

Lucent Technologies
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**4ESS™ Switch
3B20D Attached Processor
System (APS) to 3B21D APS Conversion**

(Office With DLN00 2, DLN00 7,
DLN32 2, and DLN32 7)

234-353-401
Issue 1
December 8, 1998

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Document Title: **4ESS™** Switch 3B20D Attached Processor System (APS) to 3B21D APS
Conversion (Office With DLN00 2, DLN00 7, DLN32 2, and DLN32 7)

Document No.: 234-353-401

Issue 1

Date: December 8, 1998

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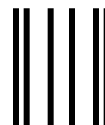
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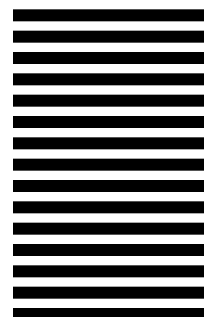
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Acceptance

Acceptance tests are not required for verification of the conversion procedures contained in this volume. The readiness of the 3B21D Attached Processor System (APS) to become part of the operating system is established by the successful completion of the particular procedure in its entirety.

Verify 3B20D Attached Processor System (APS) Alarms

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN VERIFYING 3B20D APS ALARMS WARNINGS: <i>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.</i> <i>No other growth or maintenance activity is allowed during this procedure.</i> <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: - It is recommended that the installer observe the following alarm tests. - Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. - This procedure must be performed during light traffic periods. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. - Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). - Stability of office must be maintained throughout this procedure. 4ESS™ Switch must be running on 4E23 or later generic.		
1	This procedure is being performed to base line the 3B20D APS alarms. If a failure in an alarm indication occurs, note the failure for comparison in NTP-014 and continue. Notify next higher support organization to determine course of correction. The alarms will be tested again after the conversion to the 3B21D APS in NTP-014.	TELCO	—
2	Notify next higher support organization that alarms will be received and that the 3B20D APS IOPs will be removed during this procedure.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
3	At 3B20D APS MCRT, enter 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	—
4	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
5	At 3B20D APS MCRT, depress ALM RLS key to clear any alarms at the MCRT.	TELCO	—
6	At fan unit in one CNI ring cabinet, depress OFF pushbutton.	TELCO	—
	Note: It will take a short time for FAN A and FAN B LEDs to light.		
7	Wait for FAN A and FAN B LEDs on fan unit to light.	TELCO/INST	—
8	When FAN A and FAN B LEDs on the fan unit light, ensure the following: • FAN A and FAN B LEDs go on. • Audible major and minor alarms are received. • At top of cabinet, ALARM RESET lamp goes on. • Grid MJ and MN go on. • End guard major and minor lamps go on. • At 3B20D APS MCRT, MAJOR and MINOR colored red. • At 3B20D APS MCRT ROP REPT RING FRAME xx POWER ALARM REPT RING FRAME xx FAN ALARM	TELCO/INST	—
9	At fan unit in CNI ring cabinet, depress ON/RESET pushbutton.	TELCO	—
10	At top of CNI ring cabinet, depress ALARM RESET pushbutton.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
11	Ensure the following: • FAN A and FAN B LEDs go off. • Audible minor alarm retires. • At top of cabinet, ALARM RESET lamp goes off. • Grid MN goes off. • End guard major and minor lamps go off. • At 3B20D APS MCRT, MAJOR and MINOR remain red. • At 3B20D APS MCRT ROP REPT RING FRAME xx POWER ALARM CLEARED REPT RING FRAME xx FAN ALARM CLEARED	TELCO/INST	—
12	At top of CNI ring cabinet, depress ALARM CUT OFF pushbutton.	TELCO	—
13	Ensure the following: • Audible major alarm retires. • Grid MJ goes off. • At 3B20D APS MCRT, MAJOR and MINOR clears.	TELCO/INST	—
14	Repeat Steps 6 through 13 for each equipped CNI ring cabinet.	TELCO/INST	—
15	At one DFA/DFR frame (0 or 1), associated with 3B20D APS, locate a blank indicator fuse position.	TELCO	—
16	Install blown fuse at located blank indicator fuse position.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
17	Ensure the following: • FA lamp goes on. • PWR ALM RESET lamp goes on. • Audible major alarm is received. • Grid MJ goes on. • End guard major lamp is on. • At 3B20D APS MCRT, MAJOR colored red. • At 3B20D APS MCRT ROP REPT RING DFA FRAME xx POWER ALARM	TELCO/INST	—
18	At DFA/DFR frame, remove blown fuse.	TELCO	—
19	Ensure that FA lamp goes off.	TELCO/INST	—
20	At DFA/DFR frame, depress PWR ALM RESET pushbutton.	TELCO	—
21	Ensure the following: • PWR ALM RESET lamp goes off. • Audible major alarm is still activated. • End guard major lamp goes off. • At 3B20D APS MCRT, MAJOR remains red. • At 3B20D APS MCRT ROP REPT RING DFA FRAME xx POWER ALARM CLEARED	TELCO/INST	—
22	At DFA/DFR frame, depress ALARM CUT OFF pushbutton.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
23	Ensure the following: - Audible major alarm retires. - Grid MJ goes off. - At 3B20D APS MCRT, MAJOR clears.	TELCO/INST	—
24	Repeat Steps 15 through 23 for the other DFA/DFR frame.	TELCO/INST	—
25	If scan and SD cable is to be connected to a 3B power distribution frame from the 3B21D APS, perform Steps 26 through 41; otherwise, if scan and SD cable is not to be connected to a 3B power distribution frame, go to Step 42.	TELCO/INST	—
26	At 3B power distribution frame, associated with 3B20D APS, locate a blank indicator fuse position for one load (LOAD A or LOAD B).	TELCO	—
27	Install blown fuse at located blank indicator fuse position for one load (LOAD A or LOAD B).	TELCO	—
28	Ensure the following: FRAME ALARM lamp goes on. PANEL ALARM lamp goes on. - Audible major alarm is received. - Grid MJ goes on. - End guard major lamp is on. - At 3B20D APS MCRT, MAJOR colored red. - At 3B20D APS MCRT ROP REPT POWER DISTRIBUTION FRAME 0 MAJOR ALARM	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	At 3B power distribution frame, remove blown fuse.	TELCO	—
30	Ensure the following: • FRAME ALARM LED goes off. • PANEL ALARM LED goes off. • Audible major alarm is still activated. • Grid MJ goes off. • End guard major lamp goes off. • At 3B20D APS MCRT, MAJOR remains red.	TELCO/INST	—
31	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
32	Ensure the following: • Audible major alarm retires. • At 3B20D APS MCRT, MAJOR clears.	TELCO/INST	—
33	Repeat Steps 26 through 32 for the other load (LOAD A or LOAD B) on the 3B power distribution frame.	TELCO/INST	—
34	Locate the 3B power distribution control panel (containing the capacitor discharge tool) in the middle of the power distribution frame, associated with 3B20D APS. Locate one of the 2AMP LOAD (A or B) fuses.	TELCO	—
35	Replace 2AMP LOAD (A or B) fuse, located in previous step, with a blown fuse.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
36	Ensure the following: • FRAME ALARM lamp goes on. • PANEL ALARM lamp goes on. • Audible minor alarm is received. • Grid MN goes on. • End guard minor lamp is on. • At 3B20D APS MCRT, MINOR colored red. • At 3B20D APS MCRT ROP REPT POWER DISTRIBUTION FRAME 0 MINOR ALARM	TELCO/INST	—
37	At 3B power distribution frame control panel, replace blown fuse with original 2AMP LOAD (A or B) fuse.	TELCO	—
38	Ensure the following: • FRAME ALARM LED goes off. • PANEL ALARM LED goes off. • Audible minor alarm is still activated. • Grid MN goes off. • End guard minor lamp goes off. • At 3B20D APS MCRT, MINOR remains red.	TELCO/INST	—
39	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
40	Ensure the following: • Audible minor alarm retires. • At 3B20D APS MCRT, MINOR clears.	TELCO/INST	—
41	Repeat Steps 34 through 40 for the other 2AMP LOAD (A or B) fuse in the 3B power distribution frame control panel.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
42	If office is equipped with a Model 1 3B20D APS, perform Steps 43 through 87; Otherwise, if office is equipped with a Model 2/3 3B20D APS, go to Step 88.	TELCO/INST	—
43	At 3B20D APS MCRT, on the Common Processor Display page (102), determine if MTTY and ROP are port switched to the same MTTYC.	TELCO	—
44	At 3B20D APS MCRT, on the Common Processor Display page (102), if MTTY and ROP are not port switched to the same MTTYC, enter 402 in command mode to switch ROP.	TELCO	—
45	At 3B20D APS MCRT, on the Common Processor Display page (102), determine which IOP is NOT port switched to MTTY and ROP.	TELCO	—
46	At 3B20D APS MCRT, enter message RMV:IOP a! to remove IOP not port switched to MTTY and ROP. where a = IOP number not connected to MTTYC (0 or 1).	TELCO	—
47	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU that is associated with removed IOP (ACT or STBY)	TELCO	—
48	At 3B20D APS MCRT, if associated CU is ACT , enter 400 in command mode to make CU STBY . Response: On Common Processor Display Page, associated CU changes to STBY state. On 3B20D APS MCRT ROP, SW CU a COMPLETED. a = CU member number that is now ACT	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
49	At the PC frame associated with out of service IOP, in the 3B20D APS, remove filter for one fan unit.	TELCO	—
50	Unseat associated fan unit; then reseal.	TELCO	—
51	Ensure the following: • FAN ALARM LED goes on. • Audible major and minor alarms are received. • Grid MJ and MN go on. • End guard major and minor lamps go on. • At 3B20D APS MCRT, MAJOR and MINOR are colored red.	TELCO/INST	—
52	At the ABB1 circuit pack (EQL 72-176), operate the ROS/RST switch to ROS .	TELCO	—
53	At the ABB1 circuit pack (EQL 72-176), depress the OFF switch.	TELCO	—
54	At the ABB1 circuit pack (EQL 72-176), depress the ON switch.	TELCO	—
55	Ensure the following: • FAN ALARM LED goes off. • Audible major and minor alarms retire. • Grid MJ and MN go off. • End guard major and minor lamps go off. • At 3B20D APS MCRT, MAJOR clears. • At 3B20D APS MCRT, MINOR remains red.	TELCO/INST	—
56	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
57	At 3B20D APS MCRT, ensure that the MINOR clears.	TELCO	—
58	Install the filter in the fan unit.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
59	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the off position (down).	TELCO	—
60	Ensure the following: • Audible major alarm is received. • End guard major lamp goes on. • Grid MJ goes on. • At 3B20D APS MCRT, MAJOR colored red. • At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, ACTIVATED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—
61	Record the “nn” value in the REPT: message in Step 60 as office alarm point PC a (a = out of service IOP number - 0 or 1). This point will be used when assigning new office alarm point, if required.	TELCO	—
62	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the on position (up).	TELCO	—
63	At the ABB1 circuit pack (EQL 72-176), depress the OFF switch.	TELCO	—
64	Ensure the following: • Audible major alarm retires. • End guard major lamp goes off. • Grid MJ goes off. • At 3B20D APS MCRT, MAJOR remains red.	TELCO/INST	—
65	At the ABB1 circuit pack (EQL 72-176), depress the ON switch.	TELCO	—
66	Ensure the following: • At 3B20D APS MCRT, MAJOR remains red. • At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, RETIRED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
67	At the ABB1 circuit pack (EQL 72-176), operate the ROS/RST switch to RST .	TELCO	—
68	Wait for IOP and associated subunits to restore to service. Response DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
69	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
70	At 3B20D APS MCRT, ensure that the MAJOR clears.	TELCO/INST	—
71	At 3B20D APS MCRT, enter message SW:PORTSW! to switch IOPs.	TELCO	—
72	Wait for 3B20D APS MCRT to repaint.	TELCO/INST	—
73	At 3B20D APS MCRT, enter message RMV:IOP a! to remove new IOP not port switched to MTTY and ROP. where a = IOP number not connected to MTTYC (0 or 1).	TELCO	—
74	At 3B20D APS MCRT, enter 400 in command mode to make CU associated with removed IOP STBY . Response: On Common Processor Display Page, associated CU changes to STBY state. On 3B20D APS MCRT ROP, SW CU a COMPLETED. a = CU member number that is now ACT	TELCO	—
75	At the ABB1 circuit pack (EQL 72-176) for out of service IOP, operate the ROS/RST switch to ROS .	TELCO	—
76	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the off position (down).	TELCO	—
77	Ensure the following: • Audible major alarm is received. • End guard major lamp goes on. • Grid MJ goes on. • At 3B20D APS MCRT, MAJOR colored red. • At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, ACTIVATED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
78	Record the “nn” value in the REPT: message in Step 77 as office alarm point PC a (a = out of service IOP number - 0 or 1). This point will be used when assigning new office alarm point, if required.	TELCO	—
79	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the on position (up).	TELCO	—
80	At the ABB1 circuit pack (EQL 72-176), depress the OFF switch.	TELCO	—
81	Ensure the following: • Audible major alarm retires. • End guard major lamp goes off. • Grid MJ goes off. • At 3B20D APS MCRT, MAJOR remains red.	TELCO/INST	—
82	At the ABB1 circuit pack (EQL 72-176), depress the ON switch.	TELCO	—
83	Ensure the following: • At 3B20D APS MCRT, MAJOR remains red. • At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, RETIRED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—
84	At the ABB1 circuit pack (EQL 72-176), operate the ROS/RST switch to RST .	TELCO	—
85	Wait for IOP and associated subunits to restore to service. Response DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
86	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
87	At 3B20D APS MCRT, ensure that the MAJOR clears.	TELCO/INST	—
88	If office is equipped with a Model 2/3 3B20D APS, perform Steps 89 through 120; Otherwise, if office is not equipped with a Model 2/3 APS, go to Step 121.	TELCO/INST	—
89	At 3B20D APS MCRT, on the Common Processor Display page (102), determine which CU is STBY .	TELCO	—
90	At 3B20D APS in standby CU frame/cabinet, depress OFF pushbutton for a fan unit.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: It will take a short time for FAN A and FAN B LEDs to light.		
91	Wait for FAN A and FAN B LEDs on fan unit to light.	TELCO/INST	—
92	When FAN A and FAN B LEDs on the fan unit light, ensure the following: • FAN A and FAN B LEDs go on. • Audible major alarm is received. • Grid MJ goes on. • At 3B20D APS MCRT, MAJOR is colored red.	TELCO/INST	—
93	At fan unit in 3B20D APS, depress ON/RESET pushbutton.	TELCO	—
94	Ensure the following: • FAN A and FAN B LEDs go off. • Audible major alarm is still activated. • Grid MJ remains on. • At 3B20D APS MCRT, MAJOR remains red.	TELCO/INST	—
95	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
96	Ensure the following: • Audible major alarm clears. • Grid MJ goes off. • At 3B20D APS MCRT, MAJOR clears.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
97	At 3B20D APS MCRT, on the Common Processor Display page (102), determine if MTTY and ROP are port switched to the same MTTYC.	TELCO	—
98	At 3B20D APS MCRT, on the Common Processor Display page (102), if MTTY and ROP are not port switched to the same MTTYC, enter 402 in command mode to switch ROP.	TELCO	—
99	At 3B20D APS MCRT, on the Common Processor Display page (102), determine which IOP is NOT port switched to MTTY and ROP.	TELCO	—
100	At 3B20D APS MCRT, enter message RMV:IOP a! to remove IOP not port switched to MTTY and ROP. where a = IOP number not connected to MTTYC (0 or 1).	TELCO	—
101	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU that is associated with removed IOP (ACT or STBY)	TELCO	—
102	At 3B20D APS MCRT, if associated CU is ACT , enter 400 in command mode to make CU STBY . Response: On Common Processor Display Page, associated CU changes to STBY state. On 3B20D APS MCRT ROP, SW CU a COMPLETED. a = CU member number that is now ACT	TELCO	—
103	At the TN6 circuit pack (EQL 33-162), operate the ROS/RST switch to ROS .	TELCO	—
104	At the TN6 circuit pack (EQL 33-162), depress the OFF switch.	TELCO	—
105	At 3B20D APS frame/cabinet, unseat 495FA circuit pack (EQL 33-178) associated with out of service IOP.	TELCO	—
106	At the TN6 circuit pack (EQL 33-162), depress the ON switch. Note: TN6 circuit pack will not power up with 495FA circuit pack removed. Alarms will generate per the following step when the ON switch is depressed.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
107	Ensure the following: - Audible major and minor alarms are received. - End guard minor lamp goes on. - Grid MJ and MN go on. - At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, ACTIVATED message is received (a = out of service IOP number - 0 or 1). - At 1B Processor MCC terminal, MAJOR is colored red.	TELCO/INST	—
108	Record the “nn” value in the REPT: message in Step 107 as office alarm point PC a (a = out of service IOP number - 0 or 1). This point will be used when assigning new office alarm point, if required.	TELCO	—
109	At 3B20D APS frame cabinet, seat 495FA circuit pack (EQL 33-178) associated with out of service IOP.	TELCO	—
110	At the TN6 circuit pack (EQL 33-162), depress the OFF switch.	TELCO	—
111	Ensure the following: - End guard minor lamp goes off. - Grid MN goes off.	TELCO/INST	—
112	At the TN6 circuit pack (EQL 33-162), depress the ON switch.	TELCO	—
113	At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, RETIRED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—
114	At 1B Processor MCC terminal, depress ALM RLS key.	TELCO	—
115	Ensure the following: - Audible major alarm retires. - At 1B Processor MCC terminal, MAJOR clears. - Grid MJ goes off.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
116	At the TN6 circuit pack (EQL 33-162), operate the ROS/RST switch to RST .	TELCO	—
117	Wait for IOP and associated subunits to restore to service. Response DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
118	At 3B20D APS MCRT, enter message SW:PORTSW! to switch IOPs.	TELCO	—
119	Wait for 3B20D APS MCRT to repaint.	TELCO/INST	—
120	Repeat Steps 100 through 117 for other IOP.	TELCO/INST	—
121	At 3B20D APS MCRT, enter 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	—
122	Notify next higher support organization that alarm testing is complete.	TELCO	—
123	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Grow MHD 9 in 3B21D Attached Processor System (APS) and
Mount DUP Cabinet in 3B20D APS SCSI Cabinet -
Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> • An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. • The two Conversion Switch Boxes (CSBs) are installed at the 3B21D APS and tested. • The Remote Access Interface (RAI) that controls the CSBs is installed and tested. • The new Dual Serial Channel (DSCH) cables between the 3B21D APS and Conversion Switch Boxes have been routed, connected, and tested. • The new DSCH cables, associated with the 3B20D APS, have been run and tested, but NOT CONNECTED. • The labels on the old DSCH cables have been verified to have correct unit type and equipment location • NTP-003 must have been completed.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN COPYING 3B20D APS DATABASES TO 3B21D APS WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. If your office does not contain CDRP, you will need to coordinate with the AMA support group to have your AMA teleprocessed at the proper time. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 8. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic. 9. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO/INST	—
2	Notify next higher support organization that MHD 9 is going to be grown and installed in the 3B20D and 3B21D APS.	TELCO	—
3	At 3B21D APS MCRT, enter following messages to inhibit automatic diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! Response: INH DMQ COMPLETED (for each of the above messages)	INST	—
4	At 3B21D APS MCRT, enter message RMV:SBUS 1! to remove SCSI bus 1 (SBUS 1) from service. Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each MHD on SBUS 1) RMV MT 1 COMPLETED RMV SBUS 1 COMPLETED REPT DIOP SIMPLEX PROCESSING COMPLETED	INST	—
5	At the back of 3B21D cabinet, ensure PC to SPU shorting plug (9824AN) is located at 62-095.	INST	—
6	At the 3B21D cabinet fuse panel, install fuse for MHD 9 (PC12-13, 88,96 location 69-118-A).	INST	—
7	At the 3B21D cabinet, if blank face plates are installed at locations 62-080 and 62-088, remove. Save these blank face plates for later use when the UN375 MHD circuit pack is removed at the end of the conversion.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
8	Obtain the UN375 MHD circuit pack to be used for this conversion and remove from its packaging. Verify the following switch settings: - Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. - Set the ROS/RST switch to ROS. - Set the ST/ON/OFF switch to OFF. - Set the ACO/T switch to the blank (OFF) position.	INST	—
	Note: This UN375 MHD circuit pack will be called MHD 9.		
9	At the 3B21D cabinet, install the UN375 MHD circuit pack at location 62-088. Response: OFF LED lights.	INST	—
10	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to ST to power up MHD 9. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
11	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
12	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to RST. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
13	At 3B21D APS MCRT, enter message RST:SBUS 1:CONT! to restore SBUS 1 controller to service. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/eqmhd9.sh" to change the major state for UN375 MHD 9 to OOS. Response: REPT MHD 9 IN GROWTH STATE REPT GROWTH MHD 9 COMPLETED REPT MHD 9 OUT OF SERVICE REPT EQMHD9.SH COMPLETED SUCCESSFULLY EXC ENVIR UPROC /tools/3b21/eqmhd9.sh COMPLETED	INST	—
15	At 3B21D APS MCRT, enter 120 in command mode to obtain the DFC Status Display Page.	INST	—
16	On the DFC Status Display Page (120), ensure Major State for MHD 9 is OOS .	INST	—
17	At 3B21D APS MCRT, enter message DGN:MHD 9! Response: DGN MHD 9 TASK x MESSAGE STARTED RMV MHD 9 STOPPED X'5 DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS DGN MHD 9 ATP MESSAGE COMPLETE	INST	—
18	At 3B21D APS MCRT, enter message RMV:SBUS 1! to remove SBUS 1 from service. Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 COMPLETED	INST	—
19	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to ROS. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
20	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to OFF. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
21	Unlatch the UN375 MHD circuit pack (EQL 62-088), but do not remove at this time.	INST	—
22	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
23	At the 3B21D cabinet, remove the UN375 MHD circuit pack at location 62-088 and insert this pack into an approved anti-static bag to safely move to the 3B20D SCSI cabinet.	INST	—
24	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	TELCO/INST	—
25	At 3B21D APS MCRT, enter message RST:SBUS 1! to restore SBUS 1 to service. Note: Restore will take approximately 60 minutes to complete. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED Note: Restore of MHD 9 will fail. This failure is expected. DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS RST MHD a COMPLETED (above messages received for each MHD on SBUS 1) DGN MT 1 COMPLETED ATP MESSAGE IN PROGRESS DGN SBUS 1 STF (.) MSG COMPLETE RST MT 1 IN PROGRESS RST MT 1 COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>INSTALLING DUP CABINET INTO 3B20D CABINET</i>		
26	At 3B20D APS MCRT, enter 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	—
27	At DFC 1 (EQL 62-112) in 3B20D SCSI cabinet, operate ROS/RST switch to ROS to remove DFC 1 from service. Response: At DFC 1 (EQL 62-112) in 3B20D SCSI cabinet, OOS and ROS LEDs on power switch are on. RMV DFC 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each equipped MHD) RMV SBUS 1 COMPLETED RMV SBUS 3 COMPLETED RMV DFC 1 COMPLETED	TELCO	—
28	At DFC 1 (EQL 62-112) in 3B20D SCSI cabinet, depress OFF switch to remove power from DFC 1.	TELCO	—
29	At 3B20D SCSI cabinet, locate MHD 9 (EQL 15-140) location and identify associated SBUS 1 cable.	INST	—
30	At front of 3B20D SCSI cabinet, remove the front MHD retaining bracket at level 15.	INST	—
31	At back of 3B20D SCSI cabinet, loosen or temporarily remove (if necessary) the top and bottom SBUS 1 cable retainers at level 15.	INST	—
32	At back of 3B20D SCSI cabinet, unroll the SCSI connector on SBUS 1 at level 15 and remove the protective cap on the connector (if necessary).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
33	Unpack the DUP cabinet to be used for this conversion and perform the following: - Inspect the DUP cabinet for damage. - Determine if the UN375 MHD circuit pack is installed in the DUP cabinet. If installed, carefully remove and store in an anti-static bag. This circuit pack will not be used for this conversion.	INST	—
34	At top of 3B20D SCSI cabinet in the fuse panel, determine if fuses associated with MHD 9 (EQL 15-140) are installed. Remove fuses if installed. Indicator fuse must be removed first; then the load fuse.	TELCO	—
	Note: The following step will require two people. One at the front of the SCSI to slide and align the DUP cabinet and one in the back to ensure the DUP cabinet slides in properly.		
35	At front of 3B20D SCSI cabinet, install DUP cabinet at location 15-140.	INST	—
36	At front of 3B20D SCSI cabinet, install the front MHD retaining bracket at level 15.	INST	—
37	At back of 3B20D SCSI cabinet, connect the DUP cabinet to the SCSI connector on SBUS 1 cable (EQL 15-140).	INST	—
38	At back of 3B20D SCSI cabinet, run the -48 V power cable from level 15 to the power terminal strip at the top of the cabinet.	INST	—
39	At back of 3B20D SCSI cabinet, connect -48 V power cable to 48 V connector at lower left of the DUP cabinet.	INST	—
40	At back of 3B20D SCSI cabinet, connect other end of the -48 V power cable to the power terminal strip at the top of the cabinet.	INST	—
	Note: UN375 MHD circuit pack must not be installed in the DUP cabinet when the next step is being performed.		
41	At top of 3B20D SCSI cabinet in the fuse panel, install fuses associated with MHD 9 (EQL 15-140). Load fuse (74B) must be installed first; then the indicator fuse (70F).	TELCO	—
42	At top back of 3B20D SCSI cabinet, verify -48 V is present on the power terminal strip (terminals 3 and 4).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
43	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—
44	At the 3B20D SCSI cabinet, install the UN375 MHD circuit pack into the DUP cabinet (EQL 15-140). Response: OFF LED lights.	INST	—
45	At the 3B20D SCSI cabinet, ensure OFF LED on DFC 1 power switch (EQL 62-112) is on.	TELCO	—
46	At the 3B20D SCSI cabinet, depress ON pushbutton switch on DFC 1 power switch (EQL 62-112) to power up DFC 1. Response: REPT POWER RESTORED DFC 1 RMV DFC 1 TASK x MESSAGE STARTED RMV DFC 1 STOPPED X'5	TELCO	—
47	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to ST to power up the MHD. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
48	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
49	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to RST. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
50	At 3B20D APS MCRT, restore DFC 1 controller to service (RST:DFC 1:CONT!). Note: Diagnostic will take approximately 5 minutes to complete. Response: RST DFC 1 TASK x MESSAGE STARTED RMV DFC 1 STOPPED X'5 DGN DFC 1 COMPLETED ATP MESSAGE IN PROGRESS DGN DFC 1 ATP MESSAGE COMPLETE RST DFC 1 IN PROGRESS RST DFC 1 COMPLETED REPT DFC 1 AUTO PUMP STARTED REPT DFC 1 AUTO PUMP COMPLETED	TELCO/INST	DLP-524
51	At 3B20D APS MCRT, restore SBUS 1 controller to service (RST:SBUS 1:CONT!). Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	TELCO/INST	DLP-533
52	At 3B20D APS MCRT, change the Major State for UN375 MHD 9 to OOS. (EXC:ENVIR:UPROC,FN"/tools/3b21/eqmhd9.sh"). Response: REPT MHD 9 IN GROWTH STATE REPT GROWTH MHD 9 COMPLETED REPT MHD 9 OUT OF SERVICE REPT EQMHD9.SH COMPLETED SUCCESSFULLY EXC ENVIR UPROC /tools/3b21/eqmhd9.sh COMPLETED	TELCO/INST	DLP-534
53	At 3B20D APS MCRT, enter 120 in command mode to obtain the DFC Status Display Page.	TELCO	—
54	On the DFC Status Display Page (120), ensure Major State for MHD 9 is OOS .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
55	At 3B20D APS MCRT, diagnose MHD 9 (DGN:MHD 9!). Response: DGN MHD 9 TASK x MESSAGE STARTED RMV MHD 9 STOPPED X'5 DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS DGN MHD 9 ATP MESSAGE COMPLETE	TELCO/INST	DLP-560
	WARNING: The DUP cabinet does not have sufficient air flow to cool MHD 9 for long periods of time. MHD 9 circuit pack must be removed when instructed.		
56	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 COMPLETED	TELCO	DLP-535
57	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to ROS . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
58	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to OFF . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
59	At the DUP cabinet, unlatch the UN375 MHD circuit pack (EQL 15-140), but do not remove at this time.	INST	—
60	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
61	At the DUP cabinet, remove the UN375 circuit pack at location 15-140 and insert this pack into an approved anti-static bag. Store safely until needed for next installation session.	INST	—
62	After operating ROS/RST switch to RST in the next step, continue performing Steps 64 through 67. Periodically observe the ROP for errors and/or completion message. Do not proceed past Step 67 until Step 63 is complete.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
63	At DFC 1 (EQL 62-112) in 3B20D SCSI cabinet, operate ROS/RST switch to RST to restore DFC 1 to service. Note: Diagnostic will take approximately 60 minutes to complete. Response: At DFC 1 (EQL 62-112) in 3B20D SCSI cabinet, OOS and ROS LEDs on power switch go off. RST DFC 1 TASK x MESSAGE STARTED RMV DFC 1 COMPLETED DGN DFC 1 COMPLETED CATP (X'00000004 X'00000000) MSG IN PROGRESS RST DFC 1 IN PROGRESS RST DFC 1 COMPLETED RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED REPT DFC 1 AUTO PUMP STARTED REPT DFC 1 AUTO PUMP COMPLETED Note: Restore of MHD 9 will fail. This failure is expected. DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS RST MHD a COMPLETED (above messages received for each MHD on SBUS 1) RST SBUS 3 IN PROGRESS RST SBUS 3 COMPLETED DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS RST MHD a COMPLETED (above messages received for each MHD on SBUS 3) DGN DFC 1 STF (.) MSG COMPLETE	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: The following steps are being performed to set up the 3B21D APS in case a back out to the 3B20D APS is necessary. This will allow troubleshooting on broot of the 3B21D APS.		
64	Run 3B21D file system audits to ensure no file system errors.	INST	DLP-503
65	At 3B21D APS MCRT, update the 3B21D APS broot partition.	INST	DLP-550
66	Run 3B21D file system audits to ensure no file system errors.	INST	DLP-551
67	At 3B21D APS MCRT, enter 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)	INST	—
68	At 3B20D APS MCRT, enter 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	—
69	Notify next higher support organization that MHD 9 has been grown and installed in the 3B20D and 3B21D APS.	TELCO	—
70	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Perform Preliminary Steps Prior to Copying Data Bases to the Stand-Alone 3B21D APS

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. The following NTPs have been completed: • NTP-003 • NTP-004.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN COPYING 3B20D APS DATABASES TO 3B21D APS WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 2. This procedure must be performed during light traffic periods. 3. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 4. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 5. Stability of office must be maintained throughout this procedure. 6. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic.		

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 3B20D system status.	TELCO	DLP-500
3	At 3B20D APS MCRT, enter 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	—
4	At 3B20D APS MCRT, enter message OP:DMSORDERS INCORE! Response: OP:DMSORDERS COMPL NO INCORE ORDERS FOUND If there are DMS ORDERS INCORE listed, each data base management system (DMS) order needs to be verified with the responsible organization to determine if the DMS order should be activated prior to the conversion. If a listed DMS order is not activated, it will be lost which could have an adverse effect on the machine.	TELCO	—
5	At 3B20D 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.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
6	At 3B20D APS MCRT, run NIDATA audits.	TELCO	DLP-542
7	Run 3B20D file system audits to ensure no file system errors.	TELCO	DLP-503
8	Update 3B20D APS backup partition.	TELCO	DLP-504
9	At 3B20D APS MCRT, enter 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	—
10	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO	—

**Copy Databases to Enable OSS Tests From 3B20D Attached
Processor System (APS) to the Stand-Alone 3B21D APS
and Boot - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. The following NTPs must have been completed: • NTP-003 • NTP-004 • NTP-005.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN COPYING 3B20D APS DATABASES TO 3B21D APS WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. If your office does not contain CDRP, you will need to coordinate with the AMA support group to have your AMA teleprocessed at the proper time. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	Place a check mark by each step when completed.	TELCO/INST	—
2	Verify 3B20D APS system status.	TELCO	DLP-500
3	At 3B20D APS MCRT, enter 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	—
4	At 3B20D APS MCRT, enter message OP:DMQ! and verify that there are no diagnostics in progress If a diagnostic is listed in the ROP printout, ensure that all diagnostics are successfully completed before continuing.	TELCO	—
5	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each MHD on SBUS 1) RMV SBUS 1 COMPLETED REPT DIOP SIMPLEX PROCESSING COMPLETED	TELCO	DLP-535
6	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—
7	At the 3B20D SCSI cabinet, install the UN375 MHD circuit pack into the DUP cabinet (EQL 15-140). Response: OFF LED lights.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
8	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to ST to power up the MHD. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
9	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
10	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to RST . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
11	At 3B20D APS MCRT, restore SBUS 1 controller to service (RST:SBUS 1:CONT!). Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	TELCO/INST	DLP-533
12	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
13	At 3B20D APS MCRT, enter message INH:AUD:ECD! Response: INH AUD COMPLETED	TELCO	—
14	At 3B20D APS MCRT, enter message INH:AUD:DLN! Response: INH AUD COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
15	At 3B20D APS MCRT, enter message INH:RCV:ON! Response: INH RCV COMPLETED 4ESS INH RCV COMPL RECENT CHANGE INHIBIT ON	TELCO	—
	<i>COPYING 3B20D ECD TO MHD 9</i>		
16	At 3B20D APS MCRT, copy 3B20D APS generic to MHD 9 (EXC:ENVIR:UPROC,FN"/tools/3b21/cpgen.sh"). Follow the ROP printout per the appropriate DLP.		
	A. For offices in 4AP16 generic	TELCO/INST	DLP-537
	B. For offices in 4AP17 generic	TELCO/INST	DLP-581
17	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD 9 COMPLETED RMV SBUS 1 COMPLETED	TELCO	DLP-574
18	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to ROS . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
19	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to OFF . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
20	At the DUP cabinet, unlatch the UN375 MHD circuit pack (EQL 15-140), but do not remove at this time.	INST	—
21	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
22	At the DUP cabinet, remove the UN375 MHD circuit pack at location 15-140 and insert this pack into an approved anti-static bag to safely move to the 3B21D APS.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
23	After entering the message in the next step, continue performing this procedure. while periodically observe the ROP for errors and/or completion message.	TELCO/INST	—
24	At 3B20D APS MCRT, restore SBUS 1 to service (RST:SBUS 1!). Note: Restore will take approximately 60 minutes to complete. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED Note: Restore of MHD 9 will fail. This failure is expected. DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS RST MHD a COMPLETED (above messages received for each MHD on SBUS 1) REPT DIOP DUPLEX PROCESSING COMPLETED DGN SBUS 1 STF (.) MSG COMPLETE	TELCO/INST	DLP-536

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
25	Installer can proceed at Step 31 while TELCO is performing Steps 26 through 30.	TELCO/INST	—
26	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—
27	At 3B20D APS MCRT, enter message ALW:AUD:ECD! to allow ECD audits. Response: ALW AUD COMPLETED	TELCO	—
28	At 3B20D APS MCRT, enter message ALW:AUD:DLN! to allow DLN audits. Response: ALW AUD COMPLETED	TELCO	—
29	At 3B20D APS MCRT, enter message INH:RCV:OFF! Response: 4ESS INH RCV COMPL RECENT CHANGE INHIBIT OFF	TELCO	—
30	At 3B20D APS MCRT, enter 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	—
31	Carefully move the UN375 MHD circuit pack to the 3B21D APS.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>LOADING 3B20D ECD FROM MHD 9 TO 3B21D APS</i>		
32	At 3B21D APS MCRT, enter following messages to inhibit automatic diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! Response: INH DMQ COMPLETED (for each of the above messages)	INST	—
33	At 3B21D APS MCRT, enter message RMV:SBUS 1! to remove SBUS 1 from service. Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each MHD on SBUS 1) RMV MT 1 COMPLETED RMV SBUS 1 COMPLETED REPT DIOP SIMPLEX PROCESSING COMPLETED	INST	—
34	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—
35	At the 3B21D cabinet, install the UN375 MHD circuit pack at location 62-088. Response: OFF LED lights.	INST	—
36	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to ST to power up MHD 9. Response: The OFF LED should flash for a few seconds and then go off.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
37	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
38	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to RST . <i>Note:</i> No MHD response will be received since no scan and SD cables are connected.	INST	—
39	At 3B21D APS MCRT, enter message RST:SBUS 1:CONT! to restore SBUS 1 controller to service. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	INST	—
40	At 3B21D APS MCRT, enter message RST:MHD 9! to restore MHD 9 to service Response: RST MHD 9 TASK x MESSAGE STARTED RMV MHD 9 STOPPED X'5 DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS RST MHD 9 IN PROGRESS DGN MHD 9 ATP MESSAGE COMPLETE RST MHD 9 COMPLETED	INST	—
41	At 3B21D APS MCRT, enter message INH:AUD:ECD! to inhibit ECD audits. Response: INH AUD COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
42	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/convert.io" to convert the 3B20D ECD on MHD 9. Note: ECD conversion will take approximately 50 minutes to complete. Response: On the 3B21D APS ROP REPT ECDUMP STARTED REPT ECDUMP IN PROGRESS . REPT ECDUMP IN PROGRESS REPT ECDUMP /database/dmpfiles/ecd.dmp CREATED WITH XXXX LINES REPT ECDUMP COMPLETE CODE 0 REPT ECDUMP STARTED REPT ECDUMP IN PROGRESS . REPT ECDUMP IN PROGRESS REPT ECDUMP /supr/dmpfiles/ecd.dmp CREATED WITH XXXX LINES REPT ECDUMP COMPLETE CODE 0 REPT DLNRETRO.21 STARTED REPT DLNRETRO.21 - DLN LN00-xx REPT DLNRETRO.21 - DLN LN32-xx REPT DLNRETRO.21 - DLN LN00-yy REPT DLNRETRO.21 - DLN LN32-yy REPT DLNRETRO.21 LN00-xx ADDED TO SCRIPT FILE REPT DLNRETRO.21 LN32-xx ADDED TO SCRIPT FILE REPT DLNRETRO.21 LN00-yy ADDED TO SCRIPT FILE REPT DLNRETRO.21 LN32-yy ADDED TO SCRIPT FILE REPT DLNRETRO.21 COMPLETE CODE 0 REPT CFTPURGE STARTED REPT CFTPURGE COMPLETE - NOTHING TO PURGE (Output messages continued on next page.)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Response: (continued) REPT NEWRETRO.21 IS BUILDING THE ECD CONVERSION SCRIPT REPT NEWRETRO.21 ECD CONVERSION COMPLETE REPT CONVERT.IO - APPLYING /etc/bwm/dlnscript TO /database/appecd REPT DATABASE CONVERSION STARTED REPT DATABASE CONVERSION IN PROGRESS APPLYING dlnscript TO /database/appecd REPT DATABASE CONVERSION COMPLETED SUCCESSFULLY APPLIED SCRIPT dlnscript TO /database/appecd REPT CONVERT.IO - SUCCESSFULLY APPLIED /etc/bwm/dlnscript REPT CONVERT.IO - APPLYING /etc/bwm/retroscript TO /database/appecd REPT DATABASE CONVERSION STARTED REPT DATABASE CONVERSION IN PROGRESS APPLYING retroscript TO /database/appecd REPT DATABASE CONVERSION COMPLETED SUCCESSFULLY APPLIED SCRIPT retroscript TO /database/appecd REPT CONVERT.IO - SUCCESSFULLY APPLIED /etc/bwm/retroscript REPT CONVERT.IO - APPLYING /etc/bwm/sbcscrip TO /database/appecd * REPT DATABASE CONVERSION STARTED * REPT DATABASE CONVERSION COMPLETED * SUCCESSFULLY APPLIED SCRIPT sbcscrip TO /database/appecd * REPT CONVERT.IO - SUCCESSFULLY APPLIED /etc/bwm/sbcscrip * * Only received for an SBC Communications,Inc. office. REPT CONVERT.IO - APPLYING /etc/bwm/eaiscript TO /database/appecd REPT DATABASE CONVERSION STARTED REPT DATABASE CONVERSION COMPLETED SUCCESSFULLY APPLIED SCRIPT eaiscript TO /database/appecd REPT CONVERT.IO - SUCCESSFULLY APPLIED /etc/bwm/eaiscript REPT CONVERT.IO - COMPLETED CODE 0 EXC ENVIR UPROC /tools/3b21/convert.io COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
43	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	INST	—
44	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	INST	—
45	At 3B21D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page (102), CU 0 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED	INST	—
46	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/ldgen.sh" to load generic from MHD 9 to the 3B21D. Follow the ROP printout per the appropriate DLP.		
	A. For offices in 4AP16 generic	TELCO/INST	DLP-582
	B. For offices in 4AP17 generic	TELCO/INST	DLP-583
	BOOTING THE 3B21D APS		
47	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain the EAI Page.	INST	—
48	At 3B21D APS MCRT, enter 22 in command mode to force processors to access the secondary disks (CU 0, MHD 1).	INST	—
49	At 3B21D APS MCRT, ensure SET is highlighted for Sec Disk.	INST	—
50	At 3B21D APS MCRT, enter 31 in command mode to clear initialization from Backup-Root .	INST	—
51	At 3B21D APS MCRT, ensure SET is not displayed next to Backup-Root .	INST	—
52	At 3B21D APS MCRT, enter 33 in command mode to clear MIN-CONFIG .	INST	—
53	At 3B21D APS MCRT, ensure MIN-CONFIG is not highlighted and SET is not displayed beside MIN-CONFIG .	INST	—
54	At 3B21D APS MCRT, enter 10 in command mode to force CU 0 on-line.	INST	—
55	At 3B21D APS MCRT, enter y to force CU 0 on-line.	INST	—
56	At 3B21D APS MCRT, ensure FONL CU-0 is highlighted.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
57	At 3B21D APS MCRT, enter 54 in command mode to boot the 3B21D APS.	INST	—
58	At 3B21D APS MCRT, enter y to confirm the boot. One or more START OF CU RECOVERY messages will be printed. Processor recover messages (PRMs) should be printing at a rate of approximately one per second for the first 30 seconds. If no errors are present, between 1 and 3 pages of PRMs will print at the ROP. Note: The following are indications of failure or success: FAILURE:.....Failing PRMs (PRM 0 Fx3x) or additional "START OF CU RECOVERY" messages indicate the boot attempt is failing. SUCCESS:.....Successful PRMs (PRM 0 Ex41) Monitor the 3B21D until system is stable. Check for passing RTR and application PRMs. Note presence of the following message at the 3B21 ROP: RCVRY CU a COMPLETED	INST	—
59	If failure occurs, go to Step 60; otherwise, if system comes up on the 3B21D APS, go to Step 61.	INST	—
60	<i>If the boot fails, switch to the other 3B21D APS CU and boot again using the following procedure:</i> 1. Enter: 20 (to change MHD to primary) 2. Enter: 11 (to make CU 1 FONL) 3. Enter: y (to confirm the force) 4. Enter: 54 (to boot again) 5. Enter: y (to confirm the boot). (Continued on next page)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
60	Reboot continued: 6. Wait for a boot fail indication or boot to successfully complete. 7. On 3B21D APS MCRT 102 page, if system recovered on CU 1 and MHD 1, send failure information to next higher support organization to determine what caused the boot failure; then continue at Step 61. 8. <i>If boot failed again, perform the following steps to save failed data:</i> 9. Enter: 14 (to clear forces) 10. Allow system to recover (Do not enter a 54 to boot the 3B) 11. Enter: 12 to force CU on-line 12. Enter message: INH:DMQ;SRC ALL! This will preserve the failed data. 13. Stop this procedure and contact next higher support organization. Do not proceed until directed by next higher support organization.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Expect to see NIDATA audit errors until the audits are inhibited at the end of this procedure.		
61	At 3B21D APS MCRT, monitor the system until the boot process is complete (Post Mortem is printed at the 3B21D APS ROP). Check the ROP output for error type messages.	INST	—
62	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	INST	—
63	At 3B21D APS MCRT, on EAI Page, enter 14 in command mode to clear forces. Response: REPT CU a NO LONGER FORCED ONLINE	INST	—
64	At 3B21D APS MCRT, enter following messages to inhibit automatic diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! Response: INH DMQ COMPLETED (for each of the above messages)	INST	—
65	At 3B21D APS MCRT, enter message OP:OOS:CU! and determine which CU is listed (out-of-service).	INST	—
66	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	INST	—
67	At 3B21D APS MCRT, enter message RST:CU a! (a = CU member number determined earlier) to restore out-of-service CU to service. Response: RST CU a COMPLETED	INST	—
68	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page	INST	—
69	On the Common Processor Display Page, determine state of MHD 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
70	Perform one of the following: A. If MHD 0 is OOS, perform Steps 71 through 74. B. If MHD 0 is INIT, go to Step 75. C. If MHD 0 is ACT, go to Step 77.	INST	—
71	At 3B21D APS MCRT, enter message OP:DMQ! and determine if MHD 0 is listed.	INST	—
72	If MHD 0 is not listed, perform Step 73; otherwise, if MHD 0 is listed, wait for MHD 0 to go INIT on the Common Processor Display Page and then go to Step 75.	INST	—
73	At 3B21D APS MCRT, restore MHD 0 to service (RST:MHD 0!). Note: Restore will take approximately 20 minutes to complete. Response: RST MHD 0 TASK x MESSAGE STARTED RMV MHD 0 STOPPED X'5 DGN MHD 0 COMPLETED ATP MESSAGE IN PROGRESS RST MHD 0 IN PROGRESS DGN MHD 0 ATP MESSAGE COMPLETE RST MHD 0 COMPLETED	INST	—
74	Go to Step 77.	INST	—
75	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	INST	—
76	At 3B21D APS MCRT, enter following poke commands in command mode to unblock audits: • Enter CMD: 42 • Enter CMD: Q (capital letter Q) • Enter CMD: 50 • Enter CMD: y	INST	—
77	Run 3B21D file system audits to ensure no file system errors.	INST	DLP-503

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
78	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/bootaud",ARGS"rebuild"! to run boot audits on the rebuild load. Note: The boot audit will take approximately 5 minutes to complete. Response: 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.	INST	—
79	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/bin/rm",ARGS"/cdmp/Convert.log"! to remove Convert.io log file. Response: EXC ENVIR UPROC /bin/rm COMPLETED or EXC ENVIR UPROC /bin/rm STOPPED rm:/cdmp/Convert.log non-existent	INST	—
80	At 3B21D APS MCRT, enter message RMV:SBUS 1! to remove SBUS 1 from service. Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 COMPLETED	INST	—
81	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to ROS. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
82	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to OFF. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
83	Unlatch the UN375 MHD circuit pack (EQL 62-088), but do not remove at this time.	INST	—
84	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
85	At the 3B21D cabinet, remove the UN375 MHD circuit pack at location 62-088 and insert this pack into an approved anti-static bag. Store safely until needed for conversion.	INST	—
86	At 3B21D APS MCRT, enter message RST:SBUS 1! to restore SBUS 1 to service. Note: Restore will take approximately 60 minutes to complete. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED Note: Restore of MHD 9 will fail. This failure is expected. DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS RST MHD a COMPLETED (above messages received for each MHD on SBUS 1) DGN MT 1 COMPLETED ATP MESSAGE IN PROGRESS DGN SBUS 1 STF (.) MSG COMPLETE RST MT 1 IN PROGRESS RST MT 1 COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
87	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 120 in command mode to obtain the DFC Status Display Page.	INST	—
88	On the DFC Status Display Page (120), determine if any MHDs are OOS.	INST	—
89	If any MHD is OOS (except MHD 9), at 3B21D APS MCRT, enter message RST:MHD a! for each OOS MHD. Note: Restore will take approximately 20 minutes to complete. Response: RST MHD a TASK x MESSAGE STARTED RMV MHD a STOPPED X'5 DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS DGN MHD a ATP MESSAGE COMPLETE RST MHD a COMPLETED	INST	—
90	At 3B21D APS MCRT, enter 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).	INST	—
91	At 3B21D APS MCRT, enter message INH:AUD:ALL! to inhibit all 3B21D APS audits. Response: INH AUD COMPLETED	INST	—
92	Notify the next higher support organization that OSS cable testing can proceed. Request the next higher support organization to notify the installer when cable testing is complete.	TELCO	—
93	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Connect API 0, RPCN00 0, DLN00 2 (LN00 2), and
DLN00 7 (LN00 7) to 3B20D APS CU 0 Side of
Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. The two Conversion Switch Boxes (CSBs) are installed at the 3B21D APS and tested. 3. The Remote Access Interface (RAI) that controls the CSBs is installed and tested. 4. The new Dual Serial Channel (DSCH) cables between the 3B21D APS and Conversion Switch Boxes have been routed, connected, and tested. 5. The new DSCH cables, associated with the 3B20D APS, have been run and tested, but NOT CONNECTED. 6. The labels on the old DSCH cables have been verified to have correct unit type and equipment location. 7. The following NTPs have been completed: • NTP-003 • NTP-004 • NTP-005 • NTP-006.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES FOR API 0 TO CONVERSION SWITCH BOX CONVERSION WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B20 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
5	Verify 3B20D APS system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify 3B20D APS system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that API 0 connection to the conversion switch box is going to be performed.	TELCO	—
9	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
10	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
11	At 3B20D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	TELCO	—
12	At 3B20D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page, CU 0 changes to ACT state. On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
13	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
14	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
15	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
16	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
17	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
18	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
19	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
20	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
21	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
22	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 0 AND CU 0 FOR DSCH CONNECTION TO CONVERSION SWITCH BOX		
23	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
24	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
25	At 3B20D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
26	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
27	At 3B20D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY state On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
28	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
30	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
31	At 3B20D APS CU 0 power switch, depress OFF pushbutton - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights On 3B20D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—
32	At API 0 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 0 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
33	At API 0 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 0 RMV: API 0 COMPLETED.	TELCO	—
	CONNECTING API 0 DSCH TO CONVERSION SWITCH BOX		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 0" cable termination on "CU 1". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
34	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with API 0.	INST	—
35	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with API 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
36	At API 0 backplane, carefully disconnect the DSCH cable coming from CU 0.	INST	—
37	At API 0 backplane, carefully connect the new DSCH cable associated with CU 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
39	At API 0 power switch, depress ON pushbutton (Do not restore API 0 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 0.	TELCO/INST	DLP-510
40	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off On 3B20D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the API 0 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phase 3 (DSCH to CU 1) of the API diagnostics indicates likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phase 3, perform the following at API 0: 1. At API 0, disconnect DSCH cable at location 217-306. 2. At API 0, connect DSCH cable, disconnected from location 217-106 earlier, to location 217-306. 3. Rerun the diagnostic. 4. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal API troubleshooting procedures.		
41	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 0 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
42	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505
43	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: OS LED goes off RST: API 0 COMPLETED.	TELCO/INST	DLP-526
44	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
45	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
46	At 3B20D APS MCRT, diagnose CU 0, specifying channel 12 and phase 8 (DGN:CU 0,CH 12:PH 8!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 12 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 12 PH 8 ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-515

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
47	At 3B20D APS MCRT, diagnose CU 0, specifying channel 12 and phase 24 (DGN:CU 0,CH 12:PH 24!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 12 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 12 PH 24 ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-516
48	At API 0 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
49	At 1B Processor MTC terminal, diagnose API 0. Expect ATP results (RST:API 0!) Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 COMPLETED.	TELCO	DLP-562
50	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
51	Determine if enough time remains in this shift to complete RPCN00 0 connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
52	If enough time DOES remain, go to Step 80; otherwise, if enough time DOES NOT remain, perform Steps 53 through 69 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting RPCN00 0 through the conversion switch box.		
53	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: Restore will take approximately 30 minutes to complete. Response: RST: CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0 WITH CU 0 ACTIVE		
54	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
55	At 3B20D APS MCRT, enter 400 in command mode to make CU 0 ACT. Response: On Common Processor Display Page (102), CU 0 changes to ACT state On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
56	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
57	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
58	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
59	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
60	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
61	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!) Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
62	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
63	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
64	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
65	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
66	Soak CU 0 and API 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
68	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
69	Soak CU 0 and API 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
70	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
71	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
72	Verify 3B20D APS system status.	TELCO	DLP-500
73	Safe point to temporarily stop this procedure.	TELCO/INST	—
74	If procedure was stopped in Step 73, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
75	At 3B20D APS MCRT, enter 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	—
76	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
77	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
78	At 3B20D APS MCRT, if CU 0 is ACT, enter 400 in command mode to make CU 0 STBY. Response: On Common Processor Display Page (102), CU 0 changes to STBY On 3B20D APS MCRT ROP, SW CU 1 COMPLETED	TELCO	—
79	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS. • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B20D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 0 DSCH CONNECTION TO RPCN00 0</i>		
80	Notify next higher support organization that RPCN00 0 is going to be connected to the conversion switch box.	TELCO	—
81	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
82	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 UNAVAILABLE.	TELCO	—
	<i>VERIFY RPCN00 0 STATUS</i>		
83	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
84	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
85	At 3B20D APS MCRT, Ensure Major State for RPCN32 0 is ACT.	TELCO	—
86	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
87	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B20D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 0 (DGN:RPCN00 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN00 0 CONNECTION		
89	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN00 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN00 0 will be isolated also.		
90	At 3B20D APS MCRT, isolate RPCN00 0 (CFR:RING,RPCN00 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN00 0 COMPL	TELCO	DLP-528
91	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
92	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
93	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN00 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
94	At 3B20D APS CU 0 power switch, ensure OOS LED is on - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162.	TELCO	—
95	At 3B20D APS CU 0 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0	TELCO	—
96	At CNI ring node cabinet 00, on RPCN00 0 circuit packs, ensure RQ and NT LEDs (EQL 19-034 and 19-068 respectively) are on. This indicates the RPCN00 0 is isolated.	TELCO	—
97	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 19-086) for RPCN00 0.	TELCO	—
	RPCN00 0 TO CONVERSION SWITCH BOX CONNECTION		
	WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 0" cable termination on "CU 1". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.		
	Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with RPCN00 0, from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.		
98	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with RPCN00 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
100	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 19-086) for RPCN00 0.	TELCO	—
101	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
102	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with RPCN00 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
103	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
104	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT: REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the RPCN00 0 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phases 10 through 13 and 15, that test the DSCH to CU 1, will indicate likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phases 10 through 13 and/or 15, perform the following at RPCN00 0: 1. At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 19-086) for RPCN00 0. 2. At RPCN00 0, disconnect DSCH cable at location 19-086-306. 3. At RPCN00 0, connect DSCH cable, disconnected from location 19-086-106 earlier, to location 19-086-306. 4. At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 19-086) for RPCN00 0. 5. Rerun the diagnostic. 6. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal troubleshooting procedures.		
105	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
106	At 3B20D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 0 (DGN:RPCN00 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
107	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
108	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
109	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
110	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
111	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
112	Soak RPCN00 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
113	Determine if enough time remains in this shift to complete DLN00 2 (LN00 2) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
114	If enough time DOES remain, go to Step 154; otherwise, if enough time DOES NOT remain, perform Steps 115 through 141 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN00 2 (LN00 2) through the conversion switch box.		
115	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
116	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
117	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DIAGNOSE API 0 AND/OR RPCN00 0 WITH CU 0 ACTIVE</i>		
118	At 3B20D APS MCRT, remove RPCN00 0 from service before switching CU 0 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
119	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
120	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
121	If API 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 0 was connected in a previous shift, go to Step 131.	TELCO/INST	—
122	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
123	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
124	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
125	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
126	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
127	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
128	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
129	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
130	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
131	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
132	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
133	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
134	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
135	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
136	At 3B20D APS MCRT, enter 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	—
137	Soak CU 0, API 0, and RPCN00 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, and RPCN00 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
138	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
139	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
140	Notify next higher support organization that RPCN00 0 connection to the conversion switch box is complete.	TELCO	—
141	Soak CU 0, API 0, and RPCN00 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, and RPCN00 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
142	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
144	Verify 3B20D APS system status.	TELCO	DLP-500
145	Safe point to temporarily stop this procedure.	TELCO/INST	—
146	If procedure was stopped in Step 145, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
147	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
148	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
149	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
150	At 3B20D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY . On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
151	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
152	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
153	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 0 DSCH CONNECTION TO DLN00 2 (LN00 2)		
154	Notify next higher support organization that DLN00 2 (LN00 2) is going to be connected to the conversion switch box.	TELCO	—
155	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
156	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
157	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN, LN00 2, LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN, LN00 2, LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
158	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
159	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 0 (DGN:LN00 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 2 (LN00 2) CONNECTION		
160	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 2 (LN00 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 2 (LN00 2) will be isolated also.		
161	At 3B20D APS MCRT, isolate DLN00 2 (LN00 2) (CFR:RING,LN00 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 2 COMPL	TELCO	DLP-531
162	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
163	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 2 (LN00 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
164	At 3B20D APS CU 0 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
165	At CNI ring node cabinet 00, on DLN00 2 (LN00 2) circuit pack (EQL 28-058), ensure NT and RQ LEDs are on. This indicates the LN00 2 is isolated.	TELCO	—
166	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 28-086) for DLN00 2.	TELCO	—
	<i>DLN00 2 (LN00 2) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 0” cable termination on “CU 1”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN00 2 (LN00 2), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
167	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 2 (LN00 2).	INST	—
168	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 2 (LN00 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
169	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 28-086) for DLN00 2.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN00 2 (LN00 2).	INST	—
171	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN00 2 (LN00 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
172	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
173	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the DLN00 2 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phases 30 through 33 and 35, that test the DSCH to CU 1, will indicate likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phases 30 through 33 and 35, perform the following at DLN00 2: 1. At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 28-086) for DLN00 2. 2. At DLN00 2, disconnect DSCH cable at location 28-086-306. 3. At DLN00 2, connect DSCH cable, disconnected from location 28-086-106 earlier, to location 28-086-306. 4. At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 28-086) for DLN00 2. 5. Rerun the diagnostic. 6. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal troubleshooting procedures.		
174	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
175	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 0 (DGN:LN00 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
176	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
177	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 2 (LN00 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
178	At 3B20D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
179	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
180	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 2 (LN00 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
181	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
182	Soak DLN00 2 (LN00 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
183	Determine if enough time remains in this shift to complete DLN00 7 (LN00 7) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
184	If enough time DOES remain, go to Step 233; otherwise, if enough time DOES NOT remain, perform Steps 185 through 220 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN00 7 (LN00 7) through the conversion switch box.		
185	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
186	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
187	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 0 COMPLETED	TELCO/INST	DLP-514
188	If RPCN00 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN00 0 from service before switching CU 0 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 0, RPCN00 0 AND/OR DLN00 2 (LN00 2) WITH CU 0 ACTIVE		
189	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
191	If API 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 0 was connected in a previous shift, go to Step 201.	TELCO/INST	—
192	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
193	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
194	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
195	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
196	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
197	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
198	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
199	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
200	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	If RPCN00 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was connected in a previous shift, go to Step 207.	TELCO/INST	—
202	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
203	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
204	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
205	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
206	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
207	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
208	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
209	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
210	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
211	At 3B20D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
212	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
213	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
214	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
215	At 3B20D APS MCRT, enter 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	—
216	Soak CU 0, API 0, RPCN00 0, and DLN00 2 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
217	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
218	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
219	Notify next higher support organization that RPCN00 0 and DLN00 2 connection to the conversion switch box is complete.	TELCO	—
220	Soak CU 0, API 0, RPCN00 0, and DLN00 2 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
221	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
222	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
223	Verify 3B20D APS system status.	TELCO	DLP-500
224	Safe point to temporarily stop this procedure.	TELCO/INST	—
225	If procedure was stopped in Step 224, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
226	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
227	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
228	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
229	At 3B20D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY . On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
230	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
231	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
232	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 0 DSCH CONNECTION TO DLN00 7 (LN00 7)		
233	Notify next higher support organization that DLN00 7 (LN00 7) is going to be connected to the conversion switch box.	TELCO	—
234	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
235	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
236	At 3B20D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT , enter one of the following messages to make DLN00 7 (LN00 7) STBY : SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
237	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
238	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 0 (DGN:LN00 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 7 (LN00 7) CONNECTION		
239	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 7 (LN00 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 7 (LN00 7) will be isolated also.		
240	At 3B20D APS MCRT, isolate DLN00 7 (LN00 7) (CFR:RING,LN00 7;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 7 COMPL	TELCO	DLP-531
241	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
242	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 7 (LN00 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
243	At 3B20D APS CU 0 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
244	At CNI ring node cabinet 00, on DLN00 7 (LN00 7) circuit pack (EQL 45-058) ensure NT and RQ LEDs are on. This indicates the LN00 7 is isolated.	TELCO	—
245	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 45-086) for DLN00 7.	TELCO	—
	<i>DLN00 7 (LN00 7) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 0” cable termination on “CU 1”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN00 7 (LN00 7), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
246	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 7 (LN00 7).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
247	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 7 (LN00 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
248	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 45-086) for DLN00 7.	TELCO	—
249	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN00 7 (LN00 7).	INST	—
250	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN00 7 (LN00 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
251	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
252	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the DLN00 7 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phases 30 through 33 and 35, that test the DSCH to CU 1, will indicate likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phases 30 through 33 and 35, perform the following at DLN00 7: 1. At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 45-086) for DLN00 7. 2. At DLN00 7, disconnect DSCH cable at location 45-086-306. 3. At DLN00 7, connect DSCH cable, disconnected from location 45-086-106 earlier, to location 45-086-306. 4. At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 45-086) for DLN00 7. 5. Rerun the diagnostic. 6. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal troubleshooting procedures.		
253	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
254	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 0 (DGN:LN00 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
255	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
256	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	At 3B20D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 7 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
258	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
259	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 7 (LN00 7) is STBY .	TELCO/INST	—
260	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
261	Soak DLN00 7 (LN00 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
262	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
263	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
264	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST . - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	DIAGNOSE API 0, RPCN00 0, DLN00 2 (LN00 2), AND/OR DLN00 7 (LN00 7) WITH CU 0 ACTIVE		
265	If RPCN00 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN00 0 from service before switching CU 0 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
266	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
267	At 3B20D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
268	If API 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 0 was connected in a previous shift, go to Step 278.	TELCO/INST	—
269	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
270	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
271	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
272	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY. Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
273	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
275	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
276	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
277	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
278	If RPCN00 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was connected in a previous shift, go to Step 284.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
280	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
281	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
282	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
283	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
284	If DLN00 2 (LN00 2) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN00 2 (LN00 2) was connected in a previous shift, go to Step 293.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
285	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
286	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
287	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
288	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
289	At 3B20D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
290	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
291	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
292	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
293	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
294	At 3B20D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT, enter one of the following messages to make DLN00 7 (LN00 7) STBY: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
295	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B20D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 7 TASK x MESSAGE STARTED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
297	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
298	At 3B20D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is STBY, enter one of the following messages to make DLN00 7 (LN00 7) ACT: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
299	At 3B20D APS MCRT, enter 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	—
300	Soak CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
301	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
302	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
303	Notify next higher support organization that RPCN00 0, DLN00 2, and DLN00 7 connection to the conversion switch box is complete.	TELCO	—
304	Soak CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
305	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Connect API 1, RPCN32 0, DLN32 2 (LN32 2), and
DLN32 7 (LN32 7) to 3B20D APS CU 0 Side of
Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. The two Conversion Switch Boxes (CSBs) are installed at the 3B21D APS and tested. 3. The Remote Access Interface (RAI) that controls the CSBs is installed and tested. 4. The new Dual Serial Channel (DSCH) cables between the 3B21D APS and Conversion Switch Boxes have been routed, connected, and tested. 5. The new DSCH cables, associated with the 3B20D APS, have been run and tested, but NOT CONNECTED. 6. The labels on the old DSCH cables have been verified to have correct unit type and equipment location. 7. The following NTPs have been completed: • NTP-007.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES FOR API 1 TO CONVERSION SWITCH BOX CONVERSION WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B20 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
5	Verify 3B20D APS system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify 3B20D APS system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that API 1 connection to the conversion switch box is going to be performed.	TELCO	—
9	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
10	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
11	At 3B20D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	TELCO	—
12	At 3B20D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page, CU 0 changes to ACT state. On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
13	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
14	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
15	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
16	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
17	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
18	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
19	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
20	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
21	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
22	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 1 AND CU 0 FOR DSCH CONNECTION TO CONVERSION SWITCH BOX		
23	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
24	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
25	At 3B20D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
26	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
27	At 3B20D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY state On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
28	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
30	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
31	At 3B20D APS CU 0 power switch, depress OFF pushbutton - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights On 3B20D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—
32	At API 1 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 1 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
33	At API 1 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 1 RMV: API 1 COMPLETED.	TELCO	—
	CONNECTING API 1 DSCH TO CONVERSION SWITCH BOX		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 0" cable termination on "CU 1". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
34	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with API 1.	INST	—
35	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with API 1, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
36	At API 1 backplane, carefully disconnect the DSCH cable coming from CU 0.	INST	—
37	At API 1 backplane, carefully connect the new DSCH cable associated with CU 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
39	At API 1 power switch, depress ON pushbutton (Do not restore API 1 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 1.	TELCO/INST	DLP-510
40	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off On 3B20D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the API 1 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phase 3 (DSCH to CU 1) of the API diagnostics indicates likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phase 3, perform the following at API 1: 1. At API 1, disconnect DSCH cable at location 217-306. 2. At API 1, connect DSCH cable, disconnected from location 217-106 earlier, to location 217-306. 3. Rerun the diagnostic. 4. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal API troubleshooting procedures.		
41	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 1 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
42	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505
43	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: OS LED goes off RST: API 1 COMPLETED.	TELCO/INST	DLP-526
44	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
45	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
46	At 3B20D APS MCRT, diagnose CU 0, specifying channel 12 and phase 9 (DGN:CU 0,CH 12:PH 9!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 12 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 12 PH 9 ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-515

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
47	At 3B20D APS MCRT, diagnose CU 0, specifying channel 12 and phase 25 (DGN:CU 0,CH 12:PH 25!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 12 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 12 PH 25 ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-516
48	At API 1 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
49	At 1B Processor MTC terminal, diagnose API 1. Expect ATP results (RST:API 1!) Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 COMPLETED.	TELCO	DLP-562
50	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
51	Determine if enough time remains in this shift to complete RPCN32 0 connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
52	If enough time DOES remain, go to Step 80; otherwise, if enough time DOES NOT remain, perform Steps 53 through 69 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting RPCN32 0 through the conversion switch box.		
53	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: Restore will take approximately 30 minutes to complete. Response: RST: CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1 WITH CU 0 ACTIVE		
54	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
55	At 3B20D APS MCRT, enter 400 in command mode to make CU 0 ACT. Response: On Common Processor Display Page (102), CU 0 changes to ACT state On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
56	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
57	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
58	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
59	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
60	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
61	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!) Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
62	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
63	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
64	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
65	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
66	Soak CU 0 and API 1 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
68	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
69	Soak CU 0 and API 1 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
70	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
71	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
72	Verify 3B20D APS system status.	TELCO	DLP-500
73	Safe point to temporarily stop this procedure.	TELCO/INST	—
74	If procedure was stopped in Step 73, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
75	At 3B20D APS MCRT, enter 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	—
76	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
77	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
78	At 3B20D APS MCRT, if CU 0 is ACT, enter 400 in command mode to make CU 0 STBY. Response: On Common Processor Display Page (102), CU 0 changes to STBY On 3B20D APS MCRT ROP, SW CU 1 COMPLETED	TELCO	—
79	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS. • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B20D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 0 DSCH CONNECTION TO RPCN32 0</i>		
80	Notify next higher support organization that RPCN32 0 is going to be connected to the conversion switch box.	TELCO	—
81	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
82	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 UNAVAILABLE.	TELCO	—
	<i>VERIFY RPCN32 0 STATUS</i>		
83	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
84	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
85	At 3B20D APS MCRT, Ensure Major State for RPCN00 0 is ACT.	TELCO	—
86	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
87	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B20D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 0 (DGN:RPCN32 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN32 0 CONNECTION		
89	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN32 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN32 0 will be isolated also.		
90	At 3B20D APS MCRT, isolate RPCN32 0 (CFR:RING,RPCN32 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN32 0 COMPL	TELCO	DLP-528
91	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
92	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
93	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN32 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
94	At 3B20D APS CU 0 power switch, ensure OOS LED is on - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162.	TELCO	—
95	At 3B20D APS CU 0 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0	TELCO	—
96	At CNI ring node cabinet 32, on RPCN32 0 circuit packs, ensure RQ and NT LEDs (EQL 19-034 and 19-068 respectively) are on. This indicates the RPCN32 0 is isolated.	TELCO	—
97	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 19-086) for RPCN32 0.	TELCO	—
	RPCN32 0 TO CONVERSION SWITCH BOX CONNECTION		
	WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 0" cable termination on "CU 1". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.		
	Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with RPCN32 0, from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.		
98	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with RPCN32 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
100	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 19-086) for RPCN32 0.	TELCO	—
101	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
102	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with RPCN32 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
103	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
104	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT: REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the RPCN32 0 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phases 10 through 13 and 15, that test the DSCH to CU 1, will indicate likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phases 10 through 13 and/or 15, perform the following at RPCN32 0: 1. At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 19-086) for RPCN32 0. 2. At RPCN32 0, disconnect DSCH cable at location 19-086-306. 3. At RPCN32 0, connect DSCH cable, disconnected from location 19-086-106 earlier, to location 19-086-306. 4. At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 19-086) for RPCN32 0. 5. Rerun the diagnostic. 6. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal troubleshooting procedures.		
105	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
106	At 3B20D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 0 (DGN:RPCN32 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
107	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
108	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
109	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
110	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
111	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
112	Soak RPCN32 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
113	Determine if enough time remains in this shift to complete DLN32 2 (LN32 2) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
114	If enough time DOES remain, go to Step 154; otherwise, if enough time DOES NOT remain, perform Steps 115 through 141 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN32 2 (LN32 2) through the conversion switch box.		
115	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
116	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
117	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DIAGNOSE API 1 AND/OR RPCN32 0 WITH CU 0 ACTIVE</i>		
118	At 3B20D APS MCRT, remove RPCN32 0 from service before switching CU 0 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
119	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
120	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
121	If API 1 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 1 was connected in a previous shift, go to Step 131.	TELCO/INST	—
122	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
123	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
124	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
125	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
126	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
127	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
128	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
129	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
130	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
131	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
132	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
133	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
134	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
135	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
136	At 3B20D APS MCRT, enter 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	—
137	Soak CU 0, API 1, and RPCN32 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, and RPCN32 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
138	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
139	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
140	Notify next higher support organization that RPCN32 0 connection to the conversion switch box is complete.	TELCO	—
141	Soak CU 0, API 1, and RPCN32 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, and RPCN32 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
142	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
144	Verify 3B20D APS system status.	TELCO	DLP-500
145	Safe point to temporarily stop this procedure.	TELCO/INST	—
146	If procedure was stopped in Step 145, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
147	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
148	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
149	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
150	At 3B20D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY . On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
151	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
152	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
153	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 0 DSCH CONNECTION TO DLN32 2 (LN32 2)		
154	Notify next higher support organization that DLN32 2 (LN32 2) is going to be connected to the conversion switch box.	TELCO	—
155	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
156	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
157	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
158	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
159	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 0 (DGN:LN32 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 2 (LN32 2) CONNECTION		
160	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 2 (LN32 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 2 (LN32 2) will be isolated also.		
161	At 3B20D APS MCRT, isolate DLN32 2 (LN32 2) (CFR:RING,LN32 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 2 COMPL	TELCO	DLP-531
162	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
163	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 2 (LN32 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
164	At 3B20D APS CU 0 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
165	At CNI ring node cabinet 32, on DLN32 2 (LN32 2) circuit pack (EQL 28-058), ensure NT and RQ LEDs are on. This indicates the LN32 2 is isolated.	TELCO	—
166	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 28-086) for DLN32 2.	TELCO	—
	<i>DLN32 2 (LN32 2) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 0” cable termination on “CU 1”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN32 2 (LN32 2), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
167	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 2 (LN32 2).	INST	—
168	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 2 (LN32 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
169	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 28-086) for DLN32 2.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN32 2 (LN32 2).	INST	—
171	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN32 2 (LN32 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
172	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
173	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the DLN32 2 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phases 30 through 33 and 35, that test the DSCH to CU 1, will indicate likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phases 30 through 33 and 35, perform the following at DLN32 2: 1. At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 28-086) for DLN32 2. 2. At DLN32 2, disconnect DSCH cable at location 28-086-306. 3. At DLN32 2, connect DSCH cable, disconnected from location 28-086-106 earlier, to location 28-086-306. 4. At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 28-086) for DLN32 2. 5. Rerun the diagnostic. 6. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal troubleshooting procedures.		
174	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
175	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 0 (DGN:LN32 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
176	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
177	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 2 (LN32 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
178	At 3B20D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
179	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
180	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 2 (LN32 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
181	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
182	Soak DLN32 2 (LN32 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
183	Determine if enough time remains in this shift to complete DLN32 7 (LN32 7) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
184	If enough time DOES remain, go to Step 233; otherwise, if enough time DOES NOT remain, perform Steps 185 through 220 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN32 7 (LN32 7) through the conversion switch box.		
185	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
186	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
187	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 0 COMPLETED	TELCO/INST	DLP-514
188	If RPCN32 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN32 0 from service before switching CU 0 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 1, RPCN32 0 AND/OR DLN32 2 (LN32 2) WITH CU 0 ACTIVE		
189	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
191	If API 1 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 1 was connected in a previous shift, go to Step 201.	TELCO/INST	—
192	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
193	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
194	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
195	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
196	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
197	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
198	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
199	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
200	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	If RPCN32 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was connected in a previous shift, go to Step 207.	TELCO/INST	—
202	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
203	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
204	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
205	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
206	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
207	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
208	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
209	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
210	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
211	At 3B20D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
212	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
213	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
214	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY , enter one of the following messages to make DLN32 2 (LN32 2) ACT : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT . On 3B20D APS MCRT ROP, SW DLN COMPLETE .	TELCO	—
215	At 3B20D APS MCRT, enter 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	—
216	Soak CU 0, API 1, RPCN32 0, and DLN32 2 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
217	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
218	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
219	Notify next higher support organization that RPCN32 0 and DLN32 2 connection to the conversion switch box is complete.	TELCO	—
220	Soak CU 0, API 1, RPCN32 0, and DLN32 2 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
221	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
222	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
223	Verify 3B20D APS system status.	TELCO	DLP-500
224	Safe point to temporarily stop this procedure.	TELCO/INST	—
225	If procedure was stopped in Step 224, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
226	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
227	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
228	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
229	At 3B20D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY . On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
230	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
231	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B20D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
232	At 3B20D APS CU 0 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 0 DSCH CONNECTION TO DLN32 7 (LN32 7)</i>		
233	Notify next higher support organization that DLN32 7 (LN32 7) is going to be connected to the conversion switch box.	TELCO	—
234	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
235	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
236	At 3B20D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT , enter one of the following messages to make DLN32 7 (LN32 7) STBY : SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
237	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
238	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 0 (DGN:LN32 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 7 (LN32 7) CONNECTION		
239	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 7 (LN32 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 7 (LN32 7) will be isolated also.		
240	At 3B20D APS MCRT, isolate DLN32 7 (LN32 7) (CFR:RING, LN32 7; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 7 COMPL	TELCO	DLP-531
241	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
242	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 7 (LN32 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
243	At 3B20D APS CU 0 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
244	At CNI ring node cabinet 32, on DLN32 7 (LN32 7) circuit pack (EQL 45-058) ensure NT and RQ LEDs are on. This indicates the LN32 7 is isolated.	TELCO	—
245	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 45-086) for DLN32 7.	TELCO	—
	<i>DLN32 7 (LN32 7) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 0” cable termination on “CU 1”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN32 7 (LN32 7), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
246	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 7 (LN32 7).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
247	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 7 (LN32 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
248	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 45-086) for DLN32 7.	TELCO	—
249	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN32 7 (LN32 7).	INST	—
250	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN32 7 (LN32 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
251	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
252	At 3B20D APS CU 0 power switch, depress ON pushbutton (Do not restore CU 0 at this time) • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of following diagnostic may be due to cable reversals at the DLN32 7 (CU 0 and CU 1 DSCH connectors swapped at the time of installation). Correcting the reversal would involve removing a DSCH from the active CU. Failure in phases 30 through 33 and 35, that test the DSCH to CU 1, will indicate likely cabling reversal problems leaving CU 1 disconnected. If failure occurs in phases 30 through 33 and 35, perform the following at DLN32 7: 1. At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 45-086) for DLN32 7. 2. At DLN32 7, disconnect DSCH cable at location 45-086-306. 3. At DLN32 7, connect DSCH cable, disconnected from location 45-086-106 earlier, to location 45-086-306. 4. At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 45-086) for DLN32 7. 5. Rerun the diagnostic. 6. If diagnostic fails again, contact next higher support organization for resolution. Other failures should be resolved through normal troubleshooting procedures.		
253	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
254	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 0 (DGN:LN32 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
255	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
256	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	At 3B20D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
258	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
259	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 7 (LN32 7) is STBY .	TELCO/INST	—
260	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
261	Soak DLN32 7 (LN32 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
262	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
263	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B20D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
264	At 3B20D APS CU 0 power switch, operate ROS/RST switch to RST . - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	DIAGNOSE API 1, RPCN32 0, DLN32 2 (LN32 2), AND/OR DLN32 7 (LN32 7) WITH CU 0 ACTIVE		
265	If RPCN32 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN32 0 from service before switching CU 0 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
266	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
267	At 3B20D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
268	If API 1 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 1 was connected in a previous shift, go to Step 278.	TELCO/INST	—
269	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
270	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
271	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
272	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY. Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
273	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
275	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
276	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
277	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
278	If RPCN32 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was connected in a previous shift, go to Step 284.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
280	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
281	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
282	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
283	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
284	If DLN32 2 (LN32 2) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN32 2 (LN32 2) was connected in a previous shift, go to Step 293.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
285	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
286	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
287	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
288	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
289	At 3B20D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
290	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
291	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
292	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY, enter one of the following messages to make DLN32 2 (LN32 2) ACT: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
293	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
294	At 3B20D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT, enter one of the following messages to make DLN32 7 (LN32 7) STBY: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
295	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B20D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
297	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
298	At 3B20D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is STBY, enter one of the following messages to make DLN32 7 (LN32 7) ACT: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
299	At 3B20D APS MCRT, enter 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	—
300	Soak CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
301	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
302	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
303	Notify next higher support organization that RPCN32 0, DLN32 2, and DLN32 7 connection to the conversion switch box is complete.	TELCO	—
304	Soak CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
305	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Connect API 0, RPCN00 0, DLN00 2 (LN00 2), and
DLN00 7 (LN00 7) to 3B20D APS CU 1 Side of
Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. The two Conversion Switch Boxes (CSBs) are installed at the 3B21D APS and tested. 3. The Remote Access Interface (RAI) that controls the CSBs is installed and tested. 4. The new Dual Serial Channel (DSCH) cables between the 3B21D APS and Conversion Switch Boxes have been routed, connected, and tested. 5. The new DSCH cables, associated with the 3B20D APS, have been run and tested, but NOT CONNECTED. 6. The labels on the old DSCH cables have been verified to have correct unit type and equipment location. 7. The following NTPs have been completed: • NTP-007 (CU 0 Side) • NTP-008 (CU 0 Side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR API 0 TO CONVERSION SWITCH BOX CONVERSION WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B20 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
5	Verify 3B20D APS system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify 3B20D APS system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that API 0 connection to the conversion switch box is going to be performed.	TELCO	—
9	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
10	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
11	At 3B20D APS MCRT, on the Common Processor Display Page, determine the state of CU 1 (ACT or STBY)	TELCO	—
12	At 3B20D APS MCRT, if CU 1 is STBY , enter 400 in command mode to make CU 1 ACT . Response: On Common Processor Display Page, CU 1 changes to ACT state. On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
13	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
14	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
15	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
16	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
17	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
18	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
19	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
20	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
21	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
22	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 0 AND CU 1 FOR DSCH CONNECTION TO CONVERSION SWITCH BOX		
23	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
24	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
25	At 3B20D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
26	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
27	At 3B20D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY state On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
28	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
30	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
31	At 3B20D APS CU 1 power switch, depress OFF pushbutton - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights On 3B20D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—
32	At API 0 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OS LED lights OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 0 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
33	At API 0 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 0 RMV: API 0 COMPLETED.	TELCO	—
	CONNECTING API 0 DSCH TO CONVERSION SWITCH BOX		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 1" cable termination on "CU 0". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
34	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with API 0.	INST	—
35	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with API 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
36	At API 0 backplane, carefully disconnect the DSCH cable coming from CU 1.	INST	—
37	At API 0 backplane, carefully connect the new DSCH cable associated with CU 1, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
39	At API 0 power switch, depress ON pushbutton (Do not restore API 0 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 0.	TELCO/INST	DLP-510
40	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off On 3B20D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
41	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 0 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
42	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505
43	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: OS LED goes off RST: API 0 COMPLETED.	TELCO/INST	DLP-526
44	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
45	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
46	At 3B20D APS MCRT, diagnose CU 1, specifying channel 12 and phase 8 (DGN:CU 1,CH 12:PH 8!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 12 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 12 PH 8 ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-515

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
47	At 3B20D APS MCRT, diagnose CU 1, specifying channel 12 and phase 24 (DGN:CU 1,CH 12:PH 24!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 12 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 12 PH 24 ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-516
48	At API 0 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
49	At 1B Processor MTC terminal, diagnose API 0. Expect ATP results (RST:API 0!) Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 COMPLETED.	TELCO	DLP-562
50	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
51	Determine if enough time remains in this shift to complete RPCN00 0 connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
52	If enough time DOES remain, go to Step 80; otherwise, if enough time DOES NOT remain, perform Steps 53 through 69 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting RPCN00 0 through the conversion switch box.		
53	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: Restore will take approximately 30 minutes to complete. Response: RST: CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0 WITH CU 1 ACTIVE		
54	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
55	At 3B20D APS MCRT, enter 400 in command mode to make CU 1 ACT. Response: On Common Processor Display Page (102), CU 1 changes to ACT state On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
56	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
57	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
58	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
59	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
60	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
61	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!) Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
62	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
63	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
64	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
65	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
66	Soak CU 1 and API 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
68	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
69	Soak CU 1 and API 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
70	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
71	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
72	Verify 3B20D APS system status.	TELCO	DLP-500
73	Safe point to temporarily stop this procedure.	TELCO/INST	—
74	If procedure was stopped in Step 73, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
75	At 3B20D APS MCRT, enter 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	—
76	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
77	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
78	At 3B20D APS MCRT, if CU 1 is ACT, enter 400 in command mode to make CU 1 STBY. Response: On Common Processor Display Page (102), CU 1 changes to STBY On 3B20D APS MCRT ROP, SW CU 0 COMPLETED	TELCO	—
79	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS. • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B20D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 1 DSCH CONNECTION TO RPCN00 0</i>		
80	Notify next higher support organization that RPCN00 0 is going to be connected to the conversion switch box.	TELCO	—
81	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
82	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 UNAVAILABLE.	TELCO	—
	<i>VERIFY RPCN00 0 STATUS</i>		
83	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
84	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
85	At 3B20D APS MCRT, Ensure Major State for RPCN32 0 is ACT.	TELCO	—
86	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
87	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B20D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 1 (DGN:RPCN00 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN00 0 CONNECTION		
89	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN00 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN00 0 will be isolated also.		
90	At 3B20D APS MCRT, isolate RPCN00 0 (CFR:RING,RPCN00 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN00 0 COMPL	TELCO	DLP-528
91	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
92	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
93	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN00 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
94	At 3B20D APS CU 1 power switch, ensure OOS LED is on - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162.	TELCO	—
95	At 3B20D APS CU 1 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1	TELCO	—
96	At CNI ring node cabinet 00, on RPCN00 0 circuit packs, ensure RQ and NT LEDs (EQL 19-034 and 19-068 respectively) are on. This indicates the RPCN00 0 is isolated.	TELCO	—
97	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 19-086) for RPCN00 0.	TELCO	—
	RPCN00 0 TO CONVERSION SWITCH BOX CONNECTION		
	WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 1" cable termination on "CU 0". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.		
	Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with RPCN00 0, from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.		
98	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with RPCN00 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
100	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 19-086) for RPCN00 0.	TELCO	—
101	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
102	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with RPCN00 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
103	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
104	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT: REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
105	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
106	At 3B20D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 1 (DGN:RPCN00 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
107	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
108	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
109	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
110	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
111	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
112	Soak RPCN00 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
113	Determine if enough time remains in this shift to complete DLN00 2 (LN00 2) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
114	If enough time DOES remain, go to Step 154; otherwise, if enough time DOES NOT remain, perform Steps 115 through 141 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN00 2 (LN00 2) through the conversion switch box.		
115	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
116	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
117	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DIAGNOSE API 0 AND/OR RPCN00 0 WITH CU 1 ACTIVE</i>		
118	At 3B20D APS MCRT, remove RPCN00 0 from service before switching CU 1 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
119	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
120	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
121	If API 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 0 was connected in a previous shift, go to Step 131.	TELCO/INST	—
122	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
123	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
124	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
125	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
126	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
127	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
128	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
129	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
130	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
131	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
132	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
133	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
134	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
135	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
136	At 3B20D APS MCRT, enter 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	—
137	Soak CU 1, API 0, and RPCN00 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, and RPCN00 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
138	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
139	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
140	Notify next higher support organization that RPCN00 0 connection to the conversion switch box is complete.	TELCO	—
141	Soak CU 1, API 0, and RPCN00 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, and RPCN00 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
142	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
144	Verify 3B20D APS system status.	TELCO	DLP-500
145	Safe point to temporarily stop this procedure.	TELCO/INST	—
146	If procedure was stopped in Step 145, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
147	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
148	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
149	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
150	At 3B20D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY . On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
151	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
152	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
153	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 1 DSCH CONNECTION TO DLN00 2 (LN00 2)		
154	Notify next higher support organization that DLN00 2 (LN00 2) is going to be connected to the conversion switch box.	TELCO	—
155	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
156	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
157	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
158	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
159	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 1 (DGN:LN00 2:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 2 (LN00 2) CONNECTION		
160	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 2 (LN00 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 2 (LN00 2) will be isolated also.		
161	At 3B20D APS MCRT, isolate DLN00 2 (LN00 2) (CFR:RING,LN00 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 2 COMPL	TELCO	DLP-531
162	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
163	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 2 (LN00 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
164	At 3B20D APS CU 1 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
165	At CNI ring node cabinet 00, on DLN00 2 (LN00 2) circuit pack (EQL 28-058), ensure NT and RQ LEDs are on. This indicates the LN00 2 is isolated.	TELCO	—
166	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 28-086) for DLN00 2.	TELCO	—
	<i>DLN00 2 (LN00 2) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 1” cable termination on “CU 0”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN00 2 (LN00 2), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
167	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 2 (LN00 2).	INST	—
168	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 2 (LN00 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
169	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 28-086) for DLN00 2.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN00 2 (LN00 2).	INST	—
171	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN00 2 (LN00 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
172	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
173	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
174	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
175	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 1 (DGN:LN00 2:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
176	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
177	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 2 (LN00 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
178	At 3B20D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
179	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
180	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 2 (LN00 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
181	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
182	Soak DLN00 2 (LN00 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
183	Determine if enough time remains in this shift to complete DLN00 7 (LN00 7) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
184	If enough time DOES remain, go to Step 233; otherwise, if enough time DOES NOT remain, perform Steps 185 through 220 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN00 7 (LN00 7) through the conversion switch box.		
185	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
186	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
187	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 1 COMPLETED	TELCO/INST	DLP-514
188	If RPCN00 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN00 0 from service before switching CU 1 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 0, RPCN00 0 AND/OR DLN00 2 (LN00 2) WITH CU 1 ACTIVE		
189	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
191	If API 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 0 was connected in a previous shift, go to Step 201.	TELCO/INST	—
192	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
193	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
194	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
195	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
196	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
197	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
198	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
199	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
200	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	If RPCN00 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was connected in a previous shift, go to Step 207.	TELCO/INST	—
202	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
203	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
204	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
205	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
206	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
207	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
208	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
209	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
210	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
211	At 3B20D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
212	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
213	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
214	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
215	At 3B20D APS MCRT, enter 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	—
216	Soak CU 1, API 0, RPCN00 0, and DLN00 2 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
217	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
218	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
219	Notify next higher support organization that RPCN00 0 and DLN00 2 connection to the conversion switch box is complete.	TELCO	—
220	Soak CU 1, API 0, RPCN00 0, and DLN00 2 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
221	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
222	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
223	Verify 3B20D APS system status.	TELCO	DLP-500
224	Safe point to temporarily stop this procedure.	TELCO/INST	—
225	If procedure was stopped in Step 224, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
226	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
227	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
228	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
229	At 3B20D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY . On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
230	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
231	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
232	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 1 DSCH CONNECTION TO DLN00 7 (LN00 7)		
233	Notify next higher support organization that DLN00 7 (LN00 7) is going to be connected to the conversion switch box.	TELCO	—
234	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
235	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
236	At 3B20D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT , enter one of the following messages to make DLN00 7 (LN00 7) STBY : SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
237	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
238	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 1 (DGN:LN00 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 7 (LN00 7) CONNECTION		
239	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 7 (LN00 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 7 (LN00 7) will be isolated also.		
240	At 3B20D APS MCRT, isolate DLN00 7 (LN00 7) (CFR:RING,LN00 7;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 7 COMPL	TELCO	DLP-531
241	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
242	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 7 (LN00 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
243	At 3B20D APS CU 1 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
244	At CNI ring node cabinet 00, on DLN00 7 (LN00 7) circuit pack (EQL 45-058) ensure NT and RQ LEDs are on. This indicates the LN00 7 is isolated.	TELCO	—
245	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 45-086) for DLN00 7.	TELCO	—
	<i>DLN00 7 (LN00 7) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 1” cable termination on “CU 0”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN00 7 (LN00 7), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
246	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 7 (LN00 7).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
247	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 7 (LN00 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
248	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 45-086) for DLN00 7.	TELCO	—
249	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN00 7 (LN00 7).	INST	—
250	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN00 7 (LN00 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
251	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
252	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
253	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
254	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 1 (DGN:LN00 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
255	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
256	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	At 3B20D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 7 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
258	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
259	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 7 (LN00 7) is STBY .	TELCO/INST	—
260	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
261	Soak DLN00 7 (LN00 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
262	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
263	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
264	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST . - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	DIAGNOSE API 0, RPCN00 0, DLN00 2 (LN00 2), AND/OR DLN00 7 (LN00 7) WITH CU 1 ACTIVE		
265	If RPCN00 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN00 0 from service before switching CU 1 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
266	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
267	At 3B20D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
268	If API 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 0 was connected in a previous shift, go to Step 278.	TELCO/INST	—
269	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
270	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
271	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
272	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY. Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
273	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
275	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
276	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
277	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
278	If RPCN00 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was connected in a previous shift, go to Step 284.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B20D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
280	At 3B20D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
281	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
282	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
283	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
284	If DLN00 2 (LN00 2) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN00 2 (LN00 2) was connected in a previous shift, go to Step 293.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
285	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
286	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
287	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
288	At 3B20D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
289	At 3B20D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
290	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
291	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
292	At 3B20D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
293	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
294	At 3B20D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT, enter one of the following messages to make DLN00 7 (LN00 7) STBY: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
295	At 3B20D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B20D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 7 TASK x MESSAGE STARTED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
297	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
298	At 3B20D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is STBY, enter one of the following messages to make DLN00 7 (LN00 7) ACT: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
299	At 3B20D APS MCRT, enter 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	—
300	Soak CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
301	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
302	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
303	Notify next higher support organization that RPCN00 0, DLN00 2, and DLN00 7 connection to the conversion switch box is complete.	TELCO	—
304	Soak CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
305	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Connect API 1, RPCN32 0, DLN32 2 (LN32 2), and
DLN32 7 (LN32 7) to 3B20D APS CU 1 Side of
Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. The two Conversion Switch Boxes (CSBs) are installed at the 3B21D APS and tested. 3. The Remote Access Interface (RAI) that controls the CSBs is installed and tested. 4. The new Dual Serial Channel (DSCH) cables between the 3B21D APS and Conversion Switch Boxes have been routed, connected, and tested. 5. The new DSCH cables, associated with the 3B20D APS, have been run and tested, but NOT CONNECTED. 6. The labels on the old DSCH cables have been verified to have correct unit type and equipment location. 7. The following NTPs have been completed: • NTP-007 (CU 1 Side) • NTP-008 (CU 1 Side) • NTP-009 (CU 0 Side).		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES FOR API 1 TO CONVERSION SWITCH BOX CONVERSION WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B20 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
5	Verify 3B20D APS system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify 3B20D APS system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that API 1 connection to the conversion switch box is going to be performed.	TELCO	—
9	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
10	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
11	At 3B20D APS MCRT, on the Common Processor Display Page, determine the state of CU 1 (ACT or STBY)	TELCO	—
12	At 3B20D APS MCRT, if CU 1 is STBY , enter 400 in command mode to make CU 1 ACT . Response: On Common Processor Display Page, CU 1 changes to ACT state. On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
13	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
14	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
15	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
16	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
17	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
18	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
19	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
20	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
21	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
22	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 1 AND CU 1 FOR DSCH CONNECTION TO CONVERSION SWITCH BOX		
23	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
24	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
25	At 3B20D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
26	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
27	At 3B20D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY state On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
28	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
29	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
30	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
31	At 3B20D APS CU 1 power switch, depress OFF pushbutton - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights On 3B20D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—
32	At API 1 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OS LED lights OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 1 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
33	At API 1 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 1 RMV: API 1 COMPLETED.	TELCO	—
	CONNECTING API 1 DSCH TO CONVERSION SWITCH BOX		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 1" cable termination on "CU 0". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
34	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with API 1.	INST	—
35	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with API 1, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
36	At API 1 backplane, carefully disconnect the DSCH cable coming from CU 1.	INST	—
37	At API 1 backplane, carefully connect the new DSCH cable associated with CU 1, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
39	At API 1 power switch, depress ON pushbutton (Do not restore API 1 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 1.	TELCO/INST	DLP-510
40	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off On 3B20D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
41	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 1 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
42	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505
43	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: OS LED goes off RST: API 1 COMPLETED.	TELCO/INST	DLP-526
44	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
45	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
46	At 3B20D APS MCRT, diagnose CU 1, specifying channel 12 and phase 9 (DGN:CU 1,CH 12:PH 9!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 12 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 12 PH 9 ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-515

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
47	At 3B20D APS MCRT, diagnose CU 1, specifying channel 12 and phase 25 (DGN:CU 1,CH 12:PH 25!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 12 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 12 PH 25 ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 12 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-516
48	At API 1 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
49	At 1B Processor MTC terminal, diagnose API 1. Expect ATP results (RST:API 1!) Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 COMPLETED.	TELCO	DLP-562
50	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
51	Determine if enough time remains in this shift to complete RPCN32 0 connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
52	If enough time DOES remain, go to Step 80; otherwise, if enough time DOES NOT remain, perform Steps 53 through 69 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting RPCN32 0 through the conversion switch box.		
53	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: Restore will take approximately 30 minutes to complete. Response: RST: CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1 WITH CU 1 ACTIVE		
54	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
55	At 3B20D APS MCRT, enter 400 in command mode to make CU 1 ACT. Response: On Common Processor Display Page (102), CU 1 changes to ACT state On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
56	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
57	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
58	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
59	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
60	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
61	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!) Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
62	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
63	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
64	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
65	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
66	Soak CU 1 and API 1 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
68	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
69	Soak CU 1 and API 1 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
70	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
71	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
72	Verify 3B20D APS system status.	TELCO	DLP-500
73	Safe point to temporarily stop this procedure.	TELCO/INST	—
74	If procedure was stopped in Step 73, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
75	At 3B20D APS MCRT, enter 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	—
76	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
77	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
78	At 3B20D APS MCRT, if CU 1 is ACT, enter 400 in command mode to make CU 1 STBY. Response: On Common Processor Display Page (102), CU 1 changes to STBY On 3B20D APS MCRT ROP, SW CU 0 COMPLETED	TELCO	—
79	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS. • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B20D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 1 DSCH CONNECTION TO RPCN32 0</i>		
80	Notify next higher support organization that RPCN32 0 is going to be connected to the conversion switch box.	TELCO	—
81	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
82	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 UNAVAILABLE.	TELCO	—
	<i>VERIFY RPCN32 0 STATUS</i>		
83	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
84	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
85	At 3B20D APS MCRT, Ensure Major State for RPCN00 0 is ACT.	TELCO	—
86	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
87	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B20D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 1 (DGN:RPCN32 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN32 0 CONNECTION		
89	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN32 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN32 0 will be isolated also.		
90	At 3B20D APS MCRT, isolate RPCN32 0 (CFR:RING,RPCN32 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN32 0 COMPL	TELCO	DLP-528
91	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
92	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
93	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN32 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
94	At 3B20D APS CU 1 power switch, ensure OOS LED is on - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162.	TELCO	—
95	At 3B20D APS CU 1 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1	TELCO	—
96	At CNI ring node cabinet 32, on RPCN32 0 circuit packs, ensure RQ and NT LEDs (EQL 19-034 and 19-068 respectively) are on. This indicates the RPCN32 0 is isolated.	TELCO	—
97	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 19-086) for RPCN32 0.	TELCO	—
	RPCN32 0 TO CONVERSION SWITCH BOX CONNECTION		
	WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a "CU 1" cable termination on "CU 0". The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.		
	Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with RPCN32 0, from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.		
98	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with RPCN32 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
100	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 19-086) for RPCN32 0.	TELCO	—
101	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
102	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with RPCN32 0, coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
103	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
104	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT: REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
105	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
106	At 3B20D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 1 (DGN:RPCN32 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
107	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
108	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
109	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
110	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
111	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
112	Soak RPCN32 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
113	Determine if enough time remains in this shift to complete DLN32 2 (LN32 2) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
114	If enough time DOES remain, go to Step 154; otherwise, if enough time DOES NOT remain, perform Steps 115 through 141 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN32 2 (LN32 2) through the conversion switch box.		
115	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
116	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
117	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DIAGNOSE API 1 AND/OR RPCN32 0 WITH CU 1 ACTIVE</i>		
118	At 3B20D APS MCRT, remove RPCN32 0 from service before switching CU 1 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
119	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
120	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
121	If API 1 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 1 was connected in a previous shift, go to Step 131.	TELCO/INST	—
122	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
123	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
124	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
125	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
126	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
127	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
128	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
129	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
130	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
131	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
132	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
133	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
134	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
135	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
136	At 3B20D APS MCRT, enter 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	—
137	Soak CU 1, API 1, and RPCN32 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, and RPCN32 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
138	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
139	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
140	Notify next higher support organization that RPCN32 0 connection to the conversion switch box is complete.	TELCO	—
141	Soak CU 1, API 1, and RPCN32 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, and RPCN32 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
142	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
144	Verify 3B20D APS system status.	TELCO	DLP-500
145	Safe point to temporarily stop this procedure.	TELCO/INST	—
146	If procedure was stopped in Step 145, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
147	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
148	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
149	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
150	At 3B20D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY . On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
151	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
152	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
153	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 1 DSCH CONNECTION TO DLN32 2 (LN32 2)		
154	Notify next higher support organization that DLN32 2 (LN32 2) is going to be connected to the conversion switch box.	TELCO	—
155	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
156	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
157	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
158	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
159	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 1 (DGN:LN32 2:PH 34, CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 2 (LN32 2) CONNECTION		
160	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 2 (LN32 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 2 (LN32 2) will be isolated also.		
161	At 3B20D APS MCRT, isolate DLN32 2 (LN32 2) (CFR:RING,LN32 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 2 COMPL	TELCO	DLP-531
162	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
163	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 2 (LN32 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
164	At 3B20D APS CU 1 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
165	At CNI ring node cabinet 32, on DLN32 2 (LN32 2) circuit pack (EQL 28-058), ensure NT and RQ LEDs are on. This indicates the LN32 2 is isolated.	TELCO	—
166	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 28-086) for DLN32 2.	TELCO	—
	<i>DLN32 2 (LN32 2) TO CONVERSION SWITCH BOX CONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 1” cable termination on “CU 0”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.</i>		
	<i>Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN32 2 (LN32 2), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
167	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 2 (LN32 2).	INST	—
168	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 2 (LN32 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
169	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 28-086) for DLN32 2.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN32 2 (LN32 2).	INST	—
171	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN32 2 (LN32 2), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
172	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
173	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
174	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
175	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 1 (DGN:LN32 2:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
176	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
177	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 2 (LN32 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
178	At 3B20D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
179	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
180	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 2 (LN32 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
181	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
182	Soak DLN32 2 (LN32 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
183	Determine if enough time remains in this shift to complete DLN32 7 (LN32 7) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
184	If enough time DOES remain, go to Step 233; otherwise, if enough time DOES NOT remain, perform Steps 185 through 220 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting DLN32 7 (LN32 7) through the conversion switch box.		
185	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
186	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
187	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 1 COMPLETED	TELCO/INST	DLP-514
188	If RPCN32 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN32 0 from service before switching CU 1 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 1, RPCN32 0 AND/OR DLN32 2 (LN32 2) WITH CU 1 ACTIVE		
189	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
191	If API 1 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 1 was connected in a previous shift, go to Step 201.	TELCO/INST	—
192	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
193	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
194	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
195	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
196	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
197	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
198	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
199	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
200	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	If RPCN32 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was connected in a previous shift, go to Step 207.	TELCO/INST	—
202	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
203	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
204	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
205	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
206	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
207	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
208	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
209	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
210	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
211	At 3B20D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
212	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
213	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
214	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY, enter one of the following messages to make DLN32 2 (LN32 2) ACT: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
215	At 3B20D APS MCRT, enter 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	—
216	Soak CU 1, API 1, RPCN32 0, and DLN32 2 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
217	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
218	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
219	Notify next higher support organization that RPCN32 0 and DLN32 2 connection to the conversion switch box is complete.	TELCO	—
220	Soak CU 1, API 1, RPCN32 0, and DLN32 2 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
221	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
222	Ensure that all cables for this night's conversion are available. Note: While the availability of the cables is being verified, the on-site work force can continue at the next step.	INST	—
223	Verify 3B20D APS system status.	TELCO	DLP-500
224	Safe point to temporarily stop this procedure.	TELCO/INST	—
225	If procedure was stopped in Step 224, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
226	At 3B20D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
227	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
228	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
229	At 3B20D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY . On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
230	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
231	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B20D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
232	At 3B20D APS CU 1 power switch, operate ROS/RST switch to ROS . • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B20D APS MCRT, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 1 DSCH CONNECTION TO DLN32 7 (LN32 7)		
233	Notify next higher support organization that DLN32 7 (LN32 7) is going to be connected to the conversion switch box.	TELCO	—
234	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
235	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
236	At 3B20D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT , enter one of the following messages to make DLN32 7 (LN32 7) STBY : SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
237	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
238	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 1 (DGN:LN32 7:PH 34, CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 7 (LN32 7) CONNECTION		
239	At 3B20D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 7 (LN32 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 7 (LN32 7) will be isolated also.		
240	At 3B20D APS MCRT, isolate DLN32 7 (LN32 7) (CFR:RING, LN32 7; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 7 COMPL	TELCO	DLP-531
241	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
242	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 7 (LN32 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
243	At 3B20D APS CU 1 power switch, depress OFF pushbutton. - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
244	At CNI ring node cabinet 32, on DLN32 7 (LN32 7) circuit pack (EQL 45-058) ensure NT and RQ LEDs are on. This indicates the LN32 7 is isolated.	TELCO	—
245	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 45-086) for DLN32 7.	TELCO	—
	DLN32 7 (LN32 7) TO CONVERSION SWITCH BOX CONNECTION		
	WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B20D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors. Be alert to labeling discrepancies such as a “CU 1” cable termination on “CU 0”. The DSCH connectors at the application units will function in either CU port and appear normal. Previous errors in office wiring could cause cross-cabling of the DSCH while executing this procedure.		
	Caution: Be extremely cautious when removing/connecting the DSCH cable, associated with DLN32 7 (LN32 7), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.		
246	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 7 (LN32 7).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
247	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 7 (LN32 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
248	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 45-086) for DLN32 7.	TELCO	—
249	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN32 7 (LN32 7).	INST	—
250	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN32 7 (LN32 7), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
251	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
252	At 3B20D APS CU 1 power switch, depress ON pushbutton (Do not restore CU 1 at this time) • Model 1 (ABB1) - EQL 56-008 • Model 2/3 (TN5B) - EQL 60-162. Response: OFF LED goes off At 3B20D APS MCRT, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
253	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables connected to the conversion switch box. Carefully check all DSCH cable connections for accuracy.		
254	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 1 (DGN:LN32 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
255	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
256	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	At 3B20D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
258	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
259	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 7 (LN32 7) is STBY .	TELCO/INST	—
260	At 3B20D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
261	Soak DLN32 7 (LN32 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
262	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
263	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B20D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
264	At 3B20D APS CU 1 power switch, operate ROS/RST switch to RST . - Model 1 (ABB1) - EQL 56-008 - Model 2/3 (TN5B) - EQL 60-162. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	DIAGNOSE API 1, RPCN32 0, DLN32 2 (LN32 2), AND/OR DLN32 7 (LN32 7) WITH CU 1 ACTIVE		
265	If RPCN32 0 was connected to the conversion switch box during this shift, at 3B20D APS MCRT, remove RPCN32 0 from service before switching CU 1 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
266	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
267	At 3B20D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
268	If API 1 was connected to the conversion switch box during this shift, continue with next step; otherwise, if API 1 was connected in a previous shift, go to Step 278.	TELCO/INST	—
269	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
270	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
271	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
272	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY. Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
273	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
275	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
276	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
277	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
278	If RPCN32 0 was connected to the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was connected in a previous shift, go to Step 284.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B20D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
280	At 3B20D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
281	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
282	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
283	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
284	If DLN32 2 (LN32 2) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN32 2 (LN32 2) was connected in a previous shift, go to Step 293.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
285	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
286	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
287	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
288	At 3B20D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
289	At 3B20D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
290	At 3B20D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
291	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
292	At 3B20D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY, enter one of the following messages to make DLN32 2 (LN32 2) ACT: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
293	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
294	At 3B20D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT, enter one of the following messages to make DLN32 7 (LN32 7) STBY: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
295	At 3B20D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B20D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
297	At 3B20D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
298	At 3B20D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is STBY, enter one of the following messages to make DLN32 7 (LN32 7) ACT: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
299	At 3B20D APS MCRT, enter 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	—
300	Soak CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
301	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
302	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
303	Notify next higher support organization that RPCN32 0, DLN32 2, and DLN32 7 connection to the conversion switch box is complete.	TELCO	—
304	Soak CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
305	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Perform Preliminary Steps During the Evening Shift Prior to Booting to the 3B21D APS - Support to Installer (INST)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 2. MHD 9 in the 3B21D APS must be grown. 3. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 1 side) • NTP-010 (for CU 1 side).		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN COPYING 3B20D APS DATABASES TO 3B21D APS WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 2. This procedure must be performed during light traffic periods. 3. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 4. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 5. Stability of office must be maintained throughout this procedure. 6. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic.		

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 3B20D system status.	TELCO	DLP-500
3	At 3B20D APS MCRT, enter 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	—
4	At 3B20D APS MCRT, enter message OP:DMSORDERS INCORE! Response: OP:DMSORDERS COMPL NO INCORE ORDERS FOUND If there are DMS ORDERS INCORE listed, each data base management system (DMS) order needs to be verified with the responsible organization to determine if the DMS order should be activated prior to the conversion. If a listed DMS order is not activated, it will be lost which could have an adverse effect on the machine.	TELCO	—
5	At 3B20D 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.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
6	At 3B20D APS MCRT, run NIDATA audits.	TELCO	DLP-542
7	At 3B20D APS MCRT, run file system audits to ensure no file system errors.	TELCO	DLP-503
8	Update 3B20D APS backup partition.	TELCO	DLP-504
9	At 3B20D APS MCRT, enter the following commands and save their ROP output to compare against the same commands on the 3B21D APS: • OP:AMA;STREAM! • OP:AMA;CONFIG! • OP:AMA;DISK! • OP:AMA;MAPS! • OP:AMA;CONTROLFILE!	TELCO	—
10	Notify the onsite workforce and installer to complete the following steps.	TELCO	—
11	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each MHD on SBUS 1) RMV SBUS 1 COMPLETED REPT DIOP SIMPLEX PROCESSING COMPLETED	TELCO	DLP-535
12	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
13	At the 3B20D SCSI cabinet, install the UN375 MHD circuit pack into the DUP cabinet (EQL 15-140). Response: OFF LED lights.	INST	—
14	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to ST to power up the MHD. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
15	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
16	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to RST . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
17	At 3B20D APS MCRT, restore SBUS 1 controller to service (RST:SBUS 1:CONT!). Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	TELCO/INST	DLP-533
18	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
19	At 3B20D APS MCRT, enter message INH:AUD:ECD! Response: INH AUD COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
20	At 3B20D APS MCRT, enter message INH:AUD:DLN! Response: INH AUD COMPLETED	TELCO	—
	<i>COPYING 3B20D ECD TO MHD 9</i>		
21	At 3B20D APS MCRT, copy 3B20D APS generic to MHD 9 (EXC:ENVIR:UPROC,FN"/tools/3b21/cpgen.sh"). Follow the ROP printout per the appropriate DLP.		
	A. For offices in 4AP16 generic	TELCO/INST	DLP-537
	B. For offices in 4AP17 generic	TELCO/INST	DLP-581
22	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD 9 COMPLETED RMV SBUS 1 COMPLETED	TELCO	DLP-535

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
23	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to ROS . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
24	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to OFF . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
25	At the DUP cabinet, unlatch the UN375 MHD circuit pack (EQL 15-140), but do not remove at this time.	INST	—
26	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
27	At the DUP cabinet, remove the UN375 MHD circuit pack at location 15-140 and insert this pack into an approved anti-static bag to safely move to the 3B21D APS area.	INST	—
28	At 3B20D APS MCRT, restore SBUS 1 controller to service (RST:SBUS 1:CONT!). Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	TELCO/INST	DLP-533
29	Carefully move the UN375 MHD circuit pack to the 3B21D APS.	INST	—
	CONVERTING 3B20D ECD AND COPYING GENERIC FROM MHD 9 TO 3B21D APS		
30	At 3B21D APS MCRT, enter following messages to inhibit automatic diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! Response: INH DMQ COMPLETED (for each of the above messages)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
31	At 3B21D APS MCRT, enter message RMV:SBUS 1! to remove SBUS 1 from service. Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each MHD on SBUS 1) RMV MT 1 COMPLETED RMV SBUS 1 COMPLETED REPT DIOP SIMPLEX PROCESSING COMPLETED	INST	—
32	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—
33	At the 3B21D cabinet, install the UN375 MHD circuit pack at location 62-088. Response: OFF LED lights.	INST	—
34	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to ST to power up MHD 9. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
35	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
36	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to RST. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
37	At 3B21D APS MCRT, enter message RST:SBUS 1:CONT! to restore SBUS 1 controller to service. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	INST	—
38	At 3B21D APS MCRT, enter message RST:MHD 9! to restore MHD 9 to service Response: RST MHD 9 TASK x MESSAGE STARTED RMV MHD 9 STOPPED X'5 DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS RST MHD 9 IN PROGRESS DGN MHD 9 ATP MESSAGE COMPLETE RST MHD 9 COMPLETED	INST	—
39	At 3B21D APS MCRT, enter message INH:AUD:ECD! to inhibit ECD audits. Response: INH AUD COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
40	After entering the message in the next step, continue performing Steps 42 through 46. Periodically observe the ROP for errors and/or completion message. Do not proceed past Step 46 until Step 41 is complete.	TELCO/INST	—
41	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/convert.ecd" to convert the 3B20D ECD on MHD 9. <i>Note:</i> ECD conversion will take approximately 50 minutes to complete. Response: REPT ECDUMP STARTED REPT ECDUMP IN PROGRESS . REPT ECDUMP IN PROGRESS REPT ECDUMP /database/dmpfiles/ecd.dmp CREATED WITH XXXX LINES REPT ECDUMP COMPLETE CODE 0 REPT ECDUMP STARTED REPT ECDUMP IN PROGRESS . REPT ECDUMP IN PROGRESS REPT ECDUMP /supr/dmpfiles/ecd.dmp CREATED WITH XXXX LINES REPT ECDUMP COMPLETE CODE 0 REPT DLNRETRO.21 STARTED REPT DLNRETRO.21 - DLN LN00-xx REPT DLNRETRO.21 - DLN LN32-xx REPT DLNRETRO.21 - DLN LN00-yy REPT DLNRETRO.21 - DLN LN32-yy REPT DLNRETRO.21 LN00-xx ADDED TO SCRIPT FILE REPT DLNRETRO.21 LN32-xx ADDED TO SCRIPT FILE REPT DLNRETRO.21 COMPLETE CODE 0 (Output messages continued on next page.)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Response: (continued) REPT CFTPURGE STARTED REPT CFTPURGE COMPLETE - NOTHING TO PURGE REPT NEWRETRO.21 IS BUILDING THE ECD CONVERSION SCRIPT REPT NEWRETRO.21 ECD CONVERSION COMPLETE REPT CONVERT.ECD - APPLYING /etc/bwm/dlnscript TO /database/appecd REPT DATABASE CONVERSION STARTED REPT DATABASE CONVERSION IN PROGRESS APPLYING dlnscript TO /database/appecd REPT DATABASE CONVERSION COMPLETED SUCCESSFULLY APPLIED SCRIPT dlnscript TO /database/appecd REPT CONVERT.ECD - SUCCESSFULLY APPLIED /etc/bwm/dlnscript REPT CONVERT.ECD - APPLYING /etc/bwm/retroscript TO /database/appecd REPT DATABASE CONVERSION STARTED REPT DATABASE CONVERSION IN PROGRESS APPLYING retroscript TO /database/appecd REPT DATABASE CONVERSION COMPLETED SUCCESSFULLY APPLIED SCRIPT retroscript TO /database/appecd REPT CONVERT.ECD - SUCCESSFULLY APPLIED /etc/bwm/retroscript REPT CONVERT.ECD - APPLYING /etc/bwm/sbcscrip TO /database/appecd * REPT DATABASE CONVERSION STARTED * REPT DATABASE CONVERSION COMPLETED * SUCCESSFULLY APPLIED SCRIPT sbcscrip TO /database/appecd * REPT CONVERT.ECD - SUCCESSFULLY APPLIED /etc/bwm/sbcscrip * * Only received for an SBC Communications,Inc. office. REPT CONVERT.ECD - COMPLETED CODE 0 EXC ENVIR UPROC /tools/3b21/convert.ecd COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	VERIFY 1B PROCESSOR		
42	At 1B Processor MTC terminal, enter message AUD:NUM(43,44,45,66)! to run SAWS audits. Note: Wait for ALL audits to complete before continuing. Response: AUD: NUM xx COMPLETE 0 ERROR DETECTED (for each audit run).	TELCO	—
43	If 0 ERROR DETECTED appears for each of the audits in Step 42, then continue with Step 44. If errors are detected in Step 42, then contact your local support organization before continuing.	TELCO	—
44	At 1B Processor MTC terminal, enter message UPD:COMMIT;NORMFILE! to lock out updates to the 1afile. Response: UPD:COMMIT COMPLETED TO NORMFILE	TELCO	—
45	At 3B20D APS MCRT, enter message DUMP:FILE:FORMAT,FN"/dev/1astat",x! to dump disk copy of 1ASTAT file: Response: DUMP FILE DATA COMPLETED — followed by several lines of address — data dumps. The format of the first line is given below: 00000000000 f0ff 0fff aabb ccxx xxxx xxxx xxxx aa = Normal 1afile: 00 — 1afile0 or 01 — 1afile1 bb = Lock Indicator: 00 — Update File is Unlocked or 01 — Update File is Locked cc = System Operating State: 01 — Operating in Normal Mode or 02 — Operating in Update Mode x = Hexadecimal dump	TELCO	—
46	In the first line of the printout above, if cc is 02 (operating in update mode) or bb is 00 (00 indicates update file is unlocked), DO NOT continue with the update. Contact your local support organization immediately.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	LOADING GENERIC FROM MHD 9 TO 3B21D		
47	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	INST	—
48	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	INST	—
49	At 3B21D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page (102), CU 0 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED	INST	—
50	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/ldgen.sh" to load generic from MHD 9 to the 3B21D. Follow the ROP printout per the appropriate DLP.		
	A. For offices in 4AP16 generic	TELCO/INST	DLP-582
	B. For offices in 4AP17 generic	TELCO/INST	DLP-583
51	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Copy 1afiles From 3B20D Attached Processor System (APS)
to 3B21D APS - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. NTP-012 through NTP-014 must have been reviewed and understood before performing 2. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 3. The following NTP must have been completed: • NTP-011.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN COPYING 3B20D APS DATABASES TO 3B21D APS WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. You will need to coordinate with the AMA support group to have your AMA teleprocessed at the proper time. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. 4ESS™ Switch must be running on 4E23 or later generic and the 3B20D and 3B21D APSs must be running on the same 4AP generic.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	Place a check mark by each step when completed.	TELCO/INST	—
2	Contact the next higher support organization to determine if you can proceed with copying the 1afiles from the 3B20D APS (With a 12 midnight boot time, this procedure can be started at 10:45 pm).	TELCO	—
3	At 3B21D APS MCRT, enter message RMV:MHD 9! to remove MHD 9 from service. Response: RMV MHD 9 TASK x MESSAGE STARTED RMV MHD 9 COMPLETED	INST	—
4	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to ROS . Note: No MHD response will be received since no scan or SD cables are connected.	INST	—
5	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to OFF . Note: No MHD response will be received since no scan or SD cables are connected.	INST	—
6	Unlatch the UN375 MHD circuit pack (EQL 62-088), but do not remove at this time.	INST	—
7	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
8	At the 3B21D cabinet, remove the UN375 MHD circuit pack at location 62-088 and insert this pack into an approved anti-static bag to safely move to the 3B20D SCSI cabinet.	INST	—
	<i>COPYING 1AFILE FROM 3B20D TO MHD 9</i>		
9	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 COMPLETED	TELCO	DLP-535

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
10	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—
11	At the 3B20D SCSI cabinet, install the UN375 MHD circuit pack into the DUP cabinet (EQL 15-140). Response: OFF LED lights.	INST	—
12	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to ST to power up the MHD. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
13	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
14	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to RST. Note: No MHD response will be received since no scan or SD cables are connected.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
15	At 3B20D APS MCRT, Restore SBUS 1 controller to service (RST:SBUS 1:CONT!). Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	TELCO/INST	DLP-533
16	At 3B20D APS MCRT, restore MHD 9 to service (RST:MHD 9!). Response: RST MHD 9 TASK x MESSAGE STARTED RMV MHD 9 STOPPED X'5 DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS RST MHD 9 IN PROGRESS DGN MHD 9 ATP MESSAGE COMPLETE RST MHD 9 COMPLETED	TELCO/INST	DLP-508
17	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108)	TELCO	—
18	At 1B Processor MCC terminal, if 801 - RESTRICT RC is colored white on black, enter 801 (801 - RESTRICT RC colored black on white). Response: INH:RC MSG, RESTRICTED TO MOC	TELCO	—
19	At the 3B20D APS MCRT, copy 1afile to MHD 9 (EXC:ENVIR:UPROC,FN"/tools/3b21/cp1afile.sh). Follow ROP printout per the appropriate DLP.		
	A. For offices in 4E23 generic	TELCO/INST	DLP-538
	B. For offices in 4E24 generic	TELCO/INST	DLP-584

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
20	Contact appropriate AMA support group to teleprocess your AMA data.	TELCO	—
21	At 3B20D APS MCRT, remove SBUS 1 from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD 9 COMPLETED RMV SBUS 1 COMPLETED	TELCO	DLP-535
22	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ROS/RST switch to ROS . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
23	At the front of the DUP cabinet, on the UN375 MHD circuit pack (EQL 15-140), operate the ST/ON/OFF switch to OFF . Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
24	At the DUP cabinet, unlatch the UN375 MHD circuit pack (EQL 15-140), but do not remove at this time.	INST	—
25	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
26	At the DUP cabinet, remove the UN375 MHD circuit pack at location 15-140 and insert this pack into an approved anti-static bag to safely move to the 3B21D APS.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
27	At 3B20D APS MCRT, restore SBUS 1 to service (RST:SBUS 1:CONT!). Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED	TELCO/INST	DLP-533
28	Carefully move the UN375 MHD circuit pack to the 3B21D APS.	INST	—
	<i>COPYING 1AFILE FROM MHD 9 TO 3B21D</i>		
	<i>Note:</i> SBUS 1 will not be removed from service before installing the UN375 MHD circuit pack. The system is currently in a state that will not allow SBUS 1 to be removed.		
29	Remove the UN375 MHD circuit pack from its packaging and verify the following switch settings: • Set the SCSI ID pushbutton switch (near the top of the circuit pack) to 2. • Set the ROS/RST switch to ROS. • Set the ST/ON/OFF switch to OFF. • Set the ACO/T switch to the blank (OFF) position.	INST	—
30	At the 3B21D cabinet, install the UN375 MHD circuit pack at location 62-088.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
31	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to ST to power up MHD 9. Response: The OFF LED should flash for a few seconds and then go off.	INST	—
32	Wait 30 seconds to allow the UN375 MHD circuit pack to spin up.	INST	—
33	At the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to RST . Note: No MHD response will be received since no scan or SD cables are connected.	INST	—
34	At 3B21D APS MCRT, enter message RST:MHD 9! to restore MHD 9 to service. Response: RST MHD 9 TASK x MESSAGE STARTED RMV MHD 9 STOPPED X'5 DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS RST MHD 9 IN PROGRESS DGN MHD 9 ATP MESSAGE COMPLETE RST MHD 9 COMPLETED	INST	—
35	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	INST	—
36	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	INST	—
37	At 3B21D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page (102), CU 0 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
38	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/ld1afile.sh" to load 1afile from MHD 9 to the 3B21D APS. Follow ROP printout per the appropriate DLP.		
	A. For offices in 4E23 generic	TELCO/INST	DLP-585
	B. For offices in 4E24 generic	TELCO/INST	DLP-586
39	Notify next higher support organization that the 3B20D APS databases have been copied to the 3B21D APS and that the boot to the 3B21D is ready to be performed.	TELCO	—
40	Go immediately to NTP-013.	TELCO/INST	—

Boot to the 3B21D Attached Processor System (APS)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. This procedure must have been reviewed and understood before performing especially Steps 21 through 31. 2. The installer must have inserted the key in the key switch at the Remote Access Interface (RAI) box. 3. DLP-539, in this document, must be bookmarked in case back out is necessary. 4. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 5. The following NTPs must have been completed: • NTP-011 • NTP-012.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN BOOTING TO THE 3B21D APS WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 2. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 3. This procedure must be performed during light traffic periods. 4. 4ESS™ Switch and 3B20D APS operation must be closely monitored while performing this procedure. 5. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 6. Stability of office must be maintained throughout this procedure.		

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 3B20D APS MCRT, enter the following commands and save their ROP output to compare against the same commands on the 3B21D APS: • OP:C7NET;ROUTING! • OP:NODES!	TELCO	—
	<i>WARNING: It is critical that the following steps be executed accurately and quickly. The 4ESS™ switch will be out of service and experience an expected service outage and loss of AMA data from the time the 3B20D is halted until the 3B21D completes its boot and CNI ring initialization. Follow the steps carefully and quickly to minimize this outage!</i>		
3	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
4	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	TELCO	—
5	At 3B21D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page, CU 0 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
6	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain the EAI Page.	TELCO	—
7	At 3B21D APS MCRT, enter 22 in command mode to force processors to access the secondary disks (CU 0, MHD 1).	TELCO	—
8	At 3B21D APS MCRT, ensure SET is highlighted for Sec Disk.	TELCO	—
9	At 3B21D APS MCRT, enter 31 in command mode to clear initialization from Backup-Root .	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
10	At 3B21D APS MCRT, ensure SET is not displayed next to Backup-Root .	TELCO	—
11	At 3B21D APS MCRT, enter 33 in command mode to clear MIN-CONFIG .	TELCO	—
12	At 3B21D APS MCRT, ensure MIN-CONFIG is not highlighted and SET is not displayed beside MIN-CONFIG .	TELCO	—
13	At 3B21D APS MCRT, enter 10 in command mode to force CU 0 on-line.	TELCO	—
14	At 3B21D APS MCRT, enter y to force CU 0 on-line.	TELCO	—
15	At 3B21D APS MCRT, ensure FONL CU-0 is highlighted.	TELCO	—
16	At the Remote Access Interface (RAI) box, verify the key has been inserted into the key switch.	INST	—
17	At 1B Processor MTC terminal, enter message INH:AUDMSG:NUM 19!	TELCO	—
18	Wait for NOC approval before proceeding.	TELCO	—
19	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
20	At 3B20D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On the Common Processor Display Page, CU 0 switches to ACT	TELCO	—
21	At 3B20D APS MCRT, flush AMA data (EXC:ENVIR:UPROC,FN"/tools/3b21/flushama",ARGS"stopama"). Response: REPT FLUSHAMA - STOPPING AMA RECEIVER REPT AMA FORMATTER FLUSHED AMA RECORDS WARNING: Wait 10 seconds after receiving REPT AMA FORMATTER FLUSHED AMA RECORDS message before continuing.	TELCO	DLP-552
22	Ensure that teleprocessing/tape writing of AMA data is complete.	TELCO	—
23	At 3B20D APS MCRT, depress EA DISP (PF1) key to obtain the EAI Page.	TELCO	—
24	At 3B20D APS MCRT, enter 24 in command mode to inhibit sanity timer.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
25	At 3B20D APS MCRT, if Inhibit Sanity Timer? (y/n) is received after entering 24 , enter y in command mode to confirm sanity timer inhibit.	TELCO	—
	<i>Caution: The following Step halts the 3B20D APS. The steps after halting the 3B20D APS must be done accurately and quickly in the sequence shown to assure the boot and timely initialization of the 3B21D APS.</i>		
26	At 3B20D APS MCRT, enter 11 in command mode to force CU 1 on-line.	TELCO	—
27	At 3B20D APS MCRT, if Force CU On-Line? (y/n) is received after entering 11 , enter y to force CU 1 on-line. CU-1 FONL and PRM F500 E535 0100 0055	TELCO	—
28	Immediately after receiving the above responses at the 3B20D APS MCRT, at the Remote Access Interface box, operate the key switch to 3B21 position.	TELCO	—
29	Immediately after Remote Access Interface key switch is set to 3B21 , at 3B21D APS MCRT, enter 54 in command mode to boot the 3B21D APS.	TELCO	—
30	At 3B21D APS MCRT, enter y to confirm the boot. One or more START OF CU RECOVERY messages will be printed. Processor recover messages (PRMs) should be printing at a rate of approximately one per second for the first 30 seconds. If no errors are present, between 1 and 3 pages of PRMs will print at the ROP. Note: The following are indications of failure or success: FAILURE: Failing PRMs (PRM 0 Fx3x) or additional "START OF CU RECOVERY" messages indicate the boot attempt is failing. SUCCESS: Successful PRMs (PRM 0 Ex41) Monitor the 3B21D until system is stable. Check for passing RTR and application PRMs. Note presence of the following message at the 3B21 ROP: RCVRY CU a COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
31	If failure occurs, go to Step 32; otherwise, if system comes up on the 3B21D APS, go to Step 33.	TELCO	—
32	<i>If the boot fails, switch to the other 3B21D APS CU and boot again using the following procedure:</i> 1. Enter: 20 (to change MHD to primary) 2. Enter: 11 (to make CU 1 FONL) 3. Enter: y (to confirm the force) 4. Enter: 54 (to boot again) 5. Enter: y (to confirm the boot). 6. <i>If boot fails again, use DLP-539 to back out to the 3B20D APS as directed by next higher support organization.</i>	TELCO	—
33	At 3B21D APS MCRT, monitor the system until the boot process is complete (Post Mortem is printed at the 3B21D APS ROP). Check the ROP output for error type messages. The application processes should also be verified at this time (for example: application units in service, verify call processing, and so on).	TELCO	—
34	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	TELCO	—
35	At 3B21D APS MCRT, enter 14 in command mode to clear forces. Response: REPT CU a NO LONGER FORCED ONLINE REPT CU a OUT OF SERVICE	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
36	At 3B21D APS MCRT, enter 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	—
37	At 1B Processor MCC terminal, enter 118 in command mode to obtain the 1B Processor Status Display Page.	TELCO	—
38	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine if both APIs are out of service.	TELCO	—
39	If both APIs are out of service, at 1B Processor MTC terminal, restore one API to service.	TELCO/INST	DLP-532
	<i>WARNING: The next step must be performed to restore access to the 1Afiles</i>		
40	At 1B Processor MTC terminal, enter message CLR:APS 0;DPLXFAIL! to restore access to 1Afiles. Response: OK	TELCO	—
41	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine if an API is out of service.	TELCO	—
42	If an API is out of service, at 1B Processor MTC terminal, restore the API to service (RST:API a!). Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a COMPLETED.	TELCO	DLP-562
43	At 3B21D APS MCRT, enter message INH:RCV:ON! Response: 4ESS INH RCV COMPL RECENT CHANGE INHIBIT ON	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
44	At 3B21D APS MCRT, enter message OP:OOS:CU! and determine which CU is listed (out-of-service).	TELCO	—
45	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	TELCO	—
46	At 3B21D APS MCRT, restore out-of-service CU, determined earlier, to service (RST:CU a!). Response RST CU a COMPLETED	TELCO	DLP-540
	TESTING THE 3B21D APS CONFIGURATION AND 1AFILE AFTER BOOTING		
47	If office has TDAS, at 3B21D APS MCRT, run TDAS 1 audit (AUD:TDAS 1!).	TELCO	DLP-541
48	At 3B21D APS MCRT, enter message OP:DLNCM,DLNMAP! and verify the following: • Hdwr State and Appl State are ACT for two DLNs. • Mode is ONEWAY IN and Stream is SCAN IN for one DLN and Mode is ONEWAY OUT and Stream is SCAN OUT for other DLN.	TELCO	—
49	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
50	At 3B21D APS MCRT, dump link node status, domestic routing table and international routing table by entering the following messages: • OP:NODES! • OP:C7NET;ROUTING!	TELCO	—
51	Compare the above printouts with the appropriate printouts saved earlier, along with any expected changes.	TELCO	—
52	At 3B21D APS MCRT, run NIDATA audits.	TELCO	DLP-542
53	Verify that the following pages can be accessed by using the NORM DISP function of the 3B21D APS MCRT: • 1105 - Ring Status Summary • 1106 - Ring Group Status • 1107 - DLN/API Stream Status • 1108 - Signaling Link Summary	TELCO	—
54	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	TELCO	—
55	At 1B Processor MTC terminal, enter message AUD:NUM(43,44,45,66)! to run SAWS audits. Response: AUD: NUM xx COMPLETE 0 ERROR DETECTED (for each audit run).	TELCO	—
56	Note: Audit 19 must complete with 0 ERROR DETECTED before continuing with Step 57. At 1B Processor MTC terminal, enter message AUD:NUM 19! Response: AUD: NUM 19 COMPLETE 0 ERROR DETECTED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
57	WARNING: Audit 19 (Step 56) must complete with 0 ERROR DETECTED before allowing audit message 19 in this step. At 1B Processor MTC terminal, enter message ALW:AUDMSG:NUM 19! to allow audit message 19.	TELCO	—
58	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX.	TELCO	—
59	Note: STATFLAGS must be typed in all capital letters. At 3B21D APS MCRT, update the disk copy of the 1ASTAT file (AUD:APDRV 3,INS"STATFLAGS"!).	TELCO	DLP-543
60	At 3B21D APS MCRT, enter message DUMP:FILE:FORMAT,FN"/dev/1astat",x! to dump disk copy of 1ASTAT file: Response: DUMP FILE DATA COMPLETED — followed by several lines of address — data dumps. The format of the first line is given below: 00000000000 f0ff 0fff aabb ccxx xxxx xxxx xxxx aa = Normal 1afile: 00 — 1afile0 or 01 — 1afile1 bb = Lock Indicator: 00 — Update File is Unlocked or 01 — Update File is Locked cc = System Operating State: 01 — Operating in Normal Mode or 02 — Operating in Update Mode x = Hexadecimal dump	TELCO	—
61	In the first line of the printout above, if cc is 02 (operating in update mode) or bb is 00 (00 indicates update file is unlocked), DO NOT continue with the update. Contact your local support organization immediately.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
62	At 3B21D APS MCRT, enter message INIT:DMS MEDIUM! to initialize the Data Base Management System. Response: RING INIT DMS MEDIUM COMPL COMPLETED MEDIUM INITIALIZATION	TELCO	—
63	At 3B21D APS MCRT, enter the following commands and save their ROP output to compare against the same commands on the 3B20D APS: • OP:AMA;STREAM! • OP:AMA;CONFIG! • OP:AMA;DISK! • OP:AMA;MAPS! • OP:AMA;CONTROLFILE!	TELCO	—
64	Compare the above printouts with the appropriate printouts saved earlier, along with any expected changes.	TELCO	—
65	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
66	On the Common Processor Display Page, determine state of MHD 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
67	Perform one of the following: A. If MHD 0 is OOS, go to Step 68. B. If MHD 0 is INIT, go to Step 72. C. If MHD 0 is ACT, go to Step 74.	TELCO	—
68	At 3B21D APS MCRT, enter message OP:DMQ! and determine if MHD 0 is listed.	TELCO	—
69	If MHD 0 is not listed, perform Steps 70 and 71; otherwise, if MHD 0 is listed, wait for MHD 0 to go INIT on the Common Processor Display Page and then go to Step 72.	TELCO/INST	—
70	After entering the message in the next step for MHD 0, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	TELCO/INST	—
71	At 3B21D APS MCRT, restore MHD 0 to service (RST:MHD 0!). Note: Restore will take approximately 20 minutes to complete. Response: RST MHD 0 TASK x MESSAGE STARTED RMV MHD 0 STOPPED X'5 DGN MHD 0 COMPLETED ATP MESSAGE IN PROGRESS RST MHD 0 IN PROGRESS DGN MHD 0 ATP MESSAGE COMPLETE RST MHD 0 COMPLETED	TELCO/INST	DLP-508
72	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
73	At 3B21D APS MCRT, enter following poke commands in command mode to unblock audits: • Enter CMD: 42 • Enter CMD: Q (capital letter Q) • Enter CMD: 50 • Enter CMD: y	TELCO	—
	Note: In the next step, the file system must be running on root when the file system is verified.		
74	Run 3B21D file system audits to ensure no file system errors.	TELCO	DLP-503
75	At 3B21D APS MCRT, on the top line of the screen, compare the system name, time zone, and feature flag information for this office against like information on the 3B20D APS.	TELCO	—
76	Ensure MHD 0 is restored (per Step 71) before continuing with the next step.	TELCO	—
77	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/bootaud",ARGS"rebuild"! to run boot audits on the rebuild load. Note: The boot audit will take approximately 5 minutes to complete. Response: 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.	TELCO	—
78	At 3B21D APS MCRT, enter message INH:RCV:OFF! Response: 4ESS INH RCV COMPL RECENT CHANGE INHIBIT OFF	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
79	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 120 in command mode to obtain the DFC Status Display Page.	INST	—
80	On the DFC Status Display Page (120), determine if any MHDs are OOS.	INST	—
81	After entering the message in the next step for each OOS MHD, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	TELCO/INST	—
82	If any MHD is OOS (except MHD 9), at 3B21D APS MCRT, enter message RST:MHD a! for each OOS MHD. Note: Restore will take approximately 20 minutes to complete. Response: RST MHD a TASK x MESSAGE STARTED RMV MHD a STOPPED X'5 DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS DGN MHD a ATP MESSAGE COMPLETE RST MHD a COMPLETED	TELCO	DLP-508
83	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108)	TELCO	—
84	At 1B Processor MCC terminal, enter 801 (801 - RESTRICT RC) colored white on black). Response: ALW:RC MSG, MOC RESTRICTION RMVD.	TELCO	—
85	After successfully completing the testing and analysis of the 3B21D APS, the growth team must agree to continue the commitment to the 3B21D by connecting the SCSD and application data links that are still connected to the 3B20D APS. When this agreement has been reached, continue with this procedure.	TELCO/INST	—
86	At the Remote Access Interface (RAI) box, remove the key and give to on-site workforce to be put near the RAI box in case back out is necessary.	TELCO/INST	—
87	Go immediately to NTP-014.	TELCO/INST	—

Connect Link Cables, Scan and SD Cables, Alarm Cables, and Write Back Up Tapes - Support to Installer (INST)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> • The following NTPs must have been completed: — NTP-011 — NTP-012 — NTP-013.		
	<i>GENERAL WARNINGS FOR CABLE CONNECTIONS</i> <i>WARNINGS:</i> 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i>		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>GENERAL NOTES FOR CABLE CONNECTIONS</i> <i>Notes:</i> 1. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 2. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 3. This procedure must be performed during light traffic periods. 4. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. 5. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 6. Stability of office must be maintained throughout this procedure. 7. This procedure contains soak intervals for verifying system operation and stability during growth. During the soaking 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. 8. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	Place a check mark by each step when completed.	TELCO/INST	—
	Notes: 1. Proceed quickly and carefully through this procedure since the data links to the OS and administrative centers provide much necessary information on functionality and health of the office. 2. The links to be moved and tested include application data links to the OS systems and administration centers include (but not limited to): • AMA: Two AMA links can be equipped at the office. • NETMINDER: One NETMINDER link is equipped at the office. • SCANS: One SCANS link is equipped at the office.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 3. Also to be moved on the same night as the 3B21D are the following Alarm and SCSD Points: - Alarm Points that were buffered by the 3B20D are not unique to the 3B20D APS complex. - Scanner and Signal Distributor Points that were buffered by, and are not unique to the 3B20D APS complex.		
2	While OSS cables are being moved by the onsite workforce, Steps 32 through 73 should be performed by the installer. Do not proceed past Step 73 until all OSS cables are connected.	TELCO/INST	—
	AMASE AMA TELEPROCESSING CABLE CONNECTION(S)		
3	If office contains OC AMA teleprocessing (AMASE 0) connection, perform Step 4; otherwise, if office does not contain OC AMA teleprocessing (AMASE 0) connection, go to Step 9.	TELCO	—
4	At 3B21D APS MCRT, remove SDLC 10 from service (RMV:SDLC 10!). Response: RMV SDLC 10 COMPLETED	TELCO	DLP-544
5	At data set for AMASE 0, locate AMASE 0 cable and verify EQL.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
6	At data set for AMASE 0, disconnect associated 3B20D APS cable and connect new AMASE 0 cable.	TELCO	—
7	At 3B21D APS MCRT, restore SDLC 10 to service (RST:SDLC 10!). Response: RST SDLC 10 COMPLETED	TELCO	DLP-545
	Note: After notifying the responsible testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 9. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 8 and continue where you left off.		
8	Initiate AMASE testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: AMA Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	NETMINDER CABLE CONNECTION		
9	At 3B21D APS MCRT, remove SDLC 15 from service (RMV:SDLC 15!). Response: RMV SDLC 15 COMPLETED	TELCO	DLP-544
10	At data set for NETMINDER, locate new NETMINDER cable and verify EQL.	TELCO	—
11	At data set for NETMINDER disconnect associated 3B20D APS cable and connect new NETMINDER cable.	TELCO	—
12	At 3B21D APS MCRT, restore SDLC 15 to service (RST:SDLC 15!). Response: RST SDLC 15 COMPLETED	TELCO	DLP-545
	Note: After notifying the responsible testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 14. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 13 and continue where you left off.		
13	Initiate NETMINDER testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SCANS CABLE CONNECTION		
14	At 3B21D APS MCRT, remove SDLC 00 from service (RMV:SDLC 00!). Response: RMV SDLC 00 COMPLETED	TELCO	DLP-544
15	If SCANS is connected to the 3B20D APS, performs Steps 16 through 17; otherwise, if SCANS is connected to the 3B21D APS, go to Step 18.	TELCO	—
16	At data set for SCANS, locate new SCANS cable and verify EQL.	TELCO	—
17	At data set for SCANS, disconnect associated 3B20D APS cable and connect new SCANS cable.	TELCO	—
18	At 3B21D APS MCRT, restore SDLC 00 to service (RST:SDLC 00!). Response: RST SDLC 00 COMPLETED	TELCO	DLP-545

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: After notifying the responsible SCANS testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 20. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 19 and continue where you left off.		
19	Initiate SCANS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Next Higher Support Organization Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
20	If office contains an UNIX terminal, perform Steps 21 through 25; otherwise, if office does not contain UNIX terminal, go to Step 26.	TELCO	—
	UNIX TERMINAL CABLE CONNECTION		
21	At 3B21D APS MCRT, remove TTYC 00 from service RMV:TTYC 00!). Response: RMV TTYC 00 COMPLETED	TELCO	DLP-546
22	Locate UNIX cable and verify 3B20D APS location for cable connection.	TELCO	—
23	Disconnect associated 3B20D APS cable and connect new UNIX cable.	TELCO	—
24	At 3B21D APS MCRT, restore TTYC 00 to service (RST:TTYC 00!) . Response: RST TTYC 00 COMPLETED	TELCO	DLP-547
	Note: After notifying the responsible testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 26. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 25 and continue where you left off.		
25	Initiate testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Next Higher Support Organization Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
26	If office contains an RC/V terminal, perform Steps 27 through 31; otherwise, if office does not contain RC/V terminal, go to Step 32.	TELCO	—
	<i>RC/V TERMINAL CABLE CONNECTION</i>		
	Note: The RC/V terminal cable connection to TTYC 00 is a non-standard drawing configuration. Contact regional engineering and ensure office records are updated reflecting the RC/V terminal connection to TTYC 00.		
27	At 3B21D APS MCRT, remove TTYC xx from service (RMV:TTYC xx!) . Response: RMV TTYC xx COMPLETED where: xx = 00 (non-standard configuration) xx = 01 (standard configuration)	TELCO	DLP-546
28	Locate RC/V cable and verify 3B20D APS location for cable connection.	TELCO	—
29	Disconnect associated 3B20D APS cable and connect new RC/V cable.	TELCO	—
30	At 3B21D APS MCRT, restore TTYC xx to service (RST:TTYC xx!) . Response: RST TTYC xx COMPLETED where: xx = 00 (non-standard configuration) xx = 01 (standard configuration)	TELCO	DLP-547

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: After notifying the responsible testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 32. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 31 and continue where you left off.		
31	Initiate testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Next Higher Support Organization Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>SCAN AND SD CABLE CONNECTION</i>		
32	At CNI Ring Node cabinet 00, temporarily disconnect TTY/TEL cables at locations 69-007-300 and 69-007-313 to gain access when connecting scan and SD cables.	INST	—
33	At CNI Ring Node cabinet 00, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 0.	INST	—
34	At CNI Ring Node cabinet 00, connect new scan and SD ACO cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
35	At CNI Ring Node cabinet 00, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
36	At CNI Ring Node cabinet 00, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
37	At CNI Ring Node cabinet 00, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—
38	If office is equipped with CNI Ring Node cabinet 06, perform Steps 39 through 42; otherwise, if office is not equipped with CNI Ring Node cabinet 06, go to Step 43.	INST	—
39	At CNI Ring Node cabinet 06, temporarily disconnect TTY/TEL cables at locations 69-007-300 and 69-007-313 to gain access when connecting scan and SD cables.	INST	—
40	At CNI Ring Node cabinet 06, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
41	At CNI Ring Node cabinet 06, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
42	At CNI Ring Node cabinet 06, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
43	At CNI Ring Node cabinet 32, temporarily disconnect TTY/TEL cables at locations 69-007-300 and 69-007-313 to gain access when connecting scan and SD cables.	INST	—
44	At CNI Ring Node cabinet 32, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 1.	INST	—
45	At CNI Ring Node cabinet 32, connect new scan and SD ACO cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
46	At CNI Ring Node cabinet 32, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
47	At CNI Ring Node cabinet 32, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
48	At CNI Ring Node cabinet 32, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—
49	If office is equipped with CNI Ring Node cabinet 38, perform Steps 50 through 53; otherwise, if office is not equipped with CNI Ring Node cabinet 38, go to Step 54.	INST	—
50	At CNI Ring Node cabinet 38, temporarily disconnect TTY/TEL cables at locations 69-007-300 and 69-007-313 to gain access when connecting scan and SD cables.	INST	—
51	At CNI Ring Node cabinet 38, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
52	At CNI Ring Node cabinet 38, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
53	At CNI Ring Node cabinet 38, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
54	If office is equipped with a DFA frame, perform Steps 55 through 60; otherwise, if office is not equipped with a DFA frame, go to Step 61.	INST	—
55	At DFA 0 frame, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 0.	INST	—
56	At DFA 0 frame, connect new scan and SD ACO cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
57	At DFA 0 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
58	At DFA 0 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
59	At DFA 1 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
60	At DFA 1 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
61	If office is equipped with a DFR frame, perform Steps 62 through 67; otherwise, if office is not equipped with a DFR frame, go to Step 68.	INST	—
62	At DFR 0 frame, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 0.	INST	—
63	At DFR 0 frame, connect new scan and SD ACO cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
64	At DFR 0 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
65	At DFR 0 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
66	At DFR 1 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
67	At DFR 1 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
68	If scan and SD cable is to be connected to a 3B PD frame, perform Steps 69 and 70; otherwise, if office is not equipped with a 3B PD frame, go to Step 71.	INST	—
69	At 3B PD frame, disconnect scan and SD cable that is coming from 3B20D APS IOP.	INST	—
70	At 3B PD frame, connect new scan and SD cable that is coming from 3B21D APS IOP to the location just vacated.	INST	—
	ALARM CABLE CONNECTION		
71	Verify 3B21D APS daisy chain alarm cabling.	INST	—
72	Verify 3B21D APS alarm cabling coming from the Miscellaneous A frame.	INST	—
73	Verify 3B21D APS alarm cabling coming from the QCX, IDF, or SP frame.	INST	—
	TEST SCAN AND SD AND ALARM CABLES		
74	Notify next higher support organization that alarms will be received and that IOPs will be removed from service during the alarm testing.	TELCO	—
75	The given indications for alarm testing are results that should be received. There is a possibility that different results may be obtained. If different results are obtained from the given indications, compare the indication received during the earlier alarm testing (NTP-003) with the alarm that is different (NTP-014). If there is a difference between the two alarm tests, the installer must determine cause.	TELCO/INST	—
	Note: The following step must be run for each SCSDC (0 through 3).		
76	At 3B21D APS MCRT, diagnose one SCSDC using restore message (RST:SCSDC a!). Response: RST SCSDC a TASK x MESSAGE STARTED RMV SCSDC a COMPLETED DGN SCSDC a COMPLETED ATP MESSAGE IN PROGRESS RST SCSDC a COMPLETED DGN SCSDC a ATP MESSAGE COMPLETE	TELCO/INST	DLP-576
77	Repeat Step 76 for each SCSDC (0 through 3).	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
78	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
79	At 3B21D APS MCRT, depress ALM RLS key to clear any alarms at the MCRT.	TELCO	—
80	At fan unit in one CNI ring cabinet, depress OFF pushbutton.	TELCO	—
	Note: It will take a short time for FAN A and FAN B LEDs to light.		
81	Wait for FAN A and FAN B LEDs on fan unit to light.	TELCO/INST	—
82	When FAN A and FAN B LEDs on the fan unit light, ensure the following: • FAN A and FAN B LEDs go on. • Audible major and minor alarms are received. • At top of cabinet, ALARM RESET lamp goes on. • Grid MJ and MN go on. • End guard major and minor lamps go on. • At 3B21D APS MCRT, MAJOR and MINOR colored red. • At 3B21D APS MCRT ROP REPT RING FRAME xx POWER ALARM REPT RING FRAME xx FAN ALARM	TELCO/INST	—
83	At fan unit in CNI ring cabinet, depress ON/RESET pushbutton.	TELCO	—
84	At top of CNI ring cabinet, depress ALARM RESET pushbutton.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
85	Ensure the following: • FAN A and FAN B LEDs go off. • Audible minor alarm retires. • At top of cabinet, ALARM RESET lamp goes off. • Grid MN goes off. • End guard major and minor lamps go off. • At 3B21D APS MCRT, MAJOR and MINOR remain red. • At 3B21D APS MCRT ROP REPT RING FRAME xx POWER ALARM CLEARED REPT RING FRAME xx FAN ALARM CLEARED	TELCO/INST	—
86	At top of CNI ring cabinet, depress ALARM CUT OFF pushbutton.	TELCO	—
87	Ensure the following: • Audible major alarm retires. • Grid MJ goes off. • At 3B21D APS MCRT, MAJOR and MINOR clears.	TELCO/INST	—
88	Repeat Steps 80 through 87 for each equipped CNI ring cabinet.	TELCO/INST	—
89	At one DFA/DFR frame (0 or 1), associated with 3B21D APS, locate a blank indicator fuse position.	TELCO	—
90	Install blown fuse at located blank indicator fuse position.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	Ensure the following: • FA lamp goes on. • PWR ALM RESET lamp goes on. • Audible major alarm is received. • Grid MJ goes on. • End guard major lamp is on. • At 3B21D APS MCRT, MAJOR colored red. • At 3B21D APS MCRT ROP REPT RING DFA FRAME xx POWER ALARM	TELCO/INST	—
92	At DFA/DFR frame, remove blown fuse.	TELCO	—
93	Ensure that FA lamp goes off.	TELCO/INST	—
94	At DFA/DFR frame, depress PWR ALM RESET pushbutton.	TELCO	—
95	Ensure the following: • PWR ALM RESET lamp goes off. • Audible major alarm is still activated. • End guard major lamp goes off. • At 3B21D APS MCRT, MAJOR remains red. • At 3B21D APS MCRT ROP REPT RING DFA FRAME xx POWER ALARM CLEARED	TELCO/INST	—
96	At DFA/DFR frame, depress ALARM CUT OFF pushbutton.	TELCO	—
97	Ensure the following: • Audible major alarm retires. • Grid MJ goes off. • At 3B21D APS MCRT, MAJOR clears.	TELCO/INST	—
98	Repeat Steps 89 through 97 for the other DFA/DFR frame.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	If scan and SD cable was connected to 3B power distribution frame from the 3B21D APS, perform Steps 100 through 115; otherwise, if scan and SD cable was not connected to 3B power distribution frame, go to Step 116.	TELCO/INST	—
100	At 3B power distribution frame, associated with 3B21D APS, locate a blank indicator fuse position for one load (LOAD A or LOAD B).	TELCO	—
101	Install blown fuse at located blank indicator fuse position for one load (LOAD A or LOAD B).	TELCO	—
102	Ensure the following: • FRAME ALARM lamp goes on. • PANEL ALARM lamp goes on. • Audible major alarm is received. • Grid MJ goes on. • End guard major lamp is on. • At 3B21D APS MCRT, MAJOR colored red. • At 3B21D APS MCRT ROP REPT POWER DISTRIBUTION FRAME 0 MAJOR ALARM	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
103	At 3B power distribution frame, remove blown fuse.	TELCO	—
104	Ensure the following: • FRAME ALARM LED goes off. • PANEL ALARM LED goes off. • Audible major alarm is still activated. • Grid MJ goes off. • End guard major lamp goes off. • At 3B21D APS MCRT, MAJOR remains red.	TELCO/INST	—
105	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
106	Ensure the following: • Audible major alarm retires. • At 3B21D APS MCRT, MAJOR clears.	TELCO/INST	—
107	Repeat Steps 100 through 106 for the other load (LOAD A or LOAD B) on the 3B power distribution frame.	TELCO/INST	—
108	Locate the 3B power distribution control panel (containing the capacitor discharge tool) in the middle of the power distribution frame, associated with 3B21D APS. Locate one of the 2AMP LOAD (A or B) fuses.	TELCO	—
109	Replace 2AMP LOAD (A or B) fuse, located in previous step, with a blown fuse.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
110	Ensure the following: • FRAME ALARM lamp goes on. • PANEL ALARM lamp goes on. • Audible minor alarm is received. • Grid MN goes on. • End guard minor lamp is on. • At 3B21D APS MCRT, MINOR colored red. • At 3B21D APS MCRT ROP REPT POWER DISTRIBUTION FRAME 0 MINOR ALARM	TELCO/INST	—
111	At 3B power distribution frame control panel, replace blown fuse with original 2AMP LOAD (A or B) fuse.	TELCO	—
112	Ensure the following: • FRAME ALARM LED goes off. • PANEL ALARM LED goes off. • Audible minor alarm is still activated. • Grid MN goes off. • End guard minor lamp goes off. • At 3B21D APS MCRT, MINOR remains red.	TELCO/INST	—
113	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
114	Ensure the following: • Audible minor alarm retires. • At 3B21D APS MCRT, MINOR clears.	TELCO/INST	—
115	Repeat Steps 108 through 114 for the other 2AMP LOAD (A or B) fuse in the 3B power distribution frame control panel.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
116	At front of 3B21D APS cabinet at fan unit, disconnect fan plug.	INST	—
	Note: It will take a short time for FAN LED, at top of 3B21D APS, to light.		
117	Ensure the following: • At top of 3B21D APS, FAN LED goes on. • Audible critical alarm is received. • At back of 3B21D APS, E LED (EQL 36-008) goes on. • Grid CR goes on. • At 3B21D APS MCRT, on the Common Processor Display page (102), FAN is colored red. • At 3B21D APS MCRT ROP REPT FAN ALARM CU BASIC CABINET	TELCO/INST	—
118	At front of 3B21D APS at fan unit, connect plug disconnected earlier.	INST	—
119	At back of 3B21D APS, operate RESET switch (EQL 36-008) down and release.	TELCO	—
120	Ensure the following: • At top of 3B21D APS, FAN LED goes off. • At back of 3B21D APS, ensure E LED (EQL 36-008) goes off. • At 3B21D APS MCRT, on the Common Processor Display page (102), FAN is cleared.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
121	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
122	Ensure the following: - Audible critical alarm is retired. - Grid CR goes off. - At 3B21D APS MCRT ROP REPT FAN ALARM CLEARED CU BASIC CABINET	TELCO/INST	—
123	Obtain five UN582 circuit pack boxes and five circuit pack antistatic bags for use when removing circuit packs from 3B21D APS.	INST	—
124	At 3B21D APS MCRT, on the Common Processor Display page (102), determine if MTTY and ROP are port switched to the same MTTYC.	TELCO	—
125	At 3B21D APS MCRT, on the Common Processor Display page (102), if MTTY and ROP are not port switched to the same MTTYC, enter 402 in command mode to switch ROP.	TELCO	—
126	At 3B21D APS MCRT, on the Common Processor Display page (102), determine which IOP is NOT port switched to MTTY and ROP.	TELCO	—
127	At 3B21D APS MCRT, enter message RMV:IOP a! to remove IOP not port switched to MTTY and ROP. where a = IOP number not connected to MTTYC (0 or 1).	TELCO	—
128	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU that is associated with removed IOP (ACT or STBY)	TELCO	—
129	At 3B21D APS MCRT, if associated CU is ACT , enter 400 in command mode to make CU STBY . Response: On Common Processor Display Page, associated CU changes to STBY state. On 3B21D APS MCRT ROP, SW CU a COMPLETED. a = CU member number that is now ACT	TELCO	—
130	At 3B21D APS cabinet, on TN1820 circuit pack associated with out of service IOP (EQL 19-075 for IOP 0 or 45-075 for IOP 1), operate ST/ON/OFF switch to OFF .	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
131	At 3B21D APS cabinet, unseat 410AA circuit pack associated with IOP not port switched to MTTY and ROP (EQL 19-088 for IOP 0 or 45-088 for IOP 1).	TELCO	—
132	At 3B21D APS cabinet, on TN1820 circuit pack associated with out of service IOP (EQL 19-075 for IOP 0 or 45-075 for IOP 1), operate ST/ON/OFF switch to ST .	TELCO	—
133	Ensure the following: • Audible major and minor alarms are received. • End guard major lamp goes on. • Grid MJ goes on. • At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, ACTIVATED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—
134	At 3B21D APS cabinet, on TN1820 circuit pack associated with out of service IOP (EQL 19-075 for IOP 0 or 45-075 for IOP 1), operate ST/ON/OFF switch to OFF .	TELCO	—
135	Ensure the following: • Audible minor alarm is retired. • Audible major alarm is still activated. • End guard major lamp goes off. • At 1B Processor MTC terminal, REPT: OA nn APS MTTY a, RETIRED message is received (a = out of service IOP number - 0 or 1).	TELCO/INST	—
136	At 1B Processor MCC terminal, depress ALM RLS key.	TELCO	—
137	Ensure the following: • Audible major alarm is retired. • Grid MJ goes off.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
138	At 3B21D APS cabinet, seat 410AA circuit pack associated with out of service IOP (EQL 19-088 for IOP 0 or 45-088 for IOP 1).	TELCO	—
139	At 3B21D APS cabinet, while IOP 0 or IOP 1 is powered down, degrow and remove unequipped SDLC/TTYC (UN582) circuit packs.	TELCO	DLP-578
140	At 3B21D APS cabinet, on TN1820 circuit pack associated with out of service IOP (EQL 19-075 for IOP 0 or 45-075 for IOP 1), operate ST/ON/OFF switch to ST .	TELCO	—
141	Wait for IOP and associated subunits to restore to service. Response: DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
142	At 3B21D APS MCRT, enter message SW:PORTSW! to switch IOPs.	TELCO	—
143	Wait for 3B21D APS MCRT to repaint.	TELCO/INST	—
144	Repeat Steps 127 through 141 for other IOP.	TELCO/INST	—
145	At 3B21D APS MCRT, copy incore equipment configuration data base (ECD) to disk.	TELCO	DLP-580
146	At 3B21D APS MCRT, update the 3B21D APS broot partition.	TELCO	DLP-550
147	Run the 3B21D APS file system audits to ensure no file system errors.	TELCO	DLP-551
148	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	WRITE 3B21D APS AND 1B PROCESSOR BACK UP TAPES		
	Note: The following backup tape writes can be performed at any time, but should be completed as soon as possible for use in case system reinitialization is required.		
149	At 3B21D APS MCRT, write 3B21D APS backup tapes.	TELCO	DLP-553
150	At 3B21D APS MCRT, verify 3B21D APS backup tapes.	TELCO	DLP-556
151	At 3B21D APS MCRT, write 1B Processor backup Generic tape.	TELCO	DLP-567
152	At 3B21D APS MCRT, write 1B Processor backup ODA tape.	TELCO	DLP-568
153	At 3B21D APS MCRT, write 1B Processor backup Long Term Storage (LTS) tape.	TELCO	DLP-569
154	At 3B21D APS MCRT, write 1B Processor backup Traffic and Plant Measurement (TPM) tape.	TELCO	DLP-570
155	At 3B21D APS MCRT, write 1B Processor backup Trunk Out-of-Service List (TOSL) tape.	TELCO	DLP-571
156	At 3B21D APS MCRT, write 1B Processor backup Network Management (NWM) tape.	TELCO	DLP-572
157	At 3B21D APS MCRT, write 1B Processor backup Library tape.	TELCO	DLP-573
158	Soak the 3B21D APS for a 1-week period or as directed by next higher support organization. During this soak period, monitor the 1B Processor, CNI ring and the 3B21D APS performance for any abnormal conditions. After it has been agreed by the customer that the soak has successfully completed, continue with NTP-015.	TELCO	—

Degrow and Remove MHD 9 From 3B21D Attached Processor System (APS) - Support to Installer (INST)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. Boot to the 3B21D APS is completed and the soak has completed with no unresolved problems in the 3B21D APS, CNI ring, or APIs. 2. The Remote Access Interface (RAI) that controls the CSBs is switched to 3B21. 3. The customer and Lucent installer have agreed to proceed with the removal of the conversion switch boxes. 4. An up to date set of 3B21D backup tapes must be available in case system reinitialization is required.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES WHEN COPYING 3B20D APS DATABASES TO 3B21D APS CAUTIONS: 1. <i>???????This procedure cannot be performed during boot night. It destroys Log files!!!?????????</i> WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 2. This procedure must be performed during light traffic periods. 3. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. 4. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 5. Stability of office must be maintained throughout this procedure.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	Place a check mark by each step when completed.	TELCO	—
2	Notify next higher support organization that MHD 9 is going to be degrown and removed from the 3B21D APS cabinet.	TELCO	—
3	Verify 3B21D system status.	TELCO	DLP-500
4	At 3B21D APS MCRT, enter 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	—
5	At 3B21D APS MCRT, remove SCSI bus 1 (SBUS 1) from service (RMV:SBUS 1!). Response: RMV SBUS 1 TASK x MESSAGE STARTED RMV MHD a COMPLETED (message received for each MHD on SBUS 1) RMV MT 1 COMPLETED RMV SBUS 1 COMPLETED REPT DIOP SIMPLEX PROCESSING COMPLETED	TELCO	DLP-535
6	At the 3B21D APS, on the UN375 MHD circuit pack (EQL 62-088), operate the ROS/RST switch to ROS. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
7	At the UN375 MHD circuit pack (EQL 62-088), operate the ST/ON/OFF switch to OFF. Note: No MHD response will be received since no scan and SD cables are connected.	INST	—
8	Unlatch the UN375 MHD circuit pack (EQL 62-088), but do not remove at this time.	INST	—
9	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
10	At location 62-088 in the 3B21D APS cabinet, remove the UN375 MHD circuit pack. Insert this circuit pack into an approved anti-static bag and properly store.	INST	—
11	At locations 62-080 and 62-088 in the 3B21D APS cabinet, install the blank face plates removed earlier.	INST	—
12	At the 3B21D cabinet fuse panel, remove fuse for MHD 9 (PC12-13, 88,96 location 69-118-A) and install a dummy fuse in its place.	INST	—
13	At 3B21D APS MCRT, change the Major State for UN375 MHD 9 to UNEQIP (EXC:ENVIR:UPROC,FN"/tools/3b21/uneqmhd9.sh"). Response: REPT MHD 9 IN GROWTH STATE REPT MHD 9 IN UNEQUIPPED REPT DEGROWTH MHD 9 COMPLETED REPT UNEQMHD9.SH COMPLETED SUCCESSFULLY EXC ENVIR UPROC /tools/3b21/uneqmhd9.sh COMPLETED	TELCO/INST	DLP-519
14	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 120 in command mode to obtain the DFC Status Display Page.	TELCO	—
15	On the DFC Status Display Page (120), ensure Major State for MHD 9 is UNEQIP .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
16	At 3B21D APS MCRT, restore SBUS 1 to service (RST:SBUS 1!). Note: Restore will take approximately 30 minutes to complete. Response: RST SBUS 1 TASK x MESSAGE STARTED RMV SBUS 1 STOPPED X'5 RST SBUS 1 IN PROGRESS RST SBUS 1 COMPLETED DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS RST MHD a IN PROGRESS RST MHD a COMPLETED (above messages received for each MHD on SBUS 1) REPT DIOP DUPLEX PROCESSING COMPLETED DGN MT 1 COMPLETED ATP MESSAGE IN PROGRESS DGN SBUS 1 ATP MESSAGE COMPLETE RST MT 1 IN PROGRESS RST MT 1 COMPLETED	TELCO/INST	DLP-536
	Note: MHD 9 will be displayed on the DFC Status Display Page (120) in the UNEQ state until an update is performed.		
17	At 3B20D APS MCRT, enter 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	—
18	Notify next higher support organization that MHD 9 has been degrown and removed from the 3B21D APS cabinet.	TELCO	—
19	Ship the UN375 MHD circuit pack to the Installation Material Distribution and Repair Center (IMDARC).	INST	—
20	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 0, RPCN00 0, DLN00 2 (LN00 2), and
DLN00 7 (LN00 7) From 3B21D APS CU 0
Side of Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B21D backup tapes must be available in case system reinitialization is required. 2. The following NTP is completed: • NTP-015.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES FOR API 0 TO CONVERSION SWITCH BOX DISCONNECTION WARNINGS: <i>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.</i> <i>No other growth or maintenance activity is allowed during this procedure.</i> <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: - It will take approximately 4 hours to complete this procedure in its entirety. - It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. - Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. - This procedure must be performed during light traffic periods. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. - Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). - Stability of office must be maintained throughout this procedure. - This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B21D APS must be running on 4AP16 or later generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B21 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Verify 3B21D APS system status.	TELCO	DLP-500
5	Notify next higher support organization that API 0 disconnection from the conversion switch box is going to be performed.	TELCO	—
6	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	VERIFY STATUS OF APIs		
7	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
8	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	TELCO	—
9	At 3B21D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page, CU 0 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
10	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
11	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
12	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
13	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
15	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
16	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
17	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
18	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 0 AND CU 0 FOR DSCH DISCONNECTION FROM CONVERSION SWITCH BOX		
20	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
21	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
22	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
23	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
24	At 3B21D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY state On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
25	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
26	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
27	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
28	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF. Response: OFF LED lights On 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—
29	At API 0 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OS LED lights OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 0 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
30	At API 0 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 0 RMV: API 0 COMPLETED.	TELCO	—
	<i>DISCONNECTING API 0 DSCH FROM CONVERSION SWITCH BOX</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
31	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 API 0.	INST	—
32	Route the CU 0 API 0 DSCH cable down to the 3B21D APS.	INST	—
33	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with CU 0 API 0.	INST	—
34	At 3B21D APS backplane, carefully connect the DSCH cable that was routed in the previous step to the location just vacated.	INST	—
35	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
36	At API 0 power switch, depress ON pushbutton (Do not restore API 0 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 0.	TELCO/INST	DLP-510
37	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time). Response: OFF LED goes off On 3B21D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED.	TELCO/INST	DLP-513
38	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 0 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559
39	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
40	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: OS LED goes off RST: API 0 COMPLETED.	TELCO/INST	DLP-526
41	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
42	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
43	At 3B21D APS MCRT, diagnose CU 0, specifying channel 16 and phase 10 (DGN:CU 0,CH 16:PH 10!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 16 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 16 PH 10 ATP MESSAGE IN PROGRESS DGN CU 0 CH 16 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 16 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
44	At 3B21D APS MCRT, diagnose CU 0, specifying channel 16 and phase 20 (DGN:CU 0,CH 16:PH 20!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 16 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 16 PH 20 ATP MESSAGE IN PROGRESS DGN CU 0 CH 16 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 16 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-558
45	At API 0 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
46	At 1B Processor MTC terminal, diagnose API 0. Expect ATP results (RST:API 0!) Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 COMPLETED.	TELCO	DLP-562
47	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
48	Determine if enough time remains in this shift to complete RPCN00 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 74; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting RPCN00 0 from the conversion switch box.		
50	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST. Note: Restore will take approximately 30 minutes to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0 WITH CU 0 ACTIVE		
51	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
52	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 ACT. Response: On Common Processor Display Page (102), CU 0 changes to ACT state On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
53	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
54	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
55	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
56	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
57	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
58	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!) Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
59	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
60	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
61	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
62	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
63	Soak CU 0 and API 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
64	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
65	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
66	Soak CU 0 and API 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
68	Verify 3B21D APS system status.	TELCO	DLP-500
69	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
70	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
71	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
72	At 3B21D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY On 3B21D APS MCRT ROP, SW CU 1 COMPLETED	TELCO	—
73	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS . Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO RPCN00 0		
74	Notify next higher support organization that RPCN00 0 is going to be disconnected from the conversion switch box.	TELCO	—
75	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
76	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 UNAVAILABLE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B21D APS AND CU 0 FOR RPCN00 0 DISCONNECTION		
77	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
78	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
79	At 3B21D APS MCRT, Ensure Major State for RPCN32 0 is ACT .	TELCO	—
80	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
81	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B21D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 0 (DGN:RPCN00 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN00 0 DISCONNECTION		
83	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN00 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN00 0 will be isolated also.		
84	At 3B21D APS MCRT, isolate RPCN00 0 (CFR:RING,RPCN00 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN00 0 COMPL	TELCO	DLP-528
85	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
86	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
87	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN00 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B21D APS CU 0 power switch (EQL 28-060), ensure OOS LED is on.	TELCO	—
89	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0	TELCO	—
	<i>RPCN00 0 TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
90	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 RPCN00 0.	INST	—
91	Route the CU 0 RPCN00 0 DSCH cable down to the 3B21D APS.	INST	—
92	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
93	At 3B21D APS CU 0 backplane, carefully connect the CU 0 RPCN00 0 DSCH that was routed in the previous step to the location just vacated.	INST	—
94	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time). Response: OFF LED goes off At 3B21D APS MCRT ROP: REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	DLP-513
96	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables. Carefully check all DSCH cable connections for accuracy.		
97	At 3B21D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 0 (DGN:RPCN00 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564
98	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
100	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
101	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
102	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to “ i ” (i=isolated). If any link node is set to i , contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
103	Soak RPCN00 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
104	Determine if enough time remains in this shift to complete DLN00 2 (LN00 2) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
105	If enough time DOES remain, go to Step 142; otherwise, if enough time DOES NOT remain, perform Steps 106 through 132 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN00 2 (LN00 2) from the conversion switch box.		
106	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
107	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
108	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0 AND/OR RPCN00 0 WITH CU 0 ACTIVE		
109	At 3B21D APS MCRT, remove RPCN00 0 from service before switching CU 0 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
110	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
112	If API 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 0 was disconnected in a previous shift, go to Step 122.	TELCO/INST	—
113	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
114	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
115	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
116	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY. Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
117	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
118	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
119	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
120	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
121	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
122	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
123	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
124	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
125	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
126	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
127	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	Soak CU 0, API 0 and RPCN00 0 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0 and RPCN00 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
129	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
130	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
131	Notify next higher support organization that API 0 and RPCN00 0 disconnection from the conversion switch box is complete.	TELCO	—
132	Soak CU 0, API 0 and RPCN00 0 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, and RPCN00 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
133	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
134	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
135	At 3B21D APS MCRT, enter 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	—
136	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
137	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
138	At 3B21D APS MCRT, if CU 0 is ACT, enter 400 in command mode to make CU 0 STBY. Response: On Common Processor Display Page (102), CU 0 changes to STBY. On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
139	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
140	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO DLN00 2 (LN00 2)		
142	Notify next higher support organization that DLN00 2 (LN00 2) disconnection from the conversion switch box is going to be performed.	TELCO	—
143	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
144	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
145	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT, enter one of the following messages to make DLN00 2 (LN00 2) STBY: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
146	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
147	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 0 (DGN:LN00 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 2 (LN00 2) DISCONNECTION		
148	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 2 (LN00 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 2 (LN00 2) will be isolated also.		
149	At 3B21D APS MCRT, isolate DLN00 2 (LN00 2) (CFR:RING,LN00 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 2 COMPL	TELCO	DLP-531
150	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
151	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 2 (LN00 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
152	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 2 (LN00 2) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
153	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN00 2 (LN00 2).	INST	—
154	Route the CU 0 DLN00 2 (LN00 2) DSCH cable down to the 3B21D APS.	INST	—
155	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 2 (LN00 2).	INST	—
156	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN00 2 (LN00 2) DSCH that was routed in the previous step to the location just vacated.	INST	—
157	Verify cable label is correct; then properly tie off this cable.	INST	—
158	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
159	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
160	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 0 (DGN:LN00 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
161	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
162	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 2 (LN00 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
163	At 3B21D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
164	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
165	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 2 (LN00 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
166	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
167	Soak DLN00 2 (LN00 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
168	Determine if enough time remains in this shift to complete DLN00 7 (LN00 7) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
169	If enough time DOES remain, go to Step 215; otherwise, if enough time DOES NOT remain, perform Steps 170 through 205 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN00 7 (LN00 7) from the conversion switch box.		
170	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
171	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 0 COMPLETED	TELCO/INST	DLP-514
173	If RPCN00 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN00 0 from service before switching CU 0 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 0, RPCN00 0, AND/OR DLN00 2 (LN00 2) WITH CU 0 ACTIVE		
174	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
176	If API 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 0 was disconnected in a previous shift, go to Step 186.	TELCO/INST	—
177	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
178	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
179	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
180	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY. Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
181	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
182	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
183	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
184	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
185	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
186	If RPCN00 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was disconnected in a previous shift, go to Step 192.	TELCO/INST	—
187	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
188	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
189	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
190	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
191	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
192	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
193	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
194	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
195	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
196	At 3B21D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
197	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
198	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
199	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY , enter one of the following messages to make DLN00 2 (LN00 2) ACT : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT . On 3B21D APS MCRT ROP, SW DLN COMPLETE .	TELCO	—
200	At 3B21D APS MCRT, enter 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	—
201	Soak CU 0, API 0, RPCN00 0, and DLN00 2 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
202	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
204	Notify next higher support organization that RPCN00 0 and DLN00 2 disconnection from the conversion switch box is complete.	TELCO	—
205	Soak CU 0, API 0, RPCN00 0, and DLN00 2 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
207	Verify 3B21D APS system status.	TELCO	DLP-500
208	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
209	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
210	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
211	At 3B21D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY . On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
212	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
213	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
214	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS . Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 0 DSCH DISCONNECTION FROM DLN00 7 (LN00 7)</i>		
215	Notify next higher support organization that DLN00 7 (LN00 7) disconnection from the conversion switch box is going to be performed.	TELCO	—
216	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
217	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
218	At 3B21D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT , enter one of the following messages to make DLN00 7 (LN00 7) STBY : SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
219	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
220	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 0 (DGN:LN00 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 7 (LN00 7) DISCONNECTION		
221	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 7 (LN00 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 7 (LN00 7) will be isolated also.		
222	At 3B21D APS MCRT, isolate DLN00 7 (LN00 7) (CFR:RING,LN00 7;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 7 COMPL	TELCO	DLP-531
223	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
224	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 7 (LN00 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
225	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 7 (LN00 7) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
226	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN00 7 (LN00 7).	INST	—
227	Route the CU 0 DLN00 7 (LN00 7) DSCH cable down to the 3B21D APS.	INST	—
228	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 7 (LN00 7).	INST	—
229	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN00 7 (LN00 7) DSCH that was routed in the previous step to the location just vacated.	INST	—
230	Verify cable label is correct; then properly tie off this cable.	INST	—
231	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
232	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-525
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
233	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 0 (DGN:LN00 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
234	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
235	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
236	At 3B21D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 7 TASK x MESSAGE STARTED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
237	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
238	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 7 (LN00 7) is STBY .	TELCO/INST	—
239	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
240	Soak DLN00 7 (LN00 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
241	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
242	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
243	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST . Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0, RPCN00 0, DLN00 2 (LN00 2), AND/OR DLN00 7 (LN00 7) WITH CU 0 ACTIVE		
244	If RPCN00 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN00 0 from service before switching CU 0 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
245	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
246	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
247	If API 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 0 was disconnected in a previous shift, go to Step 257.	TELCO/INST	—
248	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
249	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
250	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
251	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
252	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
253	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
254	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
255	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
256	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	If RPCN00 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was disconnected in a previous shift, go to Step 263.	TELCO/INST	—
258	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
259	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
260	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
261	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
262	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
263	If DLN00 2 (LN00 2) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN00 2 (LN00 2) was disconnected in a previous shift, go to Step 272.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
264	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
265	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
266	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
267	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
268	At 3B21D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
269	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
270	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
271	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
272	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
273	At 3B21D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT, enter one of the following messages to make DLN00 7 (LN00 7) STBY: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
275	At 3B21D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 7 TASK x MESSAGE STARTED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
276	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
277	At 3B21D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is STBY, enter one of the following messages to make DLN00 7 (LN00 7) ACT: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
278	At 3B21D APS MCRT, enter 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	—
279	Soak CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
280	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
282	Notify next higher support organization that API 0, RPCN00 0, DLN00 2, and DLN00 7 disconnection from the conversion switch box is complete.	TELCO	—
283	If SCC 0 and SCC 1 cables from the 3B21D APS need to be moved to their permanent (former 3B20D) locations on the data connection, perform Steps 284 through 293. If SCC 0 and SCC 1 cables from the 3B21D APS are now in their permanent locations on the data connection, go to Step 294.	TELCO	—
284	Notify the next higher support organization that SCC 0 and SCC 1 cables from the 3B21D APS are going to be moved to their permanent (former 3B20D) locations on the data connection.	TELCO	—
285	At 3B21D APS MCRT, remove SCC 0 from service (RMV:SCC 0!). Response: RMV SCC 0 TASK x MESSAGE STARTED RMV SCC 0 COMPLETED	TELCO/INST	DLP-506
286	At the data connection used for SCC 0 and SCC 1, disconnect 3B20D APS SCC 0 and SCC 1 cables.	TELCO	—
287	At the data connection used for SCC 0 and SCC 1, disconnect 3B21D APS SCC 0 cable and connect to location where 3B20D APS SCC 0 cable was connected.	TELCO	—
288	At 3B21D APS MCRT, restore SCC 0 to service (RST:SCC 0!). Response: RST SCC 0 TASK x MESSAGE STARTED RST SCC 0 STOPPED X'5 RST SCC 0 COMPLETED	TELCO/INST	DLP-507
289	Request next higher support organization to verify that SCC 0 channel is working properly before continuing.	TELCO	—
290	At 3B21D APS MCRT, remove SCC 1 from service (RMV:SCC 1!). Response: RMV SCC 1 TASK x MESSAGE STARTED RMV SCC 1 COMPLETED	TELCO/INST	DLP-506
291	At the data connection used for SCC 0 and SCC 1, disconnect 3B21D APS SCC 1 cable and connect to location where 3B20D APS SCC 1 cable was connected.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
292	At 3B21D APS MCRT, restore SCC 1 to service (RST:SCC 1!). Response: RST SCC 1 TASK x MESSAGE STARTED RST SCC 1 STOPPED X'5 RST SCC 1 COMPLETED	TELCO/INST	DLP-507
293	Request next higher support organization to verify that SCC 1 channel is working properly before continuing.	TELCO	—
294	Soak CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
295	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 1, RPCN32 0, DLN32 2 (LN32 2), and
DLN32 7 (LN32 7) From 3B21D APS CU 0
Side of Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B21D backup tapes must be available in case system reinitialization is required. 2. The following NTP is completed: • NTP-016 (CU 0 Side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR API 1 TO CONVERSION SWITCH BOX DISCONNECTION WARNINGS: <i>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.</i> <i>2. No other growth or maintenance activity is allowed during this procedure.</i> <i>3. No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B21D APS must be running on 4AP16 or later generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B21 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Verify 3B21D APS system status.	TELCO	DLP-500
5	Notify next higher support organization that API 1 disconnection from the conversion switch box is going to be performed.	TELCO	—
6	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
7	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
8	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	TELCO	—
9	At 3B21D APS MCRT, if CU 0 is STBY , enter 400 in command mode to make CU 0 ACT . Response: On Common Processor Display Page, CU 0 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
10	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
11	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
12	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
13	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
15	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
16	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
17	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
18	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 1 AND CU 0 FOR DSCH DISCONNECTION FROM CONVERSION SWITCH BOX		
20	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
21	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
22	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
23	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
24	At 3B21D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY state On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
25	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
26	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
27	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
28	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF. Response: OFF LED lights On 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—
29	At API 1 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OS LED lights OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 1 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
30	At API 1 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 1 RMV: API 1 COMPLETED.	TELCO	—
	<i>DISCONNECTING API 1 DSCH FROM CONVERSION SWITCH BOX</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
31	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 API 1.	INST	—
32	Route the CU 0 API 1 DSCH cable down to the 3B21D APS.	INST	—
33	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with CU 0 API 1.	INST	—
34	At 3B21D APS backplane, carefully connect the DSCH cable that was routed in the previous step to the location just vacated.	INST	—
35	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
36	At API 1 power switch, depress ON pushbutton (Do not restore API 1 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 1.	TELCO/INST	DLP-510
37	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time). Response: OFF LED goes off On 3B21D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED.	TELCO/INST	DLP-513
38	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 1 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559
39	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
40	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: OS LED goes off RST: API 1 COMPLETED.	TELCO/INST	DLP-526
41	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
42	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
43	At 3B21D APS MCRT, diagnose CU 0, specifying channel 18 and phase 10 (DGN:CU 0,CH 18:PH 10!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 18 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 18 PH 10 ATP MESSAGE IN PROGRESS DGN CU 0 CH 18 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 18 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
44	At 3B21D APS MCRT, diagnose CU 0, specifying channel 18 and phase 20 (DGN:CU 0,CH 18:PH 20!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 0 CH 18 TASK x MESSAGE STARTED RMV CU 0 COMPLETED DGN CU 0 CH 18 PH 20 ATP MESSAGE IN PROGRESS DGN CU 0 CH 18 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 0 CH 18 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-558
45	At API 1 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
46	At 1B Processor MTC terminal, diagnose API 1. Expect ATP results (RST:API 1!) Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 COMPLETED.	TELCO	DLP-562
47	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
48	Determine if enough time remains in this shift to complete RPCN32 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 74; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting RPCN32 0 from the conversion switch box.		
50	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST. Note: Restore will take approximately 30 minutes to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1 WITH CU 0 ACTIVE		
51	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
52	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 ACT. Response: On Common Processor Display Page (102), CU 0 changes to ACT state On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
53	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
54	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
55	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
56	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
57	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
58	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!) Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
59	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
60	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
61	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
62	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
63	Soak CU 0 and API 1 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
64	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
65	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
66	Soak CU 0 and API 1 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
68	Verify 3B21D APS system status.	TELCO	DLP-500
69	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
70	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
71	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
72	At 3B21D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY On 3B21D APS MCRT ROP, SW CU 1 COMPLETED	TELCO	—
73	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS . Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO RPCN32 0		
74	Notify next higher support organization that RPCN32 0 is going to be disconnected from the conversion switch box.	TELCO	—
75	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
76	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 UNAVAILABLE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B21D APS AND CU 0 FOR RPCN32 0 DISCONNECTION		
77	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
78	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
79	At 3B21D APS MCRT, Ensure Major State for RPCN00 0 is ACT .	TELCO	—
80	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
81	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B21D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 0 (DGN:RPCN32 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN32 0 DISCONNECTION		
83	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN32 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN32 0 will be isolated also.		
84	At 3B21D APS MCRT, isolate RPCN32 0 (CFR:RING,RPCN32 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN32 0 COMPL	TELCO	DLP-528
85	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
86	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
87	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN32 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B21D APS CU 0 power switch (EQL 28-060), ensure OOS LED is on.	TELCO	—
89	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0	TELCO	—
	<i>RPCN32 0 TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
90	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 RPCN32 0.	INST	—
91	Route the CU 0 RPCN32 0 DSCH cable down to the 3B21D APS.	INST	—
92	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
93	At 3B21D APS CU 0 backplane, carefully connect the CU 0 RPCN32 0 DSCH that was routed in the previous step to the location just vacated.	INST	—
94	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time). Response: OFF LED goes off At 3B21D APS MCRT ROP: REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	DLP-513
96	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables. Carefully check all DSCH cable connections for accuracy.		
97	At 3B21D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 0 (DGN:RPCN32 0:PH 14,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564
98	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
100	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
101	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
102	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to “ i ” (i=isolated). If any link node is set to i , contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
103	Soak RPCN32 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
104	Determine if enough time remains in this shift to complete DLN32 2 (LN32 2) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
105	If enough time DOES remain, go to Step 142; otherwise, if enough time DOES NOT remain, perform Steps 106 through 132 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN32 2 (LN32 2) from the conversion switch box.		
106	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
107	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
108	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1 AND/OR RPCN32 0 WITH CU 0 ACTIVE		
109	At 3B21D APS MCRT, remove RPCN32 0 from service before switching CU 0 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
110	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
112	If API 1 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 1 was disconnected in a previous shift, go to Step 122.	TELCO/INST	—
113	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
114	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
115	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
116	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
117	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
118	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
119	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
120	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
121	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
122	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
123	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
124	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
125	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
126	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
127	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	Soak CU 0, API 1 and RPCN32 0 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1 and RPCN32 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
129	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
130	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
131	Notify next higher support organization that API 1 and RPCN32 0 disconnection from the conversion switch box is complete.	TELCO	—
132	Soak CU 0, API 1 and RPCN32 0 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, and RPCN32 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
133	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
134	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
135	At 3B21D APS MCRT, enter 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	—
136	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
137	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
138	At 3B21D APS MCRT, if CU 0 is ACT, enter 400 in command mode to make CU 0 STBY. Response: On Common Processor Display Page (102), CU 0 changes to STBY. On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
139	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
140	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO DLN32 2 (LN32 2)		
142	Notify next higher support organization that DLN32 2 (LN32 2) disconnection from the conversion switch box is going to be performed.	TELCO	—
143	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
144	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
145	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT, enter one of the following messages to make DLN32 2 (LN32 2) STBY: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
146	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
147	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 0 (DGN:LN32 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 2 (LN32 2) DISCONNECTION		
148	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 2 (LN32 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 2 (LN32 2) will be isolated also.		
149	At 3B21D APS MCRT, isolate DLN32 2 (LN32 2) (CFR:RING,LN32 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 2 COMPL	TELCO	DLP-531
150	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
151	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 2 (LN32 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
152	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 2 (LN32 2) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
153	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN32 2 (LN32 2).	INST	—
154	Route the CU 0 DLN32 2 (LN32 2) DSCH cable down to the 3B21D APS.	INST	—
155	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 2 (LN32 2).	INST	—
156	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN32 2 (LN32 2) DSCH that was routed in the previous step to the location just vacated.	INST	—
157	Verify cable label is correct; then properly tie off this cable.	INST	—
158	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
159	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
160	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 0 (DGN:LN32 2:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
161	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
162	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 2 (LN32 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
163	At 3B21D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
164	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
165	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 2 (LN32 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
166	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
167	Soak DLN32 2 (LN32 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
168	Determine if enough time remains in this shift to complete DLN32 7 (LN32 7) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
169	If enough time DOES remain, go to Step 215; otherwise, if enough time DOES NOT remain, perform Steps 170 through 205 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN32 7 (LN32 7) from the conversion switch box.		
170	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
171	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 0 COMPLETED	TELCO/INST	DLP-514
173	If RPCN32 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN32 0 from service before switching CU 0 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 1, RPCN32 0, AND/OR DLN32 2 (LN32 2) WITH CU 0 ACTIVE		
174	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
176	If API 1 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 1 was disconnected in a previous shift, go to Step 186.	TELCO/INST	—
177	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
178	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
179	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
180	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
181	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
182	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
183	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
184	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
185	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
186	If RPCN32 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was disconnected in a previous shift, go to Step 192.	TELCO/INST	—
187	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
188	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
189	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
190	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
191	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
192	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
193	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
194	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
195	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
196	At 3B21D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
197	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
198	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
199	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY, enter one of the following messages to make DLN32 2 (LN32 2) ACT: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
200	At 3B21D APS MCRT, enter 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	—
201	Soak CU 0, API 1, RPCN32 0, and DLN32 2 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
202	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
204	Notify next higher support organization that RPCN32 0 and DLN32 2 disconnection from the conversion switch box is complete.	TELCO	—
205	Soak CU 0, API 1, RPCN32 0, and DLN32 2 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
207	Verify 3B21D APS system status.	TELCO	DLP-500
208	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
209	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
210	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
211	At 3B21D APS MCRT, if CU 0 is ACT , enter 400 in command mode to make CU 0 STBY . Response: On Common Processor Display Page (102), CU 0 changes to STBY . On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
212	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
213	On EAI page, enter 12 in command mode to force CU 1 on-line. Response: On EAI page, FOFL is highlighted for CU 0 FONL is highlighted for CU 1 On 3B21D APS MCRT ROP, REPT CU 1 FORCED ONLINE REPT CU 0 REMOVED REPT CU 0 UNAVAILABLE	TELCO	—
214	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to ROS . Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 0 DSCH DISCONNECTION FROM DLN32 7 (LN32 7)</i>		
215	Notify next higher support organization that DLN32 7 (LN32 7) disconnection from the conversion switch box is going to be performed.	TELCO	—
216	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
217	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
218	At 3B21D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT , enter one of the following messages to make DLN32 7 (LN32 7) STBY : SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
219	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
220	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 0 (DGN:LN32 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 7 (LN32 7) DISCONNECTION		
221	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 7 (LN32 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 7 (LN32 7) will be isolated also.		
222	At 3B21D APS MCRT, isolate DLN32 7 (LN32 7) (CFR:RING,LN32 7;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 7 COMPL	TELCO	DLP-531
223	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
224	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 7 (LN32 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
225	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 7 (LN32 7) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
226	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN32 7 (LN32 7).	INST	—
227	Route the CU 0 DLN32 7 (LN32 7) DSCH cable down to the 3B21D APS.	INST	—
228	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 7 (LN32 7).	INST	—
229	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN32 7 (LN32 7) DSCH that was routed in the previous step to the location just vacated.	INST	—
230	Verify cable label is correct; then properly tie off this cable.	INST	—
231	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to ST (Do not restore CU 0 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 0 START OF CU-0 RECOVERY RMV CU 0 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 0 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
232	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-525
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
233	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 0 (DGN:LN32 7:PH 34,CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
234	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
235	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
236	At 3B21D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
237	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
238	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 7 (LN32 7) is STBY .	TELCO/INST	—
239	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
240	Soak DLN32 7 (LN32 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
241	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
242	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 0 and CU 1, respectively On 3B21D APS MCRT ROP, REPT CU 1 NO LONGER FORCED ONLINE REPT CU 0 OUT OF SERVICE.	TELCO/INST	—
243	At 3B21D APS CU 0 power switch (EQL 28-060), operate ROS/RST switch to RST . Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 0 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1, RPCN32 0, DLN32 2 (LN32 2), AND/OR DLN32 7 (LN32 7) WITH CU 0 ACTIVE		
244	If RPCN32 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN32 0 from service before switching CU 0 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
245	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
246	At 3B21D APS MCRT, enter 400 in command mode to make CU 0 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
247	If API 1 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 1 was disconnected in a previous shift, go to Step 257.	TELCO/INST	—
248	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
249	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
250	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
251	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
252	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
253	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
254	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
255	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
256	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	If RPCN32 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was disconnected in a previous shift, go to Step 263.	TELCO/INST	—
258	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
259	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
260	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
261	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
262	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
263	If DLN32 2 (LN32 2) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN32 2 (LN32 2) was disconnected in a previous shift, go to Step 272.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
264	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
265	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
266	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
267	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
268	At 3B21D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
269	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
270	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
271	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY, enter one of the following messages to make DLN32 2 (LN32 2) ACT: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
272	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
273	At 3B21D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT, enter one of the following messages to make DLN32 7 (LN32 7) STBY: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
275	At 3B21D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
276	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
277	At 3B21D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is STBY, enter one of the following messages to make DLN32 7 (LN32 7) ACT: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
278	At 3B21D APS MCRT, enter 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	—
279	Soak CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
280	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
282	Notify next higher support organization that API 1, RPCN32 0, DLN32 2, and DLN32 7 disconnection from the conversion switch box is complete.	TELCO	—
283	Soak CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 0, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
284	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 0, RPCN00 0, DLN00 2 (LN00 2), and
DLN00 7 (LN00 7) From 3B21D APS CU 1
Side of Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B21D backup tapes must be available in case system reinitialization is required. 2. The following NTP is completed: • NTP-016 (CU 0 Side) • NTP-017 (CU 0 Side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR API 0 TO CONVERSION SWITCH BOX DISCONNECTION WARNINGS: <i>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.</i> <i>2. No other growth or maintenance activity is allowed during this procedure.</i> <i>3. No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B21D APS must be running on 4AP16 or later generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B21 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Verify 3B21D APS system status.	TELCO	DLP-500
5	Notify next higher support organization that API 0 disconnection from the conversion switch box is going to be performed.	TELCO	—
6	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
7	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
8	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 1 (ACT or STBY)	TELCO	—
9	At 3B21D APS MCRT, if CU 1 is STBY , enter 400 in command mode to make CU 1 ACT . Response: On Common Processor Display Page, CU 1 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
10	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
11	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
12	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
13	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
15	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
16	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
17	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
18	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 0 AND CU 1 FOR DSCH DISCONNECTION FROM CONVERSION SWITCH BOX		
20	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
21	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
22	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
23	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
24	At 3B21D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY state On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
25	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
26	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
27	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
28	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF. Response: OFF LED lights On 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—
29	At API 0 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OS LED lights OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 0 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
30	At API 0 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 0 RMV: API 0 COMPLETED.	TELCO	—
	<i>DISCONNECTING API 0 DSCH FROM CONVERSION SWITCH BOX</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
31	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 API 0.	INST	—
32	Route the CU 1 API 0 DSCH cable down to the 3B21D APS.	INST	—
33	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with CU 1 API 0.	INST	—
34	At 3B21D APS backplane, carefully connect the DSCH cable that was routed in the previous step to the location just vacated.	INST	—
35	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
36	At API 0 power switch, depress ON pushbutton (Do not restore API 0 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 0.	TELCO/INST	DLP-510
37	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time). Response: OFF LED goes off On 3B21D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED.	TELCO/INST	DLP-513
38	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 0 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559
39	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
40	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: OS LED goes off RST: API 0 COMPLETED.	TELCO/INST	DLP-526
41	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
42	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
43	At 3B21D APS MCRT, diagnose CU 1, specifying channel 16 and phase 10 (DGN:CU 1,CH 16:PH 10!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 16 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 16 PH 10 ATP MESSAGE IN PROGRESS DGN CU 1 CH 16 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 16 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
44	At 3B21D APS MCRT, diagnose CU 1, specifying channel 16 and phase 20 (DGN:CU 1,CH 16:PH 20!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 16 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 16 PH 20 ATP MESSAGE IN PROGRESS DGN CU 1 CH 16 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 16 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-558
45	At API 0 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
46	At 1B Processor MTC terminal, diagnose API 0. Expect ATP results (RST:API 0!) Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 COMPLETED.	TELCO	DLP-562
47	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
48	Determine if enough time remains in this shift to complete RPCN00 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 74; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting RPCN00 0 from the conversion switch box.		
50	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST. Note: Restore will take approximately 30 minutes to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0 WITH CU 1 ACTIVE		
51	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
52	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 ACT. Response: On Common Processor Display Page (102), CU 1 changes to ACT state On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
53	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
54	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
55	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
56	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
57	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
58	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!) Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
59	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
60	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 0 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
61	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
62	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
63	Soak CU 1 and API 0 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
64	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
65	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
66	Soak CU 1 and API 0 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
68	Verify 3B21D APS system status.	TELCO	DLP-500
69	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
70	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
71	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
72	At 3B21D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY On 3B21D APS MCRT ROP, SW CU 0 COMPLETED	TELCO	—
73	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS . Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO RPCN00 0		
74	Notify next higher support organization that RPCN00 0 is going to be disconnected from the conversion switch box.	TELCO	—
75	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
76	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 UNAVAILABLE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B21D APS AND CU 1 FOR RPCN00 0 DISCONNECTION		
77	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
78	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
79	At 3B21D APS MCRT, Ensure Major State for RPCN32 0 is ACT .	TELCO	—
80	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
81	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B21D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 1 (DGN:RPCN00 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN00 0 DISCONNECTION		
83	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN00 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN00 0 will be isolated also.		
84	At 3B21D APS MCRT, isolate RPCN00 0 (CFR:RING,RPCN00 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN00 0 COMPL	TELCO	DLP-528
85	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
86	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
87	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN00 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B21D APS CU 1 power switch (EQL 53-060), ensure OOS LED is on.	TELCO	—
89	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1	TELCO	—
	<i>RPCN00 0 TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
90	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 RPCN00 0.	INST	—
91	Route the CU 1 RPCN00 0 DSCH cable down to the 3B21D APS.	INST	—
92	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
93	At 3B21D APS CU 1 backplane, carefully connect the CU 1 RPCN00 0 DSCH that was routed in the previous step to the location just vacated.	INST	—
94	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time). Response: OFF LED goes off At 3B21D APS MCRT ROP: REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	DLP-513
96	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables. Carefully check all DSCH cable connections for accuracy.		
97	At 3B21D APS MCRT, diagnose RPCN00 0, specifying phase 14 and CU 1 (DGN:RPCN00 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 DGN RPCN00 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564
98	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
100	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
101	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
102	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to “ i ” (i=isolated). If any link node is set to i , contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
103	Soak RPCN00 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
104	Determine if enough time remains in this shift to complete DLN00 2 (LN00 2) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
105	If enough time DOES remain, go to Step 142; otherwise, if enough time DOES NOT remain, perform Steps 106 through 132 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN00 2 (LN00 2) from the conversion switch box.		
106	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
107	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
108	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0 AND/OR RPCN00 0 WITH CU 1 ACTIVE		
109	At 3B21D APS MCRT, remove RPCN00 0 from service before switching CU 1 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
110	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
112	If API 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 0 was disconnected in a previous shift, go to Step 122.	TELCO/INST	—
113	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
114	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
115	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
116	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
117	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
118	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
119	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
120	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
121	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
122	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
123	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
124	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
125	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
126	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
127	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	Soak CU 1, API 0 and RPCN00 0 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0 and RPCN00 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
129	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
130	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
131	Notify next higher support organization that API 0 and RPCN00 0 disconnection from the conversion switch box is complete.	TELCO	—
132	Soak CU 1, API 0 and RPCN00 0 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, and RPCN00 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
133	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
134	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
135	At 3B21D APS MCRT, enter 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	—
136	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
137	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
138	At 3B21D APS MCRT, if CU 1 is ACT, enter 400 in command mode to make CU 1 STBY. Response: On Common Processor Display Page (102), CU 1 changes to STBY. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
139	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
140	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO DLN00 2 (LN00 2)		
142	Notify next higher support organization that DLN00 2 (LN00 2) disconnection from the conversion switch box is going to be performed.	TELCO	—
143	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
144	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
145	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT, enter one of the following messages to make DLN00 2 (LN00 2) STBY: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
146	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
147	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 1 (DGN:LN00 2:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 2 (LN00 2) DISCONNECTION		
148	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 2 (LN00 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 2 (LN00 2) will be isolated also.		
149	At 3B21D APS MCRT, isolate DLN00 2 (LN00 2) (CFR:RING,LN00 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 2 COMPL	TELCO	DLP-531
150	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
151	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 2 (LN00 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
152	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 2 (LN00 2) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
153	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN00 2 (LN00 2).	INST	—
154	Route the CU 1 DLN00 2 (LN00 2) DSCH cable down to the 3B21D APS.	INST	—
155	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 2 (LN00 2).	INST	—
156	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN00 2 (LN00 2) DSCH that was routed in the previous step to the location just vacated.	INST	—
157	Verify cable label is correct; then properly tie off this cable.	INST	—
158	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
159	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
160	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2), specifying phase 34 and CU 1 (DGN:LN00 2:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 STOPPED 5 DGN LN00 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
161	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
162	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 2 (LN00 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
163	At 3B21D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
164	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
165	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 2 (LN00 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
166	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
167	Soak DLN00 2 (LN00 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
168	Determine if enough time remains in this shift to complete DLN00 7 (LN00 7) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
169	If enough time DOES remain, go to Step 215; otherwise, if enough time DOES NOT remain, perform Steps 170 through 205 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN00 7 (LN00 7) from the conversion switch box.		
170	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
171	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 1 COMPLETED	TELCO/INST	DLP-514
173	If RPCN00 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN00 0 from service before switching CU 1 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 0, RPCN00 0, AND/OR DLN00 2 (LN00 2) WITH CU 1 ACTIVE		
174	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
176	If API 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 0 was disconnected in a previous shift, go to Step 186.	TELCO/INST	—
177	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
178	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
179	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
180	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY. Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
181	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
182	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
183	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
184	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
185	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
186	If RPCN00 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was disconnected in a previous shift, go to Step 192.	TELCO/INST	—
187	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
188	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
189	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
190	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
191	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
192	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
193	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
194	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
195	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
196	At 3B21D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
197	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
198	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
199	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
200	At 3B21D APS MCRT, enter 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	—
201	Soak CU 1, API 0, RPCN00 0, and DLN00 2 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
202	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
204	Notify next higher support organization that RPCN00 0 and DLN00 2 disconnection from the conversion switch box is complete.	TELCO	—
205	Soak CU 1, API 0, RPCN00 0, and DLN00 2 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, and DLN00 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
207	Verify 3B21D APS system status.	TELCO	DLP-500
208	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
209	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
210	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
211	At 3B21D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY . On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
212	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
213	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
214	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS . Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>START OF CU 1 DSCH DISCONNECTION FROM DLN00 7 (LN00 7)</i>		
215	Notify next higher support organization that DLN00 7 (LN00 7) disconnection from the conversion switch box is going to be performed.	TELCO	—
216	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
217	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
218	At 3B21D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT , enter one of the following messages to make DLN00 7 (LN00 7) STBY : SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
219	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
220	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 1 (DGN:LN00 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 7 (LN00 7) DISCONNECTION		
221	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN00 7 (LN00 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 7 (LN00 7) will be isolated also.		
222	At 3B21D APS MCRT, isolate DLN00 7 (LN00 7) (CFR:RING,LN00 7;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 7 COMPL	TELCO	DLP-531
223	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
224	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 7 (LN00 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
225	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 7 (LN00 7) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
226	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN00 7 (LN00 7).	INST	—
227	Route the CU 1 DLN00 7 (LN00 7) DSCH cable down to the 3B21D APS.	INST	—
228	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 7 (LN00 7).	INST	—
229	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN00 7 (LN00 7) DSCH that was routed in the previous step to the location just vacated.	INST	—
230	Verify cable label is correct; then properly tie off this cable.	INST	—
231	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time). Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
232	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-525
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
233	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7), specifying phase 34 and CU 1 (DGN:LN00 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 STOPPED 5 DGN LN00 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
234	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
235	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
236	At 3B21D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN00 7 TASK x MESSAGE STARTED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
237	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
238	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN00 7 (LN00 7) is STBY .	TELCO/INST	—
239	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
240	Soak DLN00 7 (LN00 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
241	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
242	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
243	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST . Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 0, RPCN00 0, DLN00 2 (LN00 2), AND/OR DLN00 7 (LN00 7) WITH CU 1 ACTIVE		
244	If RPCN00 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN00 0 from service before switching CU 1 to active (RMV:RPCN00 0!). Response: RMV RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
245	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
246	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
247	If API 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 0 was disconnected in a previous shift, go to Step 257.	TELCO/INST	—
248	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
249	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
250	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
251	If API 0 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 0 STBY . Response: On the 1B Processor Status Display Page (118), API 0 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
252	At 1B Processor MTC terminal, diagnose API 0 (DGN:API 0!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 0 COMPLETED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
253	At 1B Processor MTC terminal, diagnose API 0, specifying phase 91 (DGN:API 0:PH 91!). Response: DGN: API 0 PH 91 ATP MSG STARTED DGN: API 0 COMPLETED ATP MSG COMPL TEST: API 0 - ATP RST: API 0 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
254	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
255	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 0 active. Response: On the 1B Processor Status Display Page (118), API 0 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
256	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	If RPCN00 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN00 0 was disconnected in a previous shift, go to Step 263.	TELCO/INST	—
258	At 3B21D APS MCRT, diagnose RPCN00 0 (DGN:RPCN00 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN00 0 TASK x MESSAGE STARTED RING RMV RPCN00 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN00 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN00 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
259	At 3B21D APS MCRT, restore RPCN00 0 to service unconditionally (RST:RPCN00 0;UCL!). Response: RST RPCN00 0 TASK x MESSAGE STARTED RING RST RPCN00 0 COMPLETED	TELCO/INST	DLP-529
260	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
261	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
262	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
263	If DLN00 2 (LN00 2) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN00 2 (LN00 2) was disconnected in a previous shift, go to Step 272.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
264	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
265	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
266	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is ACT , enter one of the following messages to make DLN00 2 (LN00 2) STBY : SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
267	At 3B21D APS MCRT, diagnose DLN00 2 (LN00 2) (DGN:LN00 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 2 TASK x MESSAGE STARTED RING RMV LN00 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
268	At 3B21D APS MCRT, restore DLN00 2 (LN00 2) to service unconditionally (RST:LN00 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 2 TASK x MESSAGE STARTED REPT DLNCM LN00-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-2 PUMP STARTED RING RST LN00 2 COMPLETED REPT DLNCM PROC (Pump) LN00-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
269	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
270	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 2 (LN00 2) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
271	At 3B21D APS MCRT, if APPL STATE for DLN00 2 (LN00 2) is STBY, enter one of the following messages to make DLN00 2 (LN00 2) ACT: SW:DLN,LN00 2,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 2,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 2 (LN00 2) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
272	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—
273	At 3B21D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is ACT, enter one of the following messages to make DLN00 7 (LN00 7) STBY: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is STBY] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 3B21D APS MCRT, diagnose DLN00 7 (LN00 7) (DGN:LN00 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 7 TASK x MESSAGE STARTED RING RMV LN00 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
275	At 3B21D APS MCRT, restore DLN00 7 (LN00 7) to service unconditionally (RST:LN00 7;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN00 7 TASK x MESSAGE STARTED REPT DLNCM LN00-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-7 PUMP STARTED RING RST LN00 7 COMPLETED REPT DLNCM PROC (Pump) LN00-7 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
276	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 7 (LN00 7) • DLN32 2 (LN32 2) • DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
277	At 3B21D APS MCRT, if APPL STATE for DLN00 7 (LN00 7) is STBY, enter one of the following messages to make DLN00 7 (LN00 7) ACT: SW:DLN,LN00 7,LN32 2! [if DLN32 2 (LN32 2) is ACT] or SW:DLN,LN00 7,LN32 7! [if DLN32 7 (LN32 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN00 7 (LN00 7) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
278	At 3B21D APS MCRT, enter 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	—
279	Soak CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
280	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
282	Notify next higher support organization that API 0, RPCN00 0, DLN00 2, and DLN00 7 disconnection from the conversion switch box is complete.	TELCO/INST	—
283	Soak CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 0, RPCN00 0, DLN00 2, and DLN00 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
284	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 1, RPCN32 0, DLN32 2 (LN32 2), and
DLN32 7 (LN32 7) From 3B21D APS CU 1
Side of Conversion Switch Box - Support to Installer (INST)**

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. An up to date set of 3B21D backup tapes must be available in case system reinitialization is required. 2. The following NTP is completed: • NTP-016 (CU 0 Side) • NTP-017 (CU 0 Side) • NTP-018 (CU 1 Side).		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES FOR API 1 TO CONVERSION SWITCH BOX DISCONNECTION WARNINGS: 1. <i>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.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI is allowed during this procedure.</i> Notes: 1. It will take approximately 4 hours to complete this procedure in its entirety. 2. It is recommended that the installer and the on-site work force go over each procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure. 8. This procedure contains soak intervals for verifying system operation and stability during conversion. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to conversion) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B21D APS must be running on 4AP16 or later generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Perform preliminary installation activities.	INST	—
3	Ensure the following: • 3B20/3B21 key switch on Remote Access Interface (RAI) box is set to 3B21 and the key removed. • 3B20/3B21 key switch on each Conversion Switch Box (CSB) is set to 3B20 and the key removed. • ON/OFF key switch on each CSB is set to ON and the key removed.	INST	—
4	Verify 3B21D APS system status.	TELCO	DLP-500
5	Notify next higher support organization that API 1 disconnection from the conversion switch box is going to be performed.	TELCO	—
6	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>VERIFY STATUS OF APIs</i>		
7	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
8	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 1 (ACT or STBY)	TELCO	—
9	At 3B21D APS MCRT, if CU 1 is STBY , enter 400 in command mode to make CU 1 ACT . Response: On Common Processor Display Page, CU 1 changes to ACT state. On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
10	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
11	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine which API is in STBY state.	TELCO	—
12	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX. Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
13	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509
15	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
16	At 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make other API standby. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API in ACT state switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
17	At 1B Processor MTC terminal, diagnose standby API (DGN:API a!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API a COMPLETED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-511
18	At 1B Processor MTC terminal, diagnose standby API, specifying phase 91 (DGN:API a:PH 91!). Response: DGN: API a PH 91 ATP MSG STARTED DGN: API a COMPLETED ATP MSG COMPL TEST: API a - ATP RST: API a STOPPED OOS DIAGNOSE.	TELCO	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 1B Processor MTC terminal, restore standby API to service unconditionally (RST:API a;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
	SETUP API 1 AND CU 1 FOR DSCH DISCONNECTION FROM CONVERSION SWITCH BOX		
20	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
21	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
22	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
23	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
24	At 3B21D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY state On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
25	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
26	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
27	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
28	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF. Response: OFF LED lights On 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—
29	At API 1 power switch, rotate ROS/OFF switch clockwise to ROS. Response: ACK LED lights momentarily OS LED lights OFF NORM LED lights At 1B Processor MTC terminal, RMV: API 1 COMPLETED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
30	At API 1 power switch, depress ROS/OFF pushbutton. Response: PWR OFF LED lights At 1B Processor MTC terminal, REPT: MAN PWR RMVD API 1 RMV: API 1 COMPLETED.	TELCO	—
	<i>DISCONNECTING API 1 DSCH FROM CONVERSION SWITCH BOX</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
31	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 API 1.	INST	—
32	Route the CU 1 API 1 DSCH cable down to the 3B21D APS.	INST	—
33	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with CU 1 API 1.	INST	—
34	At 3B21D APS backplane, carefully connect the DSCH cable that was routed in the previous step to the location just vacated.	INST	—
35	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
36	At API 1 power switch, depress ON pushbutton (Do not restore API 1 at this time). Response: PWR OFF LED goes off At 1B Processor MTC terminal, REPT: PWR RSTD API 1.	TELCO/INST	DLP-510
37	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time). Response: OFF LED goes off On 3B21D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED.	TELCO/INST	DLP-513
38	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: DGN: API 1 COMPLETED CATP (40000000 00000000) MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-559
39	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED UNAVAILABLE FORCED.	TELCO/INST	DLP-505

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
40	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: OS LED goes off. RST: API 1 COMPLETED.	TELCO/INST	DLP-526
41	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
42	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
43	At 3B21D APS MCRT, diagnose CU 1, specifying channel 18 and phase 10 (DGN:CU 1,CH 18:PH 10!) Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 18 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 18 PH 10 ATP MESSAGE IN PROGRESS DGN CU 1 CH 18 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 18 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
44	At 3B21D APS MCRT, diagnose CU 1, specifying channel 18 and phase 20 (DGN:CU 1,CH 18:PH 20!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN CU 1 CH 18 TASK x MESSAGE STARTED RMV CU 1 COMPLETED DGN CU 1 CH 18 PH 20 ATP MESSAGE IN PROGRESS DGN CU 1 CH 18 COMPLETED ATP MESSAGE IN PROGRESS DGN CU 1 CH 18 ATP MESSAGE COMPLETE.	TELCO/INST	DLP-558
45	At API 1 power switch, rotate ROS/OFF switch counterclockwise to normal position. Response: ACK LED lights momentarily OFF NORM LED goes off	TELCO/INST	DLP-512
46	At 1B Processor MTC terminal, diagnose API 1. Expect ATP results (RST:API 1!) Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 COMPLETED.	TELCO	DLP-562
47	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
48	Determine if enough time remains in this shift to complete RPCN32 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 74; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting RPCN32 0 from the conversion switch box.		
50	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST. Note: Restore will take approximately 30 minutes to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1 WITH CU 1 ACTIVE		
51	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
52	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 ACT. Response: On Common Processor Display Page (102), CU 1 changes to ACT state On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
53	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
54	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
55	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
56	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B Processor MTC terminal, SW:APS 0 COMPLETED	TELCO	—
57	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!). Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511
58	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!) Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
59	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
60	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), API 1 switches to ACT state At 1B Processor MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
61	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
62	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
63	Soak CU 1 and API 1 as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
64	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
65	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
66	Soak CU 1 and API 1 as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1 and API 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
67	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
68	Verify 3B21D APS system status.	TELCO	DLP-500
69	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
70	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
71	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
72	At 3B21D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY On 3B21D APS MCRT ROP, SW CU 0 COMPLETED	TELCO	—
73	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS . Response: OOS LED lights RQIP LED lights momentarily ROS LED lights On 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO RPCN32 0		
74	Notify next higher support organization that RPCN32 0 is going to be disconnected from the conversion switch box.	TELCO	—
75	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
76	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 UNAVAILABLE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B21D APS AND CU 1 FOR RPCN32 0 DISCONNECTION		
77	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
78	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
79	At 3B21D APS MCRT, Ensure Major State for RPCN00 0 is ACT .	TELCO	—
80	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
81	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-563

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B21D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 1 (DGN:RPCN32 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-548

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR RPCN32 0 DISCONNECTION		
83	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before RPCN32 0 to the next ACT link node position. Any OOS link nodes immediately adjacent to RPCN32 0 will be isolated also.		
84	At 3B21D APS MCRT, isolate RPCN32 0 (CFR:RING,RPCN32 0;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING RPCN32 0 COMPL	TELCO	DLP-528
85	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
86	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
87	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • RPCN32 0 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	At 3B21D APS CU 1 power switch (EQL 53-060), ensure OOS LED is on.	TELCO	—
89	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1	TELCO	—
	<i>RPCN32 0 TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
90	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 RPCN32 0.	INST	—
91	Route the CU 1 RPCN32 0 DSCH cable down to the 3B21D APS.	INST	—
92	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
93	At 3B21D APS CU 1 backplane, carefully connect the CU 1 RPCN32 0 DSCH that was routed in the previous step to the location just vacated.	INST	—
94	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time). Response: OFF LED goes off At 3B21D APS MCRT ROP: REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	DLP-513
96	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-527

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cables. Carefully check all DSCH cable connections for accuracy.		
97	At 3B21D APS MCRT, diagnose RPCN32 0, specifying phase 14 and CU 1 (DGN:RPCN32 0:PH 14,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 DGN RPCN32 0 PH 14 ATP MESSAGE IN PROGRESS DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO/INST	DLP-564
98	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
99	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
100	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
101	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
102	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to “ i ” (i=isolated). If any link node is set to i , contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
103	Soak RPCN32 0 for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
104	Determine if enough time remains in this shift to complete DLN32 2 (LN32 2) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
105	If enough time DOES remain, go to Step 142; otherwise, if enough time DOES NOT remain, perform Steps 106 through 132 to reach a Safe Stop Point .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN32 2 (LN32 2) from the conversion switch box.		
106	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
107	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
108	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1 AND/OR RPCN32 0 WITH CU 1 ACTIVE		
109	At 3B21D APS MCRT, remove RPCN32 0 from service before switching CU 1 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
110	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
112	If API 1 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 1 was disconnected in a previous shift, go to Step 122.	TELCO/INST	—
113	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
114	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
115	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
116	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
117	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
118	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
119	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
120	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
121	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
122	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
123	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
124	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
125	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
126	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
127	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	Soak CU 1, API 1 and RPCN32 0 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1 and RPCN32 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
129	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
130	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
131	Notify next higher support organization that API 1 and RPCN32 0 disconnection from the conversion switch box is complete.	TELCO	—
132	Soak CU 1, API 1 and RPCN32 0 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, and RPCN32 0 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
133	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
134	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
135	At 3B21D APS MCRT, enter 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	—
136	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
137	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
138	At 3B21D APS MCRT, if CU 1 is ACT, enter 400 in command mode to make CU 1 STBY. Response: On Common Processor Display Page (102), CU 1 changes to STBY. On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
139	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
140	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS. Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO DLN32 2 (LN32 2)		
142	Notify next higher support organization that DLN32 2 (LN32 2) disconnection from the conversion switch box is going to be performed.	TELCO	—
143	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
144	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
145	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT, enter one of the following messages to make DLN32 2 (LN32 2) STBY: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
146	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
147	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 1 (DGN:LN32 2:PH 34, CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 2 (LN32 2) DISCONNECTION		
148	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 2 (LN32 2) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 2 (LN32 2) will be isolated also.		
149	At 3B21D APS MCRT, isolate DLN32 2 (LN32 2) (CFR:RING,LN32 2;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 2 COMPL	TELCO	DLP-531
150	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
151	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 2 (LN32 2) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
152	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 2 (LN32 2) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
153	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN32 2 (LN32 2).	INST	—
154	Route the CU 1 DLN32 2 (LN32 2) DSCH cable down to the 3B21D APS.	INST	—
155	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 2 (LN32 2).	INST	—
156	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN32 2 (LN32 2) DSCH that was routed in the previous step to the location just vacated.	INST	—
157	Verify cable label is correct; then properly tie off this cable.	INST	—
158	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
159	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
160	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2), specifying phase 34 and CU 1 (DGN:LN32 2:PH 34, CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 STOPPED 5 DGN LN32 2 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 2 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
161	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
162	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 2 (LN32 2).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
163	At 3B21D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 2 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
164	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
165	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 2 (LN32 2) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
166	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—
167	Soak DLN32 2 (LN32 2) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
168	Determine if enough time remains in this shift to complete DLN32 7 (LN32 7) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
169	If enough time DOES remain, go to Step 215; otherwise, if enough time DOES NOT remain, perform Steps 170 through 205 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting DLN32 7 (LN32 7) from the conversion switch box.		
170	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
171	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST. Note: It will take approximately 30 minutes for restore to complete. Response: RST: CU 1 COMPLETED	TELCO/INST	DLP-514
173	If RPCN32 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN32 0 from service before switching CU 1 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565
	DIAGNOSE API 1, RPCN32 0, AND/OR DLN32 2 (LN32 2) WITH CU 1 ACTIVE		
174	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
176	If API 1 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 1 was disconnected in a previous shift, go to Step 186.	TELCO/INST	—
177	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
178	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
179	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
180	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY. Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
181	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
182	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
183	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
184	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
185	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
186	If RPCN32 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was disconnected in a previous shift, go to Step 192.	TELCO/INST	—
187	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
188	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
189	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
190	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
191	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
192	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
193	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
194	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
195	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525
196	At 3B21D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
197	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
198	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
199	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY , enter one of the following messages to make DLN32 2 (LN32 2) ACT : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT . On 3B21D APS MCRT ROP, SW DLN COMPLETE .	TELCO	—
200	At 3B21D APS MCRT, enter 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	—
201	Soak CU 1, API 1, RPCN32 0, and DLN32 2 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
202	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 1B Processor MCC terminal, on the System Status Display Page (108), enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
204	Notify next higher support organization that RPCN32 0 and DLN32 2 disconnection from the conversion switch box is complete.	TELCO	—
205	Soak CU 1, API 1, RPCN32 0, and DLN32 2 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, and DLN32 2 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
207	Verify 3B21D APS system status.	TELCO	DLP-500
208	At 3B21D APS MCRT, enter 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
209	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
210	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
211	At 3B21D APS MCRT, if CU 1 is ACT , enter 400 in command mode to make CU 1 STBY . Response: On Common Processor Display Page (102), CU 1 changes to STBY . On 3B21D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
212	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
213	On EAI page, enter 12 in command mode to force CU 0 on-line. Response: On EAI page, FOFL is highlighted for CU 1 FONL is highlighted for CU 0 On 3B21D APS MCRT ROP, REPT CU 0 FORCED ONLINE REPT CU 1 REMOVED REPT CU 1 UNAVAILABLE	TELCO	—
214	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to ROS . Response: OOS LED remains lit RQIP LED lights momentarily ROS LED lights At 3B21D APS MCRT ROP, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	START OF CU 1 DSCH DISCONNECTION FROM DLN32 7 (LN32 7)		
215	Notify next higher support organization that DLN32 7 (LN32 7) disconnection from the conversion switch box is going to be performed.	TELCO	—
216	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
217	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
218	At 3B21D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT , enter one of the following messages to make DLN32 7 (LN32 7) STBY : SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
219	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525
220	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 1 (DGN:LN32 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-549

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 7 (LN32 7) DISCONNECTION		
221	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated). Only one area on a CNI ring can be isolated at a time. If any link node is isolated, that link node will have to be restored before continuing.	TELCO	—
	Note: The next step will isolate the area from the last equipped ACT link node before DLN32 7 (LN32 7) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 7 (LN32 7) will be isolated also.		
222	At 3B21D APS MCRT, isolate DLN32 7 (LN32 7) (CFR:RING,LN32 7;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 7 COMPL	TELCO	DLP-531
223	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
224	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 7 (LN32 7) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
225	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to OFF . Response: OFF LED lights At 3B21D APS MCRT ROP, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 7 (LN32 7) TO CONVERSION SWITCH BOX DISCONNECTION</i>		
	<i>WARNING: The next step begins the disconnection and connection of the DSCH cables. The DSCH connectors at the 3B21D APS backplane are very dense and the utmost care must be taken in removal and connection of the cables to avoid damage to the backplane or to the adjacent DSCH connectors.</i>		
226	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN32 7 (LN32 7).	INST	—
227	Route the CU 1 DLN32 7 (LN32 7) DSCH cable down to the 3B21D APS.	INST	—
228	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 7 (LN32 7).	INST	—
229	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN32 7 (LN32 7) DSCH that was routed in the previous step to the location just vacated.	INST	—
230	Verify cable label is correct; then properly tie off this cable.	INST	—
231	At 3B21D APS CU 1 power switch (EQL 53-060), operate ST/ON/OFF switch to ST (Do not restore CU 1 at this time) . Response: OFF LED goes off At 3B21D APS MCRT ROP, REPT POWER RESTORED CU 1 START OF CU-1 RECOVERY RMV CU 1 TASK x MESSAGE STARTED CU RECOVERY COMPLETED RMV CU 1 COMPLETED	TELCO/INST	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
232	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-525
	Note: Failure of the following diagnostics will indicate problems with the new DSCH cable. Carefully check all DSCH cable connections for accuracy.		
233	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7), specifying phase 34 and CU 1 (DGN:LN32 7:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 STOPPED 5 DGN LN32 7 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 7 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
234	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
235	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 7 (LN32 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
236	At 3B21D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
237	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
238	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), ensure APPL STATE for DLN32 7 (LN32 7) is STBY .	TELCO/INST	—
239	At 3B21D APS MCRT, enter message OP:RING;DETD! and determine if any link node is set to "i" (i=isolated). If any link node is set to i, contact next higher support organization. No link nodes should be isolated at this time. Do not continue until resolved.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
240	Soak DLN32 7 (LN32 7) for 15 minutes to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately.	TELCO/INST	—
	CONVERSION SESSION TERMINATION		
241	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
242	On EAI page, enter 13 in command mode to clear forces. Response: On EAI page, FOFL and FONL extinguishes for CU 1 and CU 0, respectively On 3B21D APS MCRT ROP, REPT CU 0 NO LONGER FORCED ONLINE REPT CU 1 OUT OF SERVICE.	TELCO/INST	—
243	At 3B21D APS CU 1 power switch (EQL 53-060), operate ROS/RST switch to RST . Note: It will take approximately 30 minutes for restore to complete. Response: RST CU 1 COMPLETED	TELCO/INST	DLP-514
	DIAGNOSE API 1, RPCN32 0, DLN32 2 (LN32 2), AND/OR DLN32 7 (LN32 7) WITH CU 1 ACTIVE		
244	If RPCN32 0 was disconnected from the conversion switch box during this shift, at 3B21D APS MCRT, remove RPCN32 0 from service before switching CU 1 to active (RMV:RPCN32 0!). Response: RMV RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 COMPLETED RING REPT RPC STAT ALM WARNING: ONLY ONE ACTIVE RPC REMAINING	TELCO	DLP-565

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
245	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
246	At 3B21D APS MCRT, enter 400 in command mode to make CU 1 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B21D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
247	If API 1 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if API 1 was disconnected in a previous shift, go to Step 257.	TELCO/INST	—
248	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
249	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
250	At 1B Processor MTC terminal, enter message INH:MACLI,CLASS MTCE;REX! to inhibit REX Response: REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED	TELCO	—
251	If API 1 is in ACT state, at 1B Processor MTC terminal, enter message SW:APS 0! to switch APIs to make API 1 STBY . Response: On the 1B Processor Status Display Page (118), API 1 switches to STBY state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO	—
252	At 1B Processor MTC terminal, diagnose API 1 (DGN:API 1!) Note: Diagnostic will take approximately 3 minutes to complete. Response: RMV: API 1 COMPLETED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-511

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
253	At 1B Processor MTC terminal, diagnose API 1, specifying phase 91 (DGN:API 1:PH 91!). Response: DGN: API 1 PH 91 ATP MSG STARTED DGN: API 1 COMPLETED ATP MSG COMPL TEST: API 1 - ATP RST: API 1 STOPPED OOS DIAGNOSE.	TELCO/INST	DLP-509
254	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
255	At 1B Processor MTC terminal, enter message SW:APS 0! to make API 1 active. Response: On the 1B Processor Status Display Page (118), API 1 switches to ACT state. At 1B MTC terminal, SW:APS 0 COMPLETED.	TELCO/INST	—
256	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
257	If RPCN32 0 was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if RPCN32 0 was disconnected in a previous shift, go to Step 263.	TELCO/INST	—
258	At 3B21D APS MCRT, diagnose RPCN32 0 (DGN:RPCN32 0!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN RPCN32 0 TASK x MESSAGE STARTED RING RMV RPCN32 0 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN RPCN32 0 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN RPCN32 0 ATP MESSAGE COMPLETE	TELCO	DLP-527
259	At 3B21D APS MCRT, restore RPCN32 0 to service unconditionally (RST:RPCN32 0;UCL!). Response: RST RPCN32 0 TASK x MESSAGE STARTED RING RST RPCN32 0 COMPLETED	TELCO/INST	DLP-529
260	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
261	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
262	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
263	If DLN32 2 (LN32 2) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN32 2 (LN32 2) was disconnected in a previous shift, go to Step 272.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
264	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—
265	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
266	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is ACT , enter one of the following messages to make DLN32 2 (LN32 2) STBY : SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
267	At 3B21D APS MCRT, diagnose DLN32 2 (LN32 2) (DGN:LN32 2!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 2 TASK x MESSAGE STARTED RING RMV LN32 2 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 2 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 2 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
268	At 3B21D APS MCRT, restore DLN32 2 (LN32 2) to service unconditionally (RST:LN32 2;UCL!). Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received. Response: RST LN32 2 TASK x MESSAGE STARTED REPT DLNCM LN32-2 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-2 PUMP STARTED RING RST LN32 2 COMPLETED REPT DLNCM PROC (Pump) LN32-2 nnn (nnn) BINKS PUMPED IN nnn MSEC Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.	TELCO/INST	DLP-530
269	At 3B21D APS MCRT, enter 1107 in command mode to obtain the DLN/API Stream Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
270	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 2 (LN32 2) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
271	At 3B21D APS MCRT, if APPL STATE for DLN32 2 (LN32 2) is STBY, enter one of the following messages to make DLN32 2 (LN32 2) ACT: SW:DLN,LN32 2,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 2,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 2 (LN32 2) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
272	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—
273	At 3B21D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is ACT, enter one of the following messages to make DLN32 7 (LN32 7) STBY: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is STBY] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is STBY] Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
274	At 3B21D APS MCRT, diagnose DLN32 7 (LN32 7) (DGN:LN32 7!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 7 TASK x MESSAGE STARTED RING RMV LN32 7 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 7 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 7 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
275	At 3B21D APS MCRT, restore DLN32 7 (LN32 7) to service unconditionally (RST:LN32 7;UCL!). <i>Caution: It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly. Do not proceed unless all the messages are received.</i> Response: RST LN32 7 TASK x MESSAGE STARTED REPT DLNCM LN32-7 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-7 PUMP STARTED RING RST LN32 7 COMPLETED REPT DLNCM PROC (Pump) LN32-7 nnn (nnn) BINKS PUMPED IN nnn MSEC <i>Caution: DO NOT PROCEED UNLESS ALL THE ABOVE MESSAGES ARE RECEIVED. Contact next higher support organization for resolution.</i>	TELCO/INST	DLP-530
276	At 3B21D APS MCRT, on DLN/API Stream Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 7 (LN32 7) • DLN00 2 (LN00 2) • DLN00 7 (LN00 7).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
277	At 3B21D APS MCRT, if APPL STATE for DLN32 7 (LN32 7) is STBY, enter one of the following messages to make DLN32 7 (LN32 7) ACT: SW:DLN,LN32 7,LN00 2! [if DLN00 2 (LN00 2) is ACT] or SW:DLN,LN32 7,LN00 7! [if DLN00 7 (LN00 7) is ACT]. Response: On DLN/API Stream Status Display Page (1107), DLN32 7 (LN32 7) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
278	At 3B21D APS MCRT, enter 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	—
279	Soak CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 [unit(s) disconnected from conversion switch box during this shift] as active for 1 hour to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
280	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
282	Notify next higher support organization that API 1, RPCN32 0, DLN32 2, and DLN32 7 disconnection from the conversion switch box is complete.	TELCO	—
283	Soak CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 [unit(s) disconnected from conversion switch box during this shift] as active for at least one non-cabling shift to ensure that no problems exist with system operation after conversion. All abnormal conditions such as interrupts, interjects, and diagnostic failures must be investigated and resolved immediately. If for any reason back-out is necessary, CU 1, API 1, RPCN32 0, DLN32 2, and DLN32 7 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
284	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Remove 3B20D Cabinets, MTTY, ROP, Cable, and Miscellaneous Components - Support to Installer (INST)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>ASSUMPTIONS OF WORK COMPLETED BEFORE PERFORMING THIS PROCEDURE</i> 1. The office must be operating on the 3B21D APS. 2. All work associated with the conversion to the 3B21D APS must be completed. 3. The removal of the Conversion Switch Box must be completed. 4. The customer and Lucent installer have agreed to proceed with the removal of the 3B20D APS Complex. 5. An up to date set of 3B21D backup tapes must be available in case system reinitialization is required.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	GENERAL WARNINGS AND NOTES FOR 3B20D APS COMPLEX REMOVAL WARNINGS: 1. <i>An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling or installing/removing circuit packs or backplane cables.</i> 2. <i>No other growth or maintenance activity is allowed during this procedure.</i> 3. <i>No software updates of 1B, 3B, SCS, SCS-ASR, or XTSI are allowed during this procedure.</i> Notes: 1. It is recommended that the installer and the on-site work force go over each step of the procedure and if there are any questions, DO NOT BEGIN THE PROCEDURE until the questions are answered. 2. Office records must be available to identify and verify fuse locations, cable connections, and peripheral connections. 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary. 4. This procedure must be performed during light traffic periods. 5. 4ESS™ Switch and 3B21D APS operation must be closely monitored while performing this procedure. 6. Corrective action must be taken immediately on any activity that may cause any unit to go out of service (OOS). 7. Stability of office must be maintained throughout this procedure.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 9. 4ESS™ Switch must be running on 4E23 or later generic and the 3B21D APS must be running on 4AP16 or later generic. 10. It is always advisable to have two people verify cable connections to avoid lost time because of flipped connectors, wrong locations, and so on.		
1	Place a check mark by each step when completed.	TELCO	—
2	Notify next higher support organization that alarms will be received.	TELCO	—
3	This alarm test is used as a benchmark for the alarm test performed later in this procedure. The given indications for alarm testing are results that should be received. There is a possibility that different results may be obtained. If different results are obtained from the given indications, note the differences. These results will be compared to NTP-020, Steps 26 through 32. If there is a difference between the two alarm tests, the installer must determine cause.	TELCO/INST	—
4	At front of 3B21D APS cabinet at fan unit, disconnect fan plug.	TELCO/INST	—
	Note: It will take a short time for FAN LED, at top of 3B21D APS, to light.		
5	Ensure the following: - At top of 3B21D APS, FAN LED goes on. - Audible critical alarm is received. - At back of 3B21D APS, E LED (EQL 36-008) goes on. - Grid CR goes on. - At 3B21D APS MCRT, on the Common Processor Display page (102), FAN is colored red. - At 3B21D APS MCRT ROP REPT FAN ALARM CU BASIC CABINET	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
6	At front of 3B21D APS at fan unit, connect plug disconnected earlier.	TELCO/INST	—
7	At back of 3B21D APS, operate RESET switch (EQL 36-008) down and release.	TELCO	—
8	Ensure the following: • At top of 3B21D APS, FAN LED goes off. • At back of 3B21D APS, ensure E LED (EQL 36-008) goes off. • At 3B21D APS MCRT, on the Common Processor Display page (102), FAN is cleared. • At 3B21D APS MCRT ROP REPT FAN ALARM CLEARED CU BASIC CABINET	TELCO/INST	—
9	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
10	Ensure the following: • Audible critical alarm is retired. • Grid CR goes off.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
11	At the applicable 3B20D power distribution frame, using office records, verify and record the 3B20D indicator fuse locations and the 3B20D load fuse locations for the 3B20D power feeders.	TELCO	DLP-587
12	At the Miscellaneous A frame, using office records, verify and record the Protected AC fuse locations for the 3B20D Tape Drive Cabinets/Frames.	TELCO	DLP-588
13	At the CU and IOP frames for the 3B20D, Model 1, or at the CU cabinets for the 3B20D, Models 2 and 3, power down the CU and IOP complexes of the 3B20D. Note: The MOR and OFF switches require to be operated together if the OOS LED is not active or if the 3B20D is suspended.	INST	—
14	At the 3B20D SCSI Disk cabinets, power down the DFCs, DUPs, and Fans.	INST	—
15	At the 3B20D Tape Drive cabinets/frames, power down the Tape Drives and Inverters.	INST	—
16	At the rear of the IOP cabinets for 3B20D, Model 1, or at the rear of the CU cabinets for 3B20D, Models 2 and 3, disconnect and remove the SCC connections to the 3B20D IOPs.	INST	—
17	At the rear of the IOP 1 cabinet for 3B20D, Model 1, or at the rear of the CU 0 cabinet for 3B20D, Models 2 and 3, disconnect and remove the Alarm cable to the Miscellaneous A frame.	INST	—
18	At the Miscellaneous A frame TS "A", disconnect and remove the 3B20D Alarm cable. Remove 3B20D Alarm cable from the cable racks per the office records.	INST	—
19	At the rear of the 3B20D CU cabinets, disconnect the Alarm cables. This includes all Alarm cables daisy chained in the 3B20D line up. WARNING: Removal of 3B20D Alarm cables may break the Alarm circuit to other frames in the same line up. The Alarm circuit must be restored between the remaining frames in the line up and the end guard.	INST	—
20	At the applicable 3B20D power distribution frame, disconnect and remove the 3B20D Alarm cable. Remove 3B20D Alarm cable from the cable racks per the office records.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
21	At the rear of the IOP cabinets for 3B20D, Model 1, or at the rear of the CU cabinets for 3B20D, Models 2 and 3, disconnect and remove the TTY/SDL OS links. Note: The OS cables will be connected at the 3B20D end and disconnected at the application end. WARNING: Do NOT disconnect any cables at the applications during this procedure. Do NOT pull or dislodge other cables that are wired to the active application units connected to the 3B21D APS.	INST	—
22	At the rear of the IOP cabinets for 3B20D, Model 1, or at the rear of the CU cabinets for 3B20D, Models 2 and 3, disconnect and remove the Scan/SD cables. Note: The SCSD cables will be connected at the 3B20D end. The SCSD cables will be disconnected and tied off to the side of the frame at the application end. WARNING: Do NOT disconnect any cables at the applications during this procedure. Do NOT pull or dislodge other cables that are wired to the active application units connected to the 3B21D APS.	INST	—
23	At the rear of the 3B20D CU cabinets, disconnect and remove the 3B20D MTTY alarm connections to the SP (IQX, IDF, or SP matrix).	INST	—
	VERIFY ALARMS		
24	Notify next higher support organization that alarms will be received.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
25	The given indications for alarm testing are results that should be received. There is a possibility that different results may be obtained. If different results are obtained from the given indications, compare the indication received during the earlier alarm testing (NTP-020, Steps 4 through 10) with the alarm that is different (NTP-020, Steps 26 through 32). If there is a difference between the two alarm tests, the installer must determine cause.	TELCO/INST	—
26	At front of 3B21D APS cabinet at fan unit, disconnect fan plug.	TELCO/INST	—
	Note: It will take a short time for FAN LED , at top of 3B21D APS, to light.		
27	Ensure the following: - At top of 3B21D APS, FAN LED goes on. - Audible critical alarm is received. - At back of 3B21D APS, E LED (EQL 36-008) goes on. - Grid CR goes on. - At 3B21D APS MCRT, on the Common Processor Display page (102), FAN is colored red. - At 3B21D APS MCRT ROP REPT FAN ALARM CU BASIC CABINET	TELCO/INST	—
28	At front of 3B21D APS at fan unit, connect plug disconnected earlier.	TELCO/INST	—
29	At back of 3B21D APS, operate RESET switch (EQL 36-008) down and release.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
30	Ensure the following: - At top of 3B21D APS, FAN LED goes off. - At back of 3B21D APS, ensure E LED (EQL 36-008) goes off. - At 3B21D APS MCRT, on the Common Processor Display page (102), FAN is cleared. - At 3B21D APS MCRT ROP REPT FAN ALARM CLEARED CU BASIC CABINET	TELCO/INST	—
31	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
32	Ensure the following: - Audible critical alarm is retired. - Grid CR goes off.	TELCO/INST	—
33	Safe point to temporarily stop this procedure. Resume this procedure with Step 34.	TELCO/INST	—
34	At the 3B20D SCSI/DFC cabinet, remove and safely store the Disk Unit Packages (DUPs). The DUPs should be placed in the proper storage containers and turned over to the TELCO.	INST	—
35	Safe point to temporarily stop this procedure. Resume this procedure with Step 36.	TELCO/INST	—
36	At the 3B20D CU 0 and CU 1 frames, remove and safely store the TN56 Memory Boards. The circuit packs should be placed in the proper storage containers and turned over to the TELCO.	INST	—
37	Safe point to temporarily stop this procedure. Resume this procedure with Step 38.	TELCO/INST	—
38	At the applicable 3B20D power distribution frame, using the recorded indicator fuse locations in Step 11, remove the indicator fuses for the 3B20D APS frames, SCSI cabinets, IOP frames, and the Tape Drive cabinets/frames.	TELCO/INST	DLP-587
39	At the applicable 3B20D power distribution frame, using the recorded load fuse locations in Step 11, remove one of the load fuses for the 3B20D APS frames, SCSI cabinets, IOP frames, and the Tape Drive cabinets/frames.	TELCO/INST	DLP-587

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
40	At the applicable 3B20D power distribution frame, using a voltmeter, verify that there is no voltage on the terminal of the load fuse removed in Step 39. Clip -48V wire at the terminal of the fuse removed in Step 39. Insulate the cut end with electrical tape. Remove the wire from the fuse cabinet by backing it out to the cable rack.	INST	—
41	Repeat Steps 39 and 40 for each 3B20D load fuse recorded in Step 11.	INST	—
42	At the 3B20D CU frames, SCSI frames, IOP frames, and Tape Drive cabinets/frames, unplug all -48V power feeders.	INST	—
43	At the 3B20D CU frames, SCSI frames, IOP frames, and Tape Drive cabinets/frames, using a VOM, verify that power has been removed across the power feeder connectors unplugged in Step 42.	INST	—
44	At the applicable 3B20D power distribution frame, using a clamp-on DC ammeter, verify that there is no current on return lead corresponding to the fuse removed in Step 39. Clip RETURN wire at the lug of the ground bar corresponding to the fuse removed in Step 39. Insulate the cut end with electrical tape. Remove the wire from the fuse cabinet by backing it out to the cable rack.	INST	—
45	Repeat Step 44 for each RETURN lead corresponding to the 3B20D load fuses removed in Step 39.	INST	—
46	At the applicable 3B20D power distribution frame, remove the 3B20D power feeders and remove the power cables from the cable racks.	INST	—
47	At the Miscellaneous A frame, using the recorded Protected AC fuse locations in Step 12, remove the fuses for the Protected AC used in the 3B20D Tape Drive cabinets/frames.	TELCO/INST	DLP-588
48	At the Miscellaneous A frame, remove the Protected AC cabling that goes to the 3B20D Tape Drive cabinets/frames. Note: Care should be taken when removing the 3B20D equipment that was connected to the Protected AC in the line up. Other equipment in the Protected AC line up must not be disconnected. The Protected AC circuit must remain complete.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
49	If applicable, using office records, trip circuit breaker feeding base AC outlets in 3B20D, Model 1 and 2, CU frames and IOP frames.	TELCO/INST	—
50	At the 3B20D CU frames and IOP frames, remove the cabling feeding the base AC outlets. Note: Care should be taken when removing the 3B20D equipment that was connected to the base AC outlets in the line up. Other equipment in the base AC line up must not be disconnected. The base AC circuit must remain complete.	INST	—
51	If applicable, using office records, reset circuit breaker feeding base outlets in line up.	INST/TELCO	—
52	Safe point to temporarily stop this procedure. Resume this procedure with Step 53.	TELCO/INST	—
53	For 3B20D, Model 1, remove the cabling between the 3B20D CU frames, the SCSI Disk frames, and the IOP frames. For 3B20D, Models 2 and 3, remove the cabling between the 3B20D CU frames and the SCSI Disk frames.	INST	—
54	For 3B20D, Model 1, remove the cabling between the Tape Drive cabinets/frames and the IOP frames. For 3B20D, Models 2 and 3, remove the cabling between the 3B20D CU frames and the Tape Drive cabinets/frames.	INST	—
55	Remove the Scan Points and Signal Distributor Points cable from the cable rack.	INST	—
56	At the rear of the IOP cabinets for 3B20D, Model 1, or at the rear of the CU cabinets for 3B20D, Models 2 and 3, disconnect the 3B20D MTTY and ROP cables.	INST	—
57	Remove the 3B20D MTTY and ROP cables between the 3B20D and the MOC area.	INST	—
58	In the MOC area, power down and remove the 3B20D MTTY and ROP.	INST	—
59	Safe point to temporarily stop this procedure. Resume this procedure with Step 60.	TELCO/INST	—
60	Remove the DSCH cable between the 3B20D and the application unit positions in the CNI 00, CNI 06 (if applicable), CNI 32, CNI 38 (if applicable), API 0, and API 1 frames.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
61	At the 3B20D CU frames, the SCSI/DFC cabinet, the IOP frames, and the Tape Drive cabinets/frames, remove the frame grounds just prior to removal of the frames/cabinets. (1-2 cables per frame)	INST	—
62	Remove the 3B20D CU frames, the SCSI/DFC cabinets, the IOP frames, and the Tape Drive cabinets from the frame line up. Safely, remove the units from the office and dispose of properly. Note: Visually check each frame before removing and ensure all cables to frame have been disconnected and removed.	INST	—
63	In the area where frames have been removed, update cable rack bracing, end guards, etc.	INST	—
64	In the area where frames have been removed, update end guard labels for equipment line up.	INST	—
65	In the area where frames have been removed, remove floor mounted anchors and fill the holes.	INST	—
66	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Verify 3B20D or 3B21D APS System Status

Note: This procedure can be used for verifying system status for either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. System status is being verified for?

If **3B20D APS**, enter all 3B commands on the 3B20D MCRT.
If **3B21D APS**, enter all 3B commands on the 3B21D MCRT.
2. Contact next higher support organization to verify Steps 3 through 7
3. Ensure 3B APS has not experienced terminal suspends, bootstraps, diagnostic failures, or overloads within past 24 hours.
4. Ensure all system problems have been cleared.
5. Ensure 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 any 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 both APIs are in ACTIVE-STANDBY mode.
12. At 3B APS MCRT, depress **NORM/DISP (PF2)** 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 3B APS MCRT, enter **1107** in command mode to obtain the DLN/API Stream Status Display Page (1107).
15. 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.
16. At 3B APS MCRT, enter message **OP:AUD:ALL!** and ensure no audits are inhibited.
17. At 3B APS MCRT, enter message **OP:RING;DETD!** and ensure that no "i" is listed for any link node. ("i" = isolated).
18. At 3B APS MCRT, verify API-DLN stream status (**OP:DLNCM;STREAM!**) using DLP-501.
19. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Verify 3B20D APS API-DLN Stream Status

Note: This procedure can be used to verify API-DLN stream status for either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. API-DLN stream status is being verified for?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B 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

3. Was printout received similar to Figure 1?

If **Yes**, go to Step 4.

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

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

If **Yes**, go to Step 6.

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

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

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

Run File System Audits To Ensure No File System Errors

Note: This procedure can be used for running file system audits for either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. File system audits are being run on?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B 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

.
.

3. Using 3B APS MCRT ROP, determine which file system is running on 3B20D/3B21D APS.

4. System is running on?

If **/dev/root**, go to Step 5.

If **/dev/broot**, go to Step 19.

Note: Steps 5 through 17 are being performed to run file system block and file system linkage audits on root file system.

5. At 3B 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
 /dev/tlp
 /dev/bwm
 /dev/update
 /dev/gttx
 /dev/amafiles
 /dev/amabfiles

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

6. Using 3B APS MCRT ROP, are the values the same for ERRORS FOUND and ERRORS CORRECTED?

If **Yes**, go to Step 10.

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

7. Contact the appropriate support organization before running audit in CORR mode.
8. At 3B APS MCRT, enter message **AUD:FSBLK 1,INS"a";CORR!** to run the audit again specifying the Correction (CORR) mode
9. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.
10. Has file system block audit been run on all the files listed in Step 5?

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

11. Repeat from Step 5 for next file that has not been run.

12. At 3B 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
 /dev/tlp
 /dev/bwm
 /dev/update
 /dev/gttx
 /dev/amafiles
 /dev/amabfiles

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

13. Using 3B APS MCRT ROP, are the values the same for ERRORS FOUND and ERRORS CORRECTED?

If **Yes**, go to Step 17.

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

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

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

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

17. Has file system linkage audit been run on all the files listed in Step 12?

If **Yes**, go to Step 33.

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

18. Repeat from Step 12 for next file that has not been run.

Note: Steps 19 through 32 are being performed to run file system block and file system linkage audits on broot file system.

19. At 3B 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
 /dev/tlp
 /dev/bwm
 /dev/update
 /dev/gttx
 /dev/amafiles
 /dev/amabfiles

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

20. Using 3B APS MCRT ROP, are the values the same for ERRORS FOUND and ERRORS CORRECTED?

If **Yes**, go to Step 24.

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

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

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

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

24. Has file system block audit been run on all the files listed in Step 19?

If **Yes**, go to Step 26.

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

25. Repeat from Step 19 for next file that has not been run.

26. At 3B 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
 /dev/tlp
 /dev/bwm
 /dev/update
 /dev/gttx
 /dev/amafiles
 /dev/amabfiles

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

27. Using 3B APS MCRT ROP, are the values the same for ERRORS FOUND and ERRORS CORRECTED?

If **Yes**, go to Step 31.

If **No**, go to Step 28.

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

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

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

31. Has file system linkage audit been run on all the files listed in Step 26?

If **Yes**, go to Step 33.

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

32. Repeat from Step 26 for next file that has not been run.

33. STOP! YOU HAVE COMPLETED THIS PROCEDURE.

Update Backup Partition

1. At 3B20D 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 3B20D 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 3B20D APS MCRT ROP, determine which file system is running on 3B20D 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 database.

7. At 3B20D APS MCRT, enter message **EXC:QCOPY:TOBROOT!** to update broot database.

Note: The EXC command requires several minutes to complete.

Response: **REPT QCOPY DISK COPY COMPLETED**

8. Using 3B20D 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 database.

10. At 3B20D APS MCRT, enter message **EXC:QCOPY:TOROOT!** to update root database.

Note: The EXC command requires several minutes to complete.

Response: **REPT QCOPY DISK COPY COMPLETED**

11. Using 3B20D 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. Is this procedure being performed for NTP-015.

If **Yes**, go to Step 17.

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

14. At 3B20D APS MCRT, enter message **INH:RCV:OFF!**

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

15. Was printout received per the above response?

If **Yes**, go to Step 17.

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

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

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

Diagnose Standby Attached Processor Interface (API) Specifying Phase 91

1. At 1B Processor MTC terminal, enter message **DGN:API a:PH 91!**

where a = standby API member number (0 or 1).

Response: **DGN: API a PH 91 ATP MSG STARTED**
DGN: API a COMPLETED ATP MSG COMPL
TEST: API a - ATP
RST: API a STOPPED UNAVAILABLE FORCED

2. Were printouts 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 234-351-016; then repeat from Step 1.

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

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

Remove Switching Control Center (SCC) 0 or SCC 1 From Service

1. At 3B21D APS MCRT, enter message **RMV:SCC a!**
[where a = SCC number (0 or 1)].

Response: **RMV SCC a TASK x MESSAGE STARTED**
RMV SCC a COMPLETED

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. After resolving, repeat from Step 1.

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

Restore Switching Control Center (SCC) 0 or SCC 1 to Service

1. At 3B21D APS MCRT, enter message **RST:SCC a!**
[where a = SCC number (0 or 1)].

Response: **RST SCC a TASK x MESSAGE STARTED**
RST SCC a COMPLETED

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. After resolving, repeat from Step 1.

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

Restore Moving Head Disk (MHD) to Service

Note: This procedure can be used for restoring an MHD that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. MHD is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RST:MHD a!**

where a = MHD number being restored.

Response: **RST MHD a TASK x MESSAGE STARTED**
RMV MHD a STOPPED X'5
DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS
RST MHD a IN PROGRESS
DGN MHD a ATP MESSAGE COMPLETE
RST MHD a COMPLETED

3. Was printout received per the previous step?

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

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

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

Diagnose Standby Attached Processor Interface (API) Specifying Phase 91

1. At 1B Processor MTC terminal, enter message **DGN:API a:PH 91!**

where a = standby API member number (0 or 1).

Response: **DGN: API a PH 91 ATP MSG STARTED**
DGN: API a COMPLETED ATP MSG COMPL
TEST: API a - ATP
RST: API a STOPPED OOS DIAGNOSE

2. Were printouts 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 234-351-016; then repeat from Step 1.

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

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

Restore Power to Attached Processor Interface (API)

1. At standby API power switch, depress **ON** pushbutton.

Response: **PWR OFF** LED goes off

At 1B Processor MTC terminal,
REPT: PWR RSTD API a
message received

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 234-351-016; then repeat from Step 1.

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

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

Diagnose Standby Attached Processor Interface (API)

1. At 1B Processor MTC terminal, enter message **DGN:API a!**
where a = standby API member number (0 or 1).

Response: **RMV: API a COMPLETED**
DGN: API a COMPLETED ATP MSG COMPL
TEST: API a - ATP
RST: API a STOPPED OOS DIAGNOSE

2. Were printouts 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 234-351-016; then repeat from Step 1.

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

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

Restore Standby Attached Processor Interface (API) to Service Using Power Switch

1. At standby API power switch, rotate **ROS/OFF** switch counterclockwise to normal position.

Response: **ACK** LED lights momentarily
OS LED goes off
OFF NORM LED goes off

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 equipment problems using 234-351-016; then repeat from Step 1.

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

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

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

Note: This procedure can be used to restore power to either the 3B20D APS or 3B21D APS standby CU. You must be at the appropriate 3B APS when performing this procedure.

1. Power is being restored to standby CU on which APS?

If **3B20D APS**, go to Step 2.

If **3B21D APS**, go to Step 4.

2. At standby 3B APS CU power switch, depress **ON** pushbutton

Response: **OFF** LED goes off

On the 3B APS MCRT ROP:

REPT POWER RESTORED CU a

RMV CU a TASK x MESSAGE STARTED

RMV CU a COMPLETED

3. Were proper responses received per the previous step?

If **Yes**, go to Step 9.

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

4. At standby 3B21D APS CU power switch, operate **ST/ON/OFF** switch to **ST**.

Response: **OFF** LED goes off

On the 3B APS MCRT ROP:

REPT POWER RESTORED CU a

RMV CU a TASK x MESSAGE STARTED

RMV CU a COMPLETED

5. Were proper responses received per the previous step?

If **Yes**, go to Step 9.

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

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

If **Yes**, go to Step 8.

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

7. Clear diagnostic failure using one of the following documents:

- 3B20D APS Model 1 - 254-301-812 or 254-301-813
- 3B20D APS Model 2/3 - 254-302-831
- 3B21D APS - 254-303-106.

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

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

Restore Standby 3B20D APS Control Unit (CU) to Service Using Power Switch

Note: This procedure can be used for restore standby CU to service for either the 3B20D APS or 3B21D APS. You must be at the appropriate 3B APS when performing this procedure.

1. Standby CU is being restored at which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At standby 3B 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

3. Were proper responses received per the previous step?

If **Yes**, go to Step 7.

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

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

If **Yes**, go to Step 6.

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

5. Clear diagnostic failure using one of the following documents; then repeat from Step 1:

- 3B20D APS Model 1 - 254-301-812 or 254-301-813
- 3B20D APS Model 2/3 - 254-302-831
- 3B21D APS - 254-303-106.

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

7. STOP! YOU HAVE COMPLETED THIS PROCEDURE.

Diagnose Standby 3B20D APS Control Unit (CU) Specifying Channel 12 and Appropriate Phase

1. At 3B20D APS MCRT, enter message **DGN:CU a,CH 12:PH b!**

where a = CU number being diagnosed (0 or 1).
 b = **8** (for API 0) or **9** (for API 1).

Response: **DGN CU a CH 12 TASK x MESSAGE STARTED**
 RMV CU a COMPLETED
 DGN CU a CH 12 PH b COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 ATP MESSAGE COMPLETE

2. Were printouts received per the previous step?

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

3. At 3B20D APS MCRT, enter message **DGN:CU a,CH 12:PH b!** again.

where a = CU number being diagnosed (0 or 1).
 b = **8** (for API 0) or **9** (for API 1).

Response: **DGN CU a CH 12 TASK x MESSAGE STARTED**
 RMV CU a COMPLETED
 DGN CU a CH 12 PH b COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 ATP MESSAGE COMPLETE

4. Were printouts received per the previous step?

If **Yes**, go to Step 6.
If **No**, go to Step 5.

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

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

Diagnose Standby 3B20D APS Control Unit (CU) Specifying Channel 12 and Appropriate Phase

1. At 3B20D APS MCRT, enter message **DGN:CU a,CH 12:PH b!**

where a = CU number being diagnosed (0 or 1).
 b = **24** (for API 0) or **25** (for API 1).

Response: **DGN CU a CH 12 TASK x MESSAGE STARTED**
 RMV CU a COMPLETED
 DGN CU a CH 12 PH b COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 ATP MESSAGE COMPLETE

2. Were printouts received per the previous step?

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

3. At 3B20D APS MCRT, enter message **DGN:CU a,CH 12:PH b!** again.

where a = CU number being diagnosed (0 or 1).
 b = **24** (for API 0) or **25** (for API 1).

Response: **DGN CU a CH 12 TASK x MESSAGE STARTED**
 RMV CU a COMPLETED
 DGN CU a CH 12 PH b COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 COMPLETED ATP MESSAGE IN PROGRESS
 DGN CU a CH 12 ATP MESSAGE COMPLETE

4. Were printouts received per the previous step?

If **Yes**, go to Step 6.
If **No**, go to Step 5.

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

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

Change Major State for UN375 MHD 9 to UNQIP

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/uneqmhd9.sh"

Response: **REPT MHD 9 IN GROWTH STATE
REPT MHD 9 IN UNEQUIPPED
REPT DEGROWTH MHD 9 COMPLETED
REPT UNEQMHD9.SH COMPLETED SUCCESSFULLY
EXC ENVIR UPROC /tools/3b21/uneqmhd9.sh COMPLETED**

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.**

Restore DFC 1 Controller to Service

Note: This procedure can be used for restoring DFC 1 controller that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. DFC 1 controller is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RST:DFC 1:CONT!**

Response: **RST DFC 1 TASK x MESSAGE STARTED
RMV DFC 1 STOPPED X'5
DGN DFC 1 COMPLETED ATP MESSAGE IN PROGRESS
DGN DFC 1 ATP MESSAGE COMPLETE
RST DFC 1 IN PROGRESS
RST DFC 1 COMPLETED
REPT DFC 1 AUTO PUMP STARTED
REPT DFC 1 AUTO PUMP COMPLETED**

3. Was printout received per the previous step?

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

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

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

Diagnose DLN (LN00 2, LN00 7, LN32 2, or LN32 7)

Note: This procedure can be used for diagnosing a DLN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. DLN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:LNaa b!**

where aa = CNI ring node cabinet number (00 or 32)
 b = DLN number (2 or 7).

Response: **DGN LNaa b TASK x MESSAGE STARTED**
RING RMV LNaa b COMPLETED

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN LNaa b COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN LNaa b ATP MESSAGE COMPLETE

3. Was printout received per the previous step?

If **Yes**, go to Step 7.
If **No**, go to Step 4.

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

If **Yes**, go to Step 6.
If **No**, go to Step 5.

5. Clear equipment problems using 234-351-120; then repeat from Step 1.
6. Refer trouble to installer for resolution; then repeat from Step 1.
7. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Restore Standby Attached Processor Interface (API) to Service Unconditionally

1. At 1B Processor MTC terminal, enter message **RST:API a;UCL!**
where a = standby API member number (0 or 1).

Response: **RST: API a COMPLETED**

2. Was printout 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 234-351-016; then repeat from Step 1.

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

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

Diagnose RPCN00 0 or RPCN32 0

Note: This procedure can be used for diagnosing RPCN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:RPCNaa 0!**

[where aa = CNI ring node cabinet number (00 or 32)].

Note: Diagnostic will take approximately 10 minutes to complete.

Response: **DGN RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 STOPPED 5

RING REPT RING CFR *

RING CONFIGURATION ESTABLISHED (nnn ms) *

BISO NODE = LNxx xx, EISO NODE = LNxx xx *

DGN RPCNaa 0 COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR *

RING CONFIGURATION ESTABLISHED (nnn ms) *

NORMAL CONFIGURATION, NO NODES ISOLATED *

DGN RPCNaa 0 ATP MESSAGE COMPLETE

* These messages may not be received.

3. Was printout received per the previous step?

If **Yes**, go to Step 7.

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

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

If **Yes**, go to Step 6.

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

5. Clear equipment problems using 234-351-120; then repeat from Step 1.
6. Refer trouble to installer for resolution; then repeat from Step 1.
7. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Change RPCN00 0 or RPCN32 0 to Isolated

Note: This procedure can be used for isolate RPCN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message

CFR:RING,RPCNaa 0;EXCLUDE!

[Where aa = CNI ring node cabinet number (00 or 32)] to isolate RPCN00 0 or RPCN32 0.

Response: **RING REPT RING CFR**
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx
RING CFR RING RPCNaa 0 COMPL

3. Were printouts received per the previous step?

If **Yes**, go to Step 5.

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

4. Clear equipment problems using 234-351-120; then repeat from Step 1.

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

Restore RPCN00 0 or RPCN32 0 to Service Unconditionally

Note: This procedure can be used for restoring RPCN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RST:RPCNaa 0;UCL!**
[where aa = CNI ring node cabinet number (00 or 32)].

Response: **RST RPCNaa 0 TASK x MESSAGE STARTED**

RING REPT RING CFR *

RING CONFIGURATION ESTABLISHED (nnn ms) *

NORMAL CONFIGURATION, NO NODES ISOLATED *

RING RST RPCNaa 0 COMPLETED

* These messages may not be received.

3. Was printout received per the previous step?

If **Yes**, go to Step 7.

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

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

If **Yes**, go to Step 6.

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

5. Clear equipment problems using 234-351-120; then repeat from Step 1.

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

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

Restore DLN (LN00 2, LN00 7, LN32 2, or LN32 7) to Service Unconditionally

Note: This procedure can be used for restoring a DLN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. DLN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RST:LNaa b;UCL!**

where aa = CNL ring node cabinet number (00 or 32)
 b = DLN number (2 or 7).

Caution: *It is imperative that all of the following messages are received. There is a possibility that blocked calls could occur if the DLN is not pumped properly.*

Response: **RST LNaa b TASK x MESSAGE STARTED**

RING REPT RING CFR *

RING CONFIGURATION ESTABLISHED (nnn ms) *

NORMAL CONFIGURATION, NO NODES ISOLATED *

REPT DLNCM LNaa-b ON-LINE (X'00000000)

REPT DLNCM PROC (Pump) LNaa-b PUMP STARTED

RING RST LNaa b COMPLETED

**REPT DLNCM PROC (Pump) LNaa-b nnn (nnn) BINKS PUMPED IN nnn
MSEC**

*** These messages may not be received.**

3. Was printout received per the previous step?

If **Yes**, go to Step 7.

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.**

Change DLN (LN00 2, LN00 7, LN32 2, or LN32 7) to Isolated

Note: This procedure can be used for changing a DLN to isolated that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. DLN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message
CFR:RING,LNaa b;EXCLUDE! to isolate DLN.

where aa = CNI ring node cabinet number (00 or 32)
b = DLN number.

Response: **RING REPT RING CFR**
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = a, EISO NODE = LNaa b
RING CFR RING LNaa b COMPL

3. Were printouts received per the previous step?

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

4. Clear equipment problems using 234-351-120; then repeat from Step 1.

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

Restore Attached Processor Interface (API) to Service Unconditionally

1. At 1B Processor MTC terminal, enter message **RST:API 0;UCL!**

Response: **RST: API 0 COMPLETED**

2. Was printout received per the previous step?

If **Yes**, go to Step 9.

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

3. At 1B Processor MTC terminal, enter message **RST:API 1;UCL!**

Response: **RST: API 1 COMPLETED**

4. Was printout received per the previous step?

If **Yes**, go to Step 9.

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

5. Determine if back out to the 3B20D APS is required.

6. Is back out to the 3B20D APS required?

If **Yes**, go to Step 8.

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

7. Clear diagnostic failure using 234-351-016; then repeat from Step 1.

8. Back out to the 3B20D APS using DLP-539.

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

Restore SCSI Bus (SBUS) 1 Controller to Service

Note: This procedure can be used for restoring SBUS 1 controller that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. SBUS 1 controller is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RST:SBUS 1:CONT!**

Response: **RST SBUS 1 TASK x MESSAGE STARTED**
RMV SBUS 1 STOPPED X'5
RST SBUS 1 IN PROGRESS
RST SBUS 1 COMPLETED

3. Was printout received per the previous step?

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

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

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

Change Major State for UN375 MHD 9 to OOS

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/eqmhd9.sh"

Response: **REPT MHD 9 IN GROWTH STATE
REPT GROWTH MHD 9 COMPLETED
REPT MHD 9 OUT OF SERVICE
REPT EQMHD9.SH COMPLETED SUCCESSFULLY
EXC ENVIR UPROC /tools/3b21/eqmhd9.sh COMPLETED**

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.**

Remove SCSI Bus (SBUS) 1 From Service

Note: This procedure can be used for removing SBUS 1 that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. SBUS 1 is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RMV:SBUS 1!**

Response: **RMV SBUS 1 TASK x MESSAGE STARTED**
RMV MHD a COMPLETED
(message received for each MHD on SBUS 1)
RMV MT 1 COMPLETED (3B21D APS only)
RMV SBUS 1 COMPLETED
REPT DIOP SIMPLEX PROCESSING COMPLETED *

* Only received if running duplex.

3. Was printout received per the previous step?

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

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

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

Restore SCSI Bus (SBUS) 1 to Service

Note: This procedure can be used for diagnosing SIN/EIN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. SIN/EIN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RST:SBUS 1!**

Response: **RST SBUS 1 TASK x MESSAGE STARTED**
RMV SBUS 1 STOPPED X'5
RST SBUS 1 IN PROGRESS
RST SBUS 1 COMPLETED
DGN MHD a COMPLETED ATP MESSAGE IN PROGRESS
RST MHD a IN PROGRESS
RST MHD a COMPLETED
(above messages received for each MHD on SBUS 1)
REPT DIOP DUPLEX PROCESSING COMPLETED
DGN MT 1 COMPLETED ATP MESSAGE IN PROGRESS (3B21D APS only)
DGN SBUS 1 ATP MESSAGE COMPLETE
(above DGN SBUS 1 message will fail if MHD 9 fails)
RST MT 1 IN PROGRESS (3B21D APS only)
RST MT 1 COMPLETED (3B21D APS only).

3. Was printout received per the previous step?

If **Yes**, go to Step 5.

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

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

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

Copy 3B20D APS 4AP16 Generic to MHD 9

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/cpgen.sh"

Note: Copy will take approximately 15 minutes to complete.

Response:

On the 3B20D APS ROP
REPT DKDRV INFO CODE X'25c
REPT cpgen.sh - Copy 4AP<16>XX.RY from root to root9 STARTING DATE: Month Day, Year
REPT MIRA NOTHING TO STOP NO UNITS QUEUED
STOP DMQ COMPLETED
STOP:DMQ! PF
RMV:MHD 9;UCL! PF *
RMV MHD 9 TASK x MESSAGE STARTED *
RMV MHD 9 COMPLETED *
REPT DKDRV INFO CODE X'537
RST:MHD 9! PF
RST MHD 9 TASK x MESSAGE STARTED
REPT cpgen.sh - Copy 4AP<16>XX.RY from root to root9 COMPLETE DATE: Month Day, Year
RMV MHD 9 STOPPED X'5

* May not be received.

(Output messages continued on next page.)

Response: (continued)

In addition, the following information will be printed to the ROP when the program is completed.

```
***** cpngen.sh's Log File      DATE: Month Day, Year HH:MM:SS      cpngen.sh root to
root9 -p cpngen.sh DATE: Month Day, YEAR HH:MM:SS
REPT cpngen.sh - Copy 4AP<16>XX.R1 from root to root9 STARTING DATE: Month Day, Year
HH:MM:SS
copy'g /dev/vtoc to /tmp/dkdx 2 blocks start 0
copy'g /dev/lboot to /tmp/dkdx 237 blocks start 2
copy'g /dev/lboot21 to /tmp/dkdx 600 blocks start 239
copy'g /dev/bboot to /tmp/dkdx 82 blocks start 921
copy'g /dev/boot to /tmp/dkdx 82 blocks start 839
copy'g /dev/root to /tmp/dkdx 195000 blocks start 31003
copy'g /dev/etc to /tmp/dkdx 5000 blocks start 473503
copy'g /dev/tdas to /tmp/dkdx 60000 blocks start 946720
copy'g /dev/tlp to /tmp/dkdx 23000 blocks start 1134324
copy'g /dev/db to /tmp/dkdx 20000 blocks start 513503
copy'g /dev/appdb0 to /tmp/dkdx 32768 blocks start 1016020
copy'g /dev/appdb1 to /tmp/dkdx 32768 blocks start 1048788
copy'g /dev/amafiles to /tmp/dkdx 500 blocks start 1015020
copy'g /dev/amabfiles to /tmp/dkdx 500 blocks start 1015520
copy'g /dev/update to /tmp/dkdx 40000 blocks start 429003
copy'g /dev/gttx to /tmp/dkdx 20000 blocks start 1114324
copy'g /dev/bwm to /tmp/dkdx 30000 blocks start 483503
REPT cpngen.sh - Copy 4AP<16>XX.RY from root to root9 COMPLETE DATE: Month Day, Year
REPT cpngen.sh - COMPLETED CODE 0
EXC ENVIR UPROC /tools/3b21/cpgen.sh COMPLETED
DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS
RST MHD 9 IN PROGRESS
RST MHD 9 COMPLETED
DGN MHD 9 ATP MESSAGE COMPLETED
```

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 4E23 1afile to MHD 9

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/cp1afile.sh"

Note: Copying 1afile will take approximately 15 minutes to complete.

Response:

REPT cp1afile.sh - Copy 4E<23>XX.XX RX from 1afileX to 1afile09 & 1afile19 STARTING DATE:
Month Day, Year HH:MM:SS

REPT MIRA NOTHING TO STOP NO UNITS QUEUED
STOP DMQ COMPLETED
STOP:DMQ! PF

REPT cp1afile.sh - Copy 4E<23>XX.XX RX from 1afileX to 1afile09 & 1afile19 COMPLETE
DATE: Month Day, Year HH:MM:SS

In addition, the following information will be printed to the ROP when the program is completed.

******* cp1afile.sh's Log File DATE: Month Day, Year HH:MM:SS *******

cp1afile.sh 1afile1 to 1afile09 -1b -p cp1afile.sh DATE: Month Day, Year HH:MM:SS

REPT cp1afile.sh - Copy 4E<23>XX.XX RX from 1afile1 to 1afile09 & 1afile19
STARTING DATE: Month Day, Year HH:MM:SS

copy'g /dev/1afileX to /dev/1afile09 196608 blks starting at 553503

copy'g /dev/1afileX to /dev/1afile19 196608 blks start 750111

REPT cp1afile.sh - Copy 4E<23>XX.XX RX from 1afileX to 1afile09 & 1afile19
COMPLETE DATE: Month Day, Year HH:MM:SS

Saving all 3B20D Log files to MHD 9

copy'g /dev/log to /dev/log9 8300

REPT cp1afile.sh - COMPLETED CODE 0

EXC ENVIR UPROC /tools/3b21/cp1afile.sh COMPLETED

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.**

Back Out to the 3B20D APS

Caution: The following steps are performed to boot back to the 3B20D APS which was halted during the boot to the 3B21D APS. It is assumed that the boot, the analysis of office performance, or moving of application data links has failed and recovery was not possible or successful. Any equipment (SCSD, application data links, and so on) that were moved prior to the decision to back out to the 3B20D APS must be moved back to the 3B20D APS when the boot is complete.

Caution: This procedure must only be performed as directed by your next higher support organization.

1. At 3B21D APS MCRT, depress **EA DISP (PF1)** key to obtain the EAI Page.
2. At 3B21D APS MCRT, enter **12** in command mode to force active CU on-line.
Response: **FONL** displayed for active CU.
3. At 3B21D APS MCRT, enter **24** in command mode to inhibit sanity timer.
Response: **Inhibit Sanity Timer? (y/n)**
4. At 3B21D APS MCRT, enter **y** in command mode to confirm sanity timer inhibit.
5. At 3B21D APS MCRT, determine which CU is set to **FONL**.
6. At 3B21D APS MCRT, was CU 0 set to **FONL**?
If **Yes**, go to Step 7.
If **No** (CU 1 set to **FONL**, go to Step 9.
7. At 3B21D APS MCRT, enter **11**.
8. Go to Step 10.

9. At 3B21D APS MCRT, enter **10**.

Caution: The following Step halts the 3B21D APS. The steps after halting the 3B21D APS must be done accurately and quickly in the sequence shown to assure the boot and timely initialization of the 3B20D APS.

10. At 3B21D APS MCRT, enter **y** to force CU a on-line.

11. Immediately after receiving the following messages, at the Remote Access Interface Panel, operate the key switch to **3B20** position and continue to the next step:

**CU-1 FONL and
PRM F500 E535 0100 0055**

12. At 3B20D APS MCRT, depress **EA DISP (PF1)** key to obtain the EAI Page.

13. At 3B20D APS MCRT, enter **10** in command mode to force CU 0 on-line.

14. At 3B20D APS MCRT, is **Force CU On-Line? (y/n)** received?

If **Yes**, go to Step 15.

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

15. At 3B20D APS MCRT, enter **y** to force CU 0 on-line.

16. At 3B20D APS MCRT, enter **25** in command mode to allow sanity timer.

17. At 3B20D APS MCRT, enter **54** in command mode to boot the 3B20D APS.

18. At 3B20D APS MCRT, is **Boot? (y/n)** received?

If **Yes**, go to Step 19.

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

19. At 3B20D APS MCRT, enter **y** in command mode to confirm the boot.

20. One or more **START OF CU RECOVERY** messages will be printed. Several processor recover messages (PRMs) will follow. If no errors are present, between 1 and 3 pages of PRMs will print at the ROP. See below for Failure/Success indication (continue with next step):

FAILURE:

FAILURE:.....Failing PRMs (**PRM 0 Fx3x**) or additional "START OF CU RECOVERY" messages indicate the boot attempt is failing.

Respond by first forcing CU 1 on-line with Secondary Disk access and rebooting as directed by next higher support organization. See Steps 22 through 29.

SUCCESS:

Monitor the 3B20D until system is stable. Check for passing RTR and application PRMs. Note presence of the following message at the 3B20D ROP:

RCVRY CU 0 COMPLETED

21. At 3B20D APS MCRT, monitor the system until the boot process is complete (Post Mortem is printed at the 3B20D APS ROP). Check the ROP output error type messages. Go immediately to the next step if a failure occurs. The application processes should also be verified at this time (for example: application units in service, verify call processing, and so on).

22. Did a Failure occur?

If **Yes**, go to Step 23.
If **No**, go to Step 30.

23. At 3B20D APS MCRT, enter **22**

24. At 3B20D APS MCRT, enter **11** (CU 1 FONL)

25. Is **Force CU On-Line?** (y/n) received?

If **Yes**, go to Step 26.

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

26. At 3B20D APS MCRT, enter **y**

27. At 3B20D APS MCRT, monitor the system until the boot process is complete (Post Mortem is printed at the 3B20D APS ROP). Check the ROP output error type messages. Go immediately to the next step if a failure occurs. The application processes should also be verified at this time (for example: application units in service, verify call processing, and so on).

28. Did the boot fail again?

If **Yes**, go to Step 29.

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

29. Contact next higher support organization for direction.

30. At 3B20D APS MCRT, on EAI Page, enter **13** in command mode to clear forces.

Response: **REPT CU a NO LONGER FORCED ONLINE**

31. At 3B20D APS MCRT, enter message **OP:OOS:CU!** and determine which CU is listed (out-of-service).

32. After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.

33. At 3B20D APS MCRT, restore out-of-service CU, determined earlier, to service using DLP-540 (**RST:CU a!**).

Note: Restore will take approximately 30 minutes to complete.

34. At 1B Processor MTC terminal, enter message **CLR:APS 0;DPLXFAIL!** to clear duplex APIs.

Response: **OK**

35. At 1B Processor MCC terminal, enter **118** to obtain the 1B Processor Status Display Page.

36. At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine if both APIs are out of service.

37. If both APIs are out of service, at 1B Processor MTC terminal, restore API 0 to service unconditionally using DLP-526 (**RST:API 0;UCL!**).

38. At 1B Processor MTC terminal, enter message
ALW:AUDMSG:NUM 19! to allow audit message 19.

39. At 1B Processor MTC terminal, enter message **ALW:MACLI,CLASS MTCE!** to allow REX.

40. At 3B20D APS MCRT, enter message **INH:RCV:OFF!**

Response: **4ESS INH RCV COMPL**
RECENT CHANGE INHIBIT OFF

41. At 3B20D APS MCRT, enter 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)

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

43. At 1B Processor MCC terminal, enter **801** (**801 - RESTRICT RC** colored white on black).

Response: **ALW:RC MSG, MOC RESTRICTION RMVD.**

Note: The following steps are being performed to bring the 3B21D APS back up on broot for trouble shooting purposes.

44. At 3B21D APS MCRT, enter **30** to set **Backup-Root**.
45. At 3B21D APS MCRT, ensure **SET** is highlighted for **Backup-Root**.
46. At 3B21D APS MCRT, enter **33** to clear **Min-Config**.
47. At 3B21D APS MCRT, ensure **SET** is not highlighted for **Min-Config**.
48. At 3B21D APS MCRT, enter **10** in command mode to force CU 0 on-line.
Response: **Force CU On-Line? (y/n)**
49. At 3B21D APS MCRT, enter **y** to force CU 0 on-line.
50. At 3B21D APS MCRT, enter **25** in command mode to allow sanity timer.
51. At 3B21D APS MCRT, enter **54** in command mode to boot the 3B21D APS.
52. At 3B21D APS MCRT, enter **y** in command mode to confirm the boot.

53. One or more **START OF CU RECOVERY** messages will be printed. Several processor recover messages (PRMs) will follow. If no errors are present, between 1 and 3 pages of PRMs will print at the ROP. See below for Failure/Success indication (continue with next step):

FAILURE:

FAILURE:.....Failing PRMs (**PRM 0 Fx3x**) or additional "START OF CU RECOVERY" messages indicate the boot attempt is failing.

Respond by first forcing CU 1 on-line with Primary Disk access and rebooting as directed by next higher support organization. See Steps 55 through 61.

SUCCESS:

Monitor the 3B21D until system is stable. Check for passing RTR and application PRMs. Note presence of the following message at the 3B21D ROP:

RCVRY CU 0 COMPLETED

54. At 3B21D APS MCRT, monitor the system until the boot process is complete (Post Mortem is printed at the 3B21D APS ROP). Check the ROP output error type messages. Go immediately to the next step if a failure occurs. The application processes should also be verified at this time (for example: application units in service, verify call processing, and so on).

55. Did a Failure occur?

If **Yes**, go to Step 56.
If **No**, go to Step 62.

56. At 3B21D APS MCRT, enter **20**

57. At 3B21D APS MCRT, enter **11** (CU 1 FONL)

Response: **Force CU On-Line? (y/n)**

58. At 3B21D APS MCRT, enter **y**

59. At 3B21D APS MCRT, monitor the system until the boot process is complete (Post Mortem is printed at the 3B21D APS ROP). Check the ROP output error type messages. Go immediately to the next step if a failure occurs. The application processes should also be verified at this time (for example: application units in service, verify call processing, and so on).

60. Did the boot fail again?

If **Yes**, go to Step 61.

If **No**, go to Step 62.

61. Contact next higher support organization for direction.

62. At 3B21D APS MCRT, on EAI Page, enter **13** in command mode to clear forces.

Response: **REPT CU a NO LONGER FORCED ONLINE**

63. At 3B20D APS MCRT, enter message **OP:OOS:CU!** and determine which CU is listed (out-of-service).

64. After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.

65. At 3B20D APS MCRT, restore out-of-service CU, determined earlier, to service using DLP-540 (**RST:CU a!**).

Note: Restore will take approximately 30 minutes to complete.

66. Were any cables moved from the 3B20D APS to the 3B21D APS?

If **Yes**, go to Step 67.

If **No**, go to Step 68.

67. All cables must be moved back to the 3B20D APS at this time. While cables are being moved, continue with the next step.

68. Determine why the boot to the 3B21D APS was not successful. After resolving, go to the next step.

69. Request the installer to load the 3B21D APS disk from tape (LDFT procedure).

Note: The following step will require a whole shift to complete.

70. Repeat NTP-011, NTP-012, and NTP-013.

71. STOP! YOU HAVE COMPLETED THIS PROCEDURE.

Restore Control Unit (CU) 1 to Service

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

Response: **DGN CU 1 ATP MESSAGE COMPLETE**
RST CU 1 COMPLETED

2. Was response 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.**

Run TDAS Audit

1. At 3B21D APS MCRT, enter message **AUD:TDAS 1!** to run the TDAS audit.

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

2. Using 3B21D APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

If **Yes**, go to Step 3.

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

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

3. At 3B21D APS MCRT, enter message **AUD:TDAS 1;CORR!** to run the audit again specifying the Correction (CORR) mode.
4. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.
5. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Run NIDATA Audits

Note: This procedure can be used for running either the 3B20D APS or 3B21D APS NIDATA audits. You must use the proper 3B MCRT when performing this procedure.

1. NIDATA audits are being run on which APS?

If **3B20D APS**, enter all messages on the 3B20D MCRT.
If **3B21D APS**, enter all messages on the 3B21D MCRT.

2. At 3B APS MCRT, enter message
AUD:NIDATA 1;SUM! to run the NIDATA 1 audit.

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

3. Using 3B APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

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

4. Contact your next higher support organization for resolution. Continue at the next step when resolved.

5. At 3B APS MCRT, enter message
AUD:NIDATA 2;SUM! to run the NIDATA 2 audit.

Response: AUD ENV=RTR NIDATA 2 COMPLETED
 x ERRORS FOUND
 x ERRORS CORRECTED
 (where x is the number of errors).

6. Using 3B APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

If **Yes**, go to Step 7.

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

7. Contact your next higher support organization for resolution. Continue at the next step when resolved.

8. At 3B APS MCRT, enter message
AUD:NIDATA 4;SUM! to run the NIDATA 4 audit.

Response: AUD ENV=RTR NIDATA 4 COMPLETED
 x ERRORS FOUND
 x ERRORS CORRECTED
 (where x is the number of errors).

9. Using 3B APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

If **Yes**, go to Step 10.

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

10. Contact your next higher support organization for resolution. Continue at the next step when resolved.

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

Update the Disk Copy of the 1ASTAT File

1. At 3B21D APS MCRT, enter message
AUD:APDRV 3,INS"STATFLAGS"! to update the disk copy of the 1ASTAT file.

Note: STATFLAGS must be typed in all capital letters.

Response: AUD ENV=RTR APDRV 3 STATFLAGS COMPLETED
 x ERRORS FOUND
 x ERRORS CORRECTED
 (where x is the number of errors).

2. Using 3B21D APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

If **Yes**, go to Step 3.
If **No**, go to Step 4.
3. Contact your next higher support organization for resolution. Continue at the next step when resolved.
4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Remove Synchronous Data Linc 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.**

Remove TTY Controller (TTYC) From Service

1. At 3B21D APS MCRT, enter message **RMV:TTYC a!**
where a = TTYC member number.

Response: **RMV TTYC 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 TTY Controller (TTYC) to Service

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

where a = TTYC member number.

Response: **RST TTYC a COMPLETED**

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.**

Diagnose RPCN (RPCN00 0 or RPCN32 0) Specifying CU 0 or 1 and Phase 14

Note: This procedure can be used for diagnosing RPCN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:RPCNaa 0:PH 14:CU b!**

where aa = RPCN node cabinet number (00 or 32)
 b = CU helper number (0 or 1).

Response: **DGN RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 STOPPED 5

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN RPCNaa 0 PH 14 ATP MESSAGE IN PROGRESS
DGN RPCNaa 0 COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN RPCNaa 0 ATP MESSAGE COMPLETE

3. Were printouts received per the previous step?

If **Yes**, go to Step 9.

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

4. At 3B APS MCRT, enter message **DGN:RPCNaa 0:PH 14:CU b!** again

where aa = RPCN node cabinet number (00 or 32)
 b = CU helper number (0 or 1).

Response: **DGN RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 STOPPED 5

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN RPCNaa 0 PH 14 ATP MESSAGE IN PROGRESS
DGN RPCNaa 0 COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN RPCNaa 0 ATP MESSAGE COMPLETE

5. Were printouts received per the previous step?

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

6. Is failure a result of a TELCO/INST instruction

If **Yes**, go to Step 8.
If **No**, go to Step 7.

7. Clear diagnostic failure using 234-351-120; then repeat from Step 1.

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

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

Diagnose DLN (LN00 2, LN00 7, LN32 2, or LN32 7) Specifying CU 0 or 1 and Phase 34

Note: This procedure can be used for diagnosing a DLN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. DLN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:LNaa b:PH 34:CU c!**

where aa = Link node cabinet number (00 or 32)
 b = DLN being diagnosed (2 or 7)
 c = CU helper number (0 or 1).

Response: **DGN LNaa b TASK x MESSAGE STARTED**
RING RMV LNaa b STOPPED 5

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN LNaa b PH 34 ATP MESSAGE IN PROGRESS
DGN LNaa b COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN LNaa b ATP MESSAGE COMPLETE

3. Were printouts received per the previous step?

If **Yes**, go to Step 9.

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

4. At 3B APS MCRT, enter message **DGN:LNaa b:PH 34:CU c!** again

where aa = Link node cabinet number (00 or 32)
 b = DLN being diagnosed (2 or 7)
 c = CU helper number (0 or 1).

Response: **DGN LNaa b TASK x MESSAGE STARTED**
RING RMV LNaa b STOPPED 5

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN LNaa b PH 34 ATP MESSAGE IN PROGRESS
DGN LNaa b COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN LNaa b ATP MESSAGE COMPLETE

5. Were printouts received per the previous step?

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

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

If **Yes**, go to Step 8.
If **No**, go to Step 7.

7. Clear diagnostic failure using 234-351-120; then repeat from Step 1.

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

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

Update 3B21D APS broot Partition

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
.
.

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

6. Is file system running root?

Yes, go to Step 8.
No, go to Step 7.

7. Contact next higher support organization for resolution. File system must be running on root.

Note: Steps 4 through 6 are being performed to update broot database.

8. At 3B21D APS MCRT, enter message **EXC:QCOPY:TOBROOT!** to update broot database.

Note: The EXC command requires several minutes to complete.

Response: **REPT QCOPY DISK COPY COMPLETED**

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

If **Yes**, go to Step 11.

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

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

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

Response: **INH RCV COMPLETED**

4ESS INH RCV COMPL

RECENT CHANGE INHIBIT OFF

12. Was printout received per the above response?

If **Yes**, go to Step 14.

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

13. Determine cause and resolve; repeat from Step 11.

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

Run 3B21D APS File System Audits To Ensure No File System Errors

1. 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).

2. Using 3B21D APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

If **Yes**, go to Step 3.

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

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

3. At 3B21D APS MCRT, enter message **AUD:FSBLK 1,INS"a";CORR!** to run the audit again specifying the Correction (CORR) mode
4. If errors persist, contact your support organization for resolution. Continue at the next step when resolved.
5. Has file system block audit been run on all the files listed in Step 1.

If **Yes**, go to Step 7.
If **No**, go to Step 6.
6. Repeat from Step 1 for the next file that has not been run

7. At 3B21D APS MCRT, enter message **AUD:FSLINK 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 FSLINK 1 /dev/broot COMPLETED
 x ERRORS FOUND
 x ERRORS CORRECTED
 (where x is the number of errors).

8. Using 3B21D APS MCRT ROP, is the number of errors found greater than the number of errors corrected?

If **Yes**, go to Step 9.

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

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

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

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

11. Has file system block audit been run on all the files listed in Step 7.

If **Yes**, go to Step 13.

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

12. Repeat from Step 7 for the next file that has not been run

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

Flush 3B20D APS AMA Data

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/flushama",ARGS"STOPAMA"

Response:

REPT FLUSHAMA - STOPPING AMA RECEIVER

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.**

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-554].
2. 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

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

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 5.

5. At 3B21D APS MCRT, enter message
COPY:BKDISK;START:SRC"/dev/vtoc",TD"/dev/mtX0",TPSIZE 90,COM!
[where X = DAT unit number with backup tape inserted (0 or 1)].

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

6. Was printout received per the previous step?

If **Yes**, go to Step 8.

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

7. Determine cause and resolve; repeat from Step 5.

8. Remove tape from DAT unit using DLP-555, label the tape **rt0 1**, and put write-protect tab in the down (locked) position.

9. 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-554].

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

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

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 9.

13. Remove tape from DAT unit using DLP-555, label the tape **db**, and put write-protect tab in the down (locked) position.

14. **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.

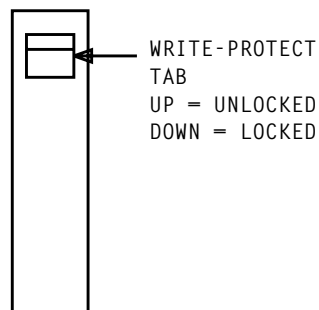


Figure 1. 4-mm Tape

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.

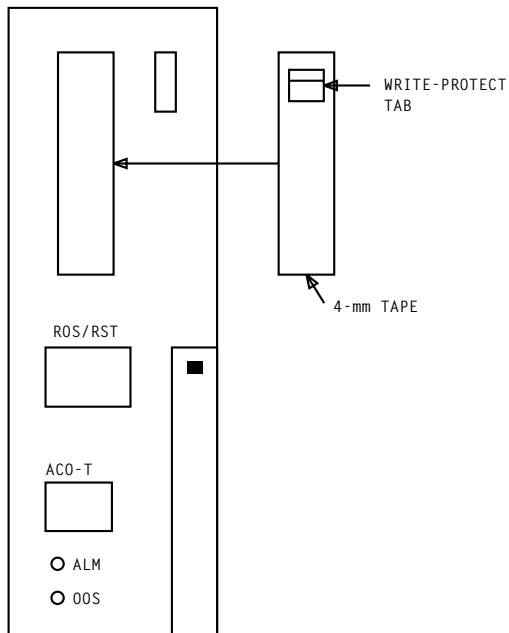


Figure 2. DAT Unit with 4-mm Tape

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.

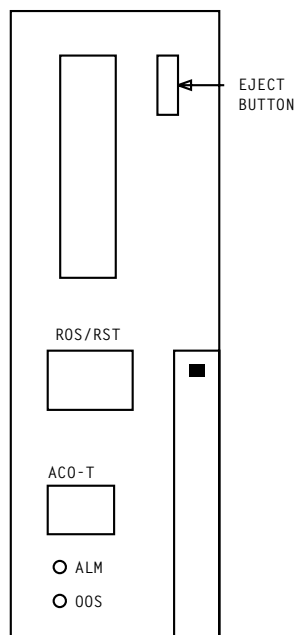


Figure 1. DAT Unit

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.

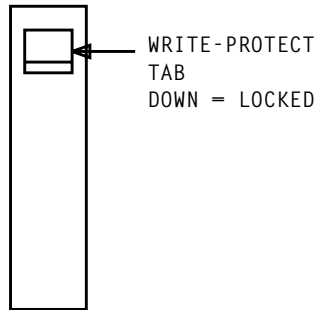


Figure 2. DAT Unit

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

Verify 3B21D APS Backup Tapes

1. Insert one 3B21D APS backup tape on available DAT unit using DLP-554.

2. At 3B21D APS MCRT, enter message

VFY:TAPE,TD"/dev/mtX0"!

[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-555.

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.**

Diagnose Standby 3B21D APS Control Unit (CU) Specifying Appropriate Channel and Phase 10

1. At 3B21D APS MCRT, enter message **DGN:CU a,CH b:PH 10!**

where a = CU number being diagnosed (0 or 1).
 b = **16** (for API 0) or **18** (for API 1).

Response: **DGN CU a TASK x MESSAGE STARTED**
 RMV CU a COMPLETED
 DGN CU a COMPLETED CH b PH 10 ATP MSG IN PROGRESS
 DGN CU a COMPLETED CH b COMPLETED ATP MSG IN PROGRESS
 DGN CU a PH 10 ATP MESSAGE COMPLETE
 RST CU 0 STOPPED UNAVAILABLE FORCED

2. Were printouts 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.**

Diagnose Standby 3B21D APS Control Unit (CU) Specifying Appropriate Channel and Phase 20

1. At 3B21D APS MCRT, enter message **DGN:CU a,CH b:PH 20!**

where a = CU number being diagnosed (0 or 1).
 b = **16** (for API 0) or **18** (for API 1).

Response: **DGN CU a TASK x MESSAGE STARTED**
RMV CU a COMPLETED
DGN CU a COMPLETED CH b PH 20 ATP MSG IN PROGRESS
DGN CU a COMPLETED CH b COMPLETED ATP MSG IN PROGRESS
DGN CU a PH 20 ATP MESSAGE COMPLETE
RST CU 0 STOPPED UNAVAILABLE FORCED

2. Were printouts 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.**

Diagnose Standby Attached Processor Interface (API)

1. At 1B Processor MTC terminal, enter message **DGN:API a!**
where a = standby API member number (0 or 1).

Response: **DGN: API a COMPLETED CATP (40000000 00000000) MSG COMPL**
TEST: API a ATP
RST: API a STOPPED UNAVAILABLE FORCED

2. Were printouts 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 234-351-016; then repeat from Step 1.

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

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

Diagnose Moving Head Disk (MHD) 9

1. At 3B20D APS MCRT, enter message **DGN:MHD 9!**

Response: **DGN MHD 9 TASK x MESSAGE STARTED**
RMV MHD 9 STOPPED X'5
DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS
DGN MHD 9 ATP MESSAGE COMPLETE

2. Was printout received per the previous step?

If **Yes**, go to Step 5.

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.**

Restore Attached Processor Interface (API) to Service

1. At 1B Processor MTC terminal, enter message **RST:API a!**
where a = standby API member number (0 or 1).

Response: **RMV: API a COMPLETED**
DGN: API a COMPLETED ATP MSG COMPL
TEST: API a - ATP
RST: API a COMPLETED

2. Were printouts 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 234-351-016; then repeat from Step 1.

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

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

Diagnose RPCN00 0 or RPCN32 0

Note: This procedure can be used for diagnosing RPCN00 0 or RPCN32 0 that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN00 0 or RPCN32 0 is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:RPCNaa 0!**

[where aa = CNI ring node cabinet number (00 or 32)].

Response: **DGN RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 COMPLETED

RING RMV RPC STAT ALM
WARNING: ONLY ONE ACTIVE RPC REMAINING

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN RPCNaa 0 COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN RPCNaa 0 ATP MESSAGE COMPLETE

3. Was printout received per the previous step?

If **Yes**, go to Step 7.

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

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

If **Yes**, go to Step 6.

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

5. Clear equipment problems using 234-351-120; then repeat from Step 1.
6. Refer trouble to installer for resolution; then repeat from Step 1.
7. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Diagnose RPCN00 0 or RPCN32 0 Specifying CU 0 or 1 and Phase 14

Note: This procedure can be used for diagnosing RPCN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:RPCNaa 0:PH 14:CU b!**

where aa = RPCN node cabinet number (00 or 32)
 b = CU helper number (0 or 1).

Response: **DGN RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 STOPPED 5
RING REPT RING CFR *
RING CONFIGURATION ESTABLISHED (nnn ms) *
BISO NODE = LNxx xx, EISO NODE = LNxx xx *
DGN RPCNaa 0 PH 14 ATP MESSAGE IN PROGRESS
DGN RPCNaa 0 COMPLETED ATP MESSAGE IN PROGRESS
DGN RPCNaa 0 ATP MESSAGE COMPLETE

* These messages may not be received.

3. Were printouts received per the previous step?

If **Yes**, go to Step 9.

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

4. At 3B APS MCRT, enter message **DGN:RPCNaa 0:PH 14:CU b!** again

where aa = RPCN node cabinet number (00 or 32)
 b = CU helper number (0 or 1).

Response: **DGN RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 STOPPED 5
DGN RPCNaa 0 PH 14 ATP MESSAGE IN PROGRESS

DGN RPCNaa 0 COMPLETED ATP MESSAGE IN PROGRESS
DGN RPCNaa 0 ATP MESSAGE COMPLETE

5. Were printouts received per the previous step?

If **Yes**, go to Step 9.

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

6. Is failure a result of a TELCO/INST instruction

If **Yes**, go to Step 8.

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

7. Clear diagnostic failure using 234-351-120; then repeat from Step 1.

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

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

Remove RPCN00 0 or RPCN32 0 From Service

Note: This procedure can be used for removing RPCN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. RPCN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.

If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RMV:RPCNaa 0!**

[where aa = CNI ring node cabinet number (00 or 32)].

Response: **RMV RPCNaa 0 TASK x MESSAGE STARTED**
RING RMV RPCNaa 0 COMPLETED

RING REPT RPC STAT ALM
WARNING: ONLY ONE ACTIVE RPC REMAINING

RING REPT RING CFR *
RING CONFIGURATION ESTABLISHED (nnn ms) *
BISO NODE = LNxx xx, EISO NODE = LNxx xx *

* These messages may not be received.

3. Was printout received per the previous step?

If **Yes**, go to Step 5.

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

4. Clear equipment problems using 234-351-120; then repeat from Step 1.

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

Diagnose DLN (LN00 2, LN00 7, LN32 2, or LN32 7)

Note: This procedure can be used for diagnosing a DLN that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. DLN is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **DGN:LNaa b!**

where aa = CNI ring node cabinet number (00 or 32)
 b = DLN number (2 or 7).

Response: **DGN LNaa b TASK x MESSAGE STARTED**
RING RMV LNaa b STOPPED 5
DGN LNaa b COMPLETED ATP MESSAGE IN PROGRESS
DGN LNaa b ATP MESSAGE COMPLETE

3. Was printout received per the previous step?

If **Yes**, go to Step 7.
If **No**, go to Step 4.

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

If **Yes**, go to Step 6.
If **No**, go to Step 5.

5. Clear equipment problems using 234-351-120; then repeat from Step 1.

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

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

Write 1B Processor 4-mm Backup Generic Tape

Caution: *Certain system audits are inhibited during tape writing. Therefore, tape writing should be done during low traffic periods.*

1. At 1B Processor MCC terminal, enter **108** to obtain the System Status (108) display page.

2. At 1B Processor MCC terminal, enter **811** (PGM CNTL OFF NORM).

3. Does status printout identify any active generic utilities?

If **Yes**, go to Step 4.

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

4. At 1B Processor MTC terminal, enter message **CLR:UTIL!**

5. At 1B Processor MCC terminal, enter **811** (PGM CNTL OFF NORM).

6. Does status printout identify any active generic utilities?

If **Yes**, go to Step 7.

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

7. Contact next higher support organization for resolution. After resolving, repeat from Step 2.

8. At 1B Processor MTC terminal, enter message **AUD:NUM(43,44,45,66,72)!**

Note: It will take approximately 20 to 40 minutes for audits to complete.

Response: **AUD: NUM a COMPLETE 0 ERRORS DETECTED** (for each audit run).

9. Was 0 ERRORS DETECTED received for each audit that was run?

If **Yes**, go to Step 13.

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

10. At 1B Processor MTC terminal, run each audit with errors.

Response: **AUD: NUM a COMPLETE 0 ERRORS DETECTED** (for each audit run).

11. Was 0 ERRORS DETECTED received for each audit that was run?

If **Yes**, go to Step 13.

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

12. Contact next higher support organization for resolution. After resolving, repeat from Step 10.

13. Select an available 3B21D APS DAT unit.

14. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].

15. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].

16. At 3B21D APS MCRT terminal, enter message
COPY:UPDATE:GEN NORM,MT a!

where a = DAT unit member number (0 or 1).

Response: **COPY GEN from NORM FILE**

10 TAPE FILES WRITTEN

20 TAPE FILES WRITTEN

30 TAPE FILES WRITTEN

•

•

n TAPE FILES WRITTEN

GEN TAPE WRITTEN

17. Were printouts received per the previous step?

If **Yes**, go to Step 19.

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

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

19. Remove tape from DAT unit [DLP-555] and label per local procedure.

20. Is another backup generic tape required to be written?

If **Yes**, go to Step 21.

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

21. Repeat from Step 15.

22. Store backup generic tapes per local practice.

23. STOP! YOU HAVE COMPLETED THIS PROCEDURE.

Write 1B Processor 4-mm Backup ODA Tape

1. At 1B Processor MCC terminal, enter **108** to obtain the System Status (108) display page.

2. On System Status display page, is **801 - RESTRICT RC** colored black on white?

If **Yes**, go to Step 4.

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

3. At 1B Processor MCC terminal, enter **801** (RESTRICT RC).

Response: **801 - RESTRICT RC** colored black on white

At 1B Processor MTC terminal,

INH:RC MSG, RESTRICTED TO MOC

4. Select an available 3B21D APS DAT unit.

5. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].

6. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].

7. At 3B21D APS MCRT terminal, enter message

COPY:UPDATE:ODA NORM,MT a!

where a = DAT unit member number (0 or 1).

Response: **COPY ODA from NORM FILE**

10 TAPE FILES WRITTEN

20 TAPE FILES WRITTEN

•

•

n TAPE FILES WRITTEN

ODA TAPE WRITTEN

8. Were printouts received per the previous step?

If **Yes**, go to Step 10.

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

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

10. Remove tape from DAT unit [DLP-555] and label per local procedure.

11. Is another backup ODA tape required to be written?

If **Yes**, go to Step 12.

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

12. Repeat from Step 6.

13. At 3B21D APS MCRT, enter message **COPY:APPFILE NORM!** to copy NORM file to the UPDATE file.

Response: **COPY APPFILE COMPLETED**

14. Was printout received per the previous step?

If **Yes**, go to Step 16.

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

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

16. At 1B Processor MCC terminal, enter **801** (RESTRICT RC).

Response: **801 - RESTRICT RC** colored white on black.

At 1B Processor MTC terminal,

ALW:RC MSG, MOC RESTRICTION RMVD

17. Store backup ODA tapes per local practice.

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

Write 1B Processor 4-mm Backup Long Term Storage (LTS) Tape

1. Select an available 3B21D APS DAT unit.
2. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].
3. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].

Note: Writing of the LTS tape must be initiated during a 7-minute window beginning 4 minutes past any quarter hour. If **COPY** message is not entered during this window, a retry later (RL) response will be received.

4. At 3B21D APS MCRT terminal, enter message
COPY:APPTAPE:LTS,MT a!
where a = DAT unit member number (0 or 1).

Response: **COPY APPTAPE TYPE:LTS,WRITTEN** mm/dd/yy hh:mm

COPY APPTAPE ADDRESS RANGE aaaaaaaa - bbbbbbbb **STARTED,FILE**
/dev/1afileX

COPY APPTAPE ADDRESS RANGE aaaaaaaa - bbbbbbbb **COMPLETED**

COPY APPTAPE COMPLETED

mm/dd/yy hh:mm == Month/day/year hour:minute tape was written
aaaaaaa == Starting LTS address through
bbbbbbb == Ending LTS address written.

5. Were printouts 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. Remove tape from DAT unit [DLP-555] and label per local procedure.

8. Store backup LTS tape per local practice.
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Write 1B Processor 4-mm Backup Traffic and Plant Measurement (TPM) Tape

1. Select an available 3B21D APS DAT unit.
2. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].
3. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].
4. At 3B21D APS MCRT terminal, enter message
COPY:UPDATE:TPM NORM,MT a!
where a = DAT unit member number (0 or 1).
Response: **COPY TPM from NORMAL FILE**
TPM TAPE WRITTEN
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. Remove tape from DAT unit [DLP-555] and label per local procedure.
8. Store backup TPM tape per local practice.
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Write 1B Processor 4-mm Backup Trunk Out-of-Service List (TOSL) Tape

1. Select an available 3B21D APS DAT unit.
2. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].
3. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].
4. At 3B21D APS MCRT terminal, enter message
COPY:APPTAPE:TOSL,MT a!
where a = DAT unit member number (0 or 1).

Response: **COPY APPTAPE TYPE:TOSL,WRITTEN** mm/dd/yy hh:mm

COPY APPTAPE ADDRESS RANGE aaaaaaaa - bbbbbbbb **STARTED,FILE**
/dev/1afileX

COPY APPTAPE ADDRESS RANGE aaaaaaaa - bbbbbbbb **COMPLETED**

COPY APPTAPE COMPLETED

mm/dd/yy hh:mm == Month/day/year hour:minute tape was written
aaaaaaa == Starting TOSL address through
bbbbbbb == Ending TOSL address written

5. Were printouts 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. Remove tape from DAT unit [DLP-555] and label per local procedure.
8. Store backup TOSL tape per local practice.

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

Write 1B Processor 4-mm Backup Network Management (NWM) Tape

1. Select an available 3B21D APS DAT unit.
2. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].
3. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].
4. At 3B21D APS MCRT terminal, enter message
COPY:UPDATE:NWM NORM,MT a!
where a = DAT unit member number (0 or 1).

Response: **COPY NWM from NORMAL FILE**
10 TAPE FILES WRITTEN FROM FS
NWM TAPE WRITTEN
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. Remove tape from DAT unit [DLP-555] and label per local procedure.
8. Store backup NWM tape per local practice.
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Write 1B Processor 4-mm Backup Library Tape

1. Select an available 3B21D APS DAT unit.
2. If tape is installed in 3B21D APS DAT unit, remove tape [DLP-555].
3. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into selected 3B21D APS DAT unit [DLP-554].
4. At 3B21D APS MCRT terminal, enter message
COPY:UPDATE:LIB NORM,MT a!
where a = DAT unit member number (0 or 1).

Response: **COPY LIB from NORMAL FILE**
10 TAPE FILES WRITTEN FROM FS *
LIB TAPE WRITTEN
* May not be received.

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. Remove tape from DAT unit [DLP-555] and label per local procedure.
8. Store backup library tape per local practice.
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Remove SCSI Bus (SBUS) 1 From Service

Note: This procedure can be used for removing SBUS 1 that is associated with either the 3B20D APS or 3B21D APS. You must use the proper 3B MCRT when performing this procedure.

1. SBUS 1 is associated with which APS?

If **3B20D APS**, enter all commands on the 3B20D MCRT.
If **3B21D APS**, enter all commands on the 3B21D MCRT.

2. At 3B APS MCRT, enter message **RMV:SBUS 1!**

Response: **RMV SBUS 1 TASK x MESSAGE STARTED**
RMV MHD 9 COMPLETED
RMV SBUS 1 COMPLETED

3. Was printout received per the previous step?

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

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

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

Diagnose SCSDC Using Restore Message

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

where a = SCSDC number (0, 1, 2, or 3).

Response: **RST SCSDC a TASK x MESSAGE STARTED**
RMV SCSDC a COMPLETED
DGN SCSDC a COMPLETED ATP MESSAGE IN PROGRESS
RST SCSDC a COMPLETED
DGN SCSDC 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.**

Remove Unequipped UN582 Circuit Packs

1. At 3B21D APS MCRT, depress **NORM/DISP** (PF2) key and enter **114** in command mode to obtain the Application Data Links Display Page (114).
2. At 3B21D APS MCRT, on SDL Page (114), determine state for each of the following:
 - SDL 22
 - SDL 26
 - SDL 28
3. Is the state of all SDLs from the previous step **UNEQ**?
If **Yes**, go to Step 5.
If **No**, go to Step 4.
4. Contact the next higher support organization before removing the circuit packs. All SDLs shown in Step 2 need to be unequipped before removing associated circuit packs.
5. At 3B21D APS MCRT, enter **102** in command mode to obtain the Common Processor Display page (102).
6. Is IOP 1 **OOS**?
If **Yes**, go to Step 7.
If **No**, go to Step 27.

Note: Steps 7-10 are being performed to degrow all unassigned SDLCs and TTYCs on IOP 1.

7. Choose one of the following controllers, associated with IOP 1, to be degrown:

- SDLC 11
- SDLC 13
- TTYC 09
- TTYC 27

8. At the 3B21D APS MCRT, enter message

EXC:ENVIR:UPROC,FN"/tools/3b21/dl.tool",ARGS("aaaa","bb","UNEQIP") to degrow controller chosen in Step 7.

where aaaa = **SDLC** or **TTYC**
 bb = SDLC number or TTYC number

Response: **/tools/3b21/dl.tool : STARTING
BEGINNING DEGROWTH OF aaaa bb USING THE /tools/3b21/dl.tool
SCRIPT
/tools/3b21/dl.tool RCVECD PASSED - EXIT CODE = 0
UNEQIP OF aaaa bb BY SCRIPT /tools/3b21/dl.tool COMPLETED
aaaa bb IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY
EXC ENVIR UPROC /tools/3b21/dl.tool COMPLETED
BEGINNING DEGROWTH OF aaaa bb USING THE /tools/3b21/dl.tool
SCRIPT
/tools/3b21/dl.tool RCVECD PASSED - EXIT CODE = 0
UNEQIP OF aaaa bb BY SCRIPT /tools/3b21/dl.tool COMPLETED
aaaa bb IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY
REPT DEGROWTH aaaa bb COMPLETED**

where aaaa = **SDLC** or **TTYC**
 bb = SDLC number or TTYC number

9. Have all controllers in Step 7 been degrown?

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

10. Repeat from Step 7 for next controller to be degrown.

11. At 3B21D APS MCRT, enter **115** in command mode to obtain the SDL Controllers Page (115).

WARNING: All unassigned SDLCs on IOP 1 must be degrown before continuing with this procedure.

12. At 3B21D APS MCRT, on SDL Controllers Page (115), are all of the following SDLCs shown as **UNEQ**?

- SDLC 11
- SDLC 13

If **Yes**, go to Step 14.
If **No**, go to Step 13.

13. Contact the next higher support organization before removing the circuit packs. All SDLCs shown in Step 12 need to be unequipped before removing associated circuit packs.

14. At 3B21D APS Cabinet, unseat one unequipped circuit pack per the following IOP 1 table.

WARNING: Only unseat UN582 circuit packs that are associated with IOP 1 (the powered down IOP).

IOP 1	
UN582 Circuit Pack	EQL
SDLC 11	45-138
SDLC 13	45-146

15. At 3B21D APS Cabinet, remove the unequipped circuit pack and place into an antistatic bag; then place into a circuit pack carton.

16. At 3B21D APS Cabinet, insert a blank faceplate at the EQL where the above circuit pack was removed.

17. Have both circuit packs for IOP 1 (Step 14) been removed from the 3B21D APS Cabinet?

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

18. Repeat from Step 14 for second circuit pack that has not been removed.

19. At 3B21D APS MCRT, enter **116** in command mode to obtain the TTY Controllers Page (116).

WARNING: All unassigned TTYCs on IOP 1 must be degrown before continuing with this procedure.

20. At 3B21D APS MCRT, on TTY Controllers Page (116), are all of the following TTYCs shown as **UNEQ**?

- TTYC 09
- TTYC 27

If **Yes**, go to Step 22.

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

21. Contact the next higher support organization before removing the circuit packs. All TTYCs shown in Step 20 need to be unequipped before removing associated circuit packs.

22. At 3B21D APS Cabinet, unseat one unequipped circuit pack per the following IOP 1 table.

WARNING: Only unseat UN582 circuit packs that are associated with IOP 1 (the powered down IOP).

IOP 1	
UN582 Circuit Pack	EQL
TTYC 09	45-130
TTYC 27	53-138

23. At 3B21D APS Cabinet, remove the unequipped circuit pack and place into an antistatic bag; then place into a circuit pack carton.

24. At 3B21D APS Cabinet, insert a blank faceplate at the EQL where the above circuit pack was removed.

25. Have all circuit packs listed in Step 22 been removed from the 3B21D APS Cabinet?

If **Yes**, then go to Step 35.

If **No**, then go to Step 26.

26. Repeat from Step 22 for circuit pack that has not been removed.

27. Is IOP 0 **OOS**?

If **Yes**, go to Step 28.

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

Note: Step 28 is being performed to degrow unassigned SDLC 14 on IOP 0.

28. At the 3B21D APS MCRT, enter message

EXC:ENVIR:UPROC,FN"/tools/3b21/dl.tool",ARGS("aaaa","bb","UNEQIP") to degrow SDLC 14 associated with IOP 0.

where aaaa = **SDLC**
 bb = 14

Response: **/tools/3b21/dl.tool : STARTING
BEGINNING DEGROWTH OF aaaa bb USING THE /tools/3b21/dl.tool
SCRIPT
/tools/3b21/dl.tool RCVECD PASSED - EXIT CODE = 0
UNEQIP OF aaaa bb BY SCRIPT /tools/3b21/dl.tool COMPLETED
aaaa bb IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY
EXC ENVIR UPROC /tools/3b21/dl.tool COMPLETED
BEGINNING DEGROWTH OF aaaa bb USING THE /tools/3b21/dl.tool
SCRIPT
/tools/3b21/dl.tool RCVECD PASSED - EXIT CODE = 0
UNEQIP OF aaaa bb BY SCRIPT /tools/3b21/dl.tool COMPLETED
aaaa bb IS IN UNEQIP - CHANGES MADE TO INCORE DATABASE ONLY
REPT DEGROWTH aaaa bb COMPLETED**

where aaaa = **SDLC**
 bb = 14

29. At 3B21D APS MCRT, enter **115** in command mode to obtain the SDL Controllers Page (115).

WARNING: Unassigned SDLC 14 associated with IOP 0 must be degrown before continuing with this procedure.

30. At 3B21D APS MCRT, on SDL Controllers Page (115), is SDLC 14 shown as **UNEQ**?

If **Yes**, go to Step 32.

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

31. Contact the next higher support organization before removing the circuit pack. SDLC 14 must be unequipped before removing the associated circuit pack.

WARNING: Only unseat UN582 circuit pack associated with IOP 0 (the powered down IOP).

32. At 3B21D APS Cabinet, unseat **UN582** circuit pack (SDLC 14) at EQL 19-154.

33. At 3B21D APS Cabinet, remove the unequipped circuit pack (EQL 19-154) and place into an antistatic bag; then place into a circuit pack carton.

34. At 3B21D APS Cabinet, insert a blank faceplate at EQL 19-154 where the above circuit pack was removed.

35. Give the installer the removed circuit pack for shipment back to the factory.

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

Assign Office Alarm for 3B21D APS

1. Request from installer the new office alarm points for the 3B21D APS PC 0 and PC 1 and record.

PC 0	
PC 1	

Note: In the next step, if office alarm points were not recorded in NTP-003, use office records to determine these points.

2. Obtain office alarm points for the 3B20D APS PC 0 and PC 1 recorded in NTP-003 and record.

PC 0	
PC 1	

3. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 2

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

**MEMN a, ME UNEQ,
ENTRY ADDRESS _____, ENTRY SIZE 7,
CUR
WORD 0 _____ (Word 3)
(Word 4) (Word 5) (Word 6)**

where a = PC 0 office alarm point obtained in Step 2

4. Was the response message in Step 3 received?

If **Yes**, go to Step 6.

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

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

6. Using printout and the response message in Step 3, record the octal word data for the appropriate word in the following Table. These octal words will be used later when recent changing the 3B21D APS PC 0 office alarm.

WORD	OCTAL DATA
3	
4	
5	
6	

7. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,

ENTRY ADDRESS b, ENTRY SIZE 7,

CUR

WORD 0 (Word 0) _____ (Word 2) (Word 3)
(Word 4) (Word 5) (Word 6)

where a = PC 0 office alarm point obtained in Step 1

b = Address of OA point in unit type translator

8. Was the response message in Step 7 received?

If **Yes**, go to Step 10.

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

9. Determine cause and resolve; repeat from Step 7.

10. Using printout and the response message in Step 7, record the data in the **ENTRY ADDRESS** field. This address will be used later when recent changing the 3B21D APS PC 0 office alarm.

11. Using printout and the response message in Step 7, record the leftmost octal digit in word 0 to be used as OLDDATA when recent changing the 3B21D APS PC 0 office alarm.

12. Using printout and the response message in Step 7, record the seven rightmost octal digits in word 2 to be used as OLDDATA when recent changing the 3B21D APS PC 0 office alarm.
13. Using printout and the response message in Step 7, record the octal word data for the appropriate word in the following Table. These octal words will be used when recent changing the 3B21D APS PC 0 office alarm.

WORD	OCTAL DATA
3	
4	
5	
6	

14. Determine the floor number where the 3B21D APS is located.
15. Convert the floor number determined in the previous step to binary and record in the following Figure in Binary Value row (Binary Bit Positions 8 through 17).

Binary Bit Position →	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Binary Value →	0	0	1	—	—	—	—	—	—	—	—	—	—	1	0	0	1	0	0	1	1
Octal Value →	1			—			—			—			—			2			3		

Figure 1. Binary to Octal Conversion

16. Using the above Binary to Octal Conversion Figure, convert binary to octal and record in Octal Value row.

Caution: Calling up RC Form will cause all CRT data to be cleared.

17. At 1B Processor MTC terminal, enter message
OP:RCFORM 800!

Response: CRT displays RC Form 800

18. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
b = **N**
c = Address recorded in Step 10
d = Order number
e = **2**
f = **21**
g = **0** (Zero)
h = **O** (Letter O)
i = Octal value recorded in Figure in Step 15
j = Octal data recorded in Step 12

19. Was **RC ORNU d ACTIVATED** message received?

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

20. Determine cause for rejection and repeat from Step 17 with the correct input message.

21. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,

ENTRY ADDRESS b, ENTRY SIZE 7,

**CUR
WORD 0 _____ (Word 2) _____**

where a = PC 0 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

22. Was the response message in Step 21 received?

If **Yes**, go to Step 24.

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

23. Determine cause and resolve; repeat from Step 21.

24. Using printout and the response message in Step 21, verify data in octal word 2 is correct per the recent change in Step 18.

25. Is the data correct?

If **Yes**, go to Step 27.

If **No**, go to Step 26.

26. Repeat from Step 17 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

27. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

28. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
 b = **N**
 c = Address recorded in Step 10
 d = Order number
 e = **3**
 f = **24**
 g = **0** (Zero)
 h = **O** (Letter O)
 i = Octal data for word 3 recorded in Step 6
 j = Octal data for word 3 recorded in Step 13

29. Was **RC ORNU** d **ACTIVATED** message received?

If **Yes**, go to Step 31.

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

30. Determine cause for rejection and repeat from Step 27 with the correct input message.

31. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,

ENTRY ADDRESS b, ENTRY SIZE 7,

**CUR
WORD 0 _____ (Word 3)**

where a = PC 0 office alarm point obtained in Step 1

b = Address of OA point in unit type translator

32. Was the response message in Step 31 received?

If **Yes**, go to Step 34.

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

33. Determine cause and resolve; repeat from Step 31.

34. Using printout and the response message in Step 31, verify data in octal word 3 is correct per the recent change in Step 28.

35. Is the data correct?

If **Yes**, go to Step 37.

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

36. Repeat from Step 27 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

37. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

38. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
 b = **N**
 c = Address recorded in Step 10
 d = Order number
 e = **4**
 f = **24**
 g = **0** (Zero)
 h = **O** (Letter O)
 i = Octal data for word 4 recorded in Step 6
 j = Octal data for word 4 recorded in Step 13

39. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 41.

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

40. Determine cause for rejection and repeat from Step 37 with the correct input message.

41. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,

ENTRY ADDRESS b, ENTRY SIZE 7,

**CUR
WORD 0 _____**

(Word 4) _____

where a = PC 0 office alarm point obtained in Step 1

b = Address of OA point in unit type translator

42. Was the response message in Step 41 received?

If **Yes**, go to Step 44.

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

43. Determine cause and resolve; repeat from Step 41.

44. Using printout and the response message in Step 41, verify data in octal word 4 is correct per the recent change in Step 38.

45. Is the data correct?

If **Yes**, go to Step 47.

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

46. Repeat from Step 37 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

47. At 1B Processor MTC terminal, enter message
OP:RCFORM 800!

Response: CRT displays RC Form 800

48. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
b = **N**
c = Address recorded in Step 10
d = Order number
e = **5**
f = **24**
g = **0** (Zero)
h = **O** (Letter O)
i = Octal data for word 5 recorded in Step 6
j = Octal data for word 5 recorded in Step 13

49. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 51.
If **No**, go to Step 50.

50. Determine cause for rejection and repeat from Step 47 with the correct input message.

51. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

**MEMN a, ME UNEQ,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 _____
_____ (Word 5) _____**

where a = PC 0 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

52. Was the response message in Step 51 received?

If **Yes**, go to Step 54.

If **No**, go to Step 53.

53. Determine cause and resolve; repeat from Step 51.

54. Using printout and the response message in Step 51, verify data in octal word 5 is correct per the recent change in Step 48.

55. Is the data correct?

If **Yes**, go to Step 57.

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

56. Repeat from Step 47 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

57. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

58. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**

b = **N**

c = Address recorded in Step 10

d = Order number

e = **6**

f = **24**

g = **0** (Zero)

h = **O** (Letter O)

i = Octal data for word 6 recorded in Step 6

j = Octal data for word 6 recorded in Step 13

59. Was **RC ORNU** d **ACTIVATED** message received?

If **Yes**, go to Step 61.

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

60. Determine cause for rejection and repeat from Step 57 with the correct input message.

61. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 _____
_____ (Word 6)

where a = PC 0 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

62. Was the response message in Step 61 received?

If **Yes**, go to Step 64.

If **No**, go to Step 63.

63. Determine cause and resolve; repeat from Step 61.

64. Using printout and the response message in Step 61, verify data in octal word 6 is correct per the recent change in Step 58.

65. Is the data correct?

If **Yes**, go to Step 67.

If **No**, go to Step 66.

66. Repeat from Step 57 using the corrected data entries.

67. Is leftmost octal digit in word 0, recorded in Step 11, a 6?

If **Yes**, go to Step 78.

If **No**, go to Step 68.

Caution: Calling up RC Form will cause all CRT data to be cleared.

68. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

69. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
 b = **N**
 c = Address recorded in Step 10
 d = Order number
 e = **0**
 f = **3**
 g = **0** (Zero)
 h = **O** (Letter O)
 i = **6** (sets office alarm to operational)
 j = Octal data recorded in Step 11

70. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 72.

If **No**, go to Step 71.

71. Determine cause for rejection and repeat from Step 68 with the correct input message.

72. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 0 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME OPER,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 (Word 0) _____

where a = PC 0 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

73. Was the response message in Step 72 received?

If **Yes**, go to Step 75.

If **No**, go to Step 74.

74. Determine cause and resolve; repeat from Step 72.

75. Using printout and the response message in Step 72, verify leftmost octal digit in word 0 is set to a **6**.

76. Is leftmost octal digit in word 0 set to a **6**?

If **Yes**, go to Step 78.

If **No**, go to Step 77.

77. Repeat from Step 68 using the corrected data entries.

78. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 2

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,
ENTRY ADDRESS _____, ENTRY SIZE 7,

CUR
WORD 0 _____ (Word 3)
(Word 4) (Word 5) (Word 6)

where a = PC 1 office alarm point obtained in Step 2

79. Was the response message in Step 78 received?

If **Yes**, go to Step 81.

If **No**, go to Step 80.

80. Determine cause and resolve; repeat from Step 78.

81. Using printout and the response message in Step 78, record the octal word data for the appropriate word in the following Table. These octal words will be used later when recent changing the 3B21D APS PC 1 office alarm.

WORD	OCTAL DATA
3	
4	
5	
6	

82. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 (Word 0) _____ (Word 2) (Word 3)
(Word 4) (Word 5) (Word 6)

where a = PC 1 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

83. Was the response message in Step 82 received?

If **Yes**, go to Step 85.

If **No**, go to Step 84.

84. Determine cause and resolve; repeat from Step 82.

85. Using printout and the response message in Step 82, record the data in the **ENTRY ADDRESS** field. This address will be used later when recent changing the 3B21D APS PC 1 office alarm.

86. Using printout and the response message in Step 82, record the leftmost octal digit in word 0 to be used as OLDDATA when recent changing the 3B21D APS PC 1 office alarm.

87. Using printout and the response message in Step 82, record the seven rightmost octal digits in word 2 to be used as OLDDATA when recent changing the 3B21D APS PC 1 office alarm.

88. Using printout and the response message in Step 82, record the octal word data for the appropriate word in the following Table. These octal words will be used when recent changing the 3B21D APS PC 1 office alarm.

WORD	OCTAL DATA
3	
4	
5	
6	

89. Determine the floor number where the 3B21D APS is located.

90. Convert the floor number determined in the previous step to binary and record in the following Figure in Binary Value row (Binary Bit Positions 8 through 17).

Binary Bit Position →	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Binary Value →	0	0	1	—	—	—	—	—	—	—	—	—	—	1	0	0	1	0	0	1	1
Octal Value →	1			—			—			—			—			2			3		

Figure 2. Binary to Octal Conversion

91. Using the above Binary to Octal Conversion Figure, convert binary to octal and record in Octal Value row.

Caution: Calling up RC Form will cause all CRT data to be cleared.

92. At 1B Processor MTC terminal, enter message
OP:RCFORM 800!

Response: CRT displays RC Form 800

93. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
b = **N**
c = Address recorded in Step 85
d = Order number
e = **2**
f = **21**
g = **0** (Zero)
h = **O** (Letter O)
i = Octal value recorded in Figure in Step 90
j = Octal data recorded in Step 87

94. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 96.
If **No**, go to Step 95.

95. Determine cause for rejection and repeat from Step 92 with the correct input message.

96. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

**MEMN a, ME UNEQ,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 _____ (Word 2) _____
_____**

where a = PC 1 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

97. Was the response message in Step 96 received?

If **Yes**, go to Step 99.

If **No**, go to Step 98.

98. Determine cause and resolve; repeat from Step 96.

99. Using printout and the response message in Step 96, verify data in octal word 2 is correct per the recent change in Step 93.

100. Is the data correct?

If **Yes**, go to Step 102.

If **No**, go to Step 101.

101. Repeat from Step 92 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

102. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

103. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**

b = **N**

c = Address recorded in Step 85

d = Order number

e = **3**

f = **24**

g = **0** (Zero)

h = **O** (Letter O)

i = Octal data for word 3 recorded in Step 81

j = Octal data for word 3 recorded in Step 88

104. Was **RC ORNU** d **ACTIVATED** message received?

If **Yes**, go to Step 106.

If **No**, go to Step 105.

105. Determine cause for rejection and repeat from Step 102 with the correct input message.

106. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,

ENTRY ADDRESS b, ENTRY SIZE 7,

**CUR
WORD 0 _____ (Word 3)**

where a = PC 1 office alarm point obtained in Step 1

b = Address of OA point in unit type translator

107. Was the response message in Step 106 received?

If **Yes**, go to Step 109.

If **No**, go to Step 108.

108. Determine cause and resolve; repeat from Step 106.

109. Using printout and the response message in Step 106, verify data in octal word 3 is correct per the recent change in Step 103.

110. Is the data correct?

If **Yes**, go to Step 112.

If **No**, go to Step 111.

111. Repeat from Step 102 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

112. At 1B Processor MTC terminal, enter message
OP:RCFORM 800!

Response: CRT displays RC Form 800

113. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
 b = **N**
 c = Address recorded in Step 85
 d = Order number
 e = **4**
 f = **24**
 g = **0** (Zero)
 h = **O** (Letter O)
 i = Octal data for word 4 recorded in Step 81
 j = Octal data for word 4 recorded in Step 88

114. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 116.

If **No**, go to Step 115.

115. Determine cause for rejection and repeat from Step 112 with the correct input message.

116. At 1B Processor MTC terminal, enter message
VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 _____
(Word 4) _____

where a = PC 1 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

117. Was the response message in Step 116 received?

If **Yes**, go to Step 119.

If **No**, go to Step 118.

118. Determine cause and resolve; repeat from Step 116.

119. Using printout and the response message in Step 116, verify data in octal word 4 is correct per the recent change in Step 113.

120. Is the data correct?

If **Yes**, go to Step 122.

If **No**, go to Step 121.

121. Repeat from Step 112 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

122. At 1B Processor MTC terminal, enter message
OP:RCFORM 800!

Response: CRT displays RC Form 800

123. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
b = **N**
c = Address recorded in Step 85
d = Order number
e = **5**
f = **24**
g = **0** (Zero)
h = **O** (Letter O)
i = Octal data for word 5 recorded in Step 81
j = Octal data for word 5 recorded in Step 88

124. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 126.
If **No**, go to Step 125.

125. Determine cause for rejection and repeat from Step 122 with the correct input message.

126. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

**MEMN a, ME UNEQ,
ENTRY ADDRESS b, ENTRY SIZE 7,
CUR
WORD 0 _____
_____ (Word 5) _____**

where a = PC 1 office alarm point obtained in Step 1
b = Address of OA point in unit type translator

127. Was the response message in Step 126 received?

If **Yes**, go to Step 129.

If **No**, go to Step 128.

128. Determine cause and resolve; repeat from Step 126.

129. Using printout and the response message in Step 126, verify data in octal word 5 is correct per the recent change in Step 123.

130. Is the data correct?

If **Yes**, go to Step 132.

If **No**, go to Step 131.

131. Repeat from Step 122 using the corrected data entries.

Caution: Calling up RC Form will cause all CRT data to be cleared.

132. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

133. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**

b = **N**

c = Address recorded in Step 85

d = Order number

e = **6**

f = **24**

g = **0** (Zero)

h = **O** (Letter O)

i = Octal data for word 6 recorded in Step 81

j = Octal data for word 6 recorded in Step 88

134. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 136.

If **No**, go to Step 135.

135. Determine cause for rejection and repeat from Step 132 with the correct input message.

136. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME UNEQ,

ENTRY ADDRESS b, ENTRY SIZE 7,

CUR

WORD 0 _____

_____ (Word 6)

where a = PC 1 office alarm point obtained in Step 1

b = Address of OA point in unit type translator

137. Was the response message in Step 136 received?

If **Yes**, go to Step 139.

If **No**, go to Step 138.

138. Determine cause and resolve; repeat from Step 136.

139. Using printout and the response message in Step 136, verify data in octal word 6 is correct per the recent change in Step 133.

140. Is the data correct?

If **Yes**, go to Step 142.

If **No**, go to Step 141.

141. Repeat from Step 132 using the corrected data entries.

142. Is leftmost octal digit in word 0, recorded in Step 86, a 6?

If **Yes**, go to Step 153.

If **No**, go to Step 143.

Caution: Calling up RC Form will cause all CRT data to be cleared.

143. At 1B Processor MTC terminal, enter message

OP:RCFORM 800!

Response: CRT displays RC Form 800

144. Fill in blanks on RC Form 800 per the following and enter message:

**RC:FUNC;CHG;OPT(ABSOLUTE),a: FSONLY b, ADDRESS c,
ORNU d,
WORDNO e,
SIZE f, DISP g,
BINOCT h,
NEWDATA i,
OLDDATA j,
REMARKS _____!**

where a = **FTA**
b = **N**
c = Address recorded in Step 85
d = Order number
e = **0**
f = **3**
g = **0** (Zero)
h = **O** (Letter O)
i = **6** (sets office alarm to operational)
j = Octal data recorded in Step 86

145. Was **RC ORNU d ACTIVATED** message received?

If **Yes**, go to Step 147.

If **No**, go to Step 146.

146. Determine cause for rejection and repeat from Step 143 with the correct input message.

147. At 1B Processor MTC terminal, enter message

VER:UTYPE:OA a!

where a = PC 1 office alarm point obtained in Step 1

Response: **VER:UTMN;OPT(),CUR: FLN _____, UTYN OA,**

MEMN a, ME OPER,

ENTRY ADDRESS b, ENTRY SIZE 7,

CUR

WORD 0 (Word 0) _____

where a = PC 1 office alarm point obtained in Step 1

b = Address of OA point in unit type translator

148. Was the response message in Step 147 received?

If **Yes**, go to Step 150.

If **No**, go to Step 149.

149. Determine cause and resolve; repeat from Step 147.

150. Using printout and the response message in Step 147, verify leftmost octal digit in word 0 is set to a **6**.

151. Is leftmost octal digit in word 0 set to a **6**?

If **Yes**, go to Step 153.

If **No**, go to Step 152.

152. Repeat from Step 143 using the corrected data entries.

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

Copy Incore Equipment Configuration Data Base (ECD) to Disk

1. At 3B21D APS MCRT, depress **NORM/DISP (PF2)** key.
2. At 3B21D APS MCRT, enter **199** in command mode to obtain display page 199.
3. At 3B21D APS MCRT, enter **incore**
Response: Cursor positioned at **reviewonly**.
4. At 3B21D APS MCRT, enter **n**
Response: Cursor positioned at **journaling**.
5. At 3B21D APS MCRT, enter *****
Response: **FORM EXECUTED** is displayed momentarily, then **Enter Form Name:** is displayed.
6. At 3B21D APS MCRT, enter **activate**
Response: Cursor positioned at **copy_inc_to_disk:YES** field.
7. At 3B21D APS MCRT, depress **RETURN** key once.
Response: **Enter Execute, Change, Substitute, Validate, or Print:** is displayed.
8. At 3B21D APS MCRT, 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.

9. At 3B21D APS MCRT, depress **RETURN** key once.

Response: Recent change is exited.

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

Copy 3B20D APS 4AP17 Generic to MHD 9

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/cpgen.sh"

Note: Copy will take approximately 15 minutes to complete.

Response:

On the 3B20D APS ROP

REPT cpgen.sh - Copy 4AP<17>XX.RY from root to root9 STARTING DATE: Month Day, Year

REPT MIRA NOTHING TO STOP NO UNITS QUEUED

STOP DMQ COMPLETED

STOP:DMQ! PF

RMV:MHD 9;UCL! PF *

RMV MHD 9 TASK x MESSAGE STARTED *

RMV MHD 9 COMPLETED *

REPT DKDRV INFO CODE X'537

RST:MHD 9! PF

RST MHD 9 TASK x MESSAGE STARTED

REPT cpgen.sh - Copy 4AP<17>XX.RY from root to root9 COMPLETE DATE: Month Day, Year

RMV MHD 9 STOPPED X'5

* May not be received.

(Output messages continued on next page.)

Response: (continued)

In addition, the following information will be printed to the ROP when the program is completed.

```
***** cpngen.sh's Log File      DATE: Month Day, Year HH:MM:SS      cpngen.sh root to
root9 -p cpngen.sh DATE: Month Day, YEAR HH:MM:SS
REPT cpngen.sh - Copy 4AP<17>XX.R1 from root to root9 STARTING DATE: Month Day, Year
HH:MM:SS
copy'g /dev/vtoc to /tmp/dkdx 2 blocks start 0
copy'g /dev/lboot to /tmp/dkdx 237 blocks start 2
copy'g /dev/lboot21 to /tmp/dkdx 600 blocks start 239
copy'g /dev/bboot to /tmp/dkdx 82 blocks start 921
copy'g /dev/boot to /tmp/dkdx 82 blocks start 839
copy'g /dev/root to /tmp/dkdx 198500 blocks start 31003
copy'g /dev/etc to /tmp/dkdx 5000 blocks start 480503
copy'g /dev/tdas to /tmp/dkdx 60000 blocks start 956720
copy'g /dev/tlp to /tmp/dkdx 23000 blocks start 1144324
copy'g /dev/db to /tmp/dkdx 21500 blocks start 520503
copy'g /dev/appdb0 to /tmp/dkdx 32768 blocks start 1026020
copy'g /dev/appdb1 to /tmp/dkdx 32768 blocks start 1058788
copy'g /dev/amafiles to /tmp/dkdx 500 blocks start 1025020
copy'g /dev/amabfiles to /tmp/dkdx 500 blocks start 1025520
copy'g /dev/update to /tmp/dkdx 40000 blocks start 436003
copy'g /dev/gttx to /tmp/dkdx 20000 blocks start 1124324
copy'g /dev/bwm to /tmp/dkdx 30000 blocks start 490503
REPT cpngen.sh - Copy 4AP<17>XX.RY from root to root9 COMPLETE DATE: Month Day, Year
REPT cpngen.sh - COMPLETED CODE 0
EXC ENVIR UPROC /tools/3b21/cpgen.sh COMPLETED
DGN MHD 9 COMPLETED ATP MESSAGE IN PROGRESS
RST MHD 9 IN PROGRESS
RST MHD 9 COMPLETED
DGN MHD 9 ATP MESSAGE COMPLETED
```

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.**

Load 3B20D APS 4AP16 Generic from MHD 9 to 3B21D APS

1. At 3B21D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/lidgen.sh"

Note: Load will take approximately 10 minutes to complete.

Response:

On the 3B21D APS ROP

REPT MIRA NOTHING TO STOP NO UNITS QUEUED

STOP DMQ COMPLETED

STOP:DMQ! PF

Expect mount PRMs (PRM-0 x800.)

REPT lidgen.sh RESTORE 4AP<16>XX.RY from root9 STARTING Month Day, Year HH:MM:SS

RMV:MHD 1;UCL! PF

RMV MHD 1 TASK x MESSAGE STARTED

RMV MHD 1 COMPLETED

REPT DIOP SIMPLEX PROCESSING COMPLETED

REPT DKDRV INFO CODE X'537

REPT lidgen.sh RESTORE 4AP<16>XX.RY from root9 COMPLETE Month Day, Year HH:MM:SS

(Output messages continued on next page.)

In addition, the following information will be printed to the ROP when the program is completed.

```
***** ldgen.sh's Log File    DATE: Month Day, Year HH:MM:SS *****
REPT ldgen.sh RESTORE 4AP<16>XX.RY from root9 STARTING Month Day, Year HH:MM:SS
copy'g /dev/vtoc9 to /tmp/dkdx 2 of 2 start 0
copy'g /dev/lboot9 to /tmp/dkdx 237 of 237 start 2
copy'g /dev/lboot21_9 to /tmp/dkdx 600 of 600 start 239
copy'g /dev/boot9 to /tmp/dkdx 82 of 82 start 839
copy'g /dev/root9 to /tmp/dkdx nnnnn of 195000 start 31003
copy'g /dev/etc9 to /tmp/dkdx nnnnn of 5000 start 473503
copy'g /dev/tdas9 to /tmp/dkdx nnnnn of 60000 start 946720
copy'g /dev/tlp9 to /tmp/dkdx nnnnn of 23000 blocks start 1134324
copy'g /dev/db9 to /tmp/dkdx nnnnn of 20000 start 513503
copy'g /dev/appdb09 to /tmp/dkdx nnnnn of 32768 start 1016020
copy'g /dev/appdb19 to /tmp/dkdx nnnnn of 32768 start 1048788
copy'g /dev/amabfiles9 to /tmp/dkdx nnnnn of 500 start 1015020
copy'g /dev/amabfiles9 to /tmp/dkdx nnnnn of 500 start 1015520
copy'g /dev/update9 to /tmp/dkdx nnnnn of 40000 start 429003
copy'g /dev/gtt9 to /tmp/dkdx nnnnn of 20000 start 1114324
copy'g /dev/bwm9 to /tmp/dkdx nnnnn of 30000 start 483503
REPT ldgen.sh RESTORE 4AP<16>XX.RY from root9 COMPLETE Month Day, Year HH:MM:SS
REPT ldgen.sh - COMPLETED CODE 0
EXC ENVIR UPROC /tools/3b21/ldgen.sh 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.**

Load 3B20D APS 4AP17 Generic from MHD 9 to 3B21D APS

1. At 3B21D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/ldgen.sh"

Note: Copy will take approximately 10 minutes to complete.

Response:

On the 3B21D APS ROP

REPT MIRA NOTHING TO STOP NO UNITS QUEUED

STOP DMQ COMPLETED

STOP:DMQ! PF

Expect mount PRMs (PRM-0 x800.)

REPT ldgen.sh RESTORE 4AP<17>XX.RY from root9 STARTING Month Day, Year HH:MM:SS

RMV:MHD 1;UCL! PF

RMV MHD 1 TASK x MESSAGE STARTED

RMV MHD 1 COMPLETED

REPT DIOP SIMPLEX PROCESSING COMPLETED

REPT DKDRV INFO CODE X'537

REPT ldgen.sh RESTORE 4AP<17>XX.RY from root9 COMPLETE Month Day, Year HH:MM:SS

(Output messages continued on next page.)

In addition, the following information will be printed to the ROP when the program is completed.

```
***** Idgen.sh's Log File    DATE: Month Day, Year HH:MM:SS *****  
REPT Idgen.sh  RESTORE 4AP<17>XX.RY from root9 STARTING Month Day, Year HH:MM:SS  
copy'g /dev/vtoc9 to /tmp/dkdx 2 of 2 start 0  
copy'g /dev/lboot9 to /tmp/dkdx 237 of 237 start 2  
copy'g /dev/lboot21_9 to /tmp/dkdx 600 of 600 start 239  
copy'g /dev/boot9 to /tmp/dkdx 82 of 82 start 839  
copy'g /dev/root9 to /tmp/dkdx nnnnn of 198500 start 31003  
copy'g /dev/etc9 to /tmp/dkdx nnnnn of 5000 start 480503  
copy'g /dev/tdas9 to /tmp/dkdx nnnnn of 60000 start 956720  
copy'g /dev/tlp9 to /tmp/dkdx nnnnn of 23000 blocks start 1144324  
copy'g /dev/db9 to /tmp/dkdx nnnnn of 21500 start 520503  
copy'g /dev/appdb09 to /tmp/dkdx nnnnn of 32768 start 1026020  
copy'g /dev/appdb19 to /tmp/dkdx nnnnn of 32768 start 1058788  
copy'g /dev/amabfiles9 to /tmp/dkdx nnnnn of 500 start 1025020  
copy'g /dev/amabfiles9 to /tmp/dkdx nnnnn of 500 start 1025520  
copy'g /dev/update9 to /tmp/dkdx nnnnn of 40000 start 436003  
copy'g /dev/gtt9 to /tmp/dkdx nnnnn of 20000 start 1124324  
copy'g /dev/bwm9 to /tmp/dkdx nnnnn of 30000 start 490503  
REPT Idgen.sh  RESTORE 4AP<17>XX.RY from root9 COMPLETE Month Day, Year HH:MM:SS  
REPT Idgen.sh - COMPLETED CODE 0  
EXC ENVIR UPROC /tools/3b21/ldgen.sh 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.**

Copy 4E24 1afile to MHD 9

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/cp1afile.sh"

Note: Copying 1afile will take approximately 15 minutes to complete.

Response:

On the 3B20D APS ROP

REPT cp1afile.sh - Copy 4E<24>XX.XX RX from 1afileX to 1afile09 & 1afile19 STARTING DATE:
Month Day, Year HH:MM:SS

REPT MIRA NOTHING TO STOP NO UNITS QUEUED
STOP DMQ COMPLETED
STOP:DMQ! PF

REPT cp1afile.sh - Copy 4E<24>XX.XX RX from 1afileX to 1afile09 & 1afile19 COMPLETE
DATE: Month Day, Year HH:MM:SS

In addition, the following information will be printed to the ROP when the program is completed.

******* cp1afile.sh's Log File DATE: Month Day, Year HH:MM:SS *******

cp1afile.sh 1afile1 to 1afile09 -1b -p cp1afile.sh DATE: Month Day, Year HH:MM:SS

REPT cp1afile.sh - Copy 4E<24>XX.XX RX from 1afile1 to 1afile09 & 1afile19
STARTING DATE: Month Day, Year HH:MM:SS

copy'g /dev/1afileX to /dev/1afile09 196608 blks starting at 563503

copy'g /dev/1afileX to /dev/1afile19 196608 blks start 760111

REPT cp1afile.sh - Copy 4E<24>XX.XX RX from 1afileX to 1afile09 & 1afile19
COMPLETE DATE: Month Day, Year HH:MM:SS

Saving all 3B20D Log files to MHD 9

copy'g /dev/log to /dev/log9 8300

REPT cp1afile.sh - COMPLETED CODE 0

EXC ENVIR UPROC /tools/3b21/cp1afile.sh COMPLETED

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.**

Load 4E23 1afile from MHD 9 to 3B21D APS

1. At 3B21D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/lid1afile.sh"

Note: Loading 1afile will take approximately 15 minutes to complete.

Response:

On the 3B21D APS ROP
Expect mount PRMs (PRM-0 x800.)
REPT MIRA NOTHING TO STOP NO UNITS QUEUED
STOP DMQ COMPLETED
STOP:DMQ! PF

REPT lid1afile.sh - RESTORE 4E<23>XX.XX RX from 1afile09 STARTING DATE: Month Day,
Year HH:MM:SS

REPT lid1afile.sh - RESTORE 4E<23>XX.XX RX from 1afile09 COMPLETE DATE: Month Day,
Year HH:MM:SS

In addition, the following information will be printed to the ROP when the program is completed.

******* lid1afile.sh's Log File DATE: Month Day, Year HH:MM:SS *******

REPT lid1afile.sh - RESTORE 4E<23>XX.XX RX from 1afile09 STARTING DATE: Month Day,
Year HH:MM:SS

copy'g /dev/1afile09 to /tmp/dkdx 196608 of 196608 start 553503 (Normal file)

copy'g /dev/1afile09 to /tmp/dkdx 196608 of 196608 start 750111 (Update file)

REPT lid1afile.sh - RESTORE 4E<23>XX.XX RX from 1afile09 COMPLETE DATE: Month Day,
Year HH:MM:SS

Saving the 3B20D log file from /dev/log9

copy'g /dev/log9 to /tmp/dkd0 nnnn of 8300 start 1006720

Saving the log files from /dev/cdmp

copy'g /dev/cdmp to /tmp/dkd0 nnnn of 4000 start 469503

REPT lid1afile.sh - COMPLETED CODE 0

EXC ENVIR UPROC /tools/3b21/lid1afile.sh 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.**

Load 4E24 1afile from MHD 9 to 3B21D APS

1. At 3B21D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/lid1afile.sh"

Note: Loading 1afile will take approximately 15 minutes to complete.

Response:

On the 3B21D APS ROP
Expect mount PRMs (PRM-0 x800.)
REPT MIRA NOTHING TO STOP NO UNITS QUEUED
STOP DMQ COMPLETED
STOP:DMQ! PF

**REPT lid1afile.sh - RESTORE 4E<24>XX.XX RX from 1afile09 STARTING DATE: Month Day,
Year HH:MM:SS**

**REPT lid1afile.sh - RESTORE 4E<24>XX.XX RX from 1afile09 COMPLETE DATE: Month Day,
Year HH:MM:SS**

In addition, the following information will be printed to the ROP when the program is completed.

******* lid1afile.sh's Log File DATE: Month Day, Year HH:MM:SS *******

**REPT lid1afile.sh - RESTORE 4E<24>XX.XX RX from 1afile09 STARTING DATE: Month Day,
Year HH:MM:SS**

copy'g /dev/1afile09 to /tmp/dkdx 196608 of 196608 start 563503 (Normal file)

copy'g /dev/1afile09 to /tmp/dkdx 196608 of 196608 start 760111 (Update file)

**REPT lid1afile.sh - RESTORE 4E<24>XX.XX RX from 1afile09 COMPLETE DATE: Month Day,
Year HH:MM:SS**

Saving the 3B20D log file from /dev/log9

copy'g /dev/log9 to /tmp/dkd0 nnnn of 8300 start 1016720

Saving the log files from /dev/cdmp

copy'g /dev/cdmp to /tmp/dkd0 nnnn of 4000 start 476503

REPT lid1afile.sh - COMPLETED CODE 0

EXC ENVIR UPROC /tools/3b21/lid1afile.sh 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.**

3B20D Power Distribution Frame Fuse Locations

- Record fuse locations at the power distribution frames for the 3B20D power feeders.

3B20D FRAME	MODEL 1 DESIG	MODEL 2&3 DESIG	LOAD (A or B)	FUSE PANEL	FUSE NUMBER
CU 0	A	A			
	B	B			
	C	*			
	D	D			
	E	E			
	F	F			
	*	G			
	*	H			
	*	J			
CU 1	A	A			
	B	B			
	C	*			
	D	D			
	E	E			
	F	F			
	*	G			
	*	H			
IOP 0	A	*			
	B	*			
	C	*			
IOP 1	A	*			
	B	*			
	C	*			
	D	*			

* - Not Applicable to particular 3B20D model.

3B20D POWER DISTRIBUTION FRAME FUSE LOCATIONS (Cont.)					
3B20D FRAME	MODEL 1 DESIG	MODEL 2&3 DESIG	LOAD (A or B)	FUSE PANEL	FUSE NUMBER
SCSI	A	A			
	C	C			
	D	D			
	F	F			
	G	G			
	J	J			
MT†	A	A			
	B	B			

† - The Tape Drive cabinets/frames may not have -48V feeders connected.

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

3B20D Miscellaneous A Frame Protected AC Fuse Locations for Tape Drive Cabinets/Frames

1. Record Protected AC fuse locations at the Miscellaneous A frame for the 3B20D Tape Drive cabinets/frames.

3B20D FRAME	FUSE NUMBER
Tape Drive Cabinets/Frames	

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

Checklist

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-512		DLP-547		DLP-582	
NTP-002		DLP-513		DLP-548		DLP-583	
NTP-003		DLP-514		DLP-549		DLP-584	
NTP-004		DLP-515		DLP-550		DLP-585	
NTP-005		DLP-516		DLP-551		DLP-586	
NTP-006		☐ DLP-517		DLP-552		DLP-587	
NTP-007		☐ DLP-518		DLP-553		DLP-588	
NTP-008		DLP-519		DLP-554		☐ DLP-589	
NTP-009		☐ DLP-520		DLP-555		CKL-891	
NTP-010		☐ DLP-521		DLP-556		TNG-893	
NTP-011		☐ DLP-522		DLP-557			
NTP-012		☐ DLP-523		DLP-558			
NTP-013		DLP-524		DLP-559			
NTP-014		DLP-525		DLP-560			
NTP-015		DLP-526		☐ DLP-561			
NTP-016		DLP-527		DLP-562			
NTP-017		DLP-528		DLP-563			
NTP-018		DLP-529		DLP-564			
NTP-019		DLP-530		DLP-565			
NTP-020		DLP-531		DLP-566			
☐ NTP-021		DLP-532		DLP-567			
☐ NTP-022		DLP-533		DLP-568			
☐ NTP-023		DLP-534		DLP-569			
DLP-500		DLP-535		DLP-570			
DLP-501		DLP-536		DLP-571			
☐ DLP-502		DLP-537		DLP-572			
DLP-503		DLP-538		DLP-573			
DLP-504		DLP-539		DLP-574			
DLP-505		DLP-540		☐ DLP-575			
☐ DLP-506		DLP-541		DLP-576			
☐ DLP-507		DLP-542		☐ DLP-577			
DLP-508		DLP-543		DLP-578			
DLP-509		DLP-544		DLP-579			
DLP-510		DLP-545		DLP-580			
DLP-511		DLP-546		DLP-581			

• Revised or added item

☐ Not Used item

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 THE 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 Issue 2 IXL-001 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 Issue 2		NTP-016 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. If you, in this case, 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.

LT 123-456-789 Issue 2	MOUNT TAPE	DLP-500 Page 1 of 2
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.