Lucent Technologies
Bell Labs Innovations

4ESS™ Switch

3B21D Attached Processor System (APS) Growth

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Issue 2
March 1999

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Document Title: ***4ESS***™ Switch 3B21D Attached Processor System (APS) Growth

Document No.: 234-353-425 Issue 2 Date: March 1999

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TASK INDEX LIST

Acceptance

Acceptance tests are not required for verification of the growth procedures contained in this volume. The readiness of a frame or a unit to become part of the operating system is established by the successful completion of the particular procedure in its entirety.

Add Synchronous Data Link Controller (SDLC) to Input/Output Processor (IOP)

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	GENERAL WARNING AND NOTES WHEN ADDING SYNCHRONOUS DATA LINK CONTROLLER (SDLC) TO INPUT/OUTPUT PROCESSOR (IOP) ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service. 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity. 3. This procedure contains a soak interval 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. 4. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	**Place a check mark by each step when completed.**	TELCO	—
2	Verify 3B21D Attached Processor System (APS) system status.	TELCO	DLP-530
3	Obtain Growth Synchronous Data Link Controller (SDLC) Unit Name and Number from ED4A220-20 for 3B21D computer.	TELCO	—
4	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
	ENSURE CLEAN FILE SYSTEM		
5	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
6	Run file system audits to ensure no file system errors.	TELCO	DLP-531
7	Update backup data base.	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	GROW SDLC TO IOP		
8	At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter 115 in command mode to obtain the SDL Controllers Page.	TELCO	—
9	Verify display page 115 shows Growth SDLC **UNEQ**.	TELCO	—
10	Verify Unit Control Block (UCB) data for Growth SDLC.	TELCO	DLP-500
11	Notify users that are on growth associated IOP that IOP will be temporarily powered down.	TELCO	—
12	If AMA option for office is Teleprocessing, at 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE!** to ensure teleprocessing session is not in progress. Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
13	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—
14	Remove from service and power down the IOP associated with the growth SDLC.	TELCO	DLP-503
15	Using the table in DLP-545, at the 3B21D cabinet, insert the growth SDLC circuit pack (UN582).	TELCO	DLP-545
16	Using the table in DLP-545, at the 3B21D cabinet, insert the main fuse associated with the growth SDLC in the 3B21D fuse panel.	TELCO	DLP-545
17	Power up and restore to service the IOP associated with the growth SDLC.	TELCO	DLP-504

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
18	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** to allow an AMA session to start. where: a = IC or OC Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
19	Notify users that are on growth associated IOP to resume their activities.	TELCO	—
20	Recent change growth SDLC from UNEQIP to GROW.	TELCO	DLP-505
21	At 3B21D APS MCRT, depress **NORM/DISP** (**PF2**) key and enter 115 in command mode to obtain the SDL Controllers Page.	TELCO	—
22	Verify display page 115 shows growth SDLC **GROW**.	TELCO	—
23	At 3B21D APS MCRT, enter message **DGN:SDLC a;RAW!** to diagnose the growth SDLC. Response: **DGN SDLC a TASK x MESSAGE STARTED** **RMV SDLC a STOPPED X'9** **DGN SDLC a PH 1 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 2 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 3 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 4 ATP MESSAGE IN PROGRESS** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = Growth SDLC	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
24	Recent change growth SDLC from GROW to OOS.	TELCO	DLP-506
25	AT 3B21D APS MCRT, verify display page 115 shows growth SDLC **OOS**.	TELCO	—
26	At 3B21D APS MCRT, enter message **RST:SDLC a!** to restore growth SDLC to service. Response: **RST SDLC a TASK x MESSAGE STARTED** **RMV SDLC a STOPPED X'5** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC a COMPLETED** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = Growth SDLC	TELCO	—
27	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
28	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
29	Soak growth SDLC for 12 hours to ensure no problems exist with system operation after growth.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
	RUN SYSTEM AUDITS AND WRITE BACKUP TAPES		
30	Run file system audits to ensure no file system errors.	TELCO	DLP-531
31	Update backup data base.	TELCO	DLP-522
32	Write 3B21D APS backup tapes.	TELCO	DLP-528
33	Verify backup tapes.	TELCO	DLP-529

Add Synchronous Data Link (SDL) to Input/Output Processor (IOP)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE The data set and transmission facility associated with the Growth Synchronous Data Link (SDL) must be installed and tested.		
	GENERAL WARNING AND NOTES WHEN ADDING SYNCHRONOUS DATA LINK (SDL) TO INPUT/OUTPUT PROCESSOR (IOP) ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service. 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity. 3. This procedure contains a soak interval 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. 4. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	**Place a check mark by each step when completed.**	TELCO	—
2	Verify 3B21D APS system status.	TELCO	DLP-530
3	Obtain Growth Synchronous Data Link (SDL) unit name and number from ED4A220-20 for 3B21D computer.	TELCO	—
4	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
	ENSURE CLEAN FILE SYSTEM		
5	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
6	Run file system audits to ensure no file system errors.	TELCO	DLP-531
7	Update backup data base.	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
	GROW SDL TO IOP		
8	At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter 114 in command mode to obtain the Applications Data Link Display Page.	TELCO	—
9	Verify display page 114 shows Growth SDL **UNEQ**.	TELCO	—
10	Verify Unit Control Block (UCB) data for Growth SDL. (Do not exit recent change after verification.)	TELCO	DLP-500
11	Verify communication protocol option block data for Growth SDL.	TELCO	DLP-501
12	At 3B21D APS MCRT, enter message **DGN:SDLC a;RAW!** to diagnose the SDLC associated with the Growth SDL. Response: **DGN SDLC a TASK 2 MESSAGE STARTED** **RMV SDLC a COMPLETED** **DGN SDLC a PH 1 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 2 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 3 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 4 ATP MESSAGE IN PROGRESS** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = Growth SDLC	TELCO	—
13	Notify users that are on the growth associated IOP that the IOP will be temporarily powered down.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
14	If AMA option for office is Teleprocessing, at 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE!** to ensure teleprocessing session is not in progress. Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
15	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—
16	At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter 102 in command mode to obtain display page 102.	TELCO	—
17	Remove from service and power down the IOP associated with the growth SDL.	TELCO	DLP-503
18	Remove power from data set.	TELCO	—
19	Connect cables between data set and growth SDL.	TELCO	—
20	Power up and restore to service the IOP associated with the growth SDL.	TELCO	DLP-504

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
21	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** to allow an AMA session to start. where: a = IC or OC Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
22	Notify users that are on growth associated IOP to resume their activities.	TELCO	—
23	At 3B21D APS MCRT, enter message **RMV:SDLC a!** to remove from service the SDLC associated with the Growth SDL. Response: **RMV SDLC a TASK 3 MESSAGE STARTED** **RMV SDLC a COMPLETED**	TELCO	—
24	Recent change growth SDL from UNEQIP to GROW.	TELCO	DLP-505
25	At 3B21D APS MCRT, depress **NORM/DISP** (**PF2**) key and enter 114 in command mode to obtain Applications Data Link Display Page.	TELCO	—
26	Verify display page 114 shows growth SDL **GROW**.	TELCO	—
27	Restore power to data set.	TELCO	—
28	At 3B21D APS MCRT, enter message **DGN:SDLC a;RAW!** to diagnose the SDLC associated with the growth SDL. Response: **DGN SDLC a TASK 2 MESSAGE STARTED** **RMV SDLC a COMPLETED** **DGN SDLC a PH 1 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 2 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 3 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 4 ATP MESSAGE IN PROGRESS** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = Growth SDLC	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
29	Recent change growth SDL from GROW to OOS.	TELCO	DLP-506
30	AT 3B21D APS MCRT, verify display page 114 shows growth SDL **OOS**.	TELCO	—
31	At 3B21D APS MCRT, enter message **RST:SDLC a!** to restore growth SDLC to service. ***Note:*** Growth SDL will be restored to service. Response: **RST SDLC a TASK 3 MESSAGE STARTED** **RMV SDLC a STOPPED X'5** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC a COMPLETED** **RST SDL b COMPLETED** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = Growth SDLC b = Growth SDL	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
32	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
33	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
34	Soak growth SDL for 12 hours to ensure no problems exist with system operation after growth.	TELCO	—
	RUN SYSTEM AUDITS AND WRITE BACKUP TAPES		
35	Run file system audits to ensure no file system errors.	TELCO	DLP-531
36	Update backup data base.	TELCO	DLP-522
37	Write 3B21D APS backup tapes.	TELCO	DLP-528
38	Verify backup tapes.	TELCO	DLP-529

Convert From 3B21D Computer AMA Tape to 3B21D Computer AMA Teleprocessing

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE The following NTPs must have been completed: • NTP-003 (Grow SDLC) • NTP-004 (Grow SDL).		
	GENERAL WARNING AND NOTES WHEN CONVERTING 3B21D AMA TAPE TO 3B21D AMA TELEPROCESSING ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. AMA data should be transferred prior to start of growth activity. 2. SDLC 10 and SDL 20 are associated with OC stream. SDLC 11 and SDL 22 are associated with IC stream. 3. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
1	**Place a check mark by each step when completed.**	TELCO	—
2	At 3B21D APS MCRT, enter message **RST:SDLC 10!** to diagnose SDLC 10 and SDL 20. Response: **RST SDLC 10 TASK x MESSAGE STARTED** **RMV SDL 20 COMPLETED** **RMV SDLC 10 COMPLETED** **DGN SDLC 10 COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC 10 COMPLETED** **RST SDL 20 COMPLETED** **DGN SDLC 10 ATP MESSAGE COMPLETE** ATP required for SDLC 10 and SDL 20.	TELCO	—
3	At 3B21D APS MCRT, enter message **RST:SDLC 11!** to diagnose SDLC 11 and SDL 22. Response: **RST SDLC 11 TASK x MESSAGE STARTED** **RMV SDL 22 COMPLETED** **RMV SDLC 11 COMPLETED** **DGN SDLC 11 COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC 11 COMPLETED** **RST SDL 22 COMPLETED** **DGN SDLC 11 ATP MESSAGE COMPLETE** ATP required for SDLC 11 and SDL 22.	TELCO	—
4	If IC AMA data is to be collected, go to next step. If IC AMA data is NOT to be collected, go to Step 7.	TELCO	—
5	Define office-dependent data for IC Stream on 3B21D computer.	TELCO	DLP-508
6	Verify AMA processes for IC Stream are running.	TELCO	DLP-509
7	Request Host Collector (HOC) (Network Recording Management) to poll for 100 test files. Wait for normal termination output message approximately 9 minutes if 4800 bps or 5 minutes if 9600 bps after polling starts. ***Note:*** If problems occur during polling and problems cannot be corrected before old scheduled AMA tape write, AMA must be switched back to 3B21D computer tape.	TELCO	DLP-513
8	If OC AMA data is to be collected, go to next step. If OC AMA data is NOT to be collected, go to Step 11.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
9	Define office-dependent data for OC stream on 3B21D computer.	TELCO	DLP-508
10	Verify AMA processes for OC stream are running.	TELCO	DLP-509
11	Request HOC (Network Recording Management) to poll for 100 test files. Wait for normal termination output message approximately 9 minutes if 4800 bps or 5 minutes if 9600 bps after polling starts. ***Note:*** If problems occur during polling and problems cannot be corrected before old scheduled AMA tape write, AMA must be switched back to 3B21D computer tape.	TELCO	DLP-513
12	If IC AMA data is to be collected, request demand poll from HOC (Network Recording Management) for IC AMA data and wait for normal termination output message after AMA session. Ensure that normal termination output message indicates 0 percent disk occupancy and one or more AMA blocks were transmitted.	TELCO	DLP-516
13	If OC AMA data is to be collected, request poll from HOC (Network Recording Management) for OC AMA data and wait for normal termination output message after AMA session. Ensure that normal termination output message indicates 0 percent disk occupancy and one or more AMA blocks were transmitted.	TELCO	DLP-516

Add TTYC to Input/Output Processor (IOP)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNING AND NOTES WHEN ADDING TTYC TO INPUT/OUTPUT PROCESSOR (IOP) ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service. 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity. 3. This procedure contains a soak interval 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. 4. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	**Place a check mark by each step when completed.**	TELCO	—
2	Verify 3B21D APS system status.	TELCO	DLP-530
3	Obtain Growth TTYC Unit Name and Number from ED4A220-20 for 3B21D computer.	TELCO	—
4	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
	ENSURE CLEAN FILE SYSTEM		
5	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
6	Run file system audits to ensure no file system errors.	TELCO	DLP-531
7	Update backup data base.	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	GROW TTYC TO IOP		
8	At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter 116 in command mode to obtain the TTY Controllers Display Page.	TELCO	—
9	Verify display page 116 shows Growth TTYC **UNEQ**.	TELCO	—
10	Verify Unit Control Block (UCB) data for Growth TTYC.	TELCO	DLP-500
11	Notify users that are on growth associated IOP that IOP will be temporarily powered down.	TELCO	—
12	If AMA option for office is Teleprocessing, at 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE!** to ensure teleprocessing session is not in progress. Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
13	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—
14	Remove from service and power down the IOP associated with the growth TTYC.	TELCO	DLP-503
15	At the 3B21D cabinet, insert the growth TTYC circuit pack (UN582).	TELCO	DLP-546
16	At the 3B21D cabinet, insert the main fuse associated with the growth TTYC in the 3B21D fuse panel.	TELCO	DLP-546
17	Power up and restore to service the IOP associated with the growth TTYC.	TELCO	DLP-504

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
18	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** to allow an AMA session to start. where: a = IC or OC Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
19	Notify users that are on growth associated IOP to resume their activities.	TELCO	—
20	Recent change growth TTYC from UNEQIP to GROW.	TELCO	DLP-505
21	At 3B21D APS MCRT, depress **NORM/DISP** (**PF2**) key and enter 116 in command mode to obtain the TTY Controllers Display Page.	TELCO	—
22	Verify display page 116 shows growth TTYC **GROW**.	TELCO	—
23	At 3B21D APS MCRT, enter message **DGN:TTYC a;RAW!** to diagnose the growth TTYC. Response: **DGN TTYC a TASK x MESSAGE STARTED** **RMV TTYC a STOPPED X'9** **DGN TTYC a PH 1 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 2 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 3 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 4 ATP MESSAGE IN PROGRESS** **DGN TTYC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN TTYC a ATP MESSAGE COMPLETE** where: a = Growth TTYC	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
24	Recent change growth TTYC from GROW to OOS.	TELCO	DLP-506
25	AT 3B21D APS MCRT, verify display page 116 shows growth TTYC **OOS**.	TELCO	—
26	At 3B21D APS MCRT, enter message **RST:TTYC a!** to restore growth TTYC to service. Response: **RST TTYC a TASK x MESSAGE STARTED** **RMV TTYC a STOPPED X'5** **DGN TTYC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN TTYC a ATP MESSAGE COMPLETE** RST TTYC a COMPLETED where: a = Growth TTYC	TELCO	—
27	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
28	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
29	Soak growth TTYC for 12 hours to ensure no problems exist with system operation after growth.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
	RUN SYSTEM AUDITS AND WRITE BACKUP TAPES		
30	Run file system audits to ensure no file system errors.	TELCO	DLP-531
31	Update backup data base.	TELCO	DLP-522
32	Write 3B21D APS backup tapes.	TELCO	DLP-528
33	Verify backup tapes.	TELCO	DLP-529

Add TTY to Input/Output Processor (IOP)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE The data set and transmission facility associated with the Growth TTY must be installed and tested.		
	GENERAL WARNING AND NOTES WHEN ADDING TTY TO INPUT/OUTPUT PROCESSOR (IOP) ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service. 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity. 3. This procedure contains a soak interval 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. 4. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	**Place a check mark by each step when completed.**	TELCO	—
2	Verify 3B21D APS system status.	TELCO	DLP-530
3	Obtain Growth TTY unit name and number from ED4A220-20 for 3B21D computer.	TELCO	—
4	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
	ENSURE CLEAN FILE SYSTEM		
5	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
6	Run file system audits to ensure no file system errors.	TELCO	DLP-531
7	Update backup data base.	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
	GROW TTY TO IOP		
8	At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter 114 in command mode to obtain the Application Data Link Display Page.	TELCO	—
9	Verify display page 114 shows Growth TTY **UNEQ**.	TELCO	—
10	Verify Unit Control Block (UCB) data for Growth TTY. (Do not exit recent change after verification.)	TELCO	DLP-500
11	Verify option block data for Growth TTY.	TELCO	DLP-514
12	At 3B21D APS MCRT, enter message **DGN:TTYC a;RAW!** to diagnose the TTYC associated with the Growth TTY. Response: **DGN TTYC a TASK 2 MESSAGE STARTED** **RMV TTYC a COMPLETED** **DGN TTYC a PH 1 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 2 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 3 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 4 ATP MESSAGE IN PROGRESS** **DGN TTYC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN TTYC a ATP MESSAGE COMPLETE** where: a = Growth TTYC	TELCO	—
13	Notify users that are on the growth associated IOP that the IOP will be temporarily powered down.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	If AMA option for office is Teleprocessing, at 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE!** to ensure teleprocessing session is not in progress. Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
15	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—
16	Remove from service and power down the IOP associated with the growth TTY.	TELCO	DLP-503
17	If data set is required, remove power from data set.	TELCO	—
18	If data set is required, connect cables between data set and growth TTY.	TELCO	—
19	Power up and restore to service the IOP associated with the growth TTY.	TELCO	DLP-504

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
20	If AMA option for office is Teleprocessing, at the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** to allow an AMA session to start. where: a = IC ot OC Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
21	Notify users that are on growth associated IOP to resume their activities.	TELCO	—
22	At 3B21D APS MCRT, enter message **RMV:TTYC a!** to remove from service the TTYC associated with the Growth TTY. Response: **RMV TTYC a TASK x MESSAGE STARTED** **RMV TTYC a COMPLETED**	TELCO	—
23	Recent change growth TTY from UNEQIP to GROW.	TELCO	DLP-505
24	At 3B21D APS MCRT, depress **NORM/DISP** (**PF2**) key and enter 114 in command mode to obtain the Application Data Link Display Page.	TELCO	—
25	Verify display page 114 shows growth TTY **GROW**.	TELCO	—
26	If data set is required, restore power to data set.	TELCO	—
27	At 3B21D APS MCRT, enter message **DGN:TTYC a;RAW!** to diagnose the TTYC associated with the growth TTY. Response: **DGN TTYC a TASK 2 MESSAGE STARTED** **RMV TTYC a COMPLETED** **RMV TTY b COMPLETED** **DGN TTYC a PH 1 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 2 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 3 ATP MESSAGE IN PROGRESS** **DGN TTYC a PH 4 ATP MESSAGE IN PROGRESS** **DGN TTYC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN TTYC a ATP MESSAGE COMPLETE** where: a = Growth TTYC b = TTY associated with TTYC	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
28	Recent change growth TTY from GROW to OOS.	TELCO	DLP-506
29	AT 3B21D APS MCRT, verify display page 114 shows growth TTY **OOS**.	TELCO	—
30	At 3B21D APS MCRT, enter message **RST:TTYC a!** to restore TTYC associated with the growth TTY to service. ***Note:*** Growth TTY will be restored to service. Response: **RST TTYC a TASK x MESSAGE STARTED** **RMV TTYC a STOPPED X'5** **DGN TTYC a COMPLETED ATP MESSAGE IN PROGRESS** **RST TTYC a COMPLETED** **RST TTY b COMPLETED** **DGN TTYC a ATP MESSAGE COMPLETE** where: a = Growth TTYC b = TTY associated with TTYC	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
31	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
32	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
33	Soak growth TTY for 12 hours to ensure no problems exist with system operation after growth.	TELCO	—
	RUN SYSTEM AUDITS AND WRITE BACKUP TAPES		
34	Run file system audits to ensure no file system errors.	TELCO	DLP-531
35	Update backup data base.	TELCO	DLP-522
36	Write 3B21D APS backup tapes.	TELCO	DLP-528
37	Verify backup tapes.	TELCO	DLP-529

Convert 3B21D Computer AMA Teleprocessing From 4800 BPS to 9600 BPS Operation

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE • The Host Collector (HOC) (Network Recording Management) has made necessary changes to poll the office at 9600 bps. • The data set and transmission facility associated with 9600 bps 3B21D Computer AMA teleprocessing conversion are installed and tested.		
	GENERAL WARNING AND NOTES WHEN CONVERTING 3B21D COMPUTER AMA TELEPROCESSING FROM 4800 BPS TO 9600 BPS. ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. If teleprocessing is scheduled while this procedure is to be performed, the teleprocessing start and stop times must be redefined or AMA session must be inhibited. 2. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service. 3. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity. 4. SDLC 10 and SDL 20 are associated with OC stream. SDLC 11 and SDL 22 are associated with IC stream. 5. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
1	**Place a check mark by each step when completed.**	TELCO	—
2	Verify 3B21D APS system status.	TELCO	DLP-530
3	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
	ENSURE CLEAN FILE SYSTEM		
4	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
5	Run file system audits to ensure no file system errors.	TELCO	DLP-531
6	Update backup data base.	TELCO	DLP-522
	GROW TELEPROCESSING DATA SET		
7	At 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE!** to ensure teleprocessing session is not in progress. Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
8	At the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
9	Change communication protocol option block to convert synchronous data link (SDL) 20 or 22 to 9600 bps operation.	TELCO	DLP-517
10	Notify users on IOP associated with SDL 20 or 22 that IOP will be temporarily powered down.	TELCO	—
11	Remove from service and power down the IOP associated with SDL 20 or 22.	TELCO	DLP-503
12	Remove power from data sets associated with 4800 bps and 9600 bps AMA teleprocessing.	TELCO	—
13	Disconnect cables from 4800 bps AMA teleprocessing data set and connect to 9600 bps AMA teleprocessing data set.	TELCO	—
14	Restore power to 9600 bps AMA teleprocessing data set.	TELCO	—
15	Power up and resore to service the IOP associated with SDL 20 or 22.	TELCO	DLP-504
16	Notify users that are on IOP associated with SDL 20 or 22 to resume their activities.	TELCO	—
17	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
	RUN SYSTEM AUDITS AND WRITE BACKUP TAPES		
18	Run file system audits to ensure no file system errors.	TELCO	DLP-531
19	Update backup data base.	TELCO	DLP-522
20	Write 3B21D computer backup tapes.	TELCO	DLP-528
21	Verify backup tapes.	TELCO	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	TEST IC OR OC AMA STREAM		
22	Request from HOC (Network Recording Management) the start and stop times for IC or OC streams. These times designate when polling to office can be performed to test the conversion.	TELCO	—
23	At 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE:a!** (a = IC or OC) for stream to be equipped and determine if start and stop times (Step 22) are within start and stop times defined for office. Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x where a = **IC** or **OC** b = Office defined teleprocessing start time c = Office defined teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don't care	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
24	Complete this step if start and stop times for the office need to be redefined. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:START (b),STOP (c)!** using requested HOC (Network Recording Mgmt) times for IC/OC streams. where a = **IC** or **OC** b = New start time (hh,mm) c = New stop time (hh,mm) Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x where a = **IC** or **OC** b = Teleprocessing start time c = Teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don't care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
25	At the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** (a = IC or OC) for stream to be equipped. Verify that data transfer IS NOT manually inhibited. Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
26	If IC AMA data is to be collected, request demand poll from HOC (Network Recording Management) for IC AMA data and wait for normal termination output message after AMA session. Ensure that normal termination output message indicates 0% disk occupancy and one or more AMA blocks were transmitted.	TELCO	DLP-516
27	If OC AMA data is to be collected, request demand poll from HOC (Network Recording Management) for OC AMA data and wait for normal termination output message after AMA session. Ensure that normal termination output message indicates 0% disk occupancy and one or more AMA blocks were transmitted.	TELCO	DLP-516

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
28	Complete this step if start and stop times for the office were redefined in Step 24. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:START (b),STOP (c)!** using original office times for stream redefined. where a = **IC** or **OC** b = Original office start time (hh,mm) c = Original office stop time (hh,mm) Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x where a = **IC** or **OC** b = Teleprocessing start time c = Teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don't care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—

Set Up AMA Teleprocessing for 56K Operation

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE • The Host Collector (HOC) (Network Recording Management) has made necessary changes to poll the office at 56K bps. • The HOC (Network Recording Management) has made arrangements to get AMA data other than the 56K bps link if problems occur. • The data set and and transmission facility associated with 56K bps 3B21D computer AMA teleprocessing conversion are installed and tested.		
	GENERAL WARNING AND NOTES WHEN CONVERTING 3B21D COMPUTER AMA TELEPROCESSING TO 56K BPS ***WARNING:*** ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** ***Notes:*** 1. If teleprocessing is scheduled while this procedure is to be performed, the teleprocessing start and stop times must be redefined or AMA session must be inhibited. 2. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service. 3. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity. 4. If problems occur during setup, AMA data collection may have to return to AMA taping (Step 43) or lower speed (Step 47). If returning to AMA taping, ensure that RAO supplied AMA tape is available. 5. SDLC 10 and SDL 20 are associated with OC stream. SDLC 11 and SDL 22 are associated with IC stream.		

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	GENERAL WARNING AND NOTES WHEN CONVERTING 3B21D COMPUTER AMA TELEPROCESSING TO 56K BPS ***Notes:*** 6. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
1	**Place a check mark by each step when completed.**	TELCO	—
2	Verify 3B21D APS system status.	TELCO	DLP-530
3	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
	ENSURE CLEAN FILE SYSTEM		
4	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-507
5	Run file system audits to ensure no file system errors.	TELCO	DLP-531
6	Update backup data base.	TELCO	DLP-522
	GROW TELEPROCESSING DATA SET		
7	At 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE:a!** to ensure teleprocessing session is not in progress. where: a = IC or OC Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
8	At the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting on the stream being changed. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
9	At 3B21D APS MCRT, depress **NORM/DISP** (**PF2**) key and enter **114** in command mode to obtain display Page 114.	TELCO	—
10	Determine equipage state of SDL associated with AMA teleprocessing (20 or 22).	TELCO	—
11	Enter **115** in command mode to obtain display Page 115.	TELCO	—
12	Determine equipage state of SDLC associated with AMA teleprocessing (10 or 11).	TELCO	—
13	Is equipage state for SDL (Step 10) and SDLC (Step 12) UNEQIP? If **YES**, go to Step 16. If **NO**, go to Step 14.	TELCO	—
14	At the 3B21D APS MCRT, enter message **RMV:SDLC a!** to remove from service SDLC (10 or 11). associated with AMA teleprocessing. where: a = 10 or 11 Response: **RMV SDLC a TASK 3 MESSAGE STARTED** **RMV SDLC a COMPLETED**	TELCO	—
15	Degrow SDL (20 or 22) and SDLC (10 or 11) to UNEQIP.	TELCO	DLP-524
16	Change SDL and SDLC Equipment Configuration Data base (ECD) parameters to 56K bps operation.	TELCO	DLP-525
17	Notify users on IOP associated with SDLC 10 or 11 that IOP will be temporarily powered down (IOP 0 for SDLC 10 or IOP1 for SDLC 11).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
18	Remove from service and power down the IOP associated with the SDLC in Step 17.	TELCO	DLP-503
19	Remove power from data set associated with 4800 bps or 9600 bps AMA teleprocessing (if equipped) and from 56K bps data set.	TELCO	—
20	Disconnect old data set cables (if equipped) and connect new 56K bps cables (see ED4A220-20). If data set is RS449, the connectorized location for SDLC 10 (OC) is 19-138-132 and 19-138-145; the connectorized location for SDLC 11 (IC) is 45-138-132 and 45-138-145. If data set is RS232, the connectorized location for SDLC 10 (OC) is 19-138-132 only; the connectorized location for SDLC 11 (IC) is 45-138-132 only.	TELCO	—
21	Restore power to 56K bps AMA teleprocessing data set.	TELCO	—
22	Power up and restore to service the IOP associated with the SDLC in Step 17.	TELCO	DLP-504
23	Notify users on IOP associated with SDLC 10 or11 to resume their activities.	TELCO	—
24	Recent change SDLC (10 or 11) and SDL (20 or 22) from UNEQIP to GROW.	TELCO	DLP-505

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
25	At the 3B21D APS MCRT, enter message **DGN:SDLC a;RAW!** to diagnose SDLC (10 or 11) where: a = 10 or 11 Response: **DGN SDLC a TASK 2 MESSAGE STARTED** **RMV SDLC a COMPLETED** **DGN SDLC a PH 1 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 2 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 3 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 4 ATP MESSAGE IN PROGRESS** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN SDLC a ATP MESSAGE COMPLETE** ATP required. where: a = 10 or 11	TELCO	—
26	Recent change SDLC (10 or 11) and SDL (20 or 22) from GROW to OOS.	TELCO	DLP-506
27	At the 3B21D APS MCRT, enter message **RST:SDLC a!** to restore SDLC (10 or 11) to service. where: a = 10 or 11 Response: **RST SDLC a TASK 3 MESSAGE STARTED** **RMV SDLC a STOPPED X'5** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC a COMPLETED** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = 10 or 11	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
28	Is AMA stream being changed from 3B21D computer AMA tape? If **YES**, go to Step 29. If **NO**, go to Step 31.	TELCO	—
29	Define office-dependent data.	TELCO	DLP-526
30	Verify that AMA processes are running.	TELCO	DLP-509
31	Copy incore ECD to disk.	TELCO	DLP-507
	RUN AUDITS AND BACKUP DATA BASE		
32	Run file system audits to ensure no file system errors.	TELCO	DLP-531
33	Update backup data base.	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	TEST IC OR OC AMA STREAM		
34	Request from HOC (Network Recording Management) the start and stop times for IC or OC streams. These times designate when polling to office can be performed to test the conversion.	TELCO	—
35	At 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE:a!** (a = IC or OC) for stream changed and determine if start and stop times (Step 34) are within start and stop times defined for office. Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x where a = **IC** or **OC** b = Office defined teleprocessing start time c = Office defined teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don't care	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
36	Complete this step if start and stop times for the office need to be redefined. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:START (b),STOP (c)!** using requested HOC (Network Recording Management) times for IC or OC streams. a = **IC** or **OC** b = New start time (hh,mm) c = New stop time (hh,mm) Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x a = **IC** or **OC** b = Teleprocessing start time c = Teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don’t care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
37	At the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** (a = IC or OC) for stream changed Verify that data transfer IS NOT manually inhibited. Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
38	If IC AMA data is to be collected, request demand poll from HOC (Network Recording Management) for IC AMA data and wait for normal termination output message after AMA session. Ensure that normal termination output message indicates 0 percent disk occupancy and one or more AMA blocks were transmitted.	TELCO	DLP-516
39	If OC AMA data is to be collected, request demand poll from HOC (Network Recording Management) for OC AMA data and wait for normal termination output message after AMA session. Ensure that normal termination output message indicates 0 percent disk occupancy and one or more AMA blocks were transmitted.	TELCO	DLP-516

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
40	Complete this step if start and stop times for the office were redefined in Step 36. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:START (b),STOP (c)!** using original office times for stream redefined. where a = **IC** or **OC** b = Original office start time (hh,mm) c = Original office stop time (hh,mm) Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x where a = **IC** or **OC** b = Teleprocessing start time c = Teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don't care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
41	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
42	Does AMA data collection need to be returned to AMA taping or a lower speed due to problems that occurred during setup? If **YES**, go to Step 43. If **NO**, go to Step 73.	TELCO	—
	AMA DATA COLLECTION RETURNED TO AMA TAPING		
43	Does AMA data collection need to be returned to AMA taping? If **YES**, go to Step 44. If **NO**, go to Step 47.	TELCO	—
44	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
45	Define office-dependent data.	TELCO	DLP-510
46	Collect AMA data on tape per local practice until problems are resolved.	TELCO	—
	AMA DATA COLLECTION RETURNED TO LOWER SPEED		
47	Does AMA data collection need to be returned to lower speed? If **YES**, go to Step 48. If **NO**, go to Step 73.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
48	At 3B21D APS MCRT, enter message **OP:AMA;CONTROLFILE:a!** to ensure teleprocessing session is not in progress. where: a = IC or OC Response: **TELEPROCESSING SESSION IS NOT IN PROGRESS**	TELCO	—
49	At the 3B21D APS MCRT, enter message **INH:AMA;SESSION:a!** to inhibit an AMA session from starting on the stream being changed. where: a = IC or OC Response: **DATA TRANSFER IS MANUALLY INHIBITED**	TELCO	—
50	At the 3B21D APS MCRT, enter message **RMV:SDLC a!** to remove from service SDLC (10 or 11) associated with AMA teleprocessing. where: a = 10 or 11 Response: **RMV SDLC a TASK 3 MESSAGE STARTED** **RMV SDLC a COMPLETED**	TELCO	—
51	Degrow SDL (20 or 22) and SDLC (10 or 11) to UNEQIP.	TELCO	DLP-524
52	Change SDL and SDLC Equipment Configuration Data base (ECD) parameters to 4800 bps or 9600 bps operation.	TELCO	DLP-527
53	Notify users on IOP associated with SDLC 10 or 11 that IOP will be temporarily powered down (IOP 0 for SDLC 10 or IOP1 for SDLC 11).	TELCO	—
54	Remove from service and power down the IOP associated with the SDLC in Step 53.	TELCO	DLP-503

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
55	Remove power from data set associated with 56K bps AMA teleprocessing.	TELCO	—
56	Disconnect 56K bps data set cables and connect 4800 bps or 9600 bps data set cables (if required). If data set is RS449, the connectorized location for SDLC 10 (OC) is 19-138-132 and 19-138-145; the connectorized location for SDLC 11 (IC) is 45-138-132 and 45-138-145. If data set is RS232, the connectorized location for SDLC 10 (OC) is 19-138-132 only; the connectorized location for SDLC 11 (IC) is 45-138-132 only.	TELCO	—
57	Restore power to 4800 bps or 9600 bps AMA teleprocessing data set.	TELCO	—
58	Power up and restore to service the IOP associated with the SDLC in Step 53.	TELCO	DLP-504
59	Notify users on IOP associated with SDLC 10 or 11 to resume their activities.	TELCO	—
60	Recent change SDLC (10 or 11) and SDL (20 or 22) from UNEQIP to GROW.	TELCO	DLP-505

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
61	At the 3B21D APS MCRT, enter message **DGN:SDLC a;RAW!** to diagnose SDLC (10 or 11). where: a = 10 or 11 Response: **DGN SDLC a TASK 2 MESSAGE STARTED** **RMV SDLC a COMPLETED** **DGN SDLC a PH 1 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 2 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 3 ATP MESSAGE IN PROGRESS** **DGN SDLC a PH 4 ATP MESSAGE IN PROGRESS** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **DGN SDLC a ATP MESSAGE COMPLETE** ATP required. where: a = 10 or 11	TELCO	—
62	Recent change SDLC (10 or 11) and SDL (20 or 22) from GROW to OOS.	TELCO	DLP-506
63	At the 3B21D APS MCRT, enter message **RST:SDLC a!** to restore SDLC (10 or 11) to service. where: a = 10 or 11 Response: **RST SDLC a TASK 3 MESSAGE STARTED** **RMV SDLC a STOPPED X'5** **DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC a COMPLETED** **DGN SDLC a ATP MESSAGE COMPLETE** where: a = 10 or 11	TELCO	—
64	Copy incore ECD to disk.	TELCO	DLP-507
65	Run file system audits to ensure no file system errors.	TELCO	DLP-531
66	Update backup data base.	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
	TEST BACKOUT TO SLOWER SPEED		
67	Complete this step if start and stop times for the office need to be redefined to test backout. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:START (b),STOP (c)!** using new times for IC or OC streams. a = **IC** or **OC** b = New start time (hh,mm) c = New stop time (hh,mm) Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x a = **IC** or **OC** b = Teleprocessing start time c = Teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don't care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
68	Complete this step if password(s) for the office need(s) to be changed. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:HOCPSWD (b),BACKUPSWD (c)!** for IC or OC streams. where a = **IC** or **OC** b = HOC password c = Backup HOC password Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** x **PROCESS STOP TIME** x **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** b **BACKUP HOC PASSWORD** c **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x where a = **IC** or **OC** b = HOC password c = Backup HOC password d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don’t care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
69	At the 3B21D APS MCRT, enter message **ALW:AMA;SESSION:a!** (a = IC or OC) for stream changed Verify that data transfer IS NOT manually inhibited. Response: **DATA TRANSFER IS NOT MANUALLY INHIBITED**	TELCO	—
70	Request test link session from HOC (Network Recording Management) for IC or OC stream. Ensure that normal termination output message is received after test link session.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
71	Complete this step if start and stop times for the office need to be redefined for normal teleprocessing until problems are resolved. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:START (b),STOP (c)!** using original office times for stream redefined. a = **IC** or **OC** b = Office start time (hh,mm) c = Office stop time (hh,mm) Response: **REPT AMA CONTROL FILE FOR** a **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME** b **PROCESS STOP TIME** c **DEFAULT MT FOR AUTO TAPE START** x **AMA OPTION IS TELEPROCESSING** **DATA TRANSFER** d **MANUALLY INHIBITED** **AMAT PASSWORD 0040**x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **OFFICE TYPE 004** **AUTOMATIC TAPE WRITING** e **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS SHORT** (x) **THE FAST STREAM IS** a **DEFERRED FORMATTING IS ALLOWED** **3B APS RECORDING MODE IS** x a = **IC** or **OC** b = Teleprocessing start time c = Teleprocessing stop time d = **IS** (if AMA session is inhibited) or **IS NOT** (if AMA session is allowed) e = **IS** (if tape writing is inhibited) or **IS NOT** (if tape writing is allowed) x = Don’t care	TELCO	DLP-519

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
72	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ ENABLED xxx** (for each of the above messages)	TELCO	—
	WRITE AND VERIFY 3B21D COMPUTER BACKUP TAPES		
73	Write 3B21D computer backup tapes.	TELCO	DLP-528
74	Verify backup tapes.	TELCO	DLP-529

Convert NEMOS Links to 56K Operation - For AT&T Only - Support to Installer (INST)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE • The customer's Datalink Coordinator (NSDNet) has verified that the existing 9.6Kbps links on SDL 28 and SDL 30 are operating satisfactorily. There are no reports of path failures within the last 24 hours on any of the current 9.6Kbps datapaths to SDL 28 and SDL 30. ***Note:*** There may be partial loss of data on certain paths due to congestion. The reason for converting to 56Kbps links, is to relieve the congestion on the current links. • ***4ESS***™ Switch must be equipped with the Call Detail Recording Platform (CDRP). • The **ED4A104-30**, **G216** and **G217** cables have been run from the 3B21D APS to the modem eliminators being used for NET C and NET D. • The -48V DC power cables have been run from the power distribution frame to the modem eliminators being used for NET C and NET D.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNING AND NOTES WHEN CONVERTING NEMOS LINKS TO 56K OPERATION ***WARNING:*** 1. ***An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing circuit packs or backplane cables.*** 2. ***No other growth or maintenance activity is allowed during this procedure.*** 3. ***No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.*** ***Notes:*** 1. The 3B21D APS must be operating on the ***4ESS***™ Switch. 2. ***4ESS***™ Switch must be running on 4E24 or later generic and the 3B21D APS must be running on 4AP17 or later generic. 3. This procedure must be performed during light traffic periods. 4. A copy of the current generic load must be available on tape. Local procedures for loading disk from tape should be reviewed before starting this procedure. 5. When an input message creates a printout of several message responses, the order of the printed message responses may be different from what is shown in the procedure due to message spooling. 6. 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. 7. All 3B21D poke commands are entered on the command line. All 3B21D input messages are entered on the message line. The **CMD/MSG** key is used to position the cursor at the proper line.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	**Place a check mark by each step when completed.**	TELCO	—
2	If the 4ESS Switch is running on the 4E24R1 generic, request the next higher support organization to apply the required BWM for the NEMOS link conversion. If the required BWM for the NEMOS link conversion has already been applied, continue with next step.	TELCO	—
3	Contact NSDNET at 1-800-232-6717 and verify that NET C and NET D *Datakit*® databases have been built per Project Number #981828 and per 4ESS DWAN connectivity standard NE0004. ***Note:*** Steps 4 through 51 can be performed while waiting for verification from NSDNET that NET C and NET D *Datakit* databases have been built. Do not proceed past Step 51 until verification from NSDNET has been received.	TELCO	—
4	At 3B21D APS MCRT, verify that CDRP is active in the 4ESS Switch. (**OP:AMA;CONTROLFILE!**)	TELCO	DLP-555
5	If the last line of the IC STREAM report from Step 4 indicates the 3B APS Recording Mode is **CDRP**, then continue with the next step. If the 3B APS Recording Modes is NOT **CDRP**, contact NESAC for further assistance. Do NOT continue with this procedure. Office must be operating on CDRP before continuing with this procedure.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
	INSTALLATION AND SETUP OF MODEM ELIMINATORS		
6	At MPC 15-1, ensure **TSM-T1** circuit pack and **AWJ24** I/O circuit pack are installed in MPC 15-1, slot 9. If **TSM-T1** and **AWJ24** circuit packs are not installed in MPC 15-1, slot 9, continue with Step 7. Otherwise, if **TSM-T1** and **AWJ24** circuit packs are installed in MPC 15-1, slot 9, go to Step 9.	INST/TELCO	—
7	At the rear of the MPC 15-1, if **AWJ24** I/O panel is not installed in MPC 15-1, slot 9, install the **AWJ24** I/O panel in MPC 15-1, slot 9.	INST	—
8	At MPC 15-1, if **TSM-T1** circuit pack is not installed in MPC 15-1, slot 9, install **TSM-T1** circuit pack in MPC 15-1, slot 9.	INST	—
9	At the rear of the MPC 15-1, connect the base connector of the **G222** cable into **J2** of the **TSM-T1/AWJ24** circuit pack in Slot 9 (see Figure 1 in DLP-554). Tag this cable as **NET D/Modem Eliminator 1**.	INST	DLP-554
10	At MPC 15 Patch Panel frame, install modem eliminator shelf per the TEO.	INST	—
11	At rear of MPC 15 Patch Panel frame, install cable bracket and wire guide per the TEO.	INST	—
12	Unpack two new stand alone modem eliminators, power cables with connector attached at one end, and user manuals.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
13	Ensure internal DIP switch **5** on each of the two new modem eliminators is set to **ON**. Ensure all other internal DIP switches on the two new modem eliminators are set to **OFF**. (See Figures 2 and 3 in DLP-554.) ***WARNING: The internal dip switches must be set correctly.* OFF *is in the direction of the* OFF *arrow. Dip switches 1-4,6-8 must be set in the direction of the* OFF *arrow.* ON *is in the direction OPPOSITE of the* OFF *arrow. Dip switch 5 must be set in the direction OPPOSITE the* OFF *arrow.*** ***Note:*** The two top screws on each side of the modem eliminator must be removed and the lid lifted off to examine the dip switches.	INST	DLP-554
14	Set these front, external dials and switches on each of the two new modem eliminators: • Left **BAUD** dial to **1** • Right **BAUD** dial to **2** • **DELAY** dial to **0** • **LB** (Loop Back) switch in direction of arrow.	INST	—
15	At the MPC 15 patch panel frame, place the two new modem eliminators on the shelf and label **NET C/Modem Eliminator 0** and **NET D/Modem Eliminator 1**. **NET C/Modem Eliminator 0** is on the left and **NET D/Modem Eliminator 1** is on the right when viewing the shelf from the front of the MPC 15 patch panel frame. (See Figure 4 in DLP-554.)	INST	DLP-554
16	At the power distribution frame, remove fuses for the two new modem eliminators.	INST	—
17	At the MPC 15 patch panel frame, splice power cables from PD frame to the modem eliminator power cables.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
	SDL 20/NET C/Modem Eliminator 0 CONNECTIONS		
18	At the rear of **NET C/Modem Eliminator 0** for SDL 20, plug the DC power cord into the modem eliminator.	INST	—
19	At the rear of **NET C/Modem Eliminator 0** for SDL 20, connect the **G216** cable into **J1** connector (see Figure 5 in DLP-554).	INST	DLP-554
20	At the rear of **NET C/Modem Eliminator 0** for SDL 20, connect the **G170** cable into **J2** connector (see Figure 5 in DLP-554). Tag this cable as MPC 15-0,Slot 9,Port 2.	INST	DLP-554
21	At the unattached end of the **G170** cable (Step 20), insert Plug B of the **G222** adaptor cable (see Figure 5 in DLP-554).	TELCO	DLP-554

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SDL 22/NET D/Modem Eliminator 1 CONNECTIONS		
22	At the rear of **NET D/Modem Eliminator 1** for SDL 22, plug in the DC power cord into the modem eliminator.	INST	—
23	At the rear of **NET D/Modem Eliminator 1** for SDL 22, connect the **G217** cable into **J1** connector (see Figure 6 in DLP-554).	INST	DLP-554
24	At the rear of **NET D/Modem Eliminator 1** for SDL 22, connect the **G170** cable into **J2** connector (see Figure 6 in DLP-554). Tag this cable as MPC 15-1, Slot 9, Port 2.	INST	DLP-554
25	At the unattached end of the **G170** cable (Step 24), insert Plug B of the **G222** adaptor cable (see Figure 6 in DLP-554).	INST	DLP-554
26	***WARNING: Do NOT set the* ENABLE/DISABLE *switch on the* TSM-T1 *circuit pack in MPC 15-0, Slot 9. ODAD is active on port 1 of the* TSM-T1 *circuit pack in MPC 15-0, Slot 9.*** At the front of MPC 15-1, on the **TSM-T1** circuit pack located in slot 9, ensure that the **ENABLE/DISABLE** switch is set to **ENABLE**. Ensure micro-code on **TSM-T1** circuit pack is **MC1D 149A1 1:1** or later.	INST/TELCO	—
27	At the power distribution frame, install fuses for **NET C/Modem Eliminator 0** and **NET D/Modem Eliminator 1**.	INST	—
28	At the MPC 15 patch panel frame, ensure **NET C/Modem Eliminator 0** and **NET D/Modem Eliminator 1** are powered up by observing one and/or all LEDs on the front of the modem eliminators are lit. If one and/or all LEDs are lit on both **NET C/Modem eliminator 0** and **NET D/Modem Eliminator 1**, then go to Step 45. If NO LEDs are lit on either **NET C/Modem Eliminator 0** or **NET D/Modem Eliminator 1**, go to Step 29.	INST/TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	If there are no LEDs lit on **NET C/Modem Eliminator 0**, go to Step 30. If there are LEDs lit on **NET C/Modem Eliminator 0**, go to Step 37.	INST	—
30	At the power distribution frame, remove fuse for **NET C/Modem Eliminator 0**.	INST	—
31	At the rear of **NET C/Modem Eliminator 0**, disconnect the power cord from **NET C/Modem Eliminator 0**.	INST	—
32	At the power distribution frame, install fuse for **NET C/Modem Eliminator 0** power cord.	INST	—
33	At the modem eliminator end of the power cord for **NET C/Modem Eliminator 0**, using a voltmeter, verify that -48V +/- 5V DC is on the power cord. If -48V +/- 5V DC is not received, determine cause and resolve.	INST	—
34	At the power distribution frame, remove fuse for **NET C/Modem Eliminator 0**.	INST	—
35	At the rear of **NET C/Modem Eliminator 0**, plug the DC power cord into the modem eliminator.	INST	—
36	At the power distribution frame, install fuse for **NET C/Modem Eliminator 0**. The modem eliminator will be further tested after **G216** cable is connected to the 3B21D APS.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
37	If there are no LEDs lit on **NET D/Modem Eliminator 1**, go to Step 38. If there are LEDs lit on **NET D/Modem Eliminator 1**, go to Step 45.	INST	—
38	At the power distribution frame, remove fuse for **NET D/Modem Eliminator 1**.	INST	—
39	At the rear of **NET D/Modem Eliminator 1**, disconnect the power cord from **NET D/Modem Eliminator 1**.	INST	—
40	At the power distribution frame, install fuse for **NET D/Modem Eliminator 1** power cord.	INST	—
41	At the modem eliminator end of the power cord for **NET D/Modem Eliminator 1**, using a voltmeter, verify that -48V +/- 5V DC is on the power cord. If -48V +/- 5V DC is not received, determine cause and resolve.	INST	—
42	At the power distribution frame, remove fuse for **NET D/Modem Eliminator 1**.	INST	—
43	At the rear of **NET D/Modem Eliminator 1**, plug the DC power cord into the modem eliminator.	INST	—
44	At the power distribution frame, install fuse for **NET D/Modem Eliminator 1** power cord. The modem eliminator will be further tested after **G217** cable is connected to the 3B21D APS.	INST	—
45	Safe point to stop this procedure. Do not continue beyond Step 45 until the next maintenance window. Continue with Step 46 when resuming this procedure on the following night.	INST/TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	ENSURE CLEAN FILE SYSTEM		
46	The second night's activity, Steps 47 through 107, must be completed during one maintenance window. If for any reason, it is felt that Steps 47 through 107 cannot be completed during one maintenance window, contact NESAC for direction.	TELCO/INST	—
47	Verify 3B21D APS system status.	TELCO/INST	DLP-530
48	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-551
49	Run file system audits to ensure no file system errors.	TELCO	DLP-553
50	Update backup data base.	TELCO	DLP-522
51	This is a safe point to temporarily stop this procedure. Continue at next step when resuming. ***Note:*** Do not proceed past Step 51 until NSDNET verification is received that NET C and NET D *Datakit* databases are built.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	SET SDL 20 AND SDL 22 FOR NET C AND NET D		
52	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
53	At the 3B21D APS cabinet, verify that the **UN582** circuit pack is installed at EQL 19-138 (SDLC 10,SDL 20).	TELCO/INST	—
54	At the 3B21D APS cabinet, verify that the **UN582** circuit pack is installed at EQL 45-138 (SDLC 11,SDL 22).	TELCO/INST	—
55	At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter **114** in command mode to obtain the Application Data Link Display Page.	TELCO	—
56	At 3B21D APS MCRT, on the 114 page, verify SDL 20 is **UNEQ**. If SDL 20 is not **UNEQ**, perform Steps 57 through 60. Otherwise, if SDL 20 is **UNEQ**, go to Step 61.	TELCO/INST	—
57	At 3B21D APS MCRT, enter message **OP:OOS:SDL!** and determine if SDL 20 is listed as out of service.	TELCO/INST	—
58	At the 3B21D APS MCRT, if SDL 20 is NOT listed as out of service, perform Step 59. Otherwise, if SDL 20 IS listed as out of service, go to Step 60.	TELCO/INST	—
59	At 3B21D APS MCRT, enter message **RMV:SDL 20!** to remove SDL 20 from service. Response: **RMV SDL 20 TASK x MESSAGE STARTED** **RMV SDL 20 COMPLETED**	TELCO	DLP-552

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
60	At 3B21D APS MCRT, enter message **EXC:ENVIR:UPROC,FN"/tools/3b21/dl.tool",ARGS("SDL","20","UNEQIP")!** to change the SDL 20 to **UNEQ**. Response: At 3B21D APS MCRT, 114 page, SDL 20 is **UNEQ** At 3B21D APS MCRT ROP: **/tools/3b21/dl.tool : STARTING** **BEGINNING DEGROWTH OF SDL 20 USING THE /tools/3b21/dl.tool SCRIPT** **/tools/3b21/dl.tool RCVECD PASSED-EXIT CODE = 0** **UNEQIP OF SDL 20 BY SCRIPT /tools/3b21/dl.tool COMPLETED** **SDL 20 IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY** **REPT DEGROWTH SDL 20 COMPLETED** **EXC ENVIR UPROC /tools/3b21/dl.tool COMPLETED** ***Note:*** SDL 20 may be designated as an AMA link. The designation will change to **NET C** when the ECD change script, "grow56.sh", is run.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
61	At 3B21D APS MCRT, enter **114** in command mode to obtain the Application Data Link Display Page.	TELCO	—
62	At 3B21D APS MCRT, on the 114 page, verify SDL 22 is **UNEQ**. If SDL 22 is not **UNEQ**, perform Steps 63 through 66. Otherwise, if SDL 22 is **UNEQ**, go to Step 67.	TELCO/INST	—
63	At 3B21D APS MCRT, enter message **OP:OOS:SDL!** and determine if SDL 22 is listed as out of service.	TELCO/INST	—
64	At 3B21D APS MCRT, if SDL 22 is NOT listed as out of service, perform Step 65. Otherwise, if SDL 22 IS listed as out of service, go to Step 66.	TELCO/INST	—
65	At 3B21D APS MCRT, enter message **RMV:SDL 22!** to remove SDL 22 from service. Response: **RMV SDL 22 TASK x MESSAGE STARTED** **RMV SDL 22 COMPLETED**	TELCO	DLP-552

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
66	At 3B21D APS MCRT, enter message **EXC:ENVIR:UPROC,FN"/tools/3b21/dl.tool",ARGS("SDL","22","UNEQIP")!** to change the SDL 22 to **UNEQ**. Response: At 3B21D APS MCRT, 114 page, SDL 22 is **UNEQ** At 3B21D APS MCRT ROP: **/tools/3b21/dl.tool : STARTING** **BEGINNING DEGROWTH OF SDL 22 USING THE /tools/3b21/dl.tool SCRIPT** **/tools/3b21/dl.tool RCVECD PASSED-EXIT CODE = 0** **UNEQIP OF SDL 22 BY SCRIPT /tools/3b21/dl.tool COMPLETED** **SDL 22 IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY** **REPT DEGROWTH SDL 22 COMPLETED** **EXC ENVIR UPROC /tools/3b21/dl.tool COMPLETED** ***Note:*** SDL 22 may be designated as an AMA link. The designation will change to **NET D** when the ECD change script, "grow56.sh" is run.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
67	At 3B21D APS MCRT, enter **115** in command mode to obtain the SDL Controllers Page.	TELCO	—
68	At 3B21D APS MCRT, on the 115 page, verify SDLC 10 is **UNEQ**. If SDLC 10 is not **UNEQ**, perform Steps 69 through 72. Otherwise, if SDLC 10 is **UNEQ**, go to Step 73.	TELCO/INST	—
69	At 3B21D APS MCRT, enter message **OP:OOS:SDLC!** and determine if SDLC 10 is listed as out of service.	TELCO/INST	—
70	At 3B21D APS MCRT, if SDLC 10 is NOT listed as out of service, perform Step 71. Otherwise, if SDLC 10 IS listed as out of service, go to Step 72.	TELCO/INST	—
71	At 3B21D APS MCRT, enter message **RMV:SDLC 10!** to remove SDLC 10 from service. Response: **RMV SDLC 10 TASK x MESSAGE STARTED** **RMV SDLC 10 COMPLETED**	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
72	At 3B21D APS MCRT, enter message **EXC:ENVIR:UPROC,FN"/tools/3b21/dl.tool",ARGS("SDLC","10","UNEQIP")!** to change the SDLC 10 to **UNEQ**. Response: At 3B21D APS MCRT, 115 page, SDLC 10 is **UNEQ** At 3B21D APS MCRT ROP: **/tools/3b21/dl.tool : STARTING** **BEGINNING DEGROWTH OF SDLC 10 USING THE /tools/3b21/dl.tool SCRIPT** **/tools/3b21/dl.tool RCVECD PASSED - EXIT CODE = 0** **UNEQIP OF SDLC 10 BY SCRIPT /tools/3b21/dl.tool COMPLETED** **SDLC 10 IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY** ***Note:*** SDLC 10 may be designated as an AMA link. The designation will change to **NET C** when the ECD change script, "grow56.sh", is run.	TELCO/INST	—
73	At the 3B21D APS backplane, if an AMA cable is located on EQL 19-138-132/145 and CDRP has been verified as operating on the 4ESS Switch per Steps 4 and 5, disconnect and tag for removal the AMA cable for SDL 20 at EQL 19-138-132/145.	INST	—
74	At the 3B21D APS backplane, connect the **G216** cable for SDL 20 at EQL 19-138-132/145.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
75	At 3B21D APS MCRT, enter **115** in command mode to obtain the SDL Controllers Page.	TELCO	—
76	At 3B21D APS MCRT, on the 115 page, verify SDLC 11 is **UNEQ**. If SDLC 11 is not **UNEQ**, perform Steps 77 through 80. Otherwise, if SDLC 11 is **UNEQ**, go to Step 81.	TELCO/INST	—
77	At 3B21D APS MCRT, enter message **OP:OOS:SDLC!** and determine if SDLC 11 is listed as out of service.	TELCO/INST	—
78	At 3B21D APS MCRT, if SDLC 11 is NOT listed as out of service, perform Step 79. Otherwise, if SDLC 11 IS listed as out of service, go to Step 80.	TELCO/INST	—
79	At 3B21D APS MCRT, enter message **RMV:SDLC 11!** to remove SDLC 11 from service. Response: **RMV SDLC 11 TASK x MESSAGE STARTED** **RMV SDLC 11 COMPLETED**	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
80	At 3B21D APS MCRT, enter message **EXC:ENVIR:UPROC,FN"/tools/3b21/dl.tool",ARGS("SDLC","11","UNEQIP")!** to change the SDLC 11 to **UNEQ**. Response: At 3B21D APS MCRT, 115 page, SDLC 11 is **UNEQ** At 3B21D APS MCRT ROP: **/tools/3b21/dl.tool : STARTING** **BEGINNING DEGROWTH OF SDLC 11 USING THE /tools/3b21/dl.tool SCRIPT** **/tools/3b21/dl.tool RCVECD PASSED - EXIT CODE = 0** **UNEQIP OF SDLC 11 BY SCRIPT /tools/3b21/dl.tool COMPLETED** **SDLC 11 IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY** **EXC ENVIR UPROC /tools/3b21/dl.tool COMPLETED** ***Note:*** SDLC 11 may be designated as an AMA link. The designation will change to **NET D** when the ECD change script, "grow56.sh", is run.	TELCO/INST	—
81	At the 3B21D APS backplane, if an AMA cable is located on EQL 45-138-132/145 and CDRP has been verified as operating on the 4ESS Switch per Steps 4 and 5, disconnect and tag for removal the AMA cable for SDL 22 at EQL 45-138-132/145.	INST	—
82	At the 3B21D APS backplane, connect the **G217** cable for SDL 22 at EQL 45-138-132/145.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		**FOR DETAILS, GO TO**	
83	At 3B21D APS MCRT, enter message **OP:AMA;STREAM!** to determine the AMA stream used in the 4ESS Switch. Response: At 3B21D APS MCRT ROP, **REPT AMA STREAM INDICATOR IS** a where a = **IC**, **OC**, or **DUAL**	TELCO	—
84	If the response from Step 83 indicates **IC** or **DUAL** for the AMA stream, perform Step 85. If the response from Step 83 indicates **OC** for the AMA stream, go to Step 87.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
85	At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;IC:OPTION TAPE!** to prevent errors caused by removing old AMA links. Response: At 3B21D APS MCRT ROP, **REPT AMA CONTROL FILE FOR** IC **STREAM OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME 00:00** **PROCESS STOP TIME 00:00** **DEFAULT MT FOR AUTO TAPE START** x ***AMA OPTION IS* TAPE** **DATA TRANSFER** x **MANUALLY INHIBITED** **AMAT PASSWORD** x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **AUTOMATIC TAPE WRITING** x **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS** x **THE FAST STREAM IS** OC **DEFERRED FORMATTING IS NOT ALLOWED** **3B APS RECORDING MODE IS CDRP** where x = Don't care	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			**FOR DETAILS, GO TO**
86	If the response from Step 83 indicates **DUAL** for the AMA stream, perform Step 87. If the response from Step 83 indicates **IC** for the AMA stream, go to Step 88.	TELCO	—
87	At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;OC:OPTION TAPE!** to prevent errors caused by removing old AMA links. Response: At 3B21D APS MCRT ROP, **REPT AMA CONTROL FILE FOR** OC **STREAM** **OFFICE ID** x **DAYS UNTIL EXPIRATION** x **PROCESS START TIME 00:00** **PROCESS STOP TIME 00:00** **DEFAULT MT FOR AUTO TAPE START** x ***AMA OPTION IS* TAPE** **DATA TRANSFER** x **MANUALLY INHIBITED** **AMAT PASSWORD** x **HOC PASSWORD** x **BACKUP HOC PASSWORD** x **PASSWORD FROM LAST SESSION** x **TAPE SESSION IS NOT IN PROGRESS** **TELEPROCESSING SESSION IS NOT IN PROGRESS** **AUTOMATIC TAPE WRITING** x **INHIBITED** **TAPE SEQUENCE NUMBER** x **TAPE DATA SET ID** x **MAXIMUM DISK WRITE DELAY** x **SECONDS** **MAXIMUM SEQUENCE NUMBER OPTION IS** x **THE FAST STREAM IS** IC **DEFERRED FORMATTING IS NOT ALLOWED** **3B APS RECORDING MODE IS CDRP** where x = Don't care	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
88	***WARNING: This script can only be executed once in an office. Multiple executions of this script will fail after the first execution has been completed.*** At 3B21D APS MCRT, enter message **EXC:ENVIR:UPROC,FN "/database/tools/grow56.sh"!** to change the ECD for SDL 20 and SDL 22 to NET C and NET D, 56Kbps links. Response: **REPT GROW56.SH STARTED** **REPT SDLC 10 IN GROWTH STATE** **REPT SDLC 11 IN GROWTH STATE** **REPT GROWTH SDLC 10 IN PROGRESS** * **REPT GROWTH SDLC 10 COMPLETED** * **REPT GROWTH SDLC 11 IN PROGRESS** * **REPT GROWTH SDLC 11 COMPLETED** * **REPT SDLC 10 OUT OF SERVICE** **REPT SDLC 11 OUT OF SERVICE** **REPT SDL 20 IN GROWTH STATE** **REPT SDL 22 IN GROWTH STATE** **REPT GROWTH SDL 20 IN PROGRESS** * **REPT GROWTH SDL 20 COMPLETED** * **REPT GROWTH SDL 22 IN PROGRESS** * **REPT GROWTH SDL 22 COMPLETED** * **REPT SDL 20 OUT OF SERVICE** **REPT SDL 22 OUT OF SERVICE** **UPD:APPDL;REFRESH! PF** **REPT GROW56.SH COMPLETED SUCCESSFULLY** **EXC ENVIR UPROC /database/tools/grow56.sh COMPLETED** **REPT APPDL REFRESH JOB COMPLETED** * These messages may or may not be received depending on 3B21D processing load. ***Note:*** This message changes: • SDL 20 and SDLC 10 to **NET C** • SDL 22 and SDLC 11 to **NET D** • SDL 20, SDL 22, SDLC 10, and SDLC 11 to the **OOS** state in the ECD.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
89	At 3B21D APS MCRT, enter **115** in command mode to obtain the SDL Controllers Page.	TELCO	—
90	At 3B21D APS MCRT, on the 115 page, verify: • SDLC 10 and SDLC 11 are designated as **OOS MAN** • SDLC 10 is designated **NET C** • SDLC 11 is designated **NET D**.	TELCO/INST	—
91	At 3B21D APS MCRT, enter **114** in command mode to obtain the Application Data Link Display Page.	TELCO	—
92	At 3B21D APS MCRT, on the 114 page, verify: • SDL 20 and SDL 22 are designated as **OOS MAN** • SDL 20 is designated **NET C** • SDL 22 is designated **NET D**.	TELCO/INST	—
	PLACE NET C AND NET D IN SERVICE AND TEST		
93	At 3B21D APS MCRT, enter message **RST:SDLC 10!** to restore SDLC 10 to service. Response: **RST SDLC 10 TASK x MESSAGE STARTED** **RMV SDLC 10 STOPPED X'5** **DGN SDLC 10 COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC 10 COMPLETED** **RST SDL 20 COMPLETED** **RST SDL** a **COMPLETED** (if equipped) **DGN SDLC 10 ATP MESSAGE COMPLETE**	TELCO/INST	DLP-550

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
94	At 3B21D APS MCRT, enter message **RST:SDLC 11!** to restore SDLC 11 to service. Response: **RST SDLC 11 TASK x MESSAGE STARTED** **RMV SDLC 11 STOPPED X'5** **DGN SDLC 11 COMPLETED ATP MESSAGE IN PROGRESS** **RST SDLC 11 COMPLETED** **RST SDL 22 COMPLETED** **RST SDL** a **COMPLETED** (if equipped) **DGN SDLC 11 ATP MESSAGE COMPLETE**	TELCO/INST	DLP-550
95	At 3B21D APS MCRT, enter **114** in command mode to obtain the Application Data Links Display Page (114).	TELCO	—
96	At 3B21D APS MCRT, on the Application Data Links Display Page (114), ensure SDL 20 (**NET C**) and SDL 22 (**NET D**) are **STBY**.	TELCO/INST	—
97	At **NET C/Modem Eliminator 0** for SDL 20, operate the **LB** switch to turn OFF the loop back mode. Ensure that ALL LEDs on the front panel of the modem eliminator are lit.	INST	—
98	At **NET D/Modem Eliminator 1** for SDL 22, operate the **LB** switch to turn OFF the loop back mode. Ensure that ALL LEDs on the front panel of the modem eliminator are lit.	INST	—
99	At 3B21D APS MCRT, enter **114** in command mode to obtain the Application Data Links Display Page (114).	TELCO	—
100	At 3B21D APS MCRT, on the Application Data Links Display Page (114), ensure SDL 20 (**NET C**) and SDL 22 (**NET D**) are **ACT**.	TELCO/INST	—
101	At 3B21D APS MCRT, on the Application Data Links Display Page (114), if SDL 20 (**NET C**) and SDL 22 (**NET D**) are **ACT** then continue with Step 102. If SDL 20 (**NET C**) and SDL 22 (**NET D**) are not active then: • Installer must verify cables and settings on installed circuit packs and modem eliminators. • OSWF must contact the *Datakit* center at 1-816-391-5700, for assistance in bouncing the X.25P link.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
	Note: Do not continue with Step 102 until **NET C** and **NET D** are **ACT** on the Application Data Links Display Page (114) at the 3B21D APS MCRT.		
102	Contact the customer Datalink Coordinator (NSDNet 1-800-232-6717) and request NET C and NET D link testing to SDL 20 and SDL 22 be performed by using the **dstat tstm1** command.	TELCO	—
103	Contact the customer NECOM coordinator (816-995-3585) and request NET C and NET D link testing to SDL 20 and SDL 22 be performed.	TELCO	—
	Note: Steps 104 and 105 can be performed without waiting for Step 103 to be completed.		
104	Contact the customer NOC coordinator for NEMOS (908-234-7100) and leave a message requesting NET C and NET D link testing to SDL 20 and 22 be performed during day shift. The NOC coordinator for NEMOS must notify the office that NET C and NET D link testing to SDL 20 and SDL 22 has been performed. The procedure can not continue on the next night if testing is not completed.	TELCO	—
105	Contact the appropriate NESAC group (EAST 770-785-3154/WEST 303-391-7580) and request NET C and NET D be tested for remote access. NESAC must notify the office that NET C and NET D has been tested for remote access to SDL 20 and SDL 22. The procedure can not continue on the next night if testing is not completed.	TELCO	—
106	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ COMPLETED** (for each of the above messages)	TELCO	—
107	If old AMA cables were disconnected from the 3B21D APS in Steps 73 and 81, remove, disconnected and tagged for removal, AMA cables from cable racks.	INST/TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
108	Soak the NET C and NET D paths (at 56Kbps) until the next maintenance window to ensure that there are no problems that exist with system operation after conversion.	TELCO/INST	—
109	Safe point to temporarily stop this procedure. Continue at next step when resuming this procedure on the following night.	TELCO/INST	—
	RUN SYSTEM AUDITS AND WRITE BACKUP TAPES		
110	Do not continue with this procedure unless all NEMOS/NOC and NESAC testing on NET C and NET D has been completed.	TELCO/INST	—
111	At 3B21D APS MCRT, enter the following messages to inhibit automatic diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** Response: **INH DMQ COMPLETED** (for each of the above messages)	TELCO	—
112	Copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-551
113	Run file system audits to ensure no file system errors.	TELCO	DLP-553
114	Update backup data base.	TELCO	DLP-522
115	Write 3B21D APS backup tapes.	TELCO	DLP-528
116	Verify backup tapes.	TELCO	DLP-529
117	At 3B21D APS MCRT, enter the following messages to allow automatic diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** Response: **ALW DMQ COMPLETED** (for each of the above messages)	TELCO	—
118	**STOP! YOU HAVE COMPLETED THIS PROCEDURE.**	TELCO/INST	—

Verify Unit Control Block (UCB) Data for Growth Unit

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify Terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **y**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **ucb**

   Response: The ucb option form is displayed.

10. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

11. Enter growth unit name. (Use capital letters for MHD, SDL, SDLC, TTY, TTYC, etc.)

    Response: The cursor is positioned at **unit_number**.

12. Enter growth unit number.

    Response: The ucb form for the growth unit is displayed.

13. Is the ucb form for the growth unit displayed?

    If **Yes**, go to Step 15.
    If **No**, go to Step 14.

14. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

15. Compare ucb data of growth unit with engineering equipment configuration records.

    Note: There are 4 screens of ucb data.

16. Is all ucb data correct?

    If **Yes**, go to Step 18.
    If **No**, go to Step 17.

17. Contact appropriate support organization for resolution. After resolving, repeat from Step 15.

18. Enter **3**

    Response: Screen 3 is displayed.

19. Is data in **option_name** field (field 57)?

    If **Yes**, go to Step 20.
    If **No**, go to Step 21.

20. Record data in **option_name** field for later use.

21. Enter **<**

    Response: **Enter Form Name:** is displayed.

22. Is controller being grown?

    If **Yes**, go to Step 23.
    If **No**, go to Step 24.

23. Depress **RETURN** key once.

    Response: Recent change is exited.

24. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify Option Block Data for Growth Unit

1. At 3B21D APS MCRT or Recent Change and Verify terminal, enter the option form for the appropriate feature from Table A.

TABLE A	
FEATURE	**OPTION-FORM**
ICAMA OCAMA SCANS TDAS TOSS	cpblx3
NEMOS PINET	nphopt

   Response: A blank option form is displayed.

2. Enter **option_name** recorded earlier from ucb of growth SDL.

3. Is option form for growth unit displayed?

   If **Yes**, go to Step 5.
   If **No**, go to Step 4.

4. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

5. Is SDL being grown for AMA teleprocessing?

   If **Yes**, go to Step 6.
   If **No**, go to Step 10.

6. Compare cpblx3 data (fields 2, 4, 6, and 19 only) of growth unit with Table B for associated speed.

   Note: Field 19 is on screen 2.

TABLE B	
4800 BPS	**9600 BPS**
2.speed:4800	2.speed:9600
4.ds_type:2048A	4.ds_type:209A
6.line_access:noACU	6.line_access:private
19.security:y	19.security:y

7. Is all data correct?

   If **Yes**, go to Step 18.
   If **No**, go to Step 8.

8. Using DLP-502, change cpblx3 data (fields 2, 4, 6, and/or 19) to correct data per Table B.

TABLE B	
4800 BPS	**9600 BPS**
2.speed:4800	2.speed:9600
4.ds_type:2048A	4.ds_type:209A
6.line_access:noACU	6.line_access:private
19.security:y	19.security:y

9. Go to Step 19.

10. Is SDL being grown for AMA recording on tape?

    If **Yes**, go to Step 11.
    If **No**, go to Step 15.

11. Compare cpblx3 data (fields 2, 4, 6, and 19) of growth unit with engineering equipment configuration records.

    Note: Field 19 is on screen 2.

12. Is all data correct?

    If **Yes**, go to Step 18.
    If **No**, go to Step 13.

13. Using DLP-502, change cpblx3 data (fields 2, 4, 6, and/or 19) to correct data.

14. Go to Step 19.

15. Compare option block data of growth unit with engineering equipment configuration records.

16. Is all data correct?

    If **Yes**, go to Step 18.
    If **No**, go to Step 17.

17. Contact the appropriate support organization for resolution. After resolving, repeat from Step 15.

18. Enter **< <** to exit recent change.

19. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Recent Change CPBLX3 Data

1. At 3B21D computer terminal, enter **< <** to exit recent change.

2. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 3.
   If **No**, go to Step 5.

3. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

4. Go to Step 7.

5. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

6. Enter **199** in command mode to obtain display page 199.

7. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

8. Enter **n**

   Response: Cursor positioned at **journaling**.

9. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

10. Enter **trbegin**

    Response: **tr_name** form is displayed.

11. Enter **rccpblx3**

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** will be displayed.

12. Enter **e**

    Response: **FORM EXECUTED** displayed momentarily: then **Enter Form Name:** is displayed.

13. Enter **cpblx3**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

14. Enter **u**

    Response: The cpblx3 option form is displayed.

15. Enter **option_name** recorded earlier from ucb of growth SDL.

    Response: The cpblx3 form filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** are displayed.

16. Enter **c**

    Response: **Change field:** is displayed.

17. Enter number of field in error.

    Response: Cursor positioned to change incorrect field.

18. Enter correct data.

19. Are more fields in error?

    If **Yes**, go to Step 20.
    If **No**, go to Step 21.

20. Repeat from Step 17 for next field in error.

21. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

22. Enter **u**

    Response: **FORM UPDATED** displayed momentarily.

23. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

24. Enter **trend**

    Response: The **tr_name** form is displayed.

25. Enter **rccpblx3**

26. Enter *****

    Response: The **FORM EXECUTED** is displayed momentarily; then **Enter Form Name:** is displayed.

27. Depress **RETURN** key once.

    Response: Recent change is exited.

28. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Remove Unit From Service and Power Down

1. At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter 102 in command mode to obtain display page 102.

2. On display page 102, are MTTY and ROP on the IOP being removed (the growth associated IOP)?

   If **Yes**, go to Step 3.
   If **No**, go to Step 4.

3. At 3B21D APS MCRT, enter message **SW:PORTSW!** to switch the MTTY and ROP to the non-growth associated IOP.

   Response: Display page 102 indicates MTTY and ROP are on the non-growth associated IOP.

4. At the 3B21D APS MCRT, enter message **RMV:IOP a!**

   where: a = growth associated IOP

   Note: Any subunits of the IOP will be removed from service.

   Response: At the 3B21D APS MCRT ROP,
   RMV IOP a TASK x MESSAGE STARTED
   RMV subunit **COMPLETED**
   This message repeats for every subunit of the IOP removed from service.
   RMV IOP a COMPLETED

   where: a = growth associated IOP

   At the 3B21D APS MCRT,
   Display page 102 indicates **OOS** or **OOS MAN** for IOP unit and subunits being removed from service.

5. Using the following table, at growth associated IOP, ensure **OOS** LED is on.

3B21D IOP Locations	
IOP	**EQL**
0	19-080
1	45-080

6. At the growth associated IOP power switch, operate the **ROS/RST** switch to **ROS** to remove the IOP from service.

   Response: The **RQIP** LED flashes and then goes off.
   The **OOS** and **ROS** LEDs light.

   At the 3B21D APS MCRT ROP,
   RMV IOP a TASK x MESSAGE STARTED
   RMV IOP a STOPPED X'5

   where: a = growth associated IOP

   At the 3B21D APS MCRT,
   Display page 102 indicates **OOS** or **OOS MAN** for IOP unit and subunits being powered down.

7. At the growth associated IOP power switch, operate the **ST/ON/OFF** switch to **OFF** to remove power from the IOP.

   Response: The **OFF** LED lights.

   At the 3B21D APS MCRT ROP,
   REPT POWER REMOVED IOP a

   where: a = growth associated IOP

   At the 3B21D APS MCRT,
   Display page 102 indicates **OOS** or **UNAV** for IOP unit being powered down.

8. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Power Up Unit and Restore to Service

1. At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter **102** in command mode to obtain display page 102.

2. At the growth associated IOP power switch, operate the **ST/ON/OFF** switch to **ST** to restore power to the IOP.

   Response: The **RQIP** LED flashes and goes off.
   The **OOS** and **ROS** LEDs remain lit.

   At the 3B21D APS MCRT ROP,
   REPT POWER RESTORED IOP a
   RMV IOP a TASK x MESSAGE STARTED
   RMV IOP a STOPPED X'5

   where: a = growth associated IOP

   At the 3B21D APS MCRT,
   Display page 102 indicates **OOS** or **OOS MAN** for IOP unit and subunits being powered up.

3. At the growth associated IOP power switch, operate the **ROS/RST** switch to **RST** to restore the IOP to service.

   Note: Any subunits of the IOP will be restored to service after the **RST COMPLETED** message is received.

   Response: The **RQIP** LED flashes and goes off.
   The **OOS** and **ROS** LEDs go off.

   At the 3B21D APS MCRT ROP,
   RST IOP a TASK x MESSAGE STARTED
   RMV IOP a STOPPED X'5
   DGN IOP a COMPLETED ATP MESSAGE IN PROGRESS
   RST IOP a COMPLETED
   DGN subunit **COMPLETED ATP MESSAGE IN PROGRESS**
   This message is repeated for subunits (MTTYC, TTYC, SCSDC, SDLC) of the IOP being restored.
   RST subunit **COMPLETED**
   This message is repeated for all subunits of the IOP being restored.
   DGN IOP a ATP MESSAGE COMPLETE

   where: a = growth associated IOP

   At the 3B21D APS MCRT,
   Display page 102 indicates **ACT** for IOP unit and subunits being restored.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Recent Change Growth Unit from UNEQIP to GROW

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **n**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **trbegin**

   Response: **tr_name** form is displayed.

10. Enter **rcgrow**.

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

11. Enter **e**

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

12. Enter **ucb**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

13. Enter **u**

    Response: The ucb option form is displayed.

14. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

15. Enter growth unit name. (Use capital letters for MHD, SDL, SDLC, TTY, TTYC, etc.).

    Response: The cursor is positioned at **unit_number**.

16. Enter growth unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

17. Enter **c**

    Response: **Change field:** is displayed.

18. Enter **21**

    Response: Cursor is positioned to change **major_status:** field.

19. Enter **GROW**

    Response: **major_status:** is changed to GROW.

20. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

21. Enter **u**

    Response: **FORM UPDATED** is displayed momentarily.

22. Are more units to be changed from UNEQIP to GROW?

    If **Yes**, go to Step 23.
    If **No**, go to Step 24.

23. Repeat from Step 14 for next unit.

24. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

25. Enter **trend**

    Response: The **tr_name** form is displayed.

26. Enter **rcgrow**

27. Enter *****

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

28. Wait for messages:
    REPT a b **IN GROWTH STATE**
    REPT GROWTH a b **IN PROGRESS**
    REPT GROWTH a b **COMPLETED**

    a = growth unit name
    b = growth unit number

29. Depress **RETURN** key once.

    Response: Recent change is exited.

30. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Recent Change Growth Unit from GROW to OOS

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **n**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **trbegin**

   Response: **tr_name** form is displayed.

10. Enter **rcoos**.

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

11. Enter **e**

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

12. Enter **ucb**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

13. Enter **u**

    Response: The ucb option form is displayed.

14. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

15. Enter growth unit name. (Use capital letters for MHD, SDL, SDLC, TTY, TTYC, etc.).

    Response: The cursor is positioned at **unit_number**.

16. Enter growth unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

17. Enter **c**

    Response: **Change field:** is displayed.

18. Enter **21**

    Response: Cursor is positioned to change **major_status:** field.

19. Enter **OOS**

    Response: **major_status:** is changed to OOS.

20. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

21. Enter **u**

    Response: **FORM UPDATED** is displayed momentarily.

22. Are more units to be changed from GROW to OOS?

    If **Yes**, go to Step 23.
    If **No**, go to Step 24.

23. Repeat from Step 14 for next unit.

24. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

25. Enter **trend**

    Response: The **tr_name** form is displayed.

26. Enter **rcoos**

27. Enter *****

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

28. Wait for **REPT a b OUT OF SERVICE** message.

    a = growth unit name
    b = growth unit number

29. Depress **RETURN** key once.

    Response: Recent change is exited.

30. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Copy Incore Equipment Configuration Data Base (ECD) to Disk

1. At the 3B21D computer terminal, is **Enter Form Name:** displayed?

   If **Yes**, go to Step 10.
   If **No**, go to Step 2.

2. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 3.
   If **No**, go to Step 5.

3. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

4. Go to Step 7.

5. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

6. Enter **199** in command mode to obtain display page 199.

7. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

8. Enter **n**

   Response: Cursor positioned at **journaling**.

9. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

10. Enter **activate**

    Response: Cursor positioned at **copy_inc_to_disk:YES** field.

11. Depress **RETURN** key once.

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

12. Enter **e**

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

    Note: It may take several minutes before **FORM EXECUTED** is displayed.

13. Depress **RETURN** key once.

    Response: Recent change is exited.

14. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Define Office-Dependent Data for AMA Teleprocessing

1. At 3B21D APS MCRT, enter message
   SET:AMA;CONTROL;a:OPTION TP,OFFICEID b,HOCPSWD c,BACKUPSWD d!

   where: a = IC or OC
   b = 6-digit office ID assigned by HOC (Network Recording Management)
   c = 10-digit password for normal HOC
   d = 10-digit password for backup HOC

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION x
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TELEPROCESSING
   DATA TRANSFER c **MANUALLY INHIBITED**
   AMAT PASSWORD 0040b
   HOC PASSWORD d
   BACKUP HOC PASSWORD e
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING f **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where a = **IC** or **OC**
   b = Entered office ID
   c = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   d = Entered normal HOC password
   e = Entered backup HOC password
   f = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don’t care

2. Was printout received per previous response?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve. Repeat from Step 1.

4. At 3B21D APS MCRT, enter message
   ALW:AMA;SESSION:a!

   where: a = IC or OC

   Response:
   REPT AMA CONTROL FILE FOR a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION x
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TELEPROCESSING
   DATA TRANSFER c **MANUALLY INHIBITED**
   AMAT PASSWORD 0040b
   HOC PASSWORD d
   BACKUP HOC PASSWORD e
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING f **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where
   a = **IC** or **OC**
   b = Entered office ID
   c = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   d = Entered normal HOC password
   e = Entered backup HOC password
   f = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don't care

5. Was printout received per previous response?

   If **Yes**, go to Step 7.
   If **No**, go to Step 6.

6. Determine cause and resolve. Repeat from Step 4.

7. Use the 3B21D APS MCRT ROP from Step 4 and the following information to verify Steps 8 through 14.

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION x
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TELEPROCESSING
   DATA TRANSFER c **MANUALLY INHIBITED**
   AMAT PASSWORD 0040b
   HOC PASSWORD d
   BACKUP HOC PASSWORD e
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING f **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where
   a = **IC** or **OC**
   b = Entered office ID
   c = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   d = Entered normal HOC password
   e = Entered backup HOC password
   f = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don’t care

8. Verify OFFICE ID is correct.

9. Verify PROCESS START and PROCESS STOP times are 00:00.

10. Verify AMA OPTION is TELEPROCESSING.

11. Verify data transfer IS NOT manually inhibited.

12. Verify AMAT PASSWORD is 0040 followed by office ID.

13. Verify HOC PASSWORD is correct.

14. Verify neither TAPE nor TELEPROCESSING SESSION is in progress.

15. Did Steps 8 through 14 verify correctly?

    If **Yes**, go to Step 17.
    If **No**, go to Step 16.

16. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

17. Is second stream to be defined?

    If **Yes**, go to Step 18.
    If **No**, go to Step 19.

18. Repeat from Step 1.

19. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify AMA Processes Running

1. At 3B21D APS MCRT, enter message **OP:STATUS:PROCESS,ALLKERNS!**.

   Response: **OP STATUS PROCESS STARTED**
   OP STATUS PROCESS IN PROGRESS SEGMENT x
   (Previous message is repeated for each segment.)
   OP STATUS PROCESS COMPLETED SEGMENT x

   where: x = segment number

2. Using the ROP printout, determine if AMarcvr, AMformat, and AMdwriterxx for appropriate stream are listed under DEVICE column.

   where xx = ic or oc

3. Are the processes from Step 2 listed in printout for appropriate stream?

   If **Yes**, go to Step 5.
   if **No**, go to Step 4.

4. Contact the appropriate support organization for resolution. After resolving, repeat from Step 1.

5. At 3B21D APS MCRT, enter message **OP:STATUS:PROCESS,ALL!**.

   Response: **OP STATUS PROCESS STARTED**
   OP STATUS PROCESS IN PROGRESS SEGMENT x
   (Previous message is repeated for each segment.)
   OP STATUS PROCESS COMPLETED SEGMENT x

   where: x = segment number

6. Using the ROP printout, determine if AMftpxx (for teleprocessing only) and /ama/AMmonxx for appropriate stream are listed under CMD column.

   where xx = ic or oc

7. Are the processes from Step 6 listed in printout for the appropriate stream?

   If **Yes**, go to Step 9.
   If **No**, go to Step 8.

8. Contact appropriate support organization for resolution. After resolving, repeat from Step 5.

9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Define Office-Dependent Data for AMA Tape

1. At 3B21D APS MCRT, enter message
   SET:AMA;CONTROL;a:OPTION TAPE,OFFICEID b,EXPDATE c!

   where: a = IC or OC
   b = 6-digit office ID assigned by HOC
   c = Number of days (1 through 99) until AMA tape expires

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION c
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TAPE
   DATA TRANSFER d **MANUALLY INHIBITED**
   AMAT PASSWORD x
   HOC PASSWORD x
   BACKUP HOC PASSWORD x
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING e **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where a = **IC** or **OC**
   b = Entered office ID
   c = Entered number of days until AMA tape expires
   d = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   e = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don't care

2. Was printout received per previous response?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve. Repeat from Step 1.

4. At 3B21D APS MCRT, enter message
   ALW:AMA;SESSION:a!

   where: a = IC or OC

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION c
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TAPE
   DATA TRANSFER d **MANUALLY INHIBITED**
   AMAT PASSWORD x
   HOC PASSWORD x
   BACKUP HOC PASSWORD x
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING e **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where a = **IC** or **OC**
   b = Entered office ID
   c = Entered number of days until AMA tape expires
   d = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   e = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don't care

5. Was printout received per previous response?

   If **Yes**, go to Step 7.
   If **No**, go to Step 6.

6. Determine cause and resolve. Repeat from Step 4.

7. Use the 3B21D APS MCRT ROP from Step 4 and the following information to verify Steps 8 through 12.

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION c
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TAPE
   DATA TRANSFER d **MANUALLY INHIBITED**
   AMAT PASSWORD x
   HOC PASSWORD x
   BACKUP HOC PASSWORD x
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING e **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where a = **IC** or **OC**
   b = Entered office ID
   c = Entered number of days until AMA tape expires
   d = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   e = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don't care

8. Veriify OFFICE ID is correct.

9. Verify DAYS UNTIL EXPIRATION is correct.

10. Verify AMA OPTION is TAPE.

11. Verify data transfer IS NOT manually inhibited.

12. Verify neither TAPE nor TELEPROCESSING SESSION is in progress.

13. Did Steps 8 through 12 verify correctly?

    If **Yes**, go to Step 15.
    If **No**, go to Step 14.

14. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

15. Is second stream to be defined?

    If **Yes**, go to Step 16.
    If **No**, go to Step 17.

16. Repeat from Step 1.

17. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Insert Tape in 3B21D APS Digital Audio Tape (DAT) Unit

Note: The 4-mm tape length must be 90 M.

Caution: Care must be taken when inserting the tape into the DAT unit. Tape must not be forced.

1. Is tape to be written?

   If **Yes**, go to Step 2.
   If **No**, go to Step 3.

2. See Figure 1. Put write-protect tab in the up (unlocked) position.

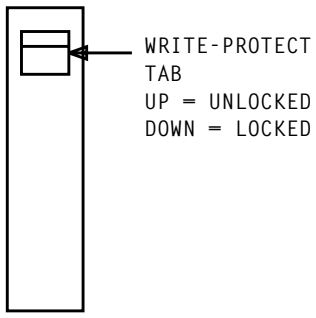


Figure 1. 4-mm Tape

3. See Figure 2. At an available 3B21D APS DAT unit (EQL 11-124 or 62-124), insert blank or erasable 4-mm tape with write-protect tab in appropriate position.

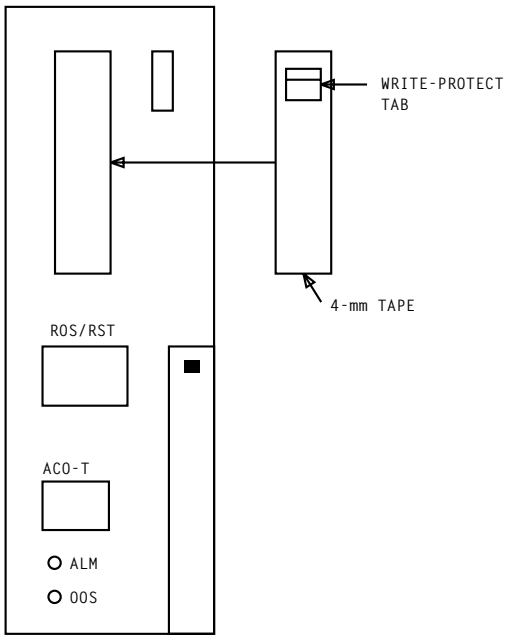


Figure 2. DAT Unit with 4-mm Tape

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Remove Tape From 3B21D APS Digital Audio Tape (DAT) Unit

1. See Figure 1. At 3B21D APS DAT unit that contains tape to be removed, depress eject button.

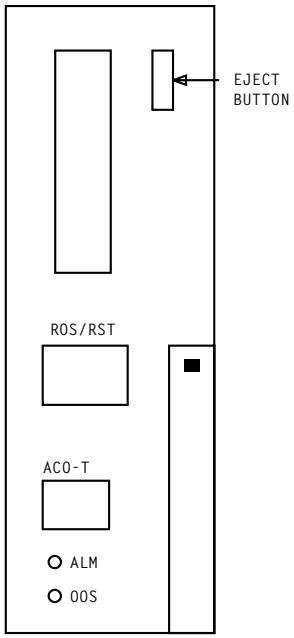


Figure 1. DAT Unit

2. Was tape just written?

   If **Yes**, go to Step 3.
   If **No**, go to Step 4.

3. See Figure 2. Put write-protect tab in the down (locked) position.

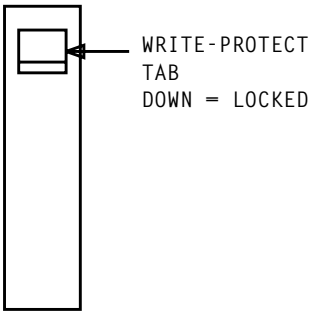


Figure 2. DAT Unit

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Request Host Collector (HOC) (Network Recording Management) to Poll for 100 Test Files

1. Request HOC (Network Recording Management) to poll for 100 test files for IC or OC stream.

2. Was **REPT AMA SESSION ESTABLISHED FOR IC/OC STREAM** output message received?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

4. Wait for normal termination output message.

   Note: Normal termination output message should be received approximately 9 minutes (if 4800 bps) or 5 minutes (if 9600 bps) after polling starts.

5. Was the following normal termination output message received?

   Response: **REPT AMA SESSION TERMINATED FOR** a **STREAM**
   NORMAL TERMINATION
   FIRST BLOCK TRANSMITTED 0
   LAST BLOCK TRANSMITTED 0
   BLOCKS TRANSMITTED 0
   AMA RECORDS TRANSMITTED 0
   PRIMARY POLLS REJECTED 0
   SECONDARY POLLS REJECTED 0
   CURRENT DISK SPACE OCCUPANCY IS 0%
   SESSION START TIME ___ __ __:__:__
   SESSION STOP TIME ___ __ __:__:__
   SESSION LENGTH __:__:__

   where a = **IC** or **OC**

   If **Yes**, go to Step 17.
   If **No**, go to Step 6.

6. Contact appropriate support organization for resolution.

7. Can the problem be resolved before old scheduled AMA tape write?

   If **Yes**, go to Step 8.
   If **No**, go to Step 9.

8. Correct the problem and repeat from Step 1.

9. At 3B21D APS MCRT, enter message **SET:AMA;CONTROL;a:OPTION TAPE!** for stream in error to switch back to 3B21D Computer AMA tape.

   where a = **IC** or **OC**

10. Was the following output message received, and is AMA OPTION entry TAPE?

Response:
REPT AMA CONTROL FILE FOR a **STREAM**
OFFICE ID b
DAYS UNTIL EXPIRATION c
PROCESS START TIME 00:00
PROCESS STOP TIME 00:00
DEFAULT MT FOR AUTO TAPE START x
AMA OPTION IS d
DATA TRANSFER IS NOT MANUALLY INHIBITED
AMAT PASSWORD 0040b
HOC PASSWORD e
BACKUP HOC PASSWORD f
PASSWORD FROM LAST SESSION x
TAPE SESSION IS NOT IN PROGRESS
TELEPROCESSING SESSION IS NOT IN PROGRESS
AUTOMATIC TAPE WRITING g **INHIBITED**
TAPE SEQUENCE NUMBER x
TAPE DATA SET ID x
MAXIMUM DISK WRITE DELAY x **SECONDS**
MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
THE FAST STREAM IS a
DEFERRED FORMATTING IS ALLOWED
3B APS RECORDING MODE IS x

where
a = **IC** or **OC**
b = Office ID
c = Number of days until tape expires
d = TAPE or TELEPROCESSING
e = HOC password
f = Backup HOC password
g = IS (if tape writing is inhibited) or
IS NOT (if tape writing is allowed)
x = Don't care

If **Yes**, go to Step 12.
If **No**, go to Step 11.

11. Determine the cause and resolve, then repeat from Step 9.

12. Correct polling failure as determined by appropriate support organization.

13. At 3B21D APS MCRT, enter **SET:AMA;CONTROL;a:OPTION TP!** to return to teleprocessing.

    where a = **IC** or **OC**

14. Was the following output message received, and is AMA OPTION entry TELEPROCESSING?

    Response:
    REPT AMA CONTROL FILE FOR a **STREAM**
    OFFICE ID b
    DAYS UNTIL EXPIRATION c
    PROCESS START TIME 00:00
    PROCESS STOP TIME 00:00
    DEFAULT MT FOR AUTO TAPE START x
    AMA OPTION IS d
    DATA TRANSFER IS NOT MANUALLY INHIBITED
    AMAT PASSWORD 0040b
    HOC PASSWORD e
    BACKUP HOC PASSWORD f
    PASSWORD FROM LAST SESSION x
    TAPE SESSION IS NOT IN PROGRESS
    TELEPROCESSING SESSION IS NOT IN PROGRESS
    AUTOMATIC TAPE WRITING g **INHIBITED**
    TAPE SEQUENCE NUMBER x
    TAPE DATA SET ID x
    MAXIMUM DISK WRITE DELAY x **SECONDS**
    MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
    THE FAST STREAM IS a
    DEFERRED FORMATTING IS ALLOWED
    3B APS RECORDING MODE IS x

    where
    a = **IC** or **OC**
    b = Office ID
    c = Number of days until tape expires
    d = TAPE or TELEPROCESSING
    e = HOC password
    f = Backup HOC password
    g = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed)
    x = Don't care

    If **Yes**, go to Step 15.
    If **No**, go to Step 16.

15. Repeat from Step 1.

16. Determine cause and resolve; repeat from Step 13.

17. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify Option Block Data for Growth TTY Unit

1. At 3B21D computer terminal, enter **ciopt**.

   Response: A blank ciopt form is displayed.

2. Enter **option_name** recorded earlier from ucb of growth TTY.

3. Is the ciopt form for growth unit displayed?

   If **Yes**, go to Step 5.
   If **No**, go to Step 4.

4. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

5. Compare ciopt data of growth unit with engineering equipment configuration records.

   Note: There is one screen of ciopt data.

6. Is all data correct?

   If **Yes**, go to Step 17.
   If **No**, go to Step 7.

7. Using **DLP-515**, change ciopt form to correct data.

8. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 9.
   If **No**, go to Step 11.

9. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

10. Go to Step 13.

11. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

12. Enter **199** in command mode to obtain display page 199.

13. Enter **incore**

    Response: Cursor positioned at **reviewonly**.

14. Enter **y**

    Response: Cursor positioned at **journaling**.

15. Enter *****

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

16. Repeat from Step 1.

17. Record data in **ttopt_name** and **cdopt_name** fields for later use.

18. Enter **<**

    Response: **Enter Form Name:** is displayed.

19. Enter **ttopt**

    Response: A blank ttopt form is displayed.

20. Enter **ttopt_name** recorded in Step 17.

21. Is ttopt form for growth unit displayed?

    If **Yes**, go to Step 23.
    If **No**, go to Step 22.

22. Contact appropriate support organization for resolution. After resolving, repeat from Step 19.

23. Compare ttopt data of growth unit with engineering equipment configuration records.

    Note: There are 3 screens of ttopt data.

24. Is all the data correct?

    If **Yes**, go to Step 35.
    If **No**, go to Step 25.

25. Using **DLP-515**, change ttopt form to correct data.

26. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

    If **Yes**, go to Step 27.
    If **No**, go to Step 29.

27. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

28. Go to Step 31.

29. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

30. Enter **199** in command mode to obtain display page 199.

31. Enter **incore**

    Response: Cursor positioned at **reviewonly**.

32. Enter **y**

    Response: Cursor positioned at **journaling**.

33. Enter *****

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

34. Go to Step 36.

35. Enter **<**

    Response: **Enter Form Name:** is displayed.

36. Enter **cdopt**

    Response: A blank cdopt form is displayed.

37. Enter **cdopt_name** recorded in Step 17.

38. Is cdopt form for growth unit displayed?

    If **Yes**, go to Step 40.
    If **No**, go to Step 39.

39. Contact appropriate support organization for resolution. After resolving, repeat from Step 36.

40. Compare cdopt data of growth unit with engineering equipment configuration records.

    Note: There are four screens of cdopt data.

41. Is all data correct?

    If **Yes**, go to Step 51.
    If **No**, go to Step 41.

42. Using **DLP-515**, change cdopt form to correct data.

43. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

    If **Yes**, go to Step 44.
    If **No**, go to Step 46.

44. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

45. Go to Step 48.

46. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

47. Enter **199** in command mode to obtain display page 199.

48. Enter **incore**

    Response: Cursor positioned at **reviewonly**.

49. Enter **y**

    Response: Cursor positioned at **journaling**.

50. Enter *****

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

51. Enter **<**

    Response: **Enter Form Name:** is displayed.

52. Enter **classdef**

    Response: A blank classdef form is displayed.

53. Enter numerical value of growth TTY output class.

54. Is classdef form for growth unit displayed?

    If **Yes**, go to Step 56.
    If **No**, go to Step 55.

55. Contact appropriate for resolution. After resolving, repeat from Step 52.

56. Compare classdef data of growth unit with engineering equipment configuration records.

57. Is all data correct?

    If **Yes**, go to Step 60.
    If **No**, go to Step 58.

58. Using **DLP-515**, change classdef form to correct data.

59. Go to Step 61.

60. Enter **< <**

    Response: Recent change is exited.

61. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Recent Change Option Block Data

1. At 3B21D computer terminal, enter **< <** to exit recent change.

2. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 3.
   If **No**, go to Step 5.

3. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

4. Go to Step 7.

5. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

6. Enter **199** in command mode to obtain display page 199.

7. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

8. Enter **n**

   Response: Cursor positioned at **journaling**.

9. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

10. Enter **trbegin**

    Response: **tr_name** form is displayed.

11. Enter **rc**a

    Where: a = name of form being changed

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

12. Enter **e**

    Response: **FORM EXECUTED** displayed momentarily: then **Enter Form Name:** is displayed.

13. Enter name of form.

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

14. Enter **u**

    Response: The option form is displayed.

15. Enter **option_name** recorded earlier or numerical value of output class.

    Response: The form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

16. Enter **c**

    Response: **Change field:** is displayed.

17. Enter number of field in error.

    Response: Cursor positioned to change incorrect field.

18. Enter correct data.

19. Are more fields in error?

    If **Yes**, go to Step 20.
    If **No**, go to Step 21.

20. Repeat from Step 17 for next field in error.

21. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

22. Enter **u**

    Response: **FORM UPDATED** displayed momentarily.

23. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

24. Enter **trend**

    Response: The **tr_name** form is displayed.

25. Enter **rc**a

    Where: a = name of form being changed

26. Enter *****

    Response: The **FORM EXECUTED** is displayed momentarily; then **Enter Form Name:** is displayed.

27. Depress **RETURN** key once.

    Response: Recent change is exited.

28. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Request Host Collector (HOC) (Network Recording Management) for Demand Poll

1. Request HOC (Network Recording Management) for demand poll for IC or OC stream.

2. Was **REPT AMA SESSION ESTABLISHED FOR IC/OC STREAM** output message received?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Contact the appropriate support organization for resolution. After resolving, repeat from Step 1.

4. Wait for normal termination output message.

5. Was the following normal termination output message received?

   Response:
   REPT AMA SESSION TERMINATED FOR a **STREAM**
   NORMAL TERMINATION
   FIRST BLOCK TRANSMITTED ____
   LAST BLOCK TRANSMITTED ____
   BLOCKS TRANSMITTED b
   AMA RECORDS TRANSMITTED ____
   PRIMARY POLLS REJECTED 0
   SECONDARY POLLS REJECTED 0
   CURRENT DISK SPACE OCCUPANCY IS 0%
   SESSION START TIME ___ __ __**:**__**:**__
   SESSION STOP TIME ___ __ __**:**__**:**__
   SESSION LENGTH __**:**__**:**__

   where: a = **IC** or **OC**
   b = Number of AMA blocks transmitted

   If **Yes**, go to Step 7.
   If **No**, go to Step 6.

6. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

7. Does output message indicate **DISK SPACE OCCUPANCY** is 0 percent?

   If **Yes**, go to Step 9.
   If **No**, go to Step 8.

8. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

9. Does output message indicate 1 or more **BLOCKS TRANSMITTED**?

   If **Yes**, go to Step 11.
   If **No**, go to Step 10.

10. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

11. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Change Communication Protocol Option Block to 9600 BPS Operation

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **n**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **trbegin**

   Response: **tr_name** form is displayed.

10. Enter **rccpblx3**

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** will be displayed.

11. Enter **e**

    Response: **FORM EXECUTED** displayed momentarily: then **Enter Form Name:** is displayed.

12. Enter **cpblx3**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

13. Enter **u**

    Response: The cpblx3 option form is displayed.

14. Enter **amblx311** (for SDL 20) or **amblx312** (for SDL 22).

    Response: The cpblx3 form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

15. Enter **c**

    Response: **Change field:** is displayed.

16. Enter the number of field to be changed using the following table:

FIELD TO BE CHANGED	DATA TO BE ENTERED
2	9600
4	209A
6	private
19	n

    Response: Cursor positioned to change field.

17. Enter the data associated with the field to be changed using the following table:

FIELD TO BE CHANGED	DATA TO BE ENTERED
2	9600
4	209A
6	private
19	n

18. Are more fields to be changed?

    If **Yes**, go to Step 19.
    If **No**, go to Step 20.

19. Repeat from Step 16 for next field to be changed using the following table:

FIELD TO BE CHANGED	DATA TO BE ENTERED
2	9600
4	209A
6	private
19	n

20. Enter **u**

    Response: **FORM UPDATED** displayed momentarily.

21. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

22. Enter **trend**

    Response: The **tr_name** form is displayed.

23. Enter **rccpblx3**

24. Enter *****

    Response: The **FORM EXECUTED** is displayed momentarily; then **Enter Form Name:** is displayed.

25. Depress **RETURN** key once.

    Response: Recent change is exited.

26. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Determine If Office Teleprocessing Start and Stop Times Need to be Redefined

1. At 3B21D APS MCRT, enter **OP:AMA;CONTROLFILE:a!** for appropriate stream.

   Where: a = **IC** or **OC**

2. Was the the following printout received?

   Response:
   REPT AMA CONTROL FILE FOR a **STREAM**
   OFFICE ID x
   DAYS UNTIL EXPIRATION x
   PROCESS START TIME b
   PROCESS STOP TIME c
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TELEPROCESSING
   DATA TRANSFER d **MANUALLY INHIBITED**
   AMAT PASSWORD 0040x
   HOC PASSWORD x
   BACKUP HOC PASSWORD x
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING e **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where
   a = **IC** or **OC**
   b = Office defined teleprocessing start time
   c = Office defined teleprocessing stop time
   d = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   e = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don't care

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. Using printout in Step 2, determine if start and stop times from HOC (Network Recording Management) are within the **PROCESS START TIME** and **PROCESS STOP TIME**.

5. Are the HOC (Network Recording Management) times within the defined office times?

   If **Yes**, go to Step 8.
   If **No**, go to Step 6.

6. Start and stop times WILL need to be redefined.

7. Go to Step 9.

8. Start and stop times do NOT need to be redefined.

9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Redefine Office Teleprocessing Start and Stop Times

1. At 3B21D APS MCRT, enter **SET:AMA;CONTROL;**a**:START (b), STOP (c)!** for the appropriate stream.

   where: a = **IC** or **OC**
   b = New start time (hh,mm)
   c = New stop time (hh,mm)

2. Was **PROCESS START TIME** and **PROCESS STOP TIME** changed to the entered values using the following printout?

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID x
   DAYS UNTIL EXPIRATION x
   PROCESS START TIME b
   PROCESS STOP TIME c
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TELEPROCESSING
   DATA TRANSFER d **MANUALLY INHIBITED**
   AMAT PASSWORD 0040x
   HOC PASSWORD x
   BACKUP HOC PASSWORD x
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   OFFICE TYPE 004
   AUTOMATIC TAPE WRITING e **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where a = **IC** or **OC**
   b = Teleprocessing start time
   c = Teleprocessing stop time
   d = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   e = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don't care

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Update Backup Data Base

1. At 3B21D APS MCRT, enter message **INH:RCV:ON!**

   Response: **INH RCV COMPLETED**
   4ESS INH RCV COMPL
   RECENT CHANGE INHIBIT ON

2. Was printout received per the above response?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. At 3B21D APS MCRT, enter message **OP:STATUS:FILESYS!**

   Response: **/ on /dev/root read/write on (date)** — system running on root
   .
   .

   OR

   / on /dev/broot read/write on (date) — system running on broot
   .
   .

5. Using 3B21D APS MCRT ROP, determine which file system is running on 3B21D APS.

6. System is running on?

   If **/dev/root**, go to Step 7.
   If **/dev/broot**, go to Step 10.

Note: Steps 7 through 9 are being performed to update broot data base.

7. At 3B21D APS MCRT, enter message **EXC:QCOPY:TOBROOT!** to update broot data base.

   Note: The EXC command requires several minutes to complete.

   Response: **REPT QCOPY DISK COPY COMPLETED**

8. Using 3B21D APS MCRT ROP, Was **REPT QCOPY DISK COPY COMPLETED** message received?

   If **Yes**, go to Step 13.
   If **No**, go to Step 9.

9. Contact the appropriate support organization for resolution. After resolving, repeat from Step 4.

   Note: Steps 10 through 12 are being performed to update root data base.

10. At 3B21D APS MCRT, enter message **EXC:QCOPY:TOROOT!** to update root data base.

    Note: The EXC command requires several minutes to complete.

    Response: **REPT QCOPY DISK COPY COMPLETED**

11. Using 3B21D APS MCRT ROP, Was **REPT QCOPY DISK COPY COMPLETED** message received?

    If **Yes**, go to Step 13.
    If **No**, go to Step 12.

12. Contact the appropriate support organization for resolution. After resolving, repeat from Step 4.

13. At 3B21D APS MCRT, enter message **INH:RCV:OFF!**

    Response: **INH RCV COMPLETED**

    4ESS INH RCV COMPL

    RECENT CHANGE INHIBIT OFF

14. Was printout received per the above response?

    If **Yes**, go to Step 16.
    If **No**, go to Step 15.

15. Determine cause and resolve; repeat from Step 13.

16. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Degrow SDL and SDLC to UNEQIP

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **n**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **trbegin**

   Response: **tr_name** form is displayed.

10. Enter **rcung**.

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

11. Enter **e**

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

12. Enter **ucb**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

13. Enter **u**

    Response: The ucb option form is displayed.

14. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

15. Enter **SDL** or **SDLC** (use capital letters for SDL or SDLC).

    Response: The cursor is positioned at **unit_number**.

16. Enter unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

17. Enter **c**

    Response: **Change field:** is displayed.

18. Enter **21**

    Response: Cursor is positioned to change **major_status:** field.

19. Enter **UNEQIP**

    Response: **major_status:** is changed to UNEQIP.

20. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

21. Enter **u**

    Response: **FORM UPDATED** is displayed momentarily.

22. Are more units to be degrown?

    If **Yes**, go to Step 23.
    If **No**, go to Step 24.

23. Repeat from Step 14 for next unit.

24. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

25. Enter **trend**

    Response: The **tr_name** form is displayed.

26. Enter **rcung**

27. Enter *****

    Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

28. Is recent change to be exited?

    If **Yes**, go to Step 29.
    If **No**, go to Step 30.

29. Depress **RETURN** key once.

    Response: Recent change is exited.

30. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Change SDL and SDLC ECD Parameters to 56K BPS Operation

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **n**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **trbegin**

   Response: **tr_name** form is displayed.

10. Enter **oper56kb**

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

11. Enter **e**

    Response: **FORM EXECUTED** displayed momentarily: then **Enter Form Name:** is displayed.

12. Enter **cpblx3**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

13. Enter **u**

    Response: The cpblx3 option form is displayed.

14. Enter **amblx311** (for SDL 20) or
    enter **amblx312** (for SDL 22).

    Response: The cpblx3 form filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** are displayed.

15. Locate column in Table A, asociated with 56K bps line.

TABLE A

Field to be Changed	Data to be Entered if Dedicated 56K BPS Line	Data to be Entered if Switched 56K BPS Line
2	56000	56000
4	CCITT	CCITT
5	c	s
6	private	noACU
19	n	y
62	y	y

16. Enter **c**

    Response: **Change field:** is displayed.

17. Using Table A in Step 15, enter field number to be changed.

    Response: Cursor positioned at field to be changed.

18. Using Table A in Step 15, enter the data associated with field to be changed.

19. Are more fields to be changed?

    If **Yes**, go to Step 20.
    If **No**, go to Step 21.

20. Repeat from Step 17 for next field to be changed.

21. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

22. Enter **u**

    Response: **FORM UPDATED** displayed momentarily.

23. Enter **<**

    Response: The cpblx3 form is exited and **Enter Form Name:** is displayed.

24. Enter **ucb**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

25. Enter **u**

    Response: The ucb option form is displayed.

26. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

27. Enter **SDL** (use capital letters for SDL).

    Response: The cursor is positioned at **unit_number**.

28. Enter unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

29. Enter **c**

    Response: **Change field:** is displayed.

30. Using Table B, enter number of field to be changed.

TABLE B	
Field to be Changed	**Data to be Entered**
12	HSD
30	pu/dui

    Response: Cursor is positioned at field to be changed.

31. Using Table B in Step 30, enter the data associated with field to be changed.

32. Are more fields to be changed?

    If **Yes**, go to Step 33.
    If **No**, go to Step 34.

33. Repeat from Step 30 for next field to be changed.

34. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

35. Enter **u**

    Response: **FORM UPDATED** is displayed momentarily.

36. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

37. Enter **SDLC** (use capital letters for SDLC).

    Response: The cursor is positioned at **unit_number**.

38. Enter unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

39. Enter **c**

    Response: **Change field:** is displayed.

40. Using Table C, enter number of field to be changed.

TABLE C	
Field to be Changed	**Data to be Entered**
12	HSDC
22	0x2
27	0x52
30	pu/duic
62	t082
64	21

    Response: Cursor is positioned at field to be changed.

41. Using Table C in Step 40, enter the data associated with field to be changed.

42. Are more fields to be changed?

    If **Yes**, go to Step 43.
    If **No**, go to Step 44.

43. Repeat from Step 40 for next field to be changed.

44. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

45. Enter **u**

    Response: **FORM UPDATED** displayed momentarily.

46. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

47. Enter **trend**

    Response: The **tr_name** form is displayed.

48. Enter **oper56kb**

49. Enter *****

    Response: The **FORM EXECUTED** is displayed momentarily; then **Enter Form Name:** is displayed.

50. Depress **RETURN** key once.

    Response: Recent change is exited.

51. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Define Office-Dependent Data on 3B21D Computer

1. At 3B21D APS MCRT, enter message
   SET:AMA;CONTROL;a:OPTION TP,OFFICEID b,HOCPSWD c,BACKUPSWD d!

   where: a = IC or OC
   b = 6-digit office ID assigned by HOC (Network Recording Management)
   c = 10-digit password for normal HOC
   d = 10-digit password for backup HOC

   Response: **REPT AMA CONTROL FILE FOR** a **STREAM**
   OFFICE ID b
   DAYS UNTIL EXPIRATION x
   PROCESS START TIME 00:00
   PROCESS STOP TIME 00:00
   DEFAULT MT FOR AUTO TAPE START x
   AMA OPTION IS TELEPROCESSING
   DATA TRANSFER c **MANUALLY INHIBITED**
   AMAT PASSWORD 0040b
   HOC PASSWORD d
   BACKUP HOC PASSWORD e
   PASSWORD FROM LAST SESSION x
   TAPE SESSION IS NOT IN PROGRESS
   TELEPROCESSING SESSION IS NOT IN PROGRESS
   AUTOMATIC TAPE WRITING f **INHIBITED**
   TAPE SEQUENCE NUMBER x
   TAPE DATA SET ID x
   MAXIMUM DISK WRITE DELAY x **SECONDS**
   MAXIMUM SEQUENCE NUMBER OPTION IS SHORT (x)
   THE FAST STREAM IS a
   DEFERRED FORMATTING IS ALLOWED
   3B APS RECORDING MODE IS x

   where a = **IC** or **OC**
   b = Entered office ID
   c = **IS** (if AMA session is inhibited) or
   IS NOT (if AMA session is allowed)
   d = Entered normal HOC password
   e = Entered backup HOC password
   f = **IS** (if tape writing is inhibited) or
   IS NOT (if tape writing is allowed)
   x = Don’t care

2. Was printout received per previous response?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve. Repeat from Step 1.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Change SDL and SDLC ECD Parameters Back to Lower Speed

1. Is the terminal being used for recent change the 3B21D Recent Change and Verify terminal?

   If **Yes**, go to Step 2.
   If **No**, go to Step 4.

2. At the 3B21D Recent Change and Verify terminal, enter the message **RCV:MENU:RCVECD!**.

3. Go to Step 6.

4. If the terminal being used for recent change is a 3B21D APS MCRT terminal, depress **NORM/DISP** (**PF2**) key.

5. Enter **199** in command mode to obtain display page 199.

6. Enter **incore**

   Response: Cursor positioned at **reviewonly**.

7. Enter **n**

   Response: Cursor positioned at **journaling**.

8. Enter *****

   Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.

9. Enter **trbegin**

   Response: **tr_name** form is displayed.

10. Enter **backup**

    Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.

11. Enter **e**

    Response: **FORM EXECUTED** is displayed momentarily: then **Enter Form Name:** is displayed.

12. Enter **cpblx3**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

13. Enter **u**

    Response: The cpblx3 option form is displayed.

14. Enter **amblx311** (for SDL 20) or
    Enter **amblx312** (for SDL 22)

    Response: The cpblx3 form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** are displayed.

15. Locate column in Table A, for associated speed.

TABLE A

Field to be Changed	Data to be Entered if 4800 BPS	Data to be Entered if 9600 BPS
2	4800	9600
4	2048A	209A
6	noACU	private
19	y	y

16. Enter **c**

    Response: **Change field:** is displayed.

17. Using Table A in Step 15, enter field number to be changed.

    Response: Cursor positioned at field to be changed.

18. Using Table A in Step 15, enter the data associated with field to be changed.

19. Are more fields to be changed?

    If **Yes**, go to Step 20.
    If **No**, go to Step 21.

20. Repeat from Step 17 for next field to be changed.

21. Is speed going back to 4800bps?

    If **Yes**, go to Step 22.
    If **No**, go to Step 45.

22. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

23. Enter **u**

    Response: **FORM UPDATED** is displayed momentarily.

24. Enter **<**

    Response: The cpblx3 form is exited and **Enter Form Name:** is displayed.

25. Enter **ucb**

    Response: **Enter Database Operation I=Insert R=Review U=Update D=Delete** is displayed.

26. Enter **u**

    Response: The ucb option form is displayed.

27. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

28. Enter **SDL** (use capital letters for SDL).

    Response: The cursor is positioned at **unit_number**.

29. Enter unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

30. Enter **c**

    Response: **Change field:** is displayed.

31. Using Table B, enter number of field to be changed.

TABLE B	
Field to be Changed	**Data to be Entered**
12	SDL
30	pu/sdl

    Response: Cursor is positioned at field to be changed.

32. Using Table B in Step 31, enter the data associated with field to be changed.

33. Are more fields to be changed?

    If **Yes**, go to Step 34.
    If **No**, go to Step 35.

34. Repeat from Step 31 for next field to be changed.

35. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

36. Enter **u**

    Response: **FORM UPDATED** is displayed momentarily.

37. Depress **RETURN** key twice.

    Response: The cursor is positioned at **unit_name**.

38. Enter **SDLC** (use capital letters for SDLC).

    Response: The cursor is positioned at **unit_number**.

39. Enter unit number.

    Response: The ucb form is filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

40. Enter **c**

    Response: **Change field:** is displayed.

41. Using Table C, enter number of field to be changed.

TABLE C

Field to be Changed	Data to be Entered
12	SDLC
22	0x4 (RS232C-209A Data Set) 0x8 (RS449-2048A/2096A Data Set)
27	0x1
30	pu/sdlc
64	blank

    Response: Cursor is positioned at field to be changed.

42. Using Table C in Step 41, enter the data associated with field to be changed.

43. Are more fields to be changed?

    If **Yes**, go to Step 44.
    If **No**, go to Step 45.

44. Repeat from Step 41 for next field to be changed.

45. Depress **RETURN** key once.

    Response: **Enter Update, Change, Substitute, Validate, screen#, or Print:** is displayed.

46. Enter **u**

    Response: **FORM UPDATED** displayed momentarily.

47. Enter **<**

    Response: The ucb form is exited and **Enter Form Name:** is displayed.

48. Enter **trend**

    Response: The **tr_name** form is displayed.

49. Enter **backup**

50. Enter *****

    Response: The **FORM EXECUTED** is displayed momentarily; then **Enter Form Name:** is displayed.

51. Depress **RETURN** key once.

    Response: Recent change is exited.

52. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Write 3B21D APS Backup Tapes

Note: The 4-mm tape length must be 90 M.

Caution: Care must be taken when inserting the tape into the DAT unit. Tape must not be forced.

1. Insert blank or erasable 4-mm tape with write-protect tab in the up (unlocked) position into available 3B21D APS DAT unit [DLP-511].

2. At 3B21D APS MCRT, enter message
   EXC:ENVIR:UPROC,FN"/tools/bootaud"!

   Response: **EXC ENV UPROC /tools/bootaud COMPLETED**

3. Was message received per previous response?

   If **Yes**, go to Step 5.
   If **No**, go to Step 4.

4. Determine cause and resolve. Repeat from Step 2.

5. Were errors received in previous response?

   If **Yes**, go to Step 6.
   If **No**, go to Step 7.

6. Correct errors received in previous step. Repeat from Step 2.

7. At 3B21D APS MCRT, enter message
   DUMP:FILE:ALL,FN"/etc/pdtspec"! to dump the /etc/pdtspec file.

   Response: DUMP FILE ALL COMPLETED
   /dev/lboot
   /dev/lboot21
   /dev/vtoc
   /dev/boot
   /dev/bboot
   /dev/root
   /dev/etc
   /dev/db
   /dev/amafiles
   /dev/amabfiles

8. Were all /etc/pdtspec files, listed in previous step, received?

   If **Yes**, go to Step 10.
   If **No**, go to Step 9.

9. Contact next higher support organization for resolution. After resolving, repeat from Step 7.

10. At 3B21D APS MCRT, enter message
    COPY:BKDISK;START:SRC"/dev/vtoc",TD"/dev/mtX**0",TPSIZE 90,COM!**
    (where X = DAT unit number with backup tape inserted [0 or 1]).

    Note: This procedure is based on using a tape size of 90 M (TPSIZE 90). Other tape sizes are not valid for this procedure.

    Response: **COPY BKDISK DISMOUNT GENERIC TAPE LABEL AND MOUNT NEXT TAPE**

11. Was printout received per the previous step?

    If **Yes**, go to Step 13.
    If **No**, go to Step 12.

12. Determine cause and resolve; repeat from Step 10.

13. Remove tape from DAT unit using DLP-512, label the tape **rt0 1**, and put write-protect tab in the down (locked) position.

14. Insert blank or erasable 4-mm tape with write-protect tab in the up (unlocked) position into same 3B21D APS DAT unit that **rt0 1** tape was removed from [DLP-511].

15. At 3B21D APS MCRT, enter message
COPY:BKDISK;ACK:TPSIZE 90!

    Note: This procedure is based on using a tape size of 90 M (TPSIZE 90). Other tape sizes are not valid for this procedure.

    Response: **COPY BKDISK COMPLETED, DISMOUNT DATABASE TAPE AND LABEL**

16. Was printout received per the previous step?

    If **Yes**, go to Step 18.
    If **No**, go to Step 17.

17. Determine cause and resolve; repeat from Step 14.

18. Remove tape from DAT unit using DLP-512, label the tape **db**, and put write-protect tab in the down (locked) position.

19. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify 3B21D APS Backup Tapes

1. Insert one 3B21D APS backup tape on available DAT unit using DLP-511.

2. At 3B21D APS MCRT, enter message
   VFY:TAPE,TD"/dev/mtX**0"!**
   (where X = DAT unit number with backup tape inserted [0 or 1]).

   Response: **VFY TAPE STARTED**
   VFY TAPE COMPLETED RETRIES 0 HEADER MISMATCHES 0 DATA MISMATCHES 0

3. After tape verifies, was printout received per the previous step?

   If **Yes**, go to Step 5.
   If **No**, go to Step 4.

4. Determine cause and resolve. Tapes may need to be rewritten.

5. Remove backup tape from DAT unit using DLP-512.

6. Have all backup tapes been verified?

   If **Yes**, go to Step 7.
   If **No**, repeat from Step 1.

7. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify 3B21D APS System Status

Note: This procedure is used to verify system status for the 3B21D APS.

1. Contact next higher support organization to verify Steps 2 through 7.

2. Ensure 3B21D APS has not experienced terminal suspends, bootstraps, diagnostic failures, or overloads within past 24 hours.

3. Ensure both CUs have been diagnosed ATP within the past 24 hours.

4. Ensure that there are no existing system problems and all system problems have been cleared.

5. Ensure CNI ring has no existing problems and all CNI ring problems have been cleared.

6. Ensure all link nodes in CNI ring are in ACT-USBL state and have not experienced any problems within past 24 hours.

7. Ensure signaling link has no existing problems and all signaling link problems have been cleared.

8. At 1B Processor MCC terminal, enter **108** to obtain System Status Display Page (108).

9. On the System Status Display Page (108), enter **810** (**SDC - SERVICE DEGRADING FAILURE**) to obtain service-degrading report printout. If there are units listed in the report, contact next higher support organization for direction.

10. At 1B Processor MCC terminal, enter **118** to obtain 1B Processor Status Display Page (118).

11. On the 1B Processor Status Display Page (118), ensure APIs are in ACTIVE-STANDBY mode.

12. At 3B21D APS MCRT, depress **NORM/DISP** (**PF2**) key, position cursor at top of screen with **CMD/MSG** key, and enter **102** in command mode to obtain the Common Processor Display Page (102).

13. On the Common Processor Display Page (102), ensure disks and IOPs are duplex and CUs are in ACTIVE-STANDBY mode.

14. At 3B21D APS MCRT, enter message **OP:STATUS:FILESYS!**

    Response: / on /dev/root read/write on (date) — system running on root
    .
    .

    OR

    / on /dev/broot read/write on (date) — system running on broot
    .
    .

15. At 3B21D APS MCRT, depress **EA DISP** key.

16. Using 3B21D APS MCRT ROP, determine which file system is running on 3B21D APS.

17. System is running on?

    If **/dev/root**, go to Step 18.
    If **/dev/broot**, go to Step 24.

18. At 3B21D APS MCRT, enter **31** in command mode.

19. At 3B21D APS MCRT, enter **33** in command mode.

20. At 3B21D APS MCRT, enter message **SW:PORTSW!**

21. At 3B21D APS MCRT, depress **EA DISP** key.

22. At 3B21D APS MCRT, enter **31** in command mode.

23. At 3B21D APS MCRT, enter **33** in command mode.

24. Continue with Step 31.

25. At 3B21D APS MCRT, enter **30** in command mode.

26. At 3B21D APS MCRT, enter **33** in command mode.

27. At 3B21D APS MCRT, enter message **SW:PORTSW!**

28. At 3B21D APS MCRT, depress **EA DISP** key.

29. At 3B21D APS MCRT, enter **30** in command mode.

30. At 3B21D APS MCRT, enter **33** in command mode.

31. At 3B21D APS MCRT, depress **NORM/DISPLAY (PF2)** key and enter **1107** in command mode to obtain the DLN/API Stream Status Display Page (1107).

32. On the DLN/API Stream Status Display Page (1107), ensure HDWR STATE and APPL STATE for two DLNs are set to **ACT**. Ensure MODE is **1WAY IN** and STREAM is **SCANIN** for one DLN; and MODE is **1WAY OUT** and STREAM is **SCANOUT** for the other DLN.

33. At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key and enter message **OP:AUD:ALL!**.

34. At 3B21D APS MCRT ROP, locate audit status printout and record any audits that are inhibited. These audits will have to be allowed before performing growth.

35. At 3B21D APS MCRT, enter message **OP:RING;DETD!** and ensure that no ‘‘**i**’’ is listed for any link node. (‘‘i’’ = isolated).

36. At 3B21D APS MCRT, verify API-DLN stream status (**OP:DLNCM;STREAM!**) using DLP-532.

37. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Run File System Audits to Ensure No File System Errors

1. At 3B21D APS MCRT, enter message **OP:STATUS:FILESYS!**

   Response: **/ on /dev/root read/write on (date)** — system running on root
   .
   .

   OR

   / on /dev/broot read/write on (date) — system running on broot
   .
   .

2. Using 3B21D APS MCRT ROP, determine which file system is running on 3B21D APS.

3. System is running on?

   If **/dev/root**, go to Step 4.
   If **/dev/broot**, go to Step 18.

Note: Steps 4 through 16 are being performed to run file system block and file system linkage audits on root file system.

4. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**"!**, for one of the following files, to run the file system block audit on the primary partition:

   where a = **/dev/root**
   /dev/db
   /dev/etc
   /dev/log
   /dev/tdas

   Response: **AUD ENV=RTR FSBLK 1 a COMPLETED**
   x ERRORS FOUND
   x ERRORS CORRECTED
   (where x is the number of errors).

5. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

   If **Yes**, go to Step 9.
   If **No**, go to Step 6.

6. Contact the appropriate support organization before running audit in CORR mode.

7. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

8. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

9. Has file system block audit been run on all the files listed in Step 4?

   If **Yes**, go to Step 11.
   If **No**, go to Step 10.

10. Repeat from Step 4 for next file that has not been run.

11. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**"!**, for one of the following files, to run the file system linkage audit on the primary partition:

    where a = **/dev/root**
    /dev/db
    /dev/etc
    /dev/log
    /dev/tdas

    Response: **AUD ENV=RTR FSLINK 1 a COMPLETED**
    x ERRORS FOUND
    x ERRORS CORRECTED
    (where x is the number of errors).

12. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

    If **Yes**, go to Step 16.
    If **No**, go to Step 13.

13. Contact the appropriate support organization before running audit in CORR mode.

14. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

15. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

16. Has file system linkage audit been run on all the files listed in Step 11?

    If **Yes**, go to Step 32.
    If **No**, go to Step 17.

17. Repeat from Step 11 for next file that has not been run.

Note: Steps 18 through 31 are being performed to run file system block and file system linkage audits on broot file system.

18. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**"!**, for one of the following files, to run the file system block audit on the primary partition:

    where a = **/dev/broot**
    /dev/bdb
    /dev/betc
    /dev/log
    /dev/tdas

    Response: **AUD ENV=RTR FSBLK 1 a COMPLETED**
    x ERRORS FOUND
    x ERRORS CORRECTED
    (where x is the number of errors).

19. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

    If **Yes**, go to Step 23.
    If **No**, go to Step 20.

20. Contact the appropriate support organization before running audit in CORR mode.

21. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

22. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

23. Has file system block audit been run on all the files listed in Step 18?

    If **Yes**, go to Step 25.
    If **No**, go to Step 24.

24. Repeat from Step 18 for next file that has not been run.

25. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**"!**, for one of the following files, to run the file system linkage audit on the primary partition:

    where a = **/dev/broot**
    /dev/bdb
    /dev/betc
    /dev/log
    /dev/tdas

    Response: **AUD ENV=RTR FSLINK 1 a COMPLETED**
    x ERRORS FOUND
    x ERRORS CORRECTED
    (where x is the number of errors).

26. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

    If **Yes**, go to Step 30.
    If **No**, go to Step 27.

27. Contact the appropriate support organization before running audit in CORR mode.

28. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

29. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

30. Has file system linkage audit been run on all the files listed in Step 25?

    If **Yes**, go to Step 32.
    If **No**, go to Step 31.

31. Repeat from Step 25 for next file that has not been run.

32. At 3B21D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/bootaud"! to run boot audits.

Note: The boot audit will take approximately 5 minutes to complete.

Response: **REPT BOOTAUD STARTING AUDIT OF BOOT CRITICAL DATA**
REPT BOOTAUD COMPLETE - TOTAL OF 0 ERRORS DETECTED
EXC ENVIR UPROC /tools/bootaud COMPLETED

Observe the ROP and wait for
EXC ENVIR UPROC /tools/bootaud COMPLETED message and ensure no errors are received. **Do not** continue until errors, if received, are corrected. T}>TELCO>— _

33. Was message received per previous response?

If **Yes**, go to Step 35.
If **No**, go to Step 34.

34. Determine cause and resolve. Repeat from Step 32.

35. Were errors received in previous response?

If **Yes**, go to Step 36.
If **No**, go to Step 37.

36. Contact appropriate support organization for resolution. After resolving, repeat from Step 32.

37. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify 3B21D APS API-DLN Stream Status

1. At 3B21D APS MCRT, enter message **OP:DLNCM;STREAM!**

   Response: The information shown in Figure 1 is displayed and printed.

```
OP DLNCM STREAM COMPLETED

API-DLN STREAM STATUS

APII: SCAN BOTH                          DLN: SCAN BOTH

INCOMING BUFFER                          OUTGOING BUFFER
   START                X'--------          START                X'--------
   END                  X'--------          END                  X'--------
   LOAD POINTER         X'--------          LOAD POINTER         X'--------
   UNLOAD POINTER       X'--------          UNLOAD POINTER       X'--------
   END POINTER          X'--------          END POINTER          X'--------
   -------- = VARIABLE HEX DATA
```

Figure 1. Sample OP:DLNCM printout

2. Was printout received similar to Figure 1?

   If **Yes**, go to Step 3.
   If **No**, go to Step 4.

3. Does printout show API and DLN as SCAN BOTH?

   If **Yes**, go to Step 5.
   If **No**, go to Step 4.

4. Contact next higher support organization for resolution. After resolving, repeat from Step 1.

5. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Restore Standby 3B21D APS Control Unit (CU) to Service Using Power Switch

1. At standby 3B21D APS CU 0 power switch, operate **ROS/RST** switch to **RST**.

   Note: It will take approximately 30 minutes for restore to complete.

   Response: **ROS** LED goes off
   RQIP LED lights momentarily
   OOS LED goes off
   At 3B APS MCRT,
   RST CU a **TASK** x **MESSAGE STARTED**
   RMV CU a **COMPLETED**
   DGN CU a b **COMPLETED ATP MESSAGE IN PROGRESS**
   (message repeated for each unit associated with CU)
   DGN CU a **COMPLETED CATP (**zz**,**zz**) MSG IN PROGRESS**
   RST CU a **IN PROGRESS**
   RST: CU a **COMPLETED**

2. Were proper responses received per the previous step?

   If **Yes**, go to Step 6.
   If **No**, go to Step 3.

3. Is failure a result of a TELCO/INST instruction?

   If **Yes**, go to Step 5.
   If **No**, go to Step 4.

4. Clear diagnostic failure using the following document; then repeat from Step 1:
   3B21D APS - 254-303-106.

5. Refer trouble to installer for resolution; then repeat from Step 1.

6. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

SDLC (UN582) Circuit Pack Locations and Fuse Locations

SDLC Circuit Pack and Fuse Locations			
SDLC	**Circuit Pack (UN582) Location**	**PC**	**Fuse Location**
0	19-130	10-11	C023
10	19-138	10-11	C023
12	19-146	12-13	A032
14	19-154	12-13	A032
16	28-094	20-21	C041
11	45-138	10-11	C177
13	45-146	12-13	A168
15	45-154	12-13	A168
17	53-094	20-21	C159

TTYC (UN582) Circuit Pack Locations and Fuse Locations

TTYC Circuit Pack and Fuse Locations			
TTYC	**EQL**	**PC**	**Fuse Location**
0	19-102	0-1	B014
18	28-102	20-21	C041
20	28-110	22-23	A023
22	28-118	22-23	A023
26	28-138	30-32/SPU 04	A041
1	45-102	0-1	B186
9	45-130	10-11	C177
19	53-102	20-21	C159
21	53-110	22-23	A177
23	53-118	22-23	A177
27	53-138	30-32/SPU 05	A159

Remove Synchronous Data Link Controller (SDLC) From Service

1. At 3B21D APS MCRT, enter message **RMV:SDLC** a**!**

   where a = SDLC member number.

   Response: **RMV SDLC** a **TASK** X **MESSAGE STARTED**
   RMV SDLC a **COMPLETED**

2. Was printout received per the previous step?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Restore Synchronous Data Link Controller (SDLC) to Service

1. At 3B21D APS MCRT, enter message **RST:SDLC** a**!**

   where a = SDLC member number.

   Response: **RST SDLC** a **TASK** X **MESSAGE STARTED**
   RMV SDLC a **STOPPED X'5**
   DGN SDLC a **COMPLETED ATP MESSAGE IN PROGRESS**
   RST SDLC a **COMPLETED**
   RST SDL b **COMPLETED** (if equipped)
   RST SDL c **COMPLETED** (if equipped)
   DGN SDLC a **ATP MESSAGE COMPLETE**

2. Was printout received per the previous step?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Refer trouble to installer for resolution; then repeat from Step 1.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Copy Incore Equipment Configuration Data Base ECD to Disk - For 4AP17 and Later Generics Only

1. At 3B21D APS MCRT, enter message
   EXC:ENVIR:UPROC,FN"/database/tools/activate"!
   to copy ECD to disk.

   Response: **REPT ACTIVATE STARTED**
   REPT ACTIVATE COMPLETED SUCCESSFULLY
   EXC ENVIR UPROC /database/tools/activate COMPLETED

2. Was printout received per the previous step?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Remove Synchronous Data Link (SDL) From Service

1. At 3B21D APS MCRT, enter message **RMV:SDL** a**!**

   where a = SDL member number.

   Response: **RMV SDL** a **TASK** X **MESSAGE STARTED**
   RMV SDL a **COMPLETED**

2. Was printout received per the previous step?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Run File System Audits to Ensure No File System Errors For NEMOS Conversion to 56K Operation

1. At 3B21D APS MCRT, enter message **OP:STATUS:FILESYS!**

   Response: **/ on /dev/root read/write on (date)** — system running on root
   .
   .

   OR

   / on /dev/broot read/write on (date) — system running on broot
   .
   .

2. Using 3B21D APS MCRT ROP, determine which file system is running on 3B21D APS.

3. System is running on?

   If **/dev/root**, go to Step 4.
   If **/dev/broot**, go to Step 18.

Note: Steps 4 through 16 are being performed to run file system block and file system linkage audits on root file system.

4. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**"!**, for one of the following files, to run the file system block audit on the primary partition:

   where a = **/dev/root**
   /dev/db
   /dev/etc

   Response: **AUD ENV=RTR FSBLK 1 a COMPLETED**
   x ERRORS FOUND
   x ERRORS CORRECTED
   (where x is the number of errors).

5. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

   If **Yes**, go to Step 9.
   If **No**, go to Step 6.

6. Contact the appropriate support organization before running audit in CORR mode.

7. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

8. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

9. Has file system block audit been run on all the files listed in Step 4?

   If **Yes**, go to Step 11.
   If **No**, go to Step 10.

10. Repeat from Step 4 for next file that has not been run.

11. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**"!**, for one of the following files, to run the file system linkage audit on the primary partition:

    where a = **/dev/root**
    /dev/db
    /dev/etc

    Response: **AUD ENV=RTR FSLINK 1 a COMPLETED**
    x ERRORS FOUND
    x ERRORS CORRECTED
    (where x is the number of errors).

12. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

    If **Yes**, go to Step 16.
    If **No**, go to Step 13.

13. Contact the appropriate support organization before running audit in CORR mode.

14. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

15. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

16. Has file system linkage audit been run on all the files listed in Step 11?

    If **Yes**, go to Step 32.
    If **No**, go to Step 17.

17. Repeat from Step 11 for next file that has not been run.

Note: Steps 18 through 31 are being performed to run file system block and file system linkage audits on broot file system.

18. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**"!**, for one of the following files, to run the file system block audit on the primary partition:

    where a = **/dev/broot**
    /dev/bdb
    /dev/betc

    Response: **AUD ENV=RTR FSBLK 1 a COMPLETED**
    x ERRORS FOUND
    x ERRORS CORRECTED
    (where x is the number of errors).

19. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

    If **Yes**, go to Step 23.
    If **No**, go to Step 20.

20. Contact the appropriate support organization before running audit in CORR mode.

21. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

22. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

23. Has file system block audit been run on all the files listed in Step 18?

    If **Yes**, go to Step 25.
    If **No**, go to Step 24.

24. Repeat from Step 18 for next file that has not been run.

25. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**"!**, for one of the following files, to run the file system linkage audit on the primary partition:

    where a = **/dev/broot**
    /dev/bdb
    /dev/betc

    Response: **AUD ENV=RTR FSLINK 1 a COMPLETED**
    x ERRORS FOUND
    x ERRORS CORRECTED
    (where x is the number of errors).

26. Using 3B21D APS MCRT ROP, are the values the same for **ERRORS FOUND** and **ERRORS CORRECTED**?

    If **Yes**, go to Step 30.
    If **No**, go to Step 27.

27. Contact the appropriate support organization before running audit in CORR mode.

28. At 3B21D APS MCRT, enter message **AUD:FSLINK 1,INS"**a**";CORR!** to run the audit again specifying the Correction (CORR) mode.

29. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.

30. Has file system linkage audit been run on all the files listed in Step 25?

    If **Yes**, go to Step 32.
    If **No**, go to Step 31.

31. Repeat from Step 25 for next file that has not been run.

32. At 3B21D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/bootaud"! to run boot audits.

Note: The boot audit will take approximately 5 minutes to complete.

Response: **REPT BOOTAUD STARTING AUDIT OF BOOT CRITICAL DATA**
REPT BOOTAUD COMPLETE - TOTAL OF 0 ERRORS DETECTED
EXC ENVIR UPROC /tools/bootaud COMPLETED

Observe the ROP and wait for
EXC ENVIR UPROC /tools/bootaud COMPLETED message and ensure no errors are received. **Do not** continue until errors, if received, are corrected.

33. Was message received per previous response?

If **Yes**, go to Step 35.
If **No**, go to Step 34.

34. Determine cause and resolve. Repeat from Step 32.

35. Were errors received in previous response?

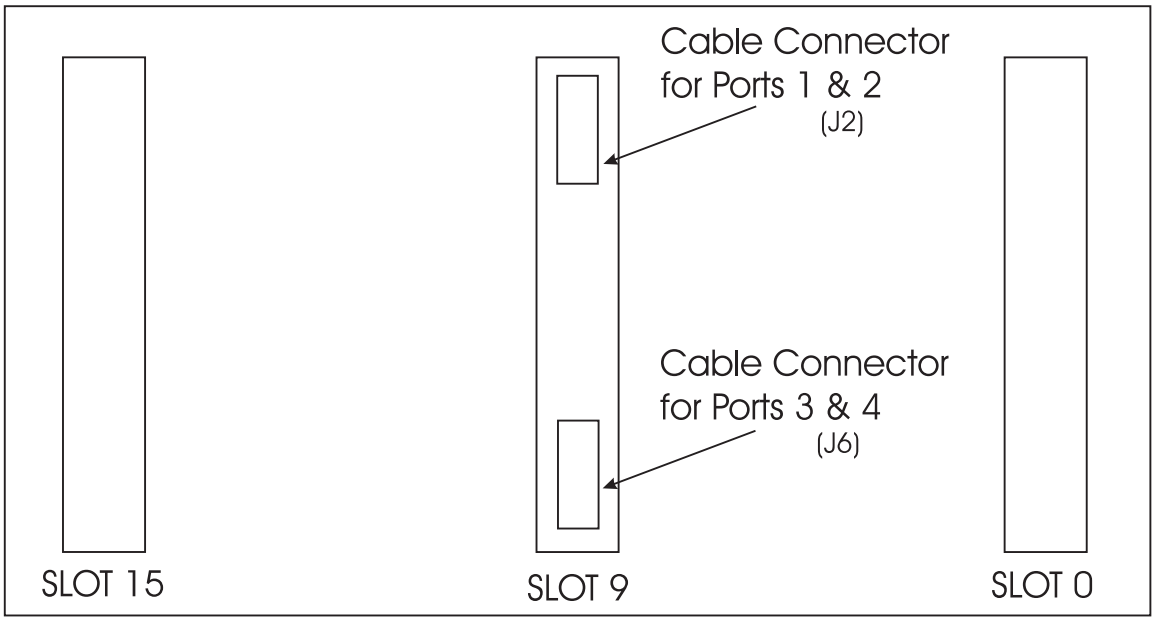
If **Yes**, go to Step 36.
If **No**, go to Step 37.

36. Contact appropriate support organization for resolution. After resolving, repeat from Step 32.

37. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Figures for Converting NEMOS Links to 56K Operation

MPC15-1 Rear View



MPC15-1.cdr

Figure 1. MPC 15-1 Rear View

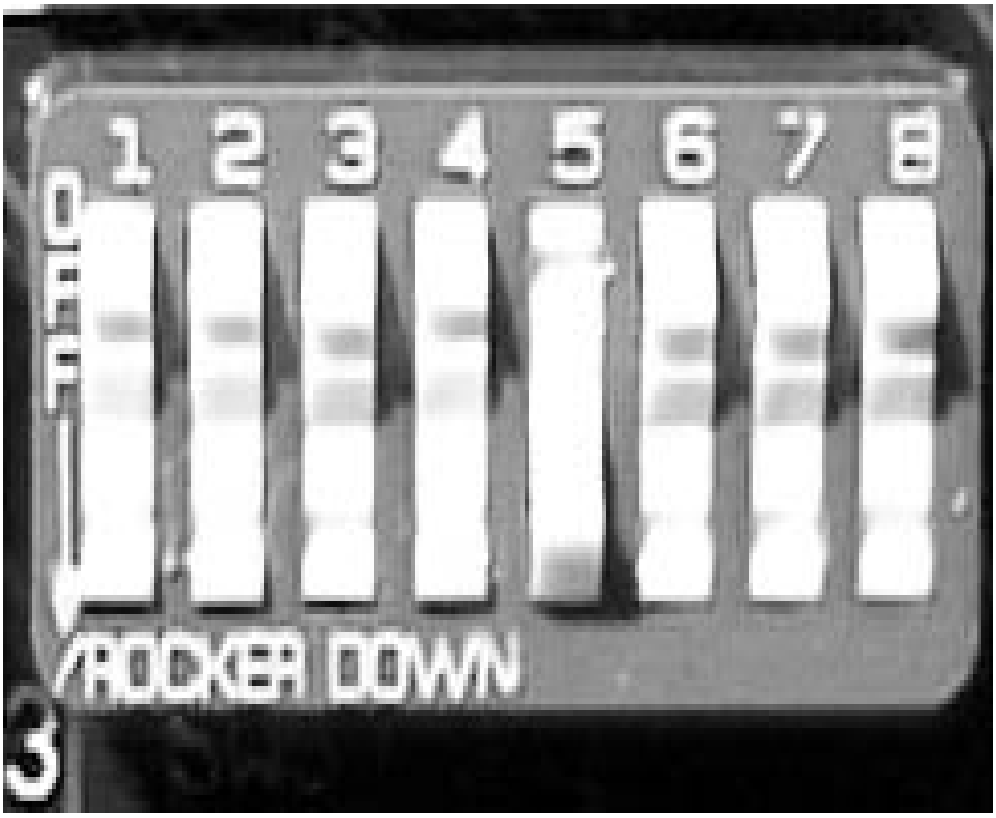


Figure 2. Photograph of Internal Dip Switches on Modem Eliminator

Internal DIP Switches on Modem Eliminator

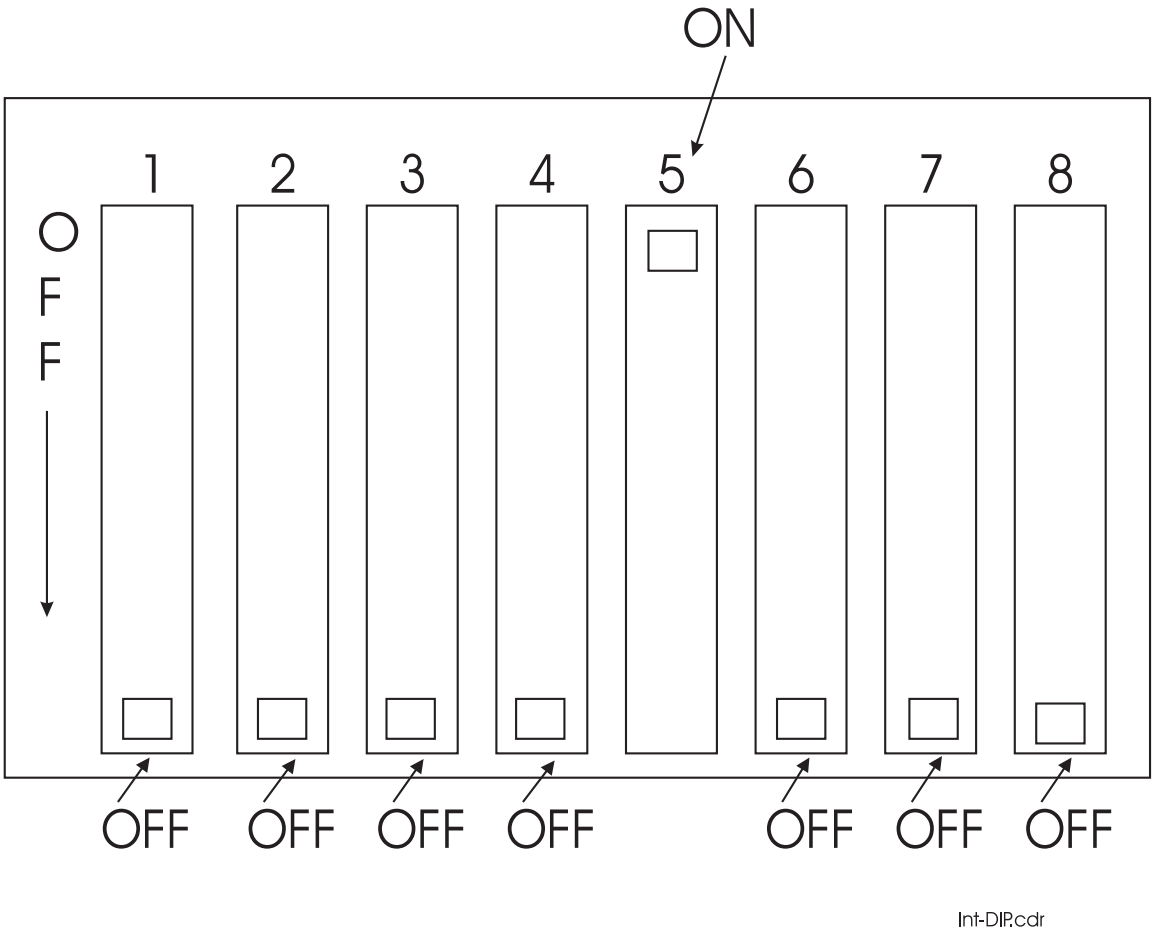


Figure 3. Internal Dip Switches on Modem Eliminator

Front View of Modem Eliminator Shelf

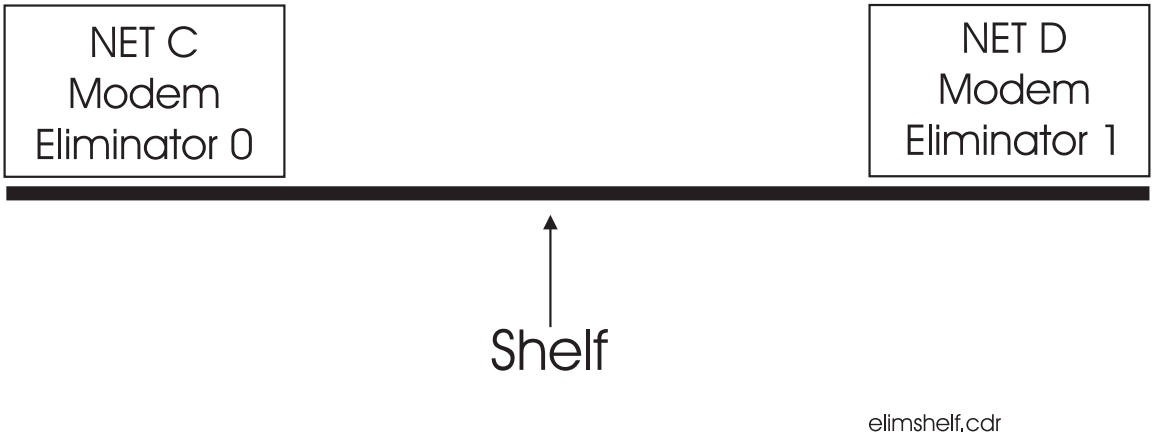


Figure 4. Front View of Modem Eliminator Shelf

NET C Data Linking

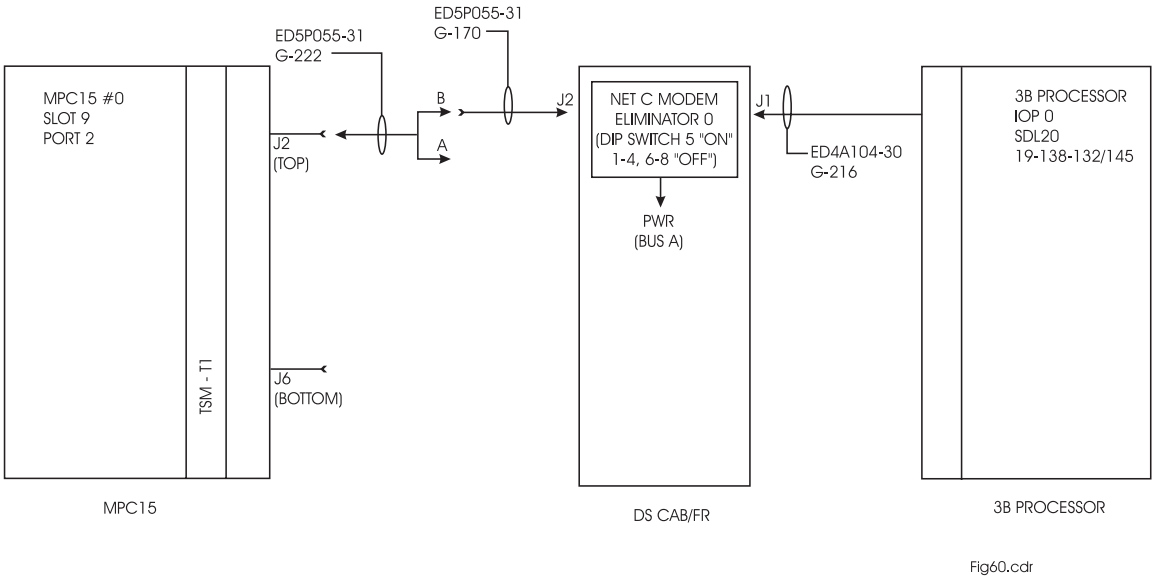


Figure 5. NET C Data Linking

NET D Data Linking

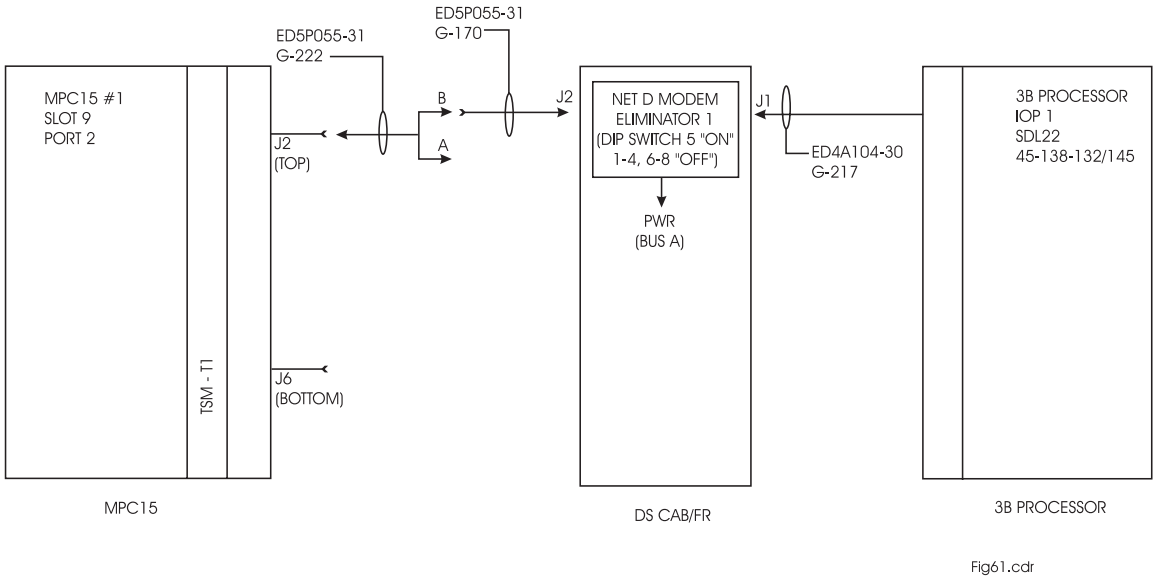


Figure 6. NET D Data Linking

Verify 3B APS Recording Mode for NEMOS

1. At 3B21D APS MCRT, enter message
   OP:AMA;STREAM! to determine the AMA stream used in the 4ESS Switch.

   Response at 3B21D APS MCRT ROP:
   REPT AMA STREAM INDICATOR IS a

   where a = **IC**, **OC**, or **DUAL**

2. Was printout received per the previous step?

   If **Yes**, go to Step 4.
   If **No**, go to Step 3.

3. Determine cause and resolve; repeat from Step 1.

4. At 3B21D APS MCRT, enter message
OP:AMA;CONTROLFILE! to verify that CDRP is active in the 4ESS Switch.

> ***Note:*** The OC STREAM report will print if the AMA Stream Indicator in Step 1 indicates **DUAL** or **OC**. The IC STREAM report will print if the AMA Stream Indicator in Step 1 indicates **DUAL** or **IC**. ***3B APS RECORDING MODE IS CDRP*** will only print with the IC STREAM report.

Response at 3B21D APS MCRT ROP:

REPT AMA CONTROL FILE FOR OC STREAM
OFFICE ID x
DAYS UNTIL EXPIRATION x
PROCESS START TIME 00:00
PROCESS STOP TIME 00:00
DEFAULT MT FOR AUTO TAPE START x
AMA OPTION IS TELEPROCESSING
DATA TRANSFER x **MANUALLY INHIBITED**
AMAT PASSWORD x
HOC PASSWORD x
BACKUP HOC PASSWORD x
PASSWORD FROM LAST SESSION x
TAPE SESSION IS NOT IN PROGRESS
TELEPROCESSING SESSION IS NOT IN PROGRESS
AUTOMATIC TAPE WRITING x **INHIBITED**
TAPE SEQUENCE NUMBER x
TAPE DATA SET ID x
MAXIMUM DISK WRITE DELAY x **SECONDS**
MAXIMUM SEQUENCE NUMBER OPTION IS x
AIN CALL CODE = x

Response is continued on next page.

Response at 3B21D APS MCRT ROP (Con't):

REPT AMA CONTROL FILE FOR IC STREAM
OFFICE ID x
DAYS UNTIL EXPIRATION x
PROCESS START TIME 00:00
PROCESS STOP TIME 00:00
DEFAULT MT FOR AUTO TAPE START x
AMA OPTION IS TELEPROCESSING
DATA TRANSFER x **MANUALLY INHIBITED**
AMAT PASSWORD x
HOC PASSWORD x
BACKUP HOC PASSWORD x
PASSWORD FROM LAST SESSION x
TAPE SESSION IS NOT IN PROGRESS
TELEPROCESSING SESSION IS NOT IN PROGRESS
AUTOMATIC TAPE WRITING x **INHIBITED**
TAPE SEQUENCE NUMBER x
TAPE DATA SET ID x
MAXIMUM DISK WRITE DELAY x **SECONDS**
MAXIMUM SEQUENCE NUMBER OPTION IS x
THE FAST STREAM IS OC
DEFERRED FORMATTING x **ALLOWED**

3B APS RECORDING MODE IS CDRP

where x = Don't care

5. Was printout received per the previous step?

   If **Yes**, go to Step 7.
   If **No**, go to Step 6.

6. Determine cause and resolve; repeat from Step 1.

7. Did ***3B APS RECORDING MODE IS CDRP*** print as the last line of the IC STREAM report?

   If **Yes**, go to Step 9.
   If **No**, go to Step 8.

8. Notify next higher support organization that ***3B APS RECORDING MODE IS CDRP*** was not on this printout.

9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Checklist

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-522		TNG-893			
NTP-002		DLP-523 □					
NTP-003		DLP-524					
NTP-004		DLP-525					
NTP-005		DLP-526					
NTP-006		DLP-527					
NTP-007		DLP-528					
NTP-008		DLP-529					
NTP-009 □		DLP-530					
NTP-010 □		DLP-531					
NTP-011 □		DLP-532					
NTP-012		DLP-533 □					
NTP-013 •		DLP-534 □					
DLP-500		DLP-535 □					
DLP-501		DLP-536 □					
DLP-502		DLP-537 □					
DLP-503		DLP-538 □					
DLP-504		DLP-539 □					
DLP-505		DLP-540 □					
DLP-506		DLP-541 □					
DLP-507		DLP-542 □					
DLP-508		DLP-543 □					
DLP-509		DLP-544					
DLP-510		DLP-545					
DLP-511		DLP-546					
DLP-512		DLP-547 □					
DLP-513		DLP-548 □					
DLP-514		DLP-549 •					
DLP-515		DLP-550 •					
DLP-516		DLP-551 •					
DLP-517		DLP-552 •					
DLP-518		DLP-553 •					
DLP-519		DLP-554 •					
DLP-520 □		DLP-555 •					
DLP-521		CKL-891					

• Revised or added item

□ Not Used

HOW TO USE THIS DOCUMENT

This document gives you all the step-by-step instructions you need to do your job (task). These instructions are given in the order that they *must* be done. Failure to follow the instructions in the order given may cause service interruptions.

This document is divided into parts called procedures. Each procedure is given a 3-digit number. These numbers range from 001 through 893. Procedures are arranged in this document in numerical order beginning with 001.

Figure 1 is a typical IXL-001 procedure and is titled *Task Index List*. It is an alphabetical listing of the jobs that you may have to do. To use an IXL-001 procedure, just find the job you need to do in the FIND YOUR JOB IN THE LIST BELOW column. Next, follow the dotted line to the procedure number and begin the task. For example, suppose you are given the job of doing a system test. On the IXL-001 procedure, as shown in Figure 1, notice that it is listed in the THEN GO TO column as NTP-016. It could have been any other 3-digit number.

Figure 2 is an example of an NTP (Non-Trouble Procedure). Each NTP provides specific instructions for doing a job. It consists of numbered items (or steps) listed in the order that you must do them to complete your job. To use this procedure, you must start with item 1 in the DO THE ITEMS BELOW IN ORDER LISTED column and continue until all items have been done. When you get to an item that you do not know how to do, look for the procedure number for that item under the FOR DETAILS, GO TO column. This is the number of the procedure that will give you detailed, step-by-step instructions to do that item. Note that item 2 in Figure 2 uses lettered (A, B) entries. This means that there are alternate ways of doing item 2 depending on equipment options or equipment conditions. You do only the one that fits your equipment options or equipment conditions.

For example, suppose you are doing a system test. The IXL-001 as shown in Figure 1, has directed you to NTP-016 as shown in Figure 2, and you are on item 8 ‘‘Mount Tape’’ in the DO ITEMS BELOW IN ORDER LISTED column. Mount the tape if you know how. If you do not know how to mount the tape, go to the procedure number listed in the FOR DETAILS, GO TO column for the detailed, step-by-step instructions. In this case, it happens to be DLP-500. In either case, you must continue with the next item listed in NTP-016 until you complete the job.

LT 123-456-789 IXL-001
Issue 2 Page 1 of 2

TASK INDEX LIST

FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
Alert; External - Horn, Ringer, Etc. - Remove	NTP-028
Amplifiers; Channel - Recorded Announcement Frame - Test	NTP-009
BRDG LED - Does Not Light - Correct	TAP-117
Bridging Controller; Trunk - J1C015MB - Replace	DLP-572
Channel Amplifiers - Recorded Announcement Frame - Test	NTP-009
Extended Station Capability - Nonkey Set Only - Reported Failure	TAP-123
External Alert - Horn, Ringer, Etc. - Remove	NTP-028
Interchange Two Working Station Numbers	NTP-081
LED: BRDG - Does Not Light - Correct	TAP-117
Loudspeaker Paging - Add	NTP-059
New International Trunk, R1 Signaling - Incoming - Establish	NTP-010
New Tandem Trunk - T-Carrier and Digroup Terminal - Establish	NTP-008
Station Capability; Extended - Nonkey Set Only - Reported Failure	TAP-123
System Test - Perform	NTP-016
Trunk Bridging Controller - J1C015MB - Replace	DLP-572

Figure 1. Typical List of Jobs You May Have to Do

LT 123-456-789 NTP-016
Issue 2 Page 1 of 2

PERFORM SYSTEM TEST

DO THE ITEMS BELOW IN ORDER LISTED	FOR DETAILS, GO TO
1 Test Local Maintenance Terminal	DLP-531
2 Place SEC/SEB in Off-Line Mode	
A. If in On-Line Mode, Change System From On-Line to Off-Line	DLP-509
B. If Powered Down, Condition System for Off-Line Operation as Follows	
1. Power up Minicomputer	DLP-503
2. Power up Line Printer	DLP-503
3. Power up Maintenance Terminal	DLP-510
. . .	
. . .	
. . .	
. . .	
. . .	
. . .	
7 Run Computer Display Terminal Test For All Positions	DLP-513
8 Mount Tape	DLP-500
9 Test Computer Display	DLP-522

Figure 2. Typical List of Specific Instructions for Doing a Job

Figure 3 is a typical page of a DLP-500 (Detailed Level Procedure - 500) that gives numbered, step-by-step instructions. To use this procedure, you must start with Step 1 and proceed as directed by the instructions until you complete this procedure. Note that Step 1 of this procedure is preceded by a statement called a SUMMARY. A summary is used as a memory jogger, and briefly tells you how to do the procedure and what measurements or results you can observe. If you can do the procedure after reading the SUMMARY, go ahead and do it without reading any further.

Now, look at Step 6 of DLP-500 as shown in Figure 3. Note that following the action statement there is the sentence, For help see DLP-563. When you see a statement like this, it means that additional step-by-step instructions for doing just that step are given in the referenced procedure. In this case, DLP-563 gives you the details on how to ensure that the write-enable ring is not installed on the file reel. In this case, if you cannot do Step 6, then go to DLP-563. In either case, you must continue with Step 7 until you have completed the procedure. In some cases, you may be directed to a procedure where the procedure number is preceded by the letters TAP (Trouble Analysis Procedure); for example, TAP-109. This means that you have trouble in the equipment, and in this case TAP-109 will give you step-by-step instructions to fix the trouble. After you have fixed the trouble, you must return to Step 1 of the procedure that sent you to TAP-109. However, if you came directly from IXL-001 to TAP-109, then your job is completed when you have fixed the trouble.

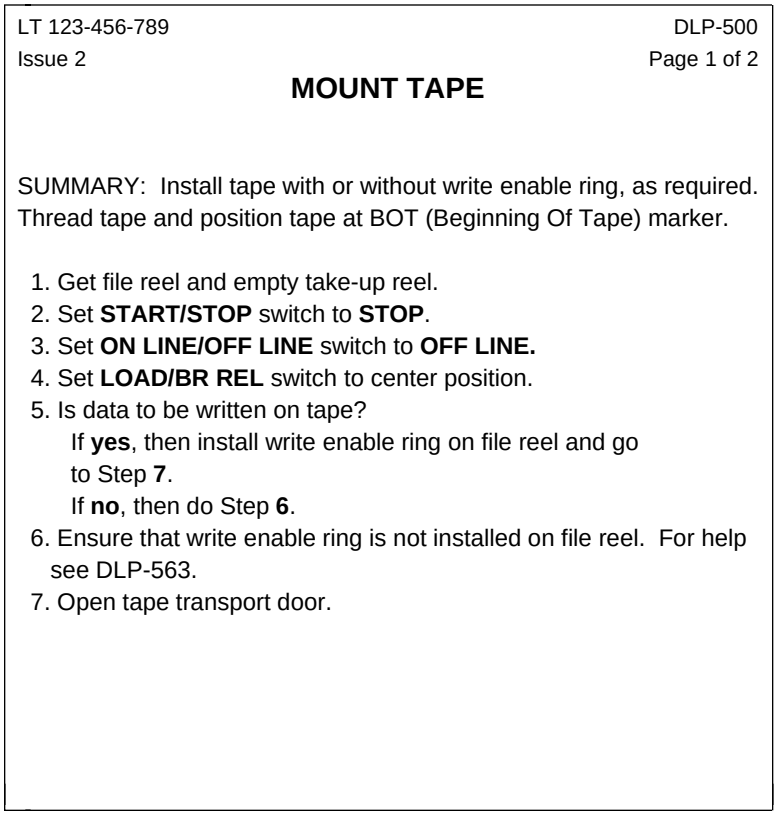
Admonishments: Three admonishments are used in this document as follows:

DANGER: This means there is a possibility of personal injury.

Caution: This means there is a possibility of service interruption.

WARNING: This means there is a possibility of equipment damage.

Important Items: Table A lists the more important items used in this document.



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MOUNT TAPE

SUMMARY: Install tape with or without write enable ring, as required. Thread tape and position tape at BOT (Beginning Of Tape) marker.

1. Get file reel and empty take-up reel.
2. Set **START/STOP** switch to **STOP**.
3. Set **ON LINE/OFF LINE** switch to **OFF LINE.**
4. Set **LOAD/BR REL** switch to center position.
5. Is data to be written on tape?
   If **yes**, then install write enable ring on file reel and go to Step **7**.
   If **no**, then do Step **6**.
6. Ensure that write enable ring is not installed on file reel. For help see DLP-563.
7. Open tape transport door.

Figure 3. Typical List of Detailed Instructions for Doing a Job

TABLE A Important Procedural Items and Definitions

Item	Definition
Acceptance (NTP-002)	Provides information and identifies jobs to be done to accept equipment after it is installed.
Maintenance Philosophy	The maintenance philosophy, when provided, gives an overview of the considerations designed into the trouble-clearing procedures.
DLP (Detailed Level Procedure)	Detailed, step-by-step instructions.
TAP (Trouble Analysis Procedure)	Step-by-step, trouble-clearing instructions to locate and/or fix troubles.
NTP (Non-Trouble-Clearing Procedure)	A list of items to perform normal work other than trouble-clearing.