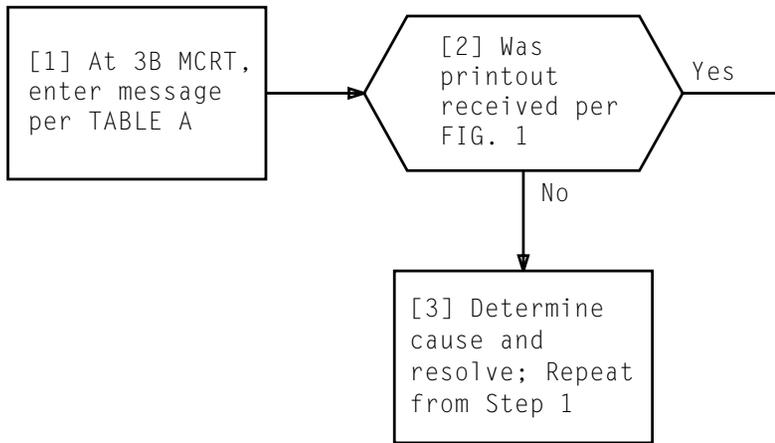
```
/database/tools/dln.uneqip : STARTING
BEGINNING DEGROWTH OF LNaa bb (DLN NODE) USING THE /database/tools/dln.uneqip SCRIPT
RING REPT RING GROWTH ERR *
TOLERATED REQ TO CHG LNaa bb FROM OOS TO UNEUIP (DRVST=OOS), RTR INTERFACE=NEW  *
RING REPT RING GROWTH
REMINDER: DO NOT FORGET THE CORRESPONDING DLN.RPC UCB FOR LNaa bb
RING REPT LNaa bb IS UNEQUIPPED
LNaa bb SET TO UNQUIP USING THE /database/tools/dln.uneqip SCRIPT
/database/tools/dln.uneqip SCRIPT - RCVECD PASSED - EXIT CODE = 0
DEGROWTH OF LNaa bb BY SCRIPT /database/tools/dln.uneqip COMPLETED
LNaa bb IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY
BEGINNING DEGROWTH OF RPCDaa bb (RPCD NODE) USING THE  /database/tools/dln.uneqip SCRIPT
RING REPT RING GROWTH
/database/tools/dln.uneqip RCVECD PASSED - EXIT CODE 0
DEGROWTH OF LNaa bb BY SCRIPT /database/tools/dln.uneqip COMPLETED
RPCDaa bb IS IN THE UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY
EXC ENVIR UPROC /database/tools/dln.uneqip COMPLETED


        Where aa = DLN being converted (00 or 32)
                bb = DLN member number being converted (05 or 10)

        * This error message is expected.
```

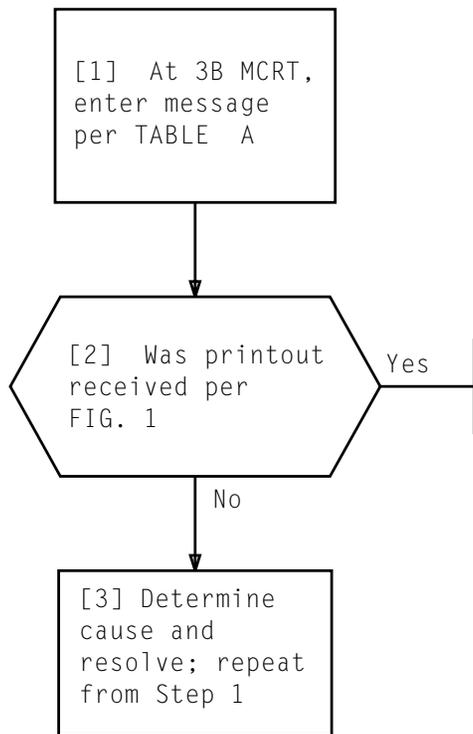**FIG 1. Example of Printout for the dln.uneqip Script**

TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	EXC:ENVIR:UPROC,FN"/database/tools/dln.uneqip",ARGS("DLNaa","bb")!
Where aa = DLN being converted (00 or 32) bb = DLN member number being converted (05 or 10)	

RECENT CHANGE DLN BEING CONVERTED TO UNEQIP

Added

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LUCENT TECHNOLOGIES PROPRIETARY - Use Pursuant to Company Instructions

```
[1]  At 3B MCRT,
enter message
per TABLE  A
```

```
[2]  Was printout          Yes
received per
FIG. 1
```

No

```
[3] Determine
cause and
resolve; repeat
from Step 1
```

```
/database/tools/dln60.grow : STARTING
BEGINNING DEGROWTH OF LNaa bb (DLN NODE) USING THE /database/tools/dln60.grow SCRIPT
RING REPT RING GROWTH
RPCDaa bb IS IN GROWTH STATE
RPCDaa bb COMPLETED FOR IRN2 DLN NODE GROWTH USING THE /database/tools/dln60.grow SCRIPT
/database/tools/dln60.grow RCVECD PASSED - EXIT CODE = 0
GROWTH OF RPCDaa bb BY SCRIPT /database/tools/dln60.grow COMPLETED
RPCDaa bb INCORE CHANGES - hv = 0x200c000, mv = 0x23, path = pu/DLNI_NA, packcode = DLNE, issue = 1
RPCDaa bb IS IN GROW - CHANGES MADE TO INCORE DATABASE ONLY
GROWTH OF LNaa bb BEGINNING
RING REPT LNaa bb IS IN THE GROWTH STATE
/database/tools/dln60.grow RCVECD PASSED - EXIT CODE 0
GROWTH OF DLN NODE LNaa bb BY SCRIPT /database/tools/dln60.grow COMPLETED
LNaa bb INCORE CHANGES - hv = 0x200c000, mv = 0x26, path = pu/irn2, packcode = DLN6, issue = 1
LNaa bb IS IN GROW - CHANGES MADE TO INCORE DATABASE ONLY
EXC ENVIR UPROC /database/tools/dln60.grow COMPLETED


     Where aa = DLN being converted (00 or 32)
            bb = DLN member number being converted (05 or 10)
```

FIG 1. Example of Printout for the dln60.grow Script
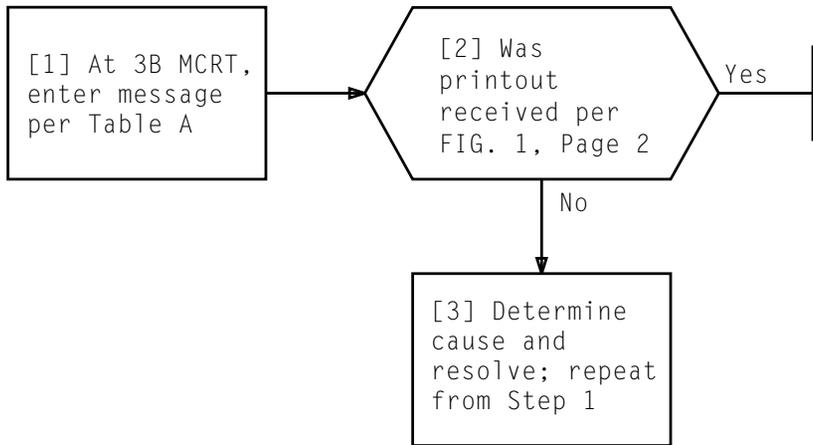
TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	EXC:ENVIR:UPROC,FN"/database/tools/dln60.grow",ARGS("DLNaa","bb")!
Where aa = DLN being converted (00 or 32) bb = DLN member number being converted (05 or 10)	

Added

```
[1] At 3B MCRT,          [2] Was              Yes
enter message            printout                   ┃
per Table A      ──▶     received per ────────      ┃
                         FIG. 1, Page 2             ┃

                              │ No
                              ▼
                         [3] Determine
                         cause and
                         resolve; repeat
                         from Step 1
```

/database/tools/dln.oos : STARTING
TAKING LNaa bb (DLN NODE) TO OOS USING THE /database/tools/dln.oos SCRIPT
RING REPT LNaa bb IS OUT OF SERVICE
LNaa bb SET TO OOS USING THE /database/tools/dln.oos SCRIPT
/database/tools/dln.oos RCVECD PASSED - EXIT CODE = 0
MOVING LNaa bb TO OOS BY SCRIPT /database/tools/dln.oos COMPLETED
LNaa bb IS OOS - CHANGES MADE TO INCORE DATABASE ONLY
EXC ENVIR UPROC /database/tools/dln.oos COMPLETED

         Where aa = DLN being converted (00 or 32)
               bb = DLN member number being converted (05 or 10)

   FIG 1. Example of Printout for the dln.oos Script
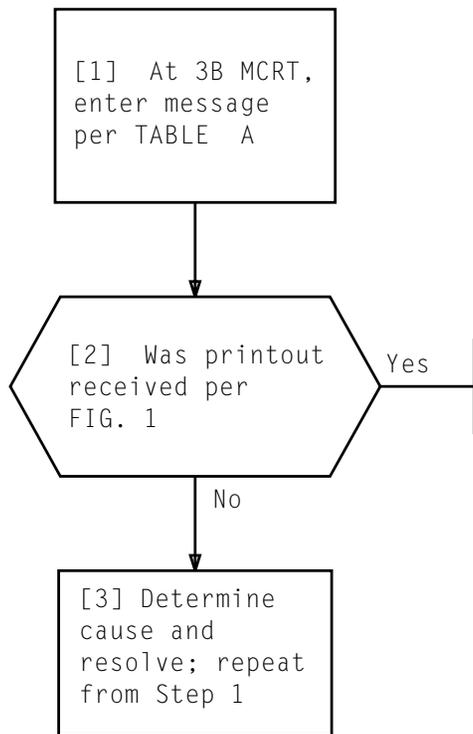
TABLE A	
MESSAGE NUMBER	**INPUT MESSAGE**
1	EXC:ENVIR:UPROC,FN"/database/tools/dln.oos",ARGS("DLNaa","bb")!
Where aa = DLN being converted (00 or 32) bb = DLN member number being converted (05 or 10)	

```
[1]  At 3B MCRT,
enter message
per TABLE  A
```

```
[2]  Was printout
received per
FIG. 1
```
Yes

No

```
[3] Determine
cause and
resolve; repeat
from Step 1
```

```
/database/tools/dln.grow : STARTING
BEGINNING DEGROWTH OF LNaa bb (DLN NODE) USING THE /database/tools/dln.grow SCRIPT
RING REPT RING GROWTH
RPCDaa bb IS IN GROWTH STATE
RPCDaa bb COMPLETED FOR IRN2 DLN NODE GROWTH USING THE /database/tools/dln.grow SCRIPT
/database/tools/dln.grow RCVECD PASSED - EXIT CODE = 0
GROWTH OF RPCDaa bb BY SCRIPT /database/tools/dln.grow COMPLETED
LNaa bb INCORE CHANGES - hv = 0x200c000, mv = 0x26, path = pu/irn2, packcode = DLN6, issue = 1
RPCDaa bb IS IN GROW - CHANGES MADE TO INCORE DATABASE ONLY
GROWTH OF LNaa bb BEGINNING
/database/tools/dln.grow RCVECD PASSED - EXIT CODE 0
GROWTH OF DLN NODE LNaa bb BY SCRIPT /database/tools/dln.grow COMPLETED
RPCDaa bb INCORE CHANGES - hv = 0x200c000, mv = 0x23, path = pu/DLNI_NA, packcode = DLNE, issue = 1
LNaa bb IS IN GROW - CHANGES MADE TO INCORE DATABASE ONLY
EXC ENVIR UPROC /database/tools/dln.grow COMPLETED
```

```
Where aa = DLN being backed out (00 or 32)
      bb = DLN member number being backed out (05 or 10)
```

FIG 1. Example of Printout for the dln.grow Script

TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	`EXC:ENVIR:UPROC,FN"/database/tools/dln.grow",ARGS("DLNaa","bb")!`
Where aa = DLN being Backed Out (00 or 32) bb = DLN member number being Backed Out (05 or 10)	

RECENT CHANGE DLN BEING BACKED OUT TO GROW

LUCENT TECHNOLOGIES PROPRIETARY - Use Pursuant to Company Instructions

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-501		DLP-538		DLP-578		• DLP-613			
NTP-002		DLP-502		DLP-539		DLP-579		• DLP-614			
NTP-003		DLP-503		DLP-540		DLP-580		• DLP-615			
NTP-004		DLP-504		DLP-542		DLP-581		DLP-616			
NTP-005		DLP-505		DLP-543		DLP-582		• DLP-617			
NTP-006		DLP-506		DLP-544		DLP-583		• DLP-618			
NTP-007		DLP-507		DLP-545		DLP-584		DLP-619			
NTP-008		DLP-508		DLP-546		DLP-585		DLP-620			
NTP-009		DLP-509		DLP-547		DLP-586		DLP-621			
NTP-010		DLP-510		DLP-552		DLP-587		DLP-622			
NTP-011		DLP-511		• DLP-553		DLP-588		• DLP-623			
NTP-012		DLP-512		• DLP-554		DLP-589		• DLP-624			
NTP-013		DLP-513		DLP-555		• DLP-590		• DLP-625			
NTP-014		DLP-514		DLP-556		DLP-591		• DLP-626			
NTP-015		DLP-515		DLP-557		DLP-592		• CKL-891			
NTP-016		DLP-516		DLP-558		DLP-593		TNG-893			
NTP-017		DLP-517		DLP-559		• DLP-594					
NTP-018		DLP-518		DLP-560		• DLP-595					
NTP-019		DLP-519		DLP-561		• DLP-596					
NTP-020		• DLP-520		DLP-562		• DLP-597					
NTP-021		DLP-521		DLP-563		DLP-598					
NTP-022		• DLP-522		DLP-564		DLP-599					
NTP-023		DLP-523		DLP-565		DLP-600					
NTP-024		DLP-524		DLP-566		DLP-601					
NTP-025		DLP-525		□ DLP-567		• DLP-602					
NTP-026		DLP-526		DLP-568		• DLP-603					
NTP-027		DLP-527		DLP-569		DLP-604					
NTP-028		DLP-528		DLP-570		DLP-605					
• NTP-029		DLP-529		□ DLP-571		DLP-606					
• NTP-030		DLP-530		DLP-572		DLP-607					
NTP-031		DLP-531		DLP-573		DLP-608					
• NTP-032		DLP-532		DLP-574		□ DLP-609					
• NTP-033		DLP-533		DLP-575		DLP-610					
• NTP-034		DLP-534		DLP-576		• DLP-611					
DLP-500		DLP-535		DLP-577		• DLP-612					

• REVISED OR ADDED ITEM   □ CANCELED ITEM   Revised   **Issue 8** | OCT 2000

CHECKLIST

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