Task Oriented Practice (TOP)
DIF, VIF, DT, EST, AND CCIS TGR
Growth/Degrowth
4ESS™ Switch

1. General

1.001 This addendum supplements TOP 234-353-030, Issue 1.

1.002 This addendum is being reissued for the following reasons:

- To correct pagination errors in Addendum 1 and Addendum 2.

- To correct typo in Item 32 of NTP-034.

2. Attachments

2.001 Place this pink sheet in front of the practice. Insert the attached pages in place of the corresponding numbered pages:

- NTP-026, Page 4 (Reissued) and Blank Page

- NTP-027, Page 1 (Revised) and NTP-027, Page 2 (Revised)

- NTP-027, Page 3 (Added) and NTP-028, Page 1 (Reissued)

- NTP-033, Page 6 (Reissued) and Blank Page

- NTP-034, Page 1 (Revised) and NTP-034, Page 2 (Revised)

- NTP-034, Page 3 (Revised) and NTP-034, Page 4 (Revised)

- NTP-034, Page 5 (Revised) and NTP-034, Page 6 (Revised)

- NTP-034, Page 7 (Added) and NTP-035, Page 1 (Reissued)

- DLP-649, Page 1 (Added) and DLP-649, Page 2 (Added)

- DLP-649, Page 3 (Added) and DLP-650, Page 1 (Added)

- DLP-650, Page 2 (Added) and Blank Page

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

3. Issuing Organization

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21 (Contd)	9. Enter Message To Allow Degrowth TSI Port (**ALW:TSI** a,**SPC** b,**PORT** c!)	TELCO	—
	10. Remove Power From Degrowth DIU Using **UNIT** Power Switch	TELCO	—
	11. Remove Degrowth DIU Circuit Packs, Power Units, and Disconnect Cabling	TELCO	DLP-598
	12. If Degrown ESU Circuit Packs Are To Be Removed From EST, Remove ESU Circuit Packs	TELCO	DLP-568

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

		RESPONSIBILITY	
	WARNINGS: *1. An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling* *2. No other growth or maintenance activity is allowed during this procedure*		
	NOTES: 1. Appropriate Input/Output manuals must be used if clarification of input message or ouput message is necessary 2. This procedure must be perfomed during light traffic periods 3. **4ESS**™ switch operation must be closely monitored while performing this procedure 4. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS) 5. Stability of office must be maintained throughout this procedure		
1	Notify Next Higher Support Organization That DT Frame Is Being Degrown. Obtain Information for Items 2 and 3 From Next Higher Technical Support Group	TELCO	—
2	Ensure **4ESS** Switch Is in Stable Condition	TELCO	DLP-638
3	Ensure 1B Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-639

4	Assure That the Following Prerequisites Have Been Met:
	  • Verify That Digroup Terminal (DT) Considered for Degrowth Contains Only Message Trunk Assignments
	  • All DTUs and Associated TSI Ports and ESUs Have Been Degrown From Degrowth DT per NTP-020
		TELCO	—

5	Recent Change and Verify Member Equipage of Degrowth DT From OPER to SGRO (Degrow) Using RC Form 701	TELCO	DLP-526
6	Run Peripheral Unit Status Audit (**AUD:PUSTAT!**)	TELCO	—
	NOTE: Item 7 is being performed to reset the DT port routing in the SP. This will prevent the possibility of interrupts occurring and escalating to a Phase 1		
7	At 1B MTC Terminal, Enter Message DGN:DT a:PH 1,GROWTH!. Ensure PF Response Is Received and Diagnostic Runs. Ignore All DGN Results (Such as ATP, CATP, STF Results)	TELCO	—

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8	Remove Power From Degrowth DT Controllers 0 and 1 and Spare DTU (DTU 8) Using Power Switches	INST	—
9	Recent Change and Verify Member Equipage of Degrowth DT From SGRO to GROW (Degrow) Using RC Form 701	TELCO	DLP-526
10	Recent Change and Verify Member Equipage of Degrowth DT From GROW to UNEQ (Degrow) Using RC Form 701	TELCO	DLP-526
11	Remove +140V and +24V Power for Degrowth DT Frame(s) and Disconnect Associated Power Cables		
	1. At Area Bus Center (ABC) Associated With +140VA Power to Degrowth DT Frame, Remove 140VA Indicator Fuse for Degrowth DT Frame	TELCO	—
	2. At ABC, Remove +140VA Load Fuse for Degrowth DT Frame	INST	—
	3. At ABC, Disconnect 140VA and 140 RTNA Power Cables Associated With Degrowth DT Frame	INST	—
	4. At Degrowth DT Frame, Disconnect 140VA Power Cables	INST	—
	5. Repeat Items 11.1 Through 11.4 for 140VB Power	TELCO/INST	—
	6. If +24V Is Being Supplied to Degrowth DT Frame From J5A007B PCD Frame, Perform Items 11.7 and 11.8; Otherwise, Go to Item 11.9	TELCO	—
	7. At 1B MTC Terminal, Enter Message RMV:PCD a,DAMON 0! (a = 0 for A Fuses or 1 for B Fuses) To Remove Power From PCD Frame Associated With Degrowth DT Frame; Ensure RMV: PCD a, DAMON 0 COMPL Message Is Received	TELCO	—
	8. Go to Item 11.10	TELCO	—
	9. At PD Frame Associated With +24V Power to Degrowth DT Frame, Remove +24V Indicator Fuse or Removable LED if J5A007C PCD Frame for Degrowth DT Frame	TELCO	—
	10. At PD Frame, Remove +24V Load Fuse for Degrowth DT Frame	TELCO	—
	11. At PD Frame, Disconnect +24VA and 24 RTNA Power Cables Associated With Degrowth DT Frame	INST	—
	12. If +24V Was Supplied to Degrowth DT Frame From J5A007B PCD Frame, at 1B MTC Terminal, Enter Message RST:PCD a,DAMON 0! (a = 0 for A Fuses or 1 for B Fuses) To Restore Power To PCD Frame Associated With Degrowth DT Frame; Ensure RST: PCD a, DAMON 0 COMPL Message Is Received	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
11 **(Contd)**	13. At Degrowth DT Frame, Disconnect +24VA Power Cables	INST	—
	14. Repeat Items 11.6 Through 11.13 for +24VB Power	TELCO/INST	—
12	Remove SP2 to DT Frame Interface Cables and TSI Clock Interface Cables	INST	—
13	Install Looping Devices for Transmission Facilities at DSX, LT-1, or Repeater Bays	INST	—
14	Remove Transmission Cables Between DTF and DSX, LT-1, or Repeater Bays	INST	—
15	Remove Alarm Wiring in Degrown DTF; If DTF Is in Middle of Lineup, Place New Cable Between Remaining Frames to Bridge Open	INST	—
16	Remove Private Signal Leads — MSD (DA0/0/-DA0/8) and MSN (SCA0/0/-SCA0/1)	INST	—
17	Work MSN, MDN, and PP Cables, Removed in Item 16, Back to SP Frame	INST	—
18	Remove DTF Common Circuits (Telephone Jacks, TTY Jacks, Appliance Outlets)	INST	—
19	Remove Degrown DT Frame From Lineup	INST	—
20	Notify Next Higher Support Organization That Degrowth of the DT Frame Is Complet	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO		
	RESPONSIBILITY	
WARNINGS: 1. An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling *2. No other growth or maintenance activity is allowed during this procedure*		
NOTES: 1. Appropriate Input/Output manuals must be used if clarification of input message or ouput message is necessary 2. This procedure must be perfomed during light traffic periods 3. **4ESS**™ switch operation must be closely monitored while performing this procedure 4. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS) 5. Stability of office must be maintained throughout this procedure		
1 Notify Next Higher Support Organization That VIF Is Being Degrown. Obtain Information for Items 2 and 3 From Next Higher Technical Support Group	TELCO	—
2 Ensure **4ESS** Switch Is in Stable Condition	TELCO	DLP-638
3 Ensure 1B Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-639
4 Assure That All VIUs and Associated TSI Ports and ESUs Have Been Degrown From Degrowth VIF per NTP-016	TELCO	—
5 Recent Change and Verify Member Equipage of Degrowth VIF From OPER to SGRO (Degrow) Using RC Form 701	TELCO	DLP-526
6 Run Peripheral Unit Status Audit (**AUD:PUSTAT!**)	TELCO	—
7 Recent Change and Verify Member Equipage of Degrowth VIF From SGRO to GROW (Degrow) Using RC Form 701	TELCO	DLP-526
8 Remove Power From Degrowth VIF Controllers, IPUBS and Spare VIU (VIU 7) Via Power Switches	TELCO	—
NOTE: Do not remove +140V and +24V power from degrowth VIF at power distribution frame at this time.		
(Continued on Page 2)		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
29 (Contd)	8. Verify That Receiver Is Active for Testing Transmitters	TELCO/INST	DLP-617

	9. Test Growth DIU Transmitter Service Circuits
	   (TEST:TRK,CIN a SVC b;SVC:TSG,STAT MTC.LKO,PALL!
	   b = *MFX**** for MF Service Circuits or *DMXM*** for DTMF Service Circuits)
		TELCO/INST	DLP-615

30	Bring Newly Grown MF or DTMF DIU Service Circuits to Active State:		
	1. For Receivers, Input SET:TRKSTAT ACT,CIN a SVC b;SUM:NUM 16! b = *MFR**** for MF Service Circuits or *DMRV*** for DTMF Service Circuits	TELCO/INST	—
	2. For Transmitters, Input SET:TRKSTAT ACT,CIN a SVC b;SUM:NUM 16! b = *MFX**** for MF Service Circuits or *DMXM*** for DTMF Service Circuits	TELCO/INST	—

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ADD DIGITAL INTERFACE UNIT (DIU) TO OPERATIONAL DIGITAL INTERFACE
(DIF-E1) DOMESTIC OR DIF (J68960A) — SUPPORT TO INSTALLER (INST)

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO		
	RESPONSIBILITY	
WARNINGS: 1. *An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling* 2. *No other growth or maintenance activity is allowed during this procedure*		
NOTES: 1. F-Link removal must be completed and verified before performing this procedure 2. The terms first and second terminal units refer to primary (first) and backup (second) terminals of a domestic terminal unit pair. These terminals are also referred to as mates 3. This procedure is to be used to remove the first TGR frame, its mate and if an Enhanced Terminal, the associated Data Set frame. 4. Input messages are to be entered at a 1B Processor terminal (MTC, SREC1, beltline) 5. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary 6. This procedure must be performed during light traffic periods 7. **4ESS**™ Switch operation must be closely monitored while performing this procedure 8. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS) 9. Stability of office must be maintained throughout this procedure		
1	Determine TGR Frame Number To Be Degrown and Associated SP and DIF, DT, or VIF Unit, if Required	TELCO/INST	—
2	While On-Site Personnel Are Performing Items 3 Through 37, Determine Cable Assignments for Degrowth TGR Frames That Are To Be Removed and Record for Later Use	INST	—
3	Notify Next Higher Technical Support Group That CCIS TGR Basic Frame Complex Is Being Degrown. Obtain Information for Items 4 and 5 From Next Higher Technical Support Group	TELCO	—
4	Ensure 1B Processor Routine Exerciser (REX) Successfully Diagnosed 1B Processor Equipment Within 24 Hours of Performing This Procedure	TELCO	—
5	Ensure **4ESS** Switch Is in Stable Condition	TELCO	DLP-638
6	At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	TELCO	—
7	Ensure 1B Processor and Peripheral Units Are Running in Normal Duplex Mode	TELCO	DLP-639
8	Verify Voice Frequence Links (VFLs) Have Been Removed From Degrowth Terminal Units	TELCO	DLP-649

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9	At 1B MTC Terminal, Enter Message OP:SLKSTAT;ALL! and Determine if All Signaling Links Associated With Degrowth TGR Frames Are Set to SELF LOOP	TELCO	—
10	At 1B MTC Terminal, Enter Message INH:AUD:NUM 49! To Inhibit Audit 49	TELCO	—
11	If All Signaling Links Associated With Degrowth TGR Frames Are Set to SELF LOOP (Item 9), Go to Item 22; Otherwise, Perform Items 12 Through 21 To Set Signaling Links to SELF LOOP	TELCO	—
12	Enter Message RMV:SIGLK aabb! (aa = 2-Digit TGR Number, bb = 2-Digit TER Number) To Remove Signaling Link for One Degrowth Terminal Unit in First TGR Frame	TELCO	—
13	Enter Message RMV:TGR a,TER b! (a = TGR Number, b = TER Number) To Remove One Terminal Unit in First TGR Frame	TELCO	—
14	Perform Functional Word Change of Removed Terminal Unit for Loop Data for Self-Synchronization	TELCO	DLP-532
15	Disable Direct Signaling Traffic Configuration for Removed Terminal Unit	TELCO	DLP-620
16	At 1B MTC Terminal, Enter Message RST:TGR a,TER b! (a = TGR Number, b = TER Number) To Restore Removed Terminal Unit	TELCO	—
17	Enter Message RST:SIGLK aabb! (aa = 2-Digit TGR Number, bb = 2-Digit TER Number) To Restore Signaling Link	TELCO	—
18	Repeat From Item 12 for Each Terminal Unit Supplied With First TGR Frame	TELCO	—
19	Repeat Items 12 Through 17 for Each Terminal Unit Supplied With Mate TGR Frame (In Items 12 and 13, Replace First TGR Frame With Mate TGR Frame)	TELCO	—
20	Enter Message AUD:PUSTAT! To Run Peripheral Unit Status Audit	TELCO	—
21	Enter Message OP:SLKSTAT;ALL!. Verify From Printout That SLK STAT Is INS and VFL Is SELF LOOPED for Each Terminal Unit in First TGR Frame	TELCO	—
22	Verify if Terminal Units in Degrowth TGR Frames Are Not Unequipped (VER:UTYPE:TGR a!)	TELCO	DLP-648
23	If All Terminal Units in Degrowth TGR Frames Are Unequipped, Go to Item 36; Otherwise, Perform Items 24 Through 35 To Degrow Terminal Units	TELCO	—
24	At 1B MTC Terminal, Enter Message RMV:SIGLK aabb! (aa = 2-Digit TGR Number, bb = 2-Digit TER Number) To Remove Signaling Link for One Degrowth Terminal Unit in First TGR Frame	TELCO	—
25	Enter Message RMV:TGR a,TER b! (a = TGR Number, b = TER Number) To Remove One Terminal Unit in First TGR Frame	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO	
26	Repeat Items 24 and 25 for Each Terminal Unit Supplied With First TGR Frame	TELCO	—
27	Enter Message OP:SLKSTAT;ALL!. Verify From Printout That SLK STAT Is OOS for Each Terminal Unit in First TGR Frame	TELCO	—
28	Verify Polling Status of Degrowth First TGR Frame. If any Bit Position for Appropriate Address Is Set to 1, Next Higher Support Group Must Be Contacted	TELCO	DLP-650
	CAUTION: In Item 29, equipage must be changed only to SGRO state		
29	Recent Change Submember Equipage From OPER to SGRO Using RC Form 701 (Degrow) (All Terminal Units Supplied With First TGR Frame)	TELCO	DLP-527
30	At 1B MTC Terminal, Enter Message AUD:PUSTAT! To Run Peripheral Unit Status Audit	TELCO	—
	CAUTION: In Item 31, equipage must be changed only to GROW state		
31	Recent Change Submember Equipage From SGRO to GROW Using RC Form 701 (Degrow) (All Terminal Units Supplied With First TGR Frame)	TELCO	DLP-527
32	Repeat Items 24 Through 31 for the Mate TGR Frame (In Items 24 Through 31, Replace First TGR Frame With Mate TGR Frame)	TELCO	—
33	Remove Power From Each Terminal Unit That Has Been Recent Changed to GROW (FIRST and MATE TGR Frames) Using Power Switch	TELCO	—
34	Recent Change Submember Equipage From GROW to UNEQ Using RC Form 701 (Degrow) (All Terminal Units Supplied With Mate TGR Frame)	TELCO	DLP-527
35	Recent Change Submember Equipage From GROW to UNEQ Using RC Form 701 (Degrow) (All Terminal Units Supplied With First TGR Frame)	TELCO	DLP-527
36	Ensure Power Is Removed From All Terminal Units in Degrowth TGR Frames	TELCO	—
37	Verify Polling Status of Degrowth TGR Frames (FIRST and MATE). If and Bit Position for Appropriate Address Is Set to 1, Next Higher Support Group Must Be Contacted	TELCO	DLP-650
	CAUTION: In Item 38, equipage must be changed only to SGRO		
38	Recent Change and Verify First TGR Frame Member Equipage From OPER to SGRO Using RC Form 701 (Degrow)	TELCO	DLP-526
39	At 1B MTC Terminal, Enter Message AUD:PUSTAT! To Run Peripheral Unit Status Audit	TELCO	—
	(Continued on Page 4)		

	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS,	GO TO
40	Enter Message DGN:TGR a,CONTR O:PH 1! To Diagnose Degrowth TGR Frame Specifying PH 1; Ensure ATP or CATP Response Is Received (Software Will Recognize Equipage State Change When Diagnosing the Degrowth TGR Frame)	TELCO	—
	CAUTION: An F-level interrupt may be received during item 41		
41	Remove Power From First TGR Frame Controllers 0 and 1, and IPUBs 0 and 1 Using Power Switches (**OS** and **ACK** Lamps Will Not Light)	TELCO	—
	CAUTION: In Item 42, equipage must be changed only to GROW		
42	Recent Change and Verify First TGR Frame Member Equipage From SGRO to GROW Using RC Form 701 (Degrow)	TELCO	DLP-526
43	Repeat Items 38 Through 42 for Mate TGR Frame (In Items 38 Through 42, Replace First TGR Frame With Mate TGR Frame)	TELCO	—
44	Recent Change and Verify First TGR Frame Member Equipage From GROW to UNEQ Using RC Form 701 (Degrow)	TELCO	DLP-526
45	Recent Change and Verify Mate TGR Frame Member Equipage From GROW to UNEQ Using RC Form 701 (Degrow)	TELCO	DLP-526
46	At 1B MTC Terminal, Enter Message INH:AUDMSG:NUM 49! To Inhibit Audit Messages	TELCO	—
47	Enter Message ALW:AUD:NUM 49! To Allow Audit 49	TELCO	—
48	Enter Message AUD:NUM 49! To Run Audit 49; Wait for AUD:NUM 49 COMPLETE 0 ERRORS DETECTED Output Message. If Errors Are Found, Repeat This Item Until 0 ERRORS Received	TELCO	—
49	Enter Message ALW:AUDMSG:NUM 49! To Allow Audit Messages	TELCO	—
50	Safe Point To Temporarily Stop This Procedure. If Stopping, Perform Items 51 and 52; Otherwise, Go to Item 53	TELCO/INST	—
51	At 1B MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX	TELCO	—
52	Stop Procedure for Now. Continue at Item 53 When Resuming	TELCO/INST	—
53	At 1B MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	TELCO	—
	(Continued on Page 5)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO		
54	Remove Degrowth TGR Frames From Peripheral Unit Bus Using Selected Option A or B in TOP 234-353-045. Continue This Procedure at Item 55 Upon Completion:		
	A. When Degrowth Frame Is Last Frame on PUB Branch	TELCO/INST	—
	B. When Degrowth Frame Is Between Two Operational Frames on PUB Branch	TELCO/INST	—
55	At 1B MTC Terminal, Enter Mesage **INH:AUDMSG:NUM 49!** To Inhibit Audit Messages	TELCO	—
56	Enter Message **AUD:NUM 49!** To Run Audit 49; Wait for **AUD:NUM 49 COMPLETE 0 ERRORS DETECTED** Output Message. If Errors Are Found, Repeat This Item Until 0 ERRORS Received	TELCO	—
57	Enter Message **ALW:AUDMSG:NUM 49!** To Allow Audit Messages	TELCO	—
58	Remove +140V and +24V Power for Degrowth TGR Frames and Disconnect Associated Power Cables		
	1. At Area Bus Center (ABC) Associated With +140VA Power to Degrowth TGR Frame, Remove 140VA Indicator Fuse for Degrowth TGR Frame	TELCO	—
	2. At ABC, Remove +140VA Load Fuse for Degrowth TGR Frame	INST	—
	3. At ABC, Disconnect 140VA and 140 RTNA Power Cables Associated With Degrowth TGR Frame	INST	—
	4. At Degrowth TGR Frame, Disconnect 140VA Power Cables	INST	—
	5. Repeat Items 58.1 Through 58.4 for 140VB Power	TELCO/INST	—
	6. If +24V Is Being Supplied to Degrowth TGR Frame From J5A007B PCD Frame, Perform Items 58.7 and 58.8; Otherwise, Go to Item 58.9	TELCO	—
	7. At 1B MTC Terminal, Enter Message **RMV:PCD a,DAMON 0!** (a = 0 for A Fuses or 1 for B Fuses) To Remove Power From PCD Frame Associated With Degrowth TGR Frame; Ensure **RMV: PCD a, DAMON 0 COMPL** Message Is Received	TELCO	—
	8. Go to Item 58.10	TELCO	—
	9. At PD Frame Associated With +24V Power to Degrowth TGR Frame, Remove +24V Indicator Fuse or Removable LED if J5A007C PCD Frame for Degrowth TGR Frame	TELCO	—
	10. At PD Frame, Remove +24V Load Fuse for Degrowth TGR Frame	TELCO	—
	11. At PD Frame, Disconnect +24VA and 24 RTNA Power Cables Associated With Degrowth TGR Frame	INST	—
	(Continued on Page 6)		

58 (Contd)	12. If +24V Was Supplied to Degrowth TGR Frame From J5A007B PCD Frame, at 1B MTC Terminal, Enter Message **RST:PCD a,DAMON 0!** (a = **0** for A Fuses or **1** for B Fuses) To Remove Power From PCD Frame Associated With Degrowth TGR Frame; Ensure **RST: PCD a, DAMON 0 COMPL** Message Is Received	TELCO	—
	13. At Degrowth TGR Frame, Disconnect +24VA Power Cables	INST	—
	14. Repeat Items 58.6 Through 58.13 for +24VB Power	INST	—
59	Disconnect Cables Between Degrowth TGR and MFS Frames	INST	—
60	If Data Set Frame Is To Be Removed, Perform Functional Word Change To Degrow Data Set Frame Member Equipage From OPER (11) to UNEQ (00); Bits 23 and 22 in Word 0	TELCO	DLP-525
61	Remove Alarm Cables for Degrowth Frames; If Degrowth Frames Are in Middle of Lineup, Connect New Alarm Cable Between Remaining Frames to Bridge Open	INST	—
62	At PPL Power Switch On One SP Frame Containing MSN, MDN, and PP Cables Determined in Step 1, Rotate **ROS** Switch to **ROS** Position and Depress **ROS** Switch; Ensure **OS** and **PWR OFF** Lamps Are On	TELCO	—
	CAUTION: In Items 63 and 64, care must be taken to make sure that leads do not short together		
63	At Degrowth TGR Frames, Disconnect MSN, MDN, and PP Cables Associated With SP Frame (Item 62)	INST	—
64	At SP Frame, Disconnect MSN, MDN, and PP Cables	INST	—
65	Work MSN, MDN, and PP Cables (Item 63) Back to SP Frame (Item 62)	INST	—
66	At PPL Power Switch (Item 62), Rotate **ROS** Switch to Normal Position and Depress **ON** Switch; Ensure **OS** and **PWR OFF** Lamps Are Off	TELCO/INST	—
67	If MSN, MDN, and PP Cables for Degrowth TGR Frames Are Connected to Another SP Frame, Repeat Items 63 Through 66	TELCO/INST	—
68	At 1B MTC Terminal, Enter Message **ALW:MACLI,CLASS MTCE!** To Allow REX	TELCO	—
69	Remove Common Circuits (Telephone Jacks, TTY Jacks, AC Outlets) From Degrowth TGR Frames	INST	—
70	If Data Set Frame Is To Be Removed, Remove Cables and Common Circuits as Required	INST	—
	(Continued on Page 7)		

	DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO		
71	Ensure No Cables or Leads Are Connected to Degrowth TGR Frames. If Cables or Leads Are Still Connected, Contact Next Higher Support Group for Resolution. Do Not Continue Until Resolved	INST	—
72	Remove Degrowth TGR Frames From Lineup	INST	—
73	If Data Set Frame Is To Be Removed, Remove Data Set Frame From Lineup	INST	—
74	Notify Next Higher Support Group That CCIS TGR Frame Complex Is Complete	TELCO	—

DEGROW CCIS TERMINAL GROUP BASIC FRAME COMPLEX — SUPPORT TO INSTALLER (INST)

Added

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DO THE ITEMS BELOW IN THE ORDER LISTED . . . . FOR DETAILS, GO TO			
		RESPONSIBILITY	
	WARNINGS: 1. *An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling* 2. *No other growth or maintenance activity is allowed during this procedure*		
	NOTES: 1. Appropriate Input/Output manuals must be used if clarification of input message or ouput message is necessary 2. This procedure must be perfomed during light traffic periods 3. **4ESS**™ switch operation must be closely monitored while performing this procedure 4. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS) 5. Stability of office must be maintained throughout this procedure		
1	Notify Next Higher Support Organization That Amplifier and Pad Unit Are Being Adjusted. Obtain Information for Items 2 and 3 From Next Higher Technical Support Group	TELCO	—
2	Ensure **4ESS** Switch Is in Stable Condition	TELCO	DLP-638
3	Ensure 1B Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-639
4	Remove Associated Signal Link From Service	TELCO	DLP-621
5	At TTY, Enter **RMV:TGR** a,**TER** b! (a = Terminal Group, b = Terminal Number)	TELCO	—
	NOTE: Power switch associated with **TERMINAL 01** is associated with amplifier and pad unit 01.		
6	Determine Power Switch Associated With Amplifier and Pad Unit To Be Adjusted	TELCO	DLP-622
7	At Appropriate Power Switch, Rotate **ROS/OFF** Switch to **ROS** *Response:* **ACK** Lamp Flashes; Then **OS** and **OFF NORM** Lamps Light	TELCO	—
8	At Appropriate Power Switch, Depress **ROS/OFF** Switch *Response:* **PWR OFF** Lamp Lights	TELCO	—
9	Adjust Amplifier and Pads Using RMS-D2	TELCO	DLP-623
	NOTE: If **OS** lamp flashes off and on and remains lighted, diagnostic failed.		

[1] At 1B MTC
terminal, enter
message
VER:UTYPE:TGR a!
a = Member number
    of degrowth TGR

[2] Are message
format and member
identification
correct per
TABLE A

Yes → Page 2

No

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

TABLE A	
MESSAGE NUMBER	**INPUT MESSAGE**
1	VER:UTMN,OPT(),CUR: FLN a, UTYN TGR, MEMN b, ME UNEQ, ENTRY ADDRESS c, ENTRY SIZE 81, CUR WORD 0 ____ ____ ____ ____ WORD 10 ____ ____ ____ ____ WORD 20 ____ ____ ____ ____ 　　　　　　　　• 　　　　　　　　• 　　　　　　　　• 　　　　　　　　• WORD 110 ____ ____ ____ ____ ____ ____ ____ ____ WORD 120 ____
a = Floor location number b = Member number of growth TGR c = Starting address (Word 0)	

Added

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VERIFY VFLs HAVE BEEN REMOVED FROM DEGROWTH TERMINAL UNITS

[4] Using TABLE B, determine octal word
for one terminal unit in degrowth
TGR Frame

[5] Using output message, locate
octal word determined in
Step 4 and record

AND

[7] Are binary
bits 0 to 16
set to 0
[FIG. 1]

Yes → Page 3

No

[8] Record
discrepancy
for later
use

[6] Convert six rightmost octal
digits in octal word recorded
in Step 5 to binary [FIG. 1]

entry data octal output	Y	0	0	0	0	0

bit position	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
binary values	X	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SP MEMBER NUMBER | MATRIX | SP ROW NUMBER | SP COLUMN NUMBER

FIG. 1 — Entry Data Word Layout
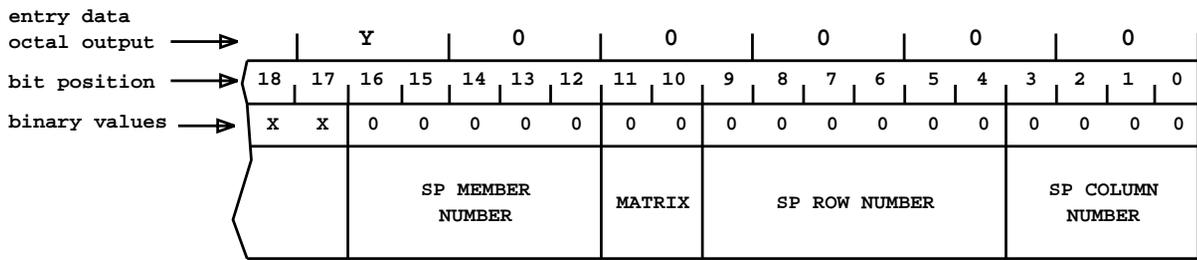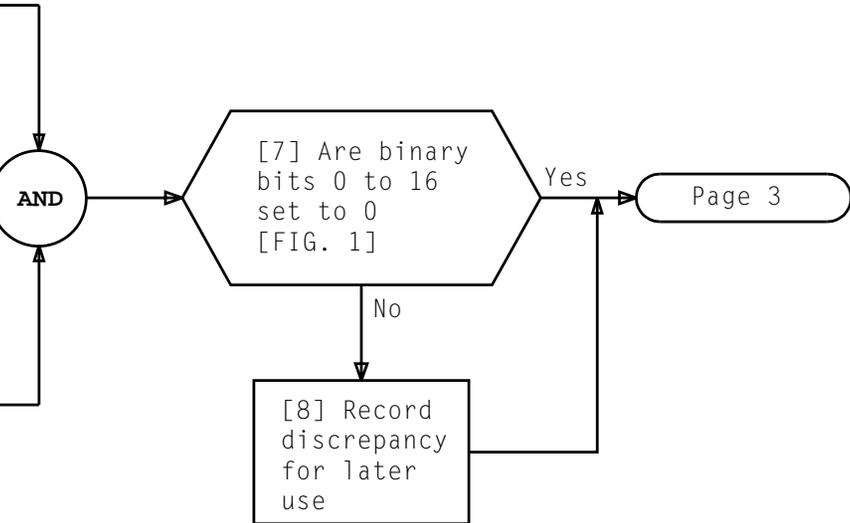
TABLE B			
TERMINAL UNIT	OCTAL WORD	TERMINAL UNIT	OCTAL WORD
0	22	8	62
1	26	9	66
2	32	10	72
3	36	11	76
4	42	12	102
5	46	13	106
6	52	14	112
7	56	15	116

VERIFY VFLs HAVE BEEN REMOVED FROM DEGROWTH TERMINAL UNITS

```
┌─────────────────┐              ┌─────────────────┐              ┌─────────────────┐
│ [9] Have all    │    Yes       │ [11] Has terminal│   Yes        │ [13] Were       │  No
│ terminal units  │─────────▷    │ units in the    │─────────▷    │ discrepancies   │──────┤
│ in degrowth TGR │              │ mate degrowth   │              │ recorded in     │
│ frame been      │              │ TGR frame been  │              │ Step 8, Page 2  │
│ verified        │              │ verified        │              │                 │
└────────┬────────┘              └────────┬────────┘              └────────┬────────┘
         │ No                             │ No                             │ Yes
         ▽                                ▽                                ▽
┌─────────────────┐              ┌─────────────────┐              ┌──────────────────────┐
│ [10] Repeat     │              │ [12] Repeat from│              │ [14] Notify next higher│
│ from Step 4,    │              │ Step 1, Page 1  │              │ support group that VFL(s)│
│ Page 2 for      │              │ for mate TGR    │              │ is assigned to degrowth│
│ next terminal   │              │ frame           │              │ terminal unit(s).     │
│ unit            │              │                 │              │ This VFL(s) must be   │
│                 │              │                 │              │ unassigned before     │
│                 │              │                 │              │ degrowth can continue │
└─────────────────┘              └─────────────────┘              └──────────────────────┘
```

VERIFY VFLs HAVE BEEN REMOVED FROM DEGROWTH TERMINAL UNITS

[1] Using TABLE A, determine address
    for degrowth TGR Frame

[2] At 1B MTC terminal, enter message
    DUMP:CSS,ADR aaaaa!
    aaaaa = Address determined
          in Step 1

(AND)

[4] Is octal
data word
set to 0
[FIG. 1]   Yes

No

(Page 2)

[3] Using output message, determine
    if octal data word is set
    to 0 [FIG. 1]
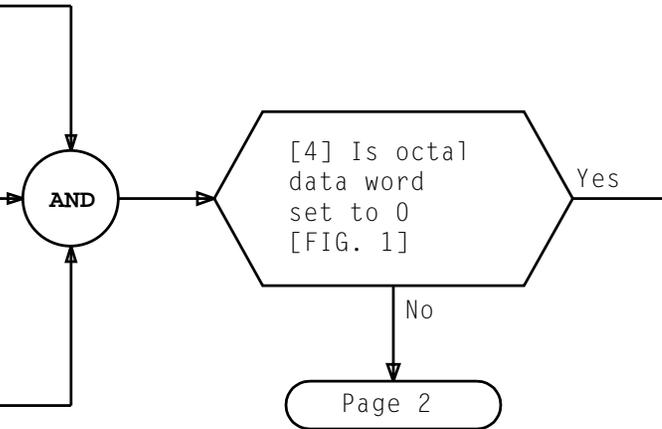
TABLE A	
TGR FRAME	OCTAL ADDRESS
0	20242
1	20243
2	20244
3	20245
4	20246
5	20247

DUMP:CSS,INDIR 0,ADR 77400aaaaa,INC +0 COMPLETED

77400aaaaa 00000000

FIG. 1 — Sample of DUMP:CSS Output Message

Added

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VERIFY POLLING STATUS OF DEGROWTH TGR FRAME

[5] Contact next higher support group
    to perform Steps 6 through 9

```
                                    ┌─────────────┐        ┌──────────────┐
                                   ╱  [7] Was      ╲  Yes  │ [9] Repeat   │
                    ┌─────┐       ╱   output message ╲─────▶│ from Step 2, │
                   ╱  AND  ╲─────▶◀   received per    ▶     │ Page 1       │
                   ╲       ╱       ╲  FIG. 2         ╱      └──────────────┘
                    └─────┘         ╲_____╱
                                          │ No
                                          ▼
                                   ┌──────────────┐
                                   │ [8] Determine│
                                   │ cause and    │
                                   │ resolve; repeat│
                                   │ from Step 6  │
                                   └──────────────┘
```

[6] At 1B MTC terminal, enter message
    LOAD:CSS,ADR aaaaa:0!
    aaaaa = Address determined
            in Step 1
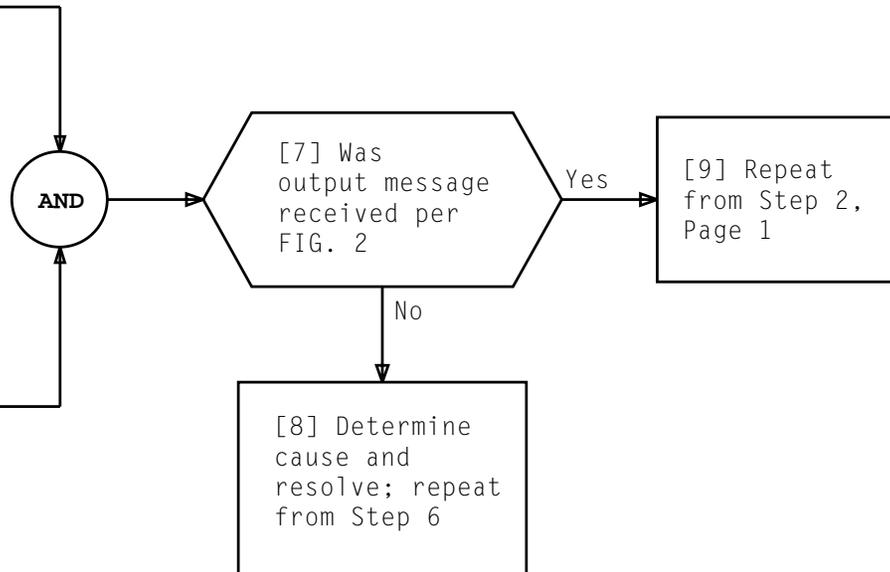
LOAD:CSS,INDIR 0,ADR 77400aaaaa,INC +0 COMPLETED

FIG. 2 — Sample of LOAD:CSS Output Message

VERIFY POLLING STATUS OF DEGROWTH TGR FRAME

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		NTP-036		DLP-531		DLP-566		DLP-601		DLP-636	
NTP-002		NTP-037		DLP-532		DLP-567		DLP-602		DLP-637	
NTP-003		NTP-038		DLP-533		DLP-568		DLP-603		DLP-638	
NTP-004		NTP-039		DLP-534		DLP-569		DLP-604		DLP-639	
NTP-005		DLP-500		DLP-535		DLP-570		DLP-605		DLP-640	
NTP-006		DLP-501		DLP-536		DLP-571		DLP-606		DLP-641	
NTP-007		DLP-502		DLP-537		DLP-572		DLP-607		DLP-642	
NTP-008		DLP-503		DLP-538		DLP-573		DLP-608		DLP-643	
NTP-009		DLP-504		DLP-539		DLP-574		DLP-609		DLP-644	
NTP-010		DLP-505		DLP-540		DLP-575		DLP-610		DLP-645	
NTP-011		DLP-506		DLP-541		DLP-576		DLP-611		DLP-646	
NTP-012		DLP-507		DLP-542		DLP-577		DLP-612		DLP-647	
NTP-013		DLP-508		DLP-543		DLP-578		DLP-613		DLP-648	
NTP-014		DLP-509		DLP-544		DLP-579		DLP-614		● DLP-649	
NTP-015		DLP-510		DLP-545		DLP-580		DLP-615		● DLP-650	
NTP-016		DLP-511		DLP-546		DLP-581		DLP-616		● CKL-891	
NTP-017		DLP-512		DLP-547		DLP-582		DLP-617		TNG-893	
NTP-018		DLP-513		DLP-548		DLP-583		DLP-618			
NTP-019		DLP-514		DLP-549		DLP-584		DLP-619			
NTP-020		DLP-515		DLP-550		DLP-585		DLP-620			
NTP-021		DLP-516		DLP-551		DLP-586		DLP-621			
NTP-022		DLP-517		DLP-552		DLP-587		DLP-622			
NTP-023		DLP-518		DLP-553		DLP-588		DLP-623			
NTP-024		DLP-519		DLP-554		DLP-589		DLP-624			
NTP-025		DLP-520		DLP-555		DLP-590		DLP-625			
NTP-026		DLP-521		DLP-556		DLP-591		DLP-626			
● NTP-027		DLP-522		DLP-557		DLP-592		DLP-627			
NTP-028		DLP-523		DLP-558		DLP-593		DLP-628			
NTP-029		DLP-524		DLP-559		DLP-594		DLP-629			
NTP-030		DLP-525		DLP-560		DLP-595		DLP-630			
NTP-031		DLP-526		DLP-561		DLP-596		DLP-631			
NTP-032		DLP-527		DLP-562		DLP-597		DLP-632			
NTP-033		DLP-528		DLP-563		DLP-598		DLP-633			
● NTP-034		DLP-529		DLP-564		DLP-599		DLP-634			
NTP-035		DLP-530		DLP-565		DLP-600		DLP-635			

● REVISED OR ADDED ITEM   □ CANCELED ITEM   Revised   **Issue 1** | **JAN 2000**

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