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4ESSTM Switch

3B20D Attached Processor System (APS) to 3B21D APS Conversion

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Document Title: **4ESS™** Switch 3B20D Attached Processor System (APS) to 3B21D APS Conversion

Document No.: 234-353-400AC

Issue 1

Date: August 26, 1998

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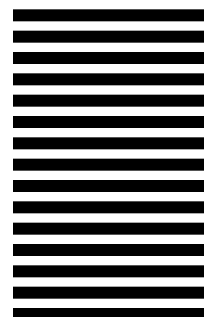
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TASK INDEX LIST

FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
Acceptance	NTP-002
Verify 3B20D APS Alarms	NTP-003
Grow MHD 9 in 3B21D APS and Mount DUP Cabinet in 3B20D APS SCSI Cabinet - Support to Installer (INST)	NTP-004
Perform Preliminary Steps Prior to Copying Data Bases to the Stand-Alone 3B21D APS	NTP-005
Copy Databases From the 3B20D APS to the Stand-Alone 3B21D APS and Boot - Support to Installer (INST)	NTP-006
Connect API 0 and SIN/EIN (LN09 3) to 3B20D APS CU 0 Side of Conversion Switch Box - Support to Installer (INST)	NTP-007
Connect API 1 and SIN/EIN (LN41 3) to 3B20D APS CU 0 Side of Conversion Switch Box - Support to Installer (INST)	NTP-008
Connect RPCN00 00, DLN00 5, and DLN00 10 to 3B20D APS CU 0 Side of Conversion Switch Box - Support to Installer (INST)	NTP-009
Connect RPCN32 00, DLN32 5, and DLN32 10 to 3B20D APS CU 0 Side of Conversion Switch Box - Support to Installer (INST)	NTP-010
Connect API 0 and SIN/EIN (LN09 3) to 3B20D APS CU 1 Side of Conversion Switch Box - Support to Installer (INST)	NTP-011
Connect API 1 and SIN/EIN (LN41 3) to 3B20D APS CU 1 Side of Conversion Switch Box - Support to Installer (INST)	NTP-012
Connect RPCN00 00, DLN00 5, and DLN00 10 to 3B20D APS CU 1 Side of Conversion Switch Box - Support to Installer (INST)	NTP-013
Connect RPCN32 00, DLN32 5, and DLN32 10 to 3B20D APS CU 1 Side of Conversion Switch Box - Support to Installer (INST)	NTP-014
Perform Preliminary Steps During the Evening Shift Prior to Booting to the 3B21D APS	NTP-015
Copy 1afiles From the 3B20D APS to the 3B21D APS - Support to Installer (INST)	NTP-016
Boot to the 3B21D APS	NTP-017
Connect Link Cables, Scan and SD Cables, Alarm Cables, and Write Back Up Tapes - Support to Installer (INST)	NTP-018

FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
Degrow and Remove MHD 9 From 3B21D APS Cabinet - Support to Installer (INST).....	NTP-019
Disconnect API 0, SIN/EIN (LN09 3), RPCN00 0, DLN00 5, and DLN00 10 From 3B21D APS CU 0 Side of Conversion Switch Box - Support to Installer (INST).....	NTP-020
Disconnect API 1, SIN/EIN (LN41 3), RPCN32 0, DLN32 5, and DLN32 10 From 3B21D APS CU 0 Side of Conversion Switch Box - Support to Installer (INST).....	NTP-021
Disconnect API 0, SIN/EIN (LN09 3), RPCN00 0, DLN00 5, and DLN00 10 From 3B21D APS CU 1 Side of Conversion Switch Box - Support to Installer (INST).....	NTP-022
Disconnect API 1, SIN/EIN (LN41 3), RPCN32 0, DLN32 5, and DLN32 10 From 3B21D APS CU 1 Side of Conversion Switch Box - Support to Installer (INST).....	NTP-023

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: 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 observe the following alarm tests. 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. 7. 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 and continue. Notify the NCC project coordinator and document the alarm failure on the 3B21D MMO - WMS ticket. Any alarm failure should be fixed one week prior to booting to the 3B21D APS. The alarms will be tested again after the conversion to the 3B21D APS.	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 85; Otherwise, if office is equipped with a Model 2/3 3B20D APS, go to Step 86.	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	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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	—
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	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the on position (up).	TELCO	—
62	At the ABB1 circuit pack (EQL 72-176), depress the OFF switch.	TELCO	—
63	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	—
64	At the ABB1 circuit pack (EQL 72-176), depress the ON switch.	TELCO	—
65	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	
66	At the ABB1 circuit pack (EQL 72-176), operate the ROS/RST switch to RST .	TELCO	—
67	Wait for IOP and associated subunits to restore to service. Response DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
68	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
69	At 3B20D APS MCRT, ensure that the MAJOR clears.	TELCO/INST	—
70	At 3B20D APS MCRT, enter message SW:PORTSW! to switch IOPs.	TELCO	—
71	Wait for 3B20D APS MCRT to repaint.	TELCO/INST	—
72	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	—
73	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	—
74	At the ABB1 circuit pack (EQL 72-176) for out of service IOP, operate the ROS/RST switch to ROS .	TELCO	—
75	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the off position (down).	TELCO	—
76	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	
77	At the out of service IOP, operate on-off switch on the 136 power unit (EQL 64-127) to the on position (up).	TELCO	—
78	At the ABB1 circuit pack (EQL 72-176), depress the OFF switch.	TELCO	—
79	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	—
80	At the ABB1 circuit pack (EQL 72-176), depress the ON switch.	TELCO	—
81	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	—
82	At the ABB1 circuit pack (EQL 72-176), operate the ROS/RST switch to RST .	TELCO	—
83	Wait for IOP and associated subunits to restore to service. Response DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
84	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
85	At 3B20D APS MCRT, ensure that the MAJOR clears.	TELCO/INST	—
86	If office is equipped with a Model 2/3 3B20D APS, perform Steps 87 through 117; Otherwise, if office is not equipped with a Model 2/3 APS, go to Step 118.	TELCO/INST	—
87	At 3B20D APS MCRT, on the Common Processor Display page (102), determine which CU is STBY .	TELCO	—
88	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.		
89	Wait for FAN A and FAN B LEDs on fan unit to light.	TELCO/INST	—
90	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	—
91	At fan unit in 3B20D APS, depress ON/RESET pushbutton.	TELCO	—
92	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	—
93	At 3B20D APS MCRT, depress ALM RLS key.	TELCO	—
94	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	
95	At 3B20D APS MCRT, on the Common Processor Display page (102), determine if MTTY and ROP are port switched to the same MTTYC.	TELCO	—
96	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	—
97	At 3B20D APS MCRT, on the Common Processor Display page (102), determine which IOP is NOT port switched to MTTY and ROP.	TELCO	—
98	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	—
99	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	—
100	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	—
101	At the TN6 circuit pack (EQL 33-162), operate the ROS/RST switch to ROS .	TELCO	—
102	At the TN6 circuit pack (EQL 33-162), depress the OFF switch.	TELCO	—
103	At 3B20D APS frame/cabinet, unseat 495FA circuit pack (EQL 33-178) associated with out of service IOP.	TELCO	—
104	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	
105	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	—
106	At 3B20D APS frame cabinet, seat 495FA circuit pack (EQL 33-178) associated with out of service IOP.	TELCO	—
107	At the TN6 circuit pack (EQL 33-162), depress the OFF switch.	TELCO	—
108	Ensure the following: - End guard minor lamp goes off. - Grid MN goes off.	TELCO/INST	—
109	At the TN6 circuit pack (EQL 33-162), depress the ON switch.	TELCO	—
110	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	—
111	At 1B Processor MCC terminal, depress ALM RLS key.	TELCO	—
112	Ensure the following: - Audible major alarm retires. - At 1B Processor MCC terminal, MAJOR clears. - Grid MJ goes off.	TELCO/INST	—
113	At the TN6 circuit pack (EQL 33-162), operate the ROS/RST switch to RST .	TELCO	—
114	Wait for IOP and associated subunits to restore to service. Response DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
115	At 3B20D APS MCRT, enter message SW:PORTSW! to switch IOPs.	TELCO	—
116	Wait for 3B20D APS MCRT to repaint.	TELCO/INST	—
117	Repeat Steps 98 through 114 for other IOP.	TELCO/INST	—
118	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	—
119	Notify next higher support organization that alarm testing is complete.	TELCO	—
120	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 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 circuit pack will be called MHD 9.		
9	At the 3B21D cabinet, install the UN375 circuit pack at location 62-088. Response: OFF LED lights.	INST	—
10	At the UN375 MHD 9 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 9 circuit pack to spin up.	INST	—
12	At the UN375 MHD 9 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 9 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 9 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 9 circuit pack (EQL 62-088), but do not remove at this time.	INST	—
22	Wait 1 minute to allow the UN375 MHD 9 circuit pack to spin down.	INST	—
23	At the 3B21D cabinet, remove the UN375 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	
	INSTALLING DUP CABINET INTO 3B20D CABINET		
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 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 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 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 over long periods and MHD 9 circuit pack must be removed.		
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 (CNAC for AT&T) 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 MPC 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: <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. 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 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	At 3B20D APS MCRT, enter message INH:AUD:DLN! Response: INH AUD COMPLETED	TELCO	—
15	At 3B20D APS MCRT, enter message INH:RCV:ON! Response: INH RCV COMPLETED 4ESS INH RCV COMPL RECENT CHANGE INHIBIT ON	TELCO	—
16	At 3B20D APS MCRT, enter message INH:RCV:APPDB,APP ALL! Response: On the 3B20D APS ROP INH RCV APPDB APP ALL COMPLETED	TELCO	—
17	At 3B20D APS MCRT, enter message INH:FTA;APP ALL! Response: On the 3B20D APS ROP INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR IBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR OBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR CORE INH FTA APP ALL COMPLETE	TELCO	—
18	At 3B20D APS MCRT, enter message INH:ADB,APP IBGTT! Response: On the 3B20D APS ROP INH ADB COMPLETED, FOR IBGTT	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 3B20D APS MCRT, enter message INH:DCC! Response: On the 3B20D APS ROP INH DCC IN PROGRESS APPDB DCC IS INHIBITED FOR IBGTT INH DCC COMPLETE	TELCO	—
	<i>COPYING 3B20D ECD TO MHD 9</i>		
20	At 3B20D APS MCRT, copy 3B20D APS generic to MHD 9 (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<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.)	TELCO/INST	DLP-537

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
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	TELCO/INST DLP-537

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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-574
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 circuit pack at location 15-140 and insert this pack into an approved anti-static bag to safely move to the 3B21D APS.	INST	—
27	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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
28	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	
29	Installer can proceed at Step 39 while TELCO is performing Steps 30 through 38.	TELCO/INST	—
30	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.	TELCO	—
31	At 3B20D APS MCRT, enter message ALW:AUD:ECD! to allow ECD audits. Response: ALW AUD COMPLETED	TELCO	—
32	At 3B20D APS MCRT, enter message ALW:AUD:DLN! to allow DLN audits. Response: ALW AUD COMPLETED	TELCO	—
33	At 3B20D APS MCRT, enter message INH:RCV:OFF! Response: 4ESS INH RCV COMPL RECENT CHANGE INHIBIT OFF	TELCO	—
34	At 3B20D APS MCRT, enter message ALW:RCV:APPDB,APP ALL! to allow application data base recent changes. Response: On the 3B20D APS ROP ALW:RCV:APPDB APP ALL COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
35	At 3B20D APS MCRT, enter message ALW:FTA;APP ALL! to allow file transfer. Response: On the 3B20D APS ROP ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR IBGTT ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR OBGTT ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR CORE ALW FTA APP ALL COMPLETE	TELCO	—
36	At 3B20D APS MCRT, enter message ALW:DCC! to allow data consistency checks. Response: On the 3B20D APS ROP ALW DCC IN PROGRESS APPDB DCC IS ALLOWED FOR IBGTT ALW DCC COMPLETE	TELCO	—
37	At 3B20D APS MCRT, enter message ALW:ADB,APP IBGTT! to allow automated database backup (ADB). Response: On the 3B20D APS ROP ALW ADB COMPLETED, FOR IBGTT	TELCO	—
38	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	—
39	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>		
40	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	—
41	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	—
42	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	—
43	At the 3B21D cabinet, install the UN375 circuit pack at location 62-088. Response: OFF LED lights.	INST	—
44	At the UN375 MHD 9 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	
45	Wait 30 seconds to allow the UN375 MHD 9 circuit pack to spin up.	INST	—
46	At the UN375 MHD 9 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	—
47	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	—
48	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	—
49	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	
50	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 - a LN09-3 REPT DLNRETRO.21 - a LN41-3 REPT DLNRETRO.21 LN00-xx ADDED TO SCRIPT FILE REPT DLNRETRO.21 LN32-xx ADDED TO SCRIPT FILE REPT DLNRETRO.21 COMPLETE CODE 0 REPT CFTPURGE STARTED REPT CFTPURGE COMPLETE - NOTHING TO PURGE REPT ATPRETRO STARTED * REPT ATPRETRO COMPLETE * * Only received if ATP feature enabled. (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/atpscript TO /database/appecd * REPT DATABASE CONVERSION STARTED * REPT DATABASE CONVERSION IN PROGRESS * APPLYING atpscript TO /database/appecd * REPT DATABASE CONVERSION COMPLETED * SUCCESSFULLY APPLIED SCRIPT atpscript TO /database/appecd * * Only received if ATP feature enabled. REPT CONVERT.IO - SUCCESSFULLY APPLIED /etc/bwm/atpscript 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	
51	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	INST	—
52	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	INST	—
53	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	—
54	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/ldgen.sh" to load generic from MHD 9 to the 3B21D. Note: Loading the generic 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<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 ldgen.sh RESTORE 4AP<16>XX.RY from root9 COMPLETE Month Day, Year HH:MM:SS (Output messages continued on next page.)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Response: (continued) 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<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 Idgen.sh RESTORE 4AP<16>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	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>BOOTING THE 3B21D APS</i>		
55	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain the EAI Page.	INST	—
56	At 3B21D APS MCRT, enter 22 in command mode to force processors to access the secondary disks (CU 0, MHD 1).	INST	—
57	At 3B21D APS MCRT, ensure SET is highlighted for Sec Disk.	INST	—
58	At 3B21D APS MCRT, enter 31 in command mode to clear initialization from Backup-Root .	INST	—
59	At 3B21D APS MCRT, ensure SET is not displayed next to Backup-Root .	INST	—
60	At 3B21D APS MCRT, enter 33 in command mode to clear MIN-CONFIG .	INST	—
61	At 3B21D APS MCRT, ensure MIN-CONFIG is not highlighted and SET is not displayed beside MIN-CONFIG .	INST	—
62	At 3B21D APS MCRT, enter 10 in command mode to force CU 0 on-line.	INST	—
63	At 3B21D APS MCRT, enter y to force CU 0 on-line.	INST	—
64	At 3B21D APS MCRT, ensure FONL CU-0 is highlighted.	INST	—
65	At 3B21D APS MCRT, enter 54 in command mode to boot the 3B21D APS.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
66	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	—
67	If failure occurs, go to Step 68; otherwise, if system comes up on the 3B21D APS, go to Step 69.	INST	—
68	<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. Wait for a boot fail indication or boot to successfully complete. (Continued on next page)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
68	Reboot continued: 7. On 3B21D APS MCRT 102 page, if system recovered on CU 1 MHD 1, send failure information to next higher support organization to determine what caused the boot failure; then continue at Step 69. 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.		
69	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	—
70	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	INST	—
71	At 3B21D APS MCRT, on EAI Page, enter 14 in command mode to clear forces. Response: REPT CU a NO LONGER FORCED ONLINE	INST	—
72	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	—
73	At 3B21D APS MCRT, enter message OP:OOS:CU! and determine which CU is listed (out-of-service).	INST	—
74	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	INST	—
75	At 3B21D APS MCRT, enter message RST:CU a! (a = CU member number determined earlier) to restore out-of-service CU to service.	INST	—
76	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page	INST	—
77	On the Common Processor Display Page, determine state of MHD 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
78	Perform one of the following: A. If MHD 0 is OOS, perform Steps 79 through 82. B. If MHD 0 is INIT, go to Step 83. C. If MHD 0 is ACT, go to Step 85.	INST	—
79	At 3B21D APS MCRT, enter message OP:DMQ! and determine if MHD 0 is listed.	INST	—
80	If MHD 0 is not listed, perform Step 81; otherwise, if MHD 0 is listed, wait for MHD 0 to go INIT on the Common Processor Display Page and then go to Step 83.	INST	—
81	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	—
82	Go to Step 85.	INST	—
83	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	INST	—
84	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	—
85	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	
86	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	—
87	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	—
88	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	—
89	At the UN375 MHD 9 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	—
90	At the UN375 MHD 9 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	
91	Unlatch the UN375 MHD 9 circuit pack (EQL 62-088), but do not remove at this time.	INST	—
92	Wait 1 minute to allow the UN375 MHD 9 circuit pack to spin down.	INST	—
93	At the 3B21D cabinet, remove the UN375 circuit pack at location 62-088 and insert this pack into an approved anti-static bag. Store safely until needed for conversion.	INST	—
94	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	
95	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 120 in command mode to obtain the DFC Status Display Page.	INST	—
96	On the DFC Status Display Page (120), determine if any MHDs are OOS.	INST	—
97	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	—
98	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	—
99	At 3B21D APS MCRT, enter message INH:AUD:ALL! to inhibit all 3B21D APS audits. Response: INH AUD COMPLETED	INST	—
100	Notify the NCC to contact Don Lauer (NSDnet) at 1-800-232-6717 that OSS cable testing can proceed. Request the NCC to notify the installer when cable testing is complete.	TELCO	—
101	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect API 0 and SIN/EIN (LN09 3) 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 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 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 - CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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: 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	—
51	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 54.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
52	Determine if enough time remains in this shift to complete SIN/EIN connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
53	If enough time DOES remain, go to Step 81; otherwise, if enough time DOES NOT remain, perform Steps 54 through 70 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting SIN/EIN through the conversion switch box.		
54	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		
55	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
56	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	
57	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
58	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
59	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	—
60	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	—
61	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
62	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	
63	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
64	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	—
65	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
66	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	
67	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	—
68	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
69	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	—
70	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	—
71	Safe point to temporarily stop this procedure. If this office does not have SIN/EIN, end of procedure; otherwise continue at next step when resuming.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
72	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	—
73	Verify 3B20D APS system status.	TELCO	DLP-500
74	Safe point to temporarily stop this procedure.	TELCO/INST	—
75	If procedure was stopped in Step 74, 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	
76	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	—
77	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
78	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
79	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	—
80	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	—
	START OF CU 0 DSCH CONNECTION TO SIN/EIN (LN09 3)		
81	Notify next higher support organization that SIN/EIN (LN09 3) is going to be connected to the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN09 3 will be removed from service.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
83	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	—
	VERIFY SIN/EIN (LN09 3) STATUS		
84	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
85	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
86	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
87	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
88	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS , enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
89	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
90	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 0 (DGN:LN09 3:PH 34,CU 0!). Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	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	—
92	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	—
93	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 SIN/EIN (LN09 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN09 3 will be isolated also.		
94	At 3B20D APS MCRT, isolate SIN/EIN (LN09 3) (CFR:RING, LN09 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN09 3 COMPL	TELCO	DLP-522
95	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
96	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
97	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - LN09 3 - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
98	At CNI ring node cabinet 06, on SIN/EIN (LN09 3) circuit pack (EQL 37-092 or 45-092), ensure NT and RQ LEDs are on. This indicates the SIN/EIN (LN09 3) is isolated.	TELCO	—
99	At CNI ring node cabinet 06, unseat the SIN/EIN (LN09 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
	CONNECTING SIN/EIN (LN09 3) DSCH TO CONVERSION SWITCH BOX		
	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 SIN/EIN (LN09 3), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.		
100	At backplane of CNI ring node cabinet 06, carefully disconnect the DSCH cable associated with SIN/EIN (LN09 3).	INST	—
101	At backplane of CNI ring node cabinet 06, carefully connect the new DSCH cable associated with SIN/EIN (LN09 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At CNI ring node cabinet 06, seat SIN/EIN (LN09 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
103	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with SIN/EIN (LN09 3).	INST	—
104	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with SIN/EIN (LN09 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
105	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
106	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 diagnostics may be due to cable reversals at the SIN/EIN (CU 0 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/or 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/or 35, perform the following at SIN/EIN: 1. At CNI ring node cabinet 06, unseat the SIN/EIN (LN09 3) TN69B circuit pack (EQL 37-118 or 45-118). 2. At SIN/EIN (LN09 3), disconnect DSCH cable at location 37-118-306 or 45-118-306. 3. At SIN/EIN (LN09 3), connect DSCH cable, disconnected from location 37-118-106 or 45-118-106 earlier, to location 37-118-306 or 45-118-306. 4. At CNI ring node cabinet 06, seat the SIN/EIN (LN09 3) TN69B circuit pack (EQL 37-118 or 45-118). 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.		
107	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
108	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 0 (DGN:LN09 3:PH 34, CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
109	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
110	At 3B20D APS MCRT, on the Ring Node Status Display Page (1106), enter 609 in command mode to display the ring node frame group for SIN/EIN (LN09 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B20D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
112	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
113	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) is in AVL/STBY .	TELCO	—
114	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	—
115	Soak SIN/EIN (LN09 3) 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	—
116	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
117	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	
118	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 AND/OR SIN/EIN (LN09 3) WITH CU 0 ACTIVE		
119	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
120	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 On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
121	If API 0 DSCH cable was connected during this shift, continue with the next step; otherwise, if API 0 DSCH cable was connected during a previous shift, go to Step 131.	TELCO	—
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	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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	—
131	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS , enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
137	At 3B20D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
138	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
139	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
140	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
141	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
142	At 3B20D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY , enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS . At 3B20D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
143	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	
144	Soak CU 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	—
145	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
146	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are new units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
147	Soak CU 0 and SIN/EIN (LN09 3) 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 SIN/EIN (LN09 3) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
148	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect API 1 and SIN/EIN (LN41 3) 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 3. The following NTPs must have been completed: • NTP-007 (for 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 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 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 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 - CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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: 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	—
51	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 54.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
52	Determine if enough time remains in this shift to complete SIN/EIN connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
53	If enough time DOES remain, go to Step 81; otherwise, if enough time DOES NOT remain, perform Steps 54 through 70 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting SIN/EIN through the conversion switch box.		
54	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		
55	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
56	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	
57	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
58	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
59	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	—
60	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	—
61	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
62	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	
63	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
64	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	—
65	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
66	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	
67	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	—
68	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
69	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	—
70	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	—
71	Safe point to temporarily stop this procedure. If this office does not have SIN/EIN, end of procedure; otherwise continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
72	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	—
73	Verify 3B20D APS system status.	TELCO	DLP-500
74	Safe point to temporarily stop this procedure.	TELCO/INST	—
75	If procedure was stopped in Step 74, 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	
76	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	—
77	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
78	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
79	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	—
80	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	—
	START OF CU 0 DSCH CONNECTION TO SIN/EIN (LN41 3)		
81	Notify next higher support organization that SIN/EIN (LN41 3) is going to be connected to the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN41 3 will be removed from service.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
83	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	—
	VERIFY SIN/EIN (LN41 3) STATUS		
84	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
85	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
86	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
87	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
88	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS , enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
89	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
90	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 0 (DGN:LN41 3:PH 34,CU 0!). Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	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	—
92	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	—
93	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 SIN/EIN (LN41 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN41 3 will be isolated also.		
94	At 3B20D APS MCRT, isolate SIN/EIN (LN41 3) (CFR:RING, LN41 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN41 3 COMPL	TELCO	DLP-522
95	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
96	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
97	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - LN41 3 - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
98	At CNI ring node cabinet 38, on SIN/EIN (LN41 3) circuit pack (EQL 37-092 or 45-092), ensure NT and RQ LEDs are on. This indicates the SIN/EIN (LN41 3) is isolated.	TELCO	—
99	At CNI ring node cabinet 38, unseat the SIN/EIN (LN41 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
	CONNECTING SIN/EIN (LN41 3) DSCH TO CONVERSION SWITCH BOX		
	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 SIN/EIN (LN41 3), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.		
100	At backplane of CNI ring node cabinet 38, carefully disconnect the DSCH cable associated with SIN/EIN (LN41 3).	INST	—
101	At backplane of CNI ring node cabinet 38, carefully connect the new DSCH cable associated with SIN/EIN (LN41 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At CNI ring node cabinet 38, seat SIN/EIN (LN41 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
103	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with SIN/EIN (LN41 3).	INST	—
104	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with SIN/EIN (LN41 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
105	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
106	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 diagnostics may be due to cable reversals at the SIN/EIN (CU 0 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/or 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/or 35, perform the following at SIN/EIN: 1. At CNI ring node cabinet 38, unseat the SIN/EIN (LN41 3) TN69B circuit pack (EQL 37-118 or 45-118). 2. At SIN/EIN (LN41 3), disconnect DSCH cable at location 37-118-306 or 45-118-306. 3. At SIN/EIN (LN41 3), connect DSCH cable, disconnected from location 37-118-106 or 45-118-106 earlier, to location 37-118-306 or 45-118-306. 4. At CNI ring node cabinet 38, seat the SIN/EIN (LN41 3) TN69B circuit pack (EQL 37-118 or 45-118). 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.		
107	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
108	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 0 (DGN:LN41 3:PH 34, CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
109	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
110	At 3B20D APS MCRT, on the Ring Node Status Display Page (1106), enter 641 in command mode to display the ring node frame group for SIN/EIN (LN41 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B20D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
112	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
113	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) is in AVL/STBY .	TELCO	—
114	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	—
115	Soak SIN/EIN (LN41 3) 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	—
116	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
117	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	
118	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 AND/OR SIN/EIN (LN41 3) WITH CU 0 ACTIVE		
119	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
120	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 On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO	—
121	If API 1 DSCH cable was connected during this shift, continue with the next step; otherwise, if API 1 DSCH cable was connected during a previous shift, go to Step 131.	TELCO	—
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	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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	—
131	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS , enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
137	At 3B20D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
138	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
139	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
140	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
141	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
142	At 3B20D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY , enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS . At 3B20D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
143	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	
144	Soak CU 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 1 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
145	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
146	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are new units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
147	Soak CU 0 and SIN/EIN (LN41 3) 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 SIN/EIN (LN41 3) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
148	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect RPCN00 0, DLN00 5, and DLN00 10 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 6. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR RPCN00 0 TO CONVERSION SWITCH BOX CONVERSION 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 6 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 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. - 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/INST	—
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 system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that RPCN00 0 is going to be connected to the conversion switch box.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B20D APS AND CU 0 FOR RPCN00 0 CONNECTION		
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	—
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 (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
12	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	—
13	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
14	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
15	At 3B20D APS MCRT, Ensure Major State for RPCN32 0 is ACT .	TELCO	—
16	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	
17	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
18	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 REPT CU 0 REMOVED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
20	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	—
21	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
22	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
23	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		
24	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.		
25	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
26	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
27	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
28	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	
29	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	—
30	At 3B20D APS CU 0 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0	TELCO	—
31	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	—
32	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.		
33	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	
34	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	—
35	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 19-086) for RPCN00 0.	TELCO	—
36	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
37	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	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
39	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 CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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.		
40	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.		
41	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	
42	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
43	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
44	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
45	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
46	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	—
47	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	—
48	Determine if enough time remains in this shift to complete DLN00 5 (LN00 5) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 79; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 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 5 (LN00 5) through the conversion switch box.		
50	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
51	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	—
52	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	
53	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 RPCN00 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 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
56	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	
57	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
58	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
59	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
60	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
61	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	—
62	Soak CU 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 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	
63	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
64	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	—
65	Notify next higher support organization that RPCN00 0 connection to the conversion switch box is complete.	TELCO	—
66	Soak CU 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 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	—
67	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
68	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	—
69	Verify 3B20D APS system status.	TELCO	DLP-500
70	Safe point to temporarily stop this procedure.	TELCO/INST	—
71	If procedure was stopped in Step 70, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
72	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	
73	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
74	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
75	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	—
76	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
77	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	—
78	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 DLN00 5 (LN00 5)</i>		
79	Notify next higher support organization that DLN00 5 (LN00 5) is going to be connected to the conversion switch box.	TELCO	—
80	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
81	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
82	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 5 (LN00 5) CONNECTION		
85	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 5 (LN00 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 5 (LN00 5) will be isolated also.		
86	At 3B20D APS MCRT, isolate DLN00 5 (LN00 5) (CFR:RING,LN00 5;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 5 COMPL	TELCO	DLP-531
87	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
88	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 5 (LN00 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
89	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	
90	At CNI ring node cabinet 00, on DLN00 5 (LN00 5) circuit pack (EQL 37-058), ensure NT and RQ LEDs are on. This indicates the LN00 5 is isolated.	TELCO	—
91	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 37-086) for DLN00 5.	TELCO	—
	<i>DLN00 5 (LN00 5) 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 5 (LN00 5), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
92	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 5 (LN00 5).	INST	—
93	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 5 (LN00 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
94	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 37-086) for DLN00 5.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN00 5 (LN00 5).	INST	—
96	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN00 5 (LN00 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
97	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
98	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 5 (CU 0 CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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 5: 1. At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 37-086) for DLN00 5. 2. At DLN00 5, disconnect DSCH cable at location 37-086-306. 3. At DLN00 5, connect DSCH cable, disconnected from location 37-086-106 earlier, to location 37-086-306. 4. At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 37-086) for DLN00 5. 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.		
99	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 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.		
100	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5), specifying phase 34 and CU 0 (DGN:LN00 5: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 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
101	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
102	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 5 (LN00 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
103	At 3B20D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
104	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
105	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 5 (LN00 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
106	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	—
107	Soak DLN00 5 (LN00 5) 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	—
108	Determine if enough time remains in this shift to complete DLN00 10 (LN00 10) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
109	If enough time DOES remain, go to Step 148; otherwise, if enough time DOES NOT remain, perform Steps 110 through 135 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 10 (LN00 10) through the conversion switch box.		
110	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
111	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	
112	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
113	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 RPCN00 0 AND/OR DLN00 5 (LN00 5) WITH CU 0 ACTIVE		
114	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	
115	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	—
116	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 122.	TELCO/INST	—
117	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
118	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
119	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
120	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
121	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	
122	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
123	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
124	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
125	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
126	At 3B20D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
127	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
129	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY , enter one of the following messages to make DLN00 5 (LN00 5) ACT : SW:DLN,LN00 5,LN32 05! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
130	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	—
131	Soak CU 0, RPCN00 0, and DLN00 5 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
132	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	
133	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	—
134	Notify next higher support organization that RPCN00 0 and DLN00 5 connection to the conversion switch box is complete.	TELCO	—
135	Soak CU 0, RPCN00 0, and DLN00 5 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
136	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
137	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	—
138	Verify 3B20D APS system status.	TELCO	DLP-500
139	Safe point to temporarily stop this procedure.	TELCO/INST	—
140	If procedure was stopped in Step 139, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
141	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	
142	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
143	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
144	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	—
145	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
146	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	—
147	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 DLN00 10 (LN00 10)</i>		
148	Notify next higher support organization that DLN00 10 (LN00 10) is going to be connected to the conversion switch box.	TELCO	—
149	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
150	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
151	At 3B20D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT , enter one of the following messages to make DLN00 10 (LN00 10) STBY : SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 10 (LN00 10) CONNECTION		
154	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 10 (LN00 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 10 (LN00 10) will be isolated also.		
155	At 3B20D APS MCRT, isolate DLN00 10 (LN00 10) (CFR:RING,LN00 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 10 COMPL	TELCO	DLP-531
156	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
157	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 10 (LN00 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
158	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	
159	At CNI ring node cabinet 00, on DLN00 10 (LN00 10) circuit pack (EQL 53-058) ensure NT and RQ LEDs are on. This indicates the LN00 10 is isolated.	TELCO	—
160	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 53-086) for DLN00 10.	TELCO	—
	<i>DLN00 10 (LN00 10) 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 10 (LN00 10), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
161	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 10 (LN00 10).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
162	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 10 (LN00 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
163	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 53-086) for DLN00 10.	TELCO	—
164	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN00 10 (LN00 10).	INST	—
165	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN00 10 (LN00 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
166	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
167	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 10 (CU 0 CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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 10: 1. At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 53-086) for DLN00 10. 2. At DLN00 10, disconnect DSCH cable at location 53-086-306. 3. At DLN00 10, connect DSCH cable, disconnected from location 53-086-106 earlier, to location 53-086-306. 4. At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 53-086) for DLN00 10. 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.		
168	At 3B20D APS MCRT, diagnose DLN00 10 (LN00 10) (DGN:LN00 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 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.		
169	At 3B20D APS MCRT, diagnose DLN00 10 (LN00 10), specifying phase 34 and CU 0 (DGN:LN00 10: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 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
170	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
171	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B20D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
173	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
174	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 10 (LN00 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	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	—
176	Soak DLN00 10 (LN00 10) 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		
177	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
178	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	—
179	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 RPCN00 0, DLN00 5 (LN00 5), AND/OR DLN00 10 (LN00 10) WITH CU 0 ACTIVE</i>		
180	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
181	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
182	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	—
183	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 189.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
184	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
185	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
186	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
187	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
188	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
189	If DLN00 5 (LN00 5) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN00 5 (LN00 5) was connected in a previous shift, go to Step 195.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
191	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
192	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
193	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
194	At 3B20D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
195	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
196	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
197	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY, enter one of the following messages to make DLN00 5 (LN00 5) ACT: SW:DLN,LN00 5,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
198	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
199	At 3B20D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT, enter one of the following messages to make DLN00 10 (LN00 10) STBY: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	At 3B20D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
202	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 3B20D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is STBY, enter one of the following messages to make DLN00 10 (LN00 10) ACT: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
204	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	—
205	Soak CU 0, RPCN00 0, DLN00 5, and DLN00 10 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	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	
207	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	—
208	Notify next higher support organization that RPCN00 0, DLN00 5, and DLN00 10 connection to the conversion switch box is complete.	TELCO	—
209	Soak CU 0, RPCN00 0, DLN00 5, and DLN00 10 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
210	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect RPCN32 0, DLN32 5, and DLN32 10 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 6. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 0 side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR RPCN32 0 TO CONVERSION SWITCH BOX CONVERSION 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 6 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 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. - 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/INST	—
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 system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that RPCN32 0 is going to be connected to the conversion switch box.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B20D APS AND CU 0 FOR RPCN32 0 CONNECTION		
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	—
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 (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
12	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	—
13	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
14	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
15	At 3B20D APS MCRT, Ensure Major State for RPCN00 0 is ACT .	TELCO	—
16	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	
17	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
18	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 REPT CU 0 REMOVED RMV CU 0 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
20	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	—
21	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
22	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
23	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		
24	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.		
25	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
26	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
27	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
28	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	
29	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	—
30	At 3B20D APS CU 0 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 0	TELCO	—
31	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	—
32	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.		
33	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	
34	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	—
35	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 19-086) for RPCN32 0.	TELCO	—
36	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
37	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	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
39	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 CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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.		
40	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.		
41	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	
42	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
43	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
44	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
45	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
46	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	—
47	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	—
48	Determine if enough time remains in this shift to complete DLN32 5 (LN32 5) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 79; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 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 5 (LN32 5) through the conversion switch box.		
50	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
51	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	—
52	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	
53	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 RPCN32 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 active. Response: On Common Processor Display Page (102), CU 0 changes to ACT On 3B20D APS MCRT ROP, SW CU 0 COMPLETED.	TELCO/INST	—
56	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	
57	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
58	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
59	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
60	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
61	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	—
62	Soak CU 0 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 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	
63	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
64	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	—
65	Notify next higher support organization that RPCN32 0 connection to the conversion switch box is complete.	TELCO	—
66	Soak CU 0 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 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	—
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	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	—
69	Verify 3B20D APS system status.	TELCO	DLP-500
70	Safe point to temporarily stop this procedure.	TELCO/INST	—
71	If procedure was stopped in Step 70, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
72	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	
73	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
74	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
75	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	—
76	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
77	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	—
78	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 5 (LN32 5)</i>		
79	Notify next higher support organization that DLN32 5 (LN32 5) is going to be connected to the conversion switch box.	TELCO	—
80	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
81	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
82	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 5 (LN32 5) CONNECTION		
85	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 5 (LN32 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 5 (LN32 5) will be isolated also.		
86	At 3B20D APS MCRT, isolate DLN32 5 (LN32 5) (CFR:RING,LN32 5;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 5 COMPL	TELCO	DLP-531
87	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
88	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 5 (LN32 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
89	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	
90	At CNI ring node cabinet 32, on DLN32 5 (LN32 5) circuit pack (EQL 37-058), ensure NT and RQ LEDs are on. This indicates the LN32 5 is isolated.	TELCO	—
91	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 37-086) for DLN32 5.	TELCO	—
	<i>DLN32 5 (LN32 5) 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 5 (LN32 5), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
92	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 5 (LN32 5).	INST	—
93	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 5 (LN32 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
94	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 37-086) for DLN32 5.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN32 5 (LN32 5).	INST	—
96	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN32 5 (LN32 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
97	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
98	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 5 (CU 0 CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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 5: 1. At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 37-086) for DLN32 5. 2. At DLN32 5, disconnect DSCH cable at location 37-086-306. 3. At DLN32 5, connect DSCH cable, disconnected from location 37-086-106 earlier, to location 37-086-306. 4. At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 37-086) for DLN32 5. 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.		
99	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 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.		
100	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5), specifying phase 34 and CU 0 (DGN:LN32 5: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 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
101	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
102	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 5 (LN32 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
103	At 3B20D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
104	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
105	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 5 (LN32 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
106	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	—
107	Soak DLN32 5 (LN32 5) 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	—
108	Determine if enough time remains in this shift to complete DLN32 10 (LN32 10) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
109	If enough time DOES remain, go to Step 148; otherwise, if enough time DOES NOT remain, perform Steps 110 through 135 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 10 (LN32 10) through the conversion switch box.		
110	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
111	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	
112	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
113	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 RPCN32 0 AND/OR DLN32 5 (LN32 5) WITH CU 0 ACTIVE		
114	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	
115	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	—
116	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 122.	TELCO/INST	—
117	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
118	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
119	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
120	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
121	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	
122	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
123	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
124	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
125	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
126	At 3B20D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
127	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
129	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 05! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
130	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	—
131	Soak CU 0, RPCN32 0, and DLN32 5 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
132	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	
133	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	—
134	Notify next higher support organization that RPCN32 0 and DLN32 5 connection to the conversion switch box is complete.	TELCO	—
135	Soak CU 0, RPCN32 0, and DLN32 5 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
136	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
137	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	—
138	Verify 3B20D APS system status.	TELCO	DLP-500
139	Safe point to temporarily stop this procedure.	TELCO/INST	—
140	If procedure was stopped in Step 139, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
141	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	
142	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
143	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
144	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	—
145	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
146	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	—
147	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 10 (LN32 10)</i>		
148	Notify next higher support organization that DLN32 10 (LN32 10) is going to be connected to the conversion switch box.	TELCO	—
149	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
150	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
151	At 3B20D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT , enter one of the following messages to make DLN32 10 (LN32 10) STBY : SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 10 (LN32 10) CONNECTION		
154	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 10 (LN32 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 10 (LN32 10) will be isolated also.		
155	At 3B20D APS MCRT, isolate DLN32 10 (LN32 10) (CFR:RING, LN32 10; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 10 COMPL	TELCO	DLP-531
156	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
157	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 10 (LN32 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
158	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	
159	At CNI ring node cabinet 32, on DLN32 10 (LN32 10) circuit pack (EQL 53-058) ensure NT and RQ LEDs are on. This indicates the LN32 10 is isolated.	TELCO	—
160	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 53-086) for DLN32 10.	TELCO	—
	<i>DLN32 10 (LN32 10) 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 10 (LN32 10), from/to the link node backplane since the adjacent DSCH cable is connected to CU 1 which is the active CU.</i>		
161	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 10 (LN32 10).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
162	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 10 (LN32 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
163	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 53-086) for DLN32 10.	TELCO	—
164	At 3B20D APS CU 0 backplane, carefully disconnect the DSCH cable associated with DLN32 10 (LN32 10).	INST	—
165	At 3B20D APS CU 0 backplane, carefully connect the new DSCH cable associated with DLN32 10 (LN32 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
166	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
167	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 10 (CU 0 CU 1 DSCH connectors swapped at the time of installation. Correcting the reversal would involve removing a DSCH from the active CU. Failures 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 10: 1. At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 53-086) for DLN32 10. 2. At DLN32 10, disconnect DSCH cable at location 53-086-306. 3. At DLN32 10, connect DSCH cable, disconnected from location 53-086-106 earlier, to location 53-086-306. 4. At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 53-086) for DLN32 10. 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.		
168	At 3B20D APS MCRT, diagnose DLN32 10 (LN32 10) (DGN:LN32 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 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.		
169	At 3B20D APS MCRT, diagnose DLN32 10 (LN32 10), specifying phase 34 and CU 0 (DGN:LN32 10: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 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
170	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
171	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B20D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
173	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
174	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 10 (LN32 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	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	—
176	Soak DLN32 10 (LN32 10) 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		
177	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
178	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	—
179	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 RPCN32 0, DLN32 5 (LN32 5), AND/OR DLN32 10 (LN32 10) WITH CU 0 ACTIVE		
180	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
181	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
182	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	—
183	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 189.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
184	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
185	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
186	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
187	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
188	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
189	If DLN32 5 (LN32 5) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN32 5 (LN32 5) was connected in a previous shift, go to Step 195.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
191	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
192	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
193	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
194	At 3B20D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
195	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
196	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
197	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
198	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
199	At 3B20D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT, enter one of the following messages to make DLN32 10 (LN32 10) STBY: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	At 3B20D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
202	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 3B20D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is STBY, enter one of the following messages to make DLN32 10 (LN32 10) ACT: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
204	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	—
205	Soak CU 0, RPCN32 0, DLN32 5, and DLN32 10 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	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	
207	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	—
208	<i>Notify next higher support organization to contact Michelle Stathum at 1-732-576-5371 with the scheduled date of the conversion to the 3B21D APS;</i> also, notify next higher support organization that RPCN32 0, DLN32 5, and DLN32 10 connection to the conversion switch box is complete.	TELCO	—
209	Soak CU 0, RPCN32 0, DLN32 5, and DLN32 10 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
210	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect API 0 and SIN/EIN (LN09 3) 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 3. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 0 side) • NTP-010 (for 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: <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 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. - 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	—
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: 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	—
51	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 54.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
52	Determine if enough time remains in this shift to complete SIN/EIN connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
53	If enough time DOES remain, go to Step 81; otherwise, if enough time DOES NOT remain, perform Steps 54 through 70 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting SIN/EIN through the conversion switch box.		
54	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		
55	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
56	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	
57	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
58	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
59	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	—
60	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	—
61	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
62	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	
63	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
64	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	—
65	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
66	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	
67	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	—
68	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
69	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	—
70	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	—
71	Safe point to temporarily stop this procedure. If this office does not have SIN/EIN, end of procedure; otherwise continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
72	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	—
73	Verify 3B20D APS system status.	TELCO	DLP-500
74	Safe point to temporarily stop this procedure.	TELCO/INST	—
75	If procedure was stopped in Step 74, 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	
76	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	—
77	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
78	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
79	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	—
80	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	—
	START OF CU 1 DSCH CONNECTION TO SIN/EIN (LN09 3)		
81	Notify next higher support organization that SIN/EIN (LN09 3) is going to be connected to the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN09 3 will be removed from service.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
83	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	—
	VERIFY SIN/EIN (LN09 3) STATUS		
84	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
85	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
86	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
87	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
88	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS , enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
89	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
90	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 1 (DGN:LN09 3:PH 34,CU 1!). Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	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	—
92	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	—
93	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 SIN/EIN (LN09 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN09 3 will be isolated also.		
94	At 3B20D APS MCRT, isolate SIN/EIN (LN09 3) (CFR:RING, LN09 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN09 3 COMPL	TELCO	DLP-522
95	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
96	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
97	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - LN09 3 - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
98	At CNI ring node cabinet 06, on SIN/EIN (LN09 3) circuit pack (EQL 37-092 or 45-092), ensure NT and RQ LEDs are on. This indicates the SIN/EIN (LN09 3) is isolated.	TELCO	—
99	At CNI ring node cabinet 06, unseat the SIN/EIN (LN09 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
	CONNECTING SIN/EIN (LN09 3) DSCH TO CONVERSION SWITCH BOX		
	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 SIN/EIN (LN09 3), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.		
100	At backplane of CNI ring node cabinet 06, carefully disconnect the DSCH cable associated with SIN/EIN (LN09 3).	INST	—
101	At backplane of CNI ring node cabinet 06, carefully connect the new DSCH cable associated with SIN/EIN (LN09 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At CNI ring node cabinet 06, seat SIN/EIN (LN09 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
103	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with SIN/EIN (LN09 3).	INST	—
104	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with SIN/EIN (LN09 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
105	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
106	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	—
107	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
108	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 1 (DGN:LN09 3:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
109	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
110	At 3B20D APS MCRT, on the Ring Node Status Display Page (1106), enter 609 in command mode to display the ring node frame group for SIN/EIN (LN09 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B20D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
112	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
113	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) is in AVL/STBY .	TELCO	—
114	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	—
115	Soak SIN/EIN (LN09 3) 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	—
116	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
117	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	
118	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 AND/OR SIN/EIN (LN09 3) WITH CU 1 ACTIVE		
119	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
120	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 On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
121	If API 0 DSCH cable was connected during this shift, continue with the next step; otherwise, if API 0 DSCH cable was connected during a previous shift, go to Step 131.	TELCO	—
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	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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 STBY 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	—
131	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS , enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	At 3B20D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
137	At 3B20D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
138	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
139	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
140	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
141	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
142	At 3B20D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY , enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS . At 3B20D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
143	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	
144	Soak CU 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 0 must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
145	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
146	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are new units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
147	Soak CU 1 and SIN/EIN (LN09 3) 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 SIN/EIN (LN09 3) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
148	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect API 1 and SIN/EIN (LN41 3) 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 3. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 0 side) • NTP-010 (for CU 0 side) • NTP-011 (for 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 CONVERSION 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 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	—
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: 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	—
51	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 54.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
52	Determine if enough time remains in this shift to complete SIN/EIN connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
53	If enough time DOES remain, go to Step 81; otherwise, if enough time DOES NOT remain, perform Steps 54 through 70 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before connecting SIN/EIN through the conversion switch box.		
54	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		
55	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
56	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	
57	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
58	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
59	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	—
60	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	—
61	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
62	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	
63	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
64	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	—
65	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
66	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	
67	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	—
68	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
69	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	—
70	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	—
71	Safe point to temporarily stop this procedure. If this office does not have SIN/EIN, end of procedure; otherwise continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
72	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	—
73	Verify 3B20D APS system status.	TELCO	DLP-500
74	Safe point to temporarily stop this procedure.	TELCO/INST	—
75	If procedure was stopped in Step 74, 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	
76	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	—
77	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
78	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
79	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	—
80	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	—
	START OF CU 1 DSCH CONNECTION TO SIN/EIN (LN41 3)		
81	Notify next higher support organization that SIN/EIN (LN41 3) is going to be connected to the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN41 3 will be removed from service.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
83	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	—
	VERIFY SIN/EIN (LN41 3) STATUS		
84	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
85	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
86	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
87	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
88	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS , enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
89	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
90	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 1 (DGN:LN41 3:PH 34,CU 1!). Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	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	—
92	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	—
93	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 SIN/EIN (LN41 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN41 3 will be isolated also.		
94	At 3B20D APS MCRT, isolate SIN/EIN (LN41 3) (CFR:RING, LN41 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN41 3 COMPL	TELCO	DLP-522
95	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
96	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
97	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - LN41 3 - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
98	At CNI ring node cabinet 38, on SIN/EIN (LN41 3) circuit pack (EQL 37-092 or 45-092), ensure NT and RQ LEDs are on. This indicates the SIN/EIN (LN41 3) is isolated.	TELCO	—
99	At CNI ring node cabinet 38, unseat the SIN/EIN (LN41 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
	CONNECTING SIN/EIN (LN41 3) DSCH TO CONVERSION SWITCH BOX		
	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 SIN/EIN (LN41 3), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.		
100	At backplane of CNI ring node cabinet 38, carefully disconnect the DSCH cable associated with SIN/EIN (LN41 3).	INST	—
101	At backplane of CNI ring node cabinet 38, carefully connect the new DSCH cable associated with SIN/EIN (LN41 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At CNI ring node cabinet 38, seat SIN/EIN (LN41 3) TN69B circuit pack (EQL 37-118 or 45-118).	TELCO	—
103	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with SIN/EIN (LN41 3).	INST	—
104	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with SIN/EIN (LN41 3), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
105	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
106	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	—
107	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
108	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 1 (DGN:LN41 3:PH 34, CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
109	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
110	At 3B20D APS MCRT, on the Ring Node Status Display Page (1106), enter 641 in command mode to display the ring node frame group for SIN/EIN (LN41 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
111	At 3B20D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
112	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
113	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) is in AVL/STBY .	TELCO	—
114	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	—
115	Soak SIN/EIN (LN41 3) 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	—
116	At 3B20D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
117	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	
118	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 AND/OR SIN/EIN (LN41 3) WITH CU 1 ACTIVE		
119	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
120	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 On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO	—
121	If API 1 DSCH cable was connected during this shift, continue with the next step; otherwise, if API 1 DSCH cable was connected during a previous shift, go to Step 131.	TELCO	—
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	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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 STBY 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	—
131	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B20D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B20D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS , enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B20D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	At 3B20D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY NOT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561
137	At 3B20D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
138	At 3B20D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
139	At 3B20D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
140	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
141	At 3B20D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
142	At 3B20D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY , enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS . At 3B20D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
143	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	
144	Soak CU 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	—
145	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
146	At 1B Processor MCC terminal, enter 810 (SDC) to get a service degrading report printout. If there are new units listed in the report, contact next higher support organization for direction.	TELCO/INST	—
147	Soak CU 1 and SIN/EIN (LN41 3) 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 SIN/EIN (LN41 3) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
148	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect RPCN00 0, DLN00 5, and DLN00 10 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 6. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 0 side) • NTP-010 (for CU 0 side) • NTP-011 (for CU 1 side) • NTP-012 (for CU 1 side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR RPCN00 0 TO CONVERSION SWITCH BOX CONVERSION 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 6 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 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. - 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/INST	—
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 system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that RPCN00 0 is going to be connected to the conversion switch box.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B20D APS AND CU 1 FOR RPCN00 0 CONNECTION		
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	—
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 (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
12	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	—
13	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
14	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
15	At 3B20D APS MCRT, Ensure Major State for RPCN32 0 is ACT .	TELCO	—
16	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	
17	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
18	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 REPT CU 1 REMOVED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
20	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	—
21	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
22	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
23	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		
24	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.		
25	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
26	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
27	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
28	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	
29	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	—
30	At 3B20D APS CU 1 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1	TELCO	—
31	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	—
32	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.		
33	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	
34	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	—
35	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 19-086) for RPCN00 0.	TELCO	—
36	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
37	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	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
39	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	
40	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
	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.		
41	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	
42	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
43	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
44	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
45	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
46	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	—
47	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	—
48	Determine if enough time remains in this shift to complete DLN00 5 (LN00 5) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 79; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 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 5 (LN00 5) through the conversion switch box.		
50	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
51	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	—
52	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	
53	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 RPCN00 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 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
56	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	
57	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
58	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
59	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
60	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
61	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	—
62	Soak CU 1 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 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	
63	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
64	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	—
65	Notify next higher support organization that RPCN00 0 connection to the conversion switch box is complete.	TELCO	—
66	Soak CU 1 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 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	—
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	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	—
69	Verify 3B20D APS system status.	TELCO	DLP-500
70	Safe point to temporarily stop this procedure.	TELCO/INST	—
71	If procedure was stopped in Step 70, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
72	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	
73	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
74	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
75	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	—
76	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
77	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	—
78	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 5 (LN00 5)		
79	Notify next higher support organization that DLN00 5 (LN00 5) is going to be connected to the conversion switch box.	TELCO	—
80	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
81	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
82	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 5 (LN00 5) CONNECTION		
85	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 5 (LN00 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 5 (LN00 5) will be isolated also.		
86	At 3B20D APS MCRT, isolate DLN00 5 (LN00 5) (CFR:RING,LN00 5;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 5 COMPL	TELCO	DLP-531
87	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
88	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 5 (LN00 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
89	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	
90	At CNI ring node cabinet 00, on DLN00 5 (LN00 5) circuit pack (EQL 37-058), ensure NT and RQ LEDs are on. This indicates the LN00 5 is isolated.	TELCO	—
91	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 37-086) for DLN00 5.	TELCO	—
	<i>DLN00 5 (LN00 5) 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 5 (LN00 5), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
92	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 5 (LN00 5).	INST	—
93	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 5 (LN00 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
94	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 37-086) for DLN00 5.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN00 5 (LN00 5).	INST	—
96	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN00 5 (LN00 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
97	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
98	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	
99	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	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.		
100	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5), specifying phase 34 and CU 1 (DGN:LN00 5: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 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
101	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
102	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 5 (LN00 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
103	At 3B20D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
104	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
105	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 5 (LN00 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
106	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	—
107	Soak DLN00 5 (LN00 5) 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	—
108	Determine if enough time remains in this shift to complete DLN00 10 (LN00 10) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
109	If enough time DOES remain, go to Step 148; otherwise, if enough time DOES NOT remain, perform Steps 110 through 135 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 10 (LN00 10) through the conversion switch box.		
110	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
111	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	
112	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
113	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 RPCN00 0 AND/OR DLN00 5 (LN00 5) WITH CU 1 ACTIVE		
114	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	
115	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	—
116	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 122.	TELCO/INST	—
117	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
118	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
119	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
120	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
121	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	
122	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
123	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
124	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
125	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
126	At 3B20D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
127	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
129	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY , enter one of the following messages to make DLN00 5 (LN00 5) ACT : SW:DLN,LN00 5,LN32 05! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
130	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	—
131	Soak CU 1, RPCN00 0, and DLN00 5 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
132	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	
133	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	—
134	Notify next higher support organization that RPCN00 0 and DLN00 5 connection to the conversion switch box is complete.	TELCO	—
135	Soak CU 1, RPCN00 0, and DLN00 5 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
136	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
137	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	—
138	Verify 3B20D APS system status.	TELCO	DLP-500
139	Safe point to temporarily stop this procedure.	TELCO/INST	—
140	If procedure was stopped in Step 139, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
141	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	
142	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
143	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
144	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	—
145	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
146	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	—
147	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	
	<i>START OF CU 1 DSCH CONNECTION TO DLN00 10 (LN00 10)</i>		
148	Notify next higher support organization that DLN00 10 (LN00 10) is going to be connected to the conversion switch box.	TELCO	—
149	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
150	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
151	At 3B20D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT , enter one of the following messages to make DLN00 10 (LN00 10) STBY : SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 10 (LN00 10) CONNECTION		
154	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 10 (LN00 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 10 (LN00 10) will be isolated also.		
155	At 3B20D APS MCRT, isolate DLN00 10 (LN00 10) (CFR:RING,LN00 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 10 COMPL	TELCO	DLP-531
156	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
157	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 10 (LN00 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
158	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	
159	At CNI ring node cabinet 00, on DLN00 10 (LN00 10) circuit pack (EQL 53-058) ensure NT and RQ LEDs are on. This indicates the LN00 10 is isolated.	TELCO	—
160	At CNI ring node cabinet 00, unseat the TN69B circuit pack (EQL 53-086) for DLN00 10.	TELCO	—
	<i>DLN00 10 (LN00 10) 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 10 (LN00 10), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
161	At backplane of CNI ring node cabinet 00, carefully disconnect the DSCH cable associated with DLN00 10 (LN00 10).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
162	At backplane of CNI ring node cabinet 00, carefully connect the new DSCH cable associated with DLN00 10 (LN00 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
163	At CNI ring node cabinet 00, seat the TN69B circuit pack (EQL 53-086) for DLN00 10.	TELCO	—
164	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN00 10 (LN00 10).	INST	—
165	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN00 10 (LN00 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
166	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
167	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	
168	At 3B20D APS MCRT, diagnose DLN00 10 (LN00 10) (DGN:LN00 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	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.		
169	At 3B20D APS MCRT, diagnose DLN00 10 (LN00 10), specifying phase 34 and CU 1 (DGN:LN00 10: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 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
170	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
171	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B20D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
173	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
174	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 10 (LN00 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	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	—
176	Soak DLN00 10 (LN00 10) 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		
177	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
178	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	—
179	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 RPCN00 0, DLN00 5 (LN00 5), AND/OR DLN00 10 (LN00 10) WITH CU 1 ACTIVE		
180	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
181	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
182	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	—
183	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 189.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
184	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
185	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
186	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
187	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
188	At 3B20D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
189	If DLN00 5 (LN00 5) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN00 5 (LN00 5) was connected in a previous shift, go to Step 195.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
191	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
192	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
193	At 3B20D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
194	At 3B20D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
195	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
196	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
197	At 3B20D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY, enter one of the following messages to make DLN00 5 (LN00 5) ACT: SW:DLN,LN00 5,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
198	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
199	At 3B20D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT, enter one of the following messages to make DLN00 10 (LN00 10) STBY: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	At 3B20D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
202	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 3B20D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is STBY, enter one of the following messages to make DLN00 10 (LN00 10) ACT: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
204	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	—
205	Soak CU 1, RPCN00 0, DLN00 5, and DLN00 10 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	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	
207	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	—
208	Notify next higher support organization that RPCN00 0, DLN00 5, and DLN00 10 connection to the conversion switch box is complete.	TELCO	—
209	Soak CU 1, RPCN00 0, DLN00 5, and DLN00 10 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
210	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

Connect RPCN32 0, DLN32 5, and DLN32 10 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 labels on the old DSCH cables have been verified to have correct unit type and equipment location. 6. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 0 side) • NTP-010 (for CU 0 side) • NTP-011 (for CU 1 side) • NTP-012 (for CU 1 side) • NTP-013 (for CU 1 side).		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES FOR RPCN32 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 6 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/INST	—
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 system status.	TELCO	DLP-500
6	Safe point to temporarily stop this procedure.	TELCO/INST	—
7	If procedure was stopped in Step 6, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
8	Notify next higher support organization that RPCN32 0 is going to be connected to the conversion switch box.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF 3B20D APS AND CU 1 FOR RPCN32 0 CONNECTION		
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	—
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 (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
12	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	—
13	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
14	At 3B20D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
15	At 3B20D APS MCRT, Ensure Major State for RPCN00 0 is ACT .	TELCO	—
16	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	
17	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
18	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 REPT CU 1 REMOVED RMV CU 1 COMPLETED	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
20	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	—
21	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
22	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
23	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		
24	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.		
25	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
26	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
27	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
28	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	
29	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	—
30	At 3B20D APS CU 1 power switch, depress OFF pushbutton. Response: OFF LED lights At 3B20D APS MCRT, REPT POWER REMOVED CU 1	TELCO	—
31	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	—
32	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.		
33	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	
34	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	—
35	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 19-086) for RPCN32 0.	TELCO	—
36	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
37	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	—
38	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
39	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	
40	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
	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.		
41	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	
42	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
43	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
44	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
45	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
46	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	—
47	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	—
48	Determine if enough time remains in this shift to complete DLN32 5 (LN32 5) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
49	If enough time DOES remain, go to Step 79; otherwise, if enough time DOES NOT remain, perform Steps 50 through 66 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 5 (LN32 5) through the conversion switch box.		
50	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
51	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	—
52	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	
53	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 RPCN32 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 active. Response: On Common Processor Display Page (102), CU 1 changes to ACT On 3B20D APS MCRT ROP, SW CU 1 COMPLETED.	TELCO/INST	—
56	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	
57	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
58	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
59	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
60	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
61	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	—
62	Soak CU 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 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	
63	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
64	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	—
65	Notify next higher support organization that RPCN32 0 connection to the conversion switch box is complete.	TELCO	—
66	Soak CU 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 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	—
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	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	—
69	Verify 3B20D APS system status.	TELCO	DLP-500
70	Safe point to temporarily stop this procedure.	TELCO/INST	—
71	If procedure was stopped in Step 70, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
72	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	
73	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
74	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
75	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	—
76	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
77	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	—
78	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 5 (LN32 5)		
79	Notify next higher support organization that DLN32 5 (LN32 5) is going to be connected to the conversion switch box.	TELCO	—
80	At 3B20D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
81	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
82	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 5 (LN32 5) CONNECTION		
85	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 5 (LN32 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 5 (LN32 5) will be isolated also.		
86	At 3B20D APS MCRT, isolate DLN32 5 (LN32 5) (CFR:RING, LN32 5; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 5 COMPL	TELCO	DLP-531
87	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
88	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 5 (LN32 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
89	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	
90	At CNI ring node cabinet 32, on DLN32 5 (LN32 5) circuit pack (EQL 37-058), ensure NT and RQ LEDs are on. This indicates the LN32 5 is isolated.	TELCO	—
91	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 37-086) for DLN32 5.	TELCO	—
	<i>DLN32 5 (LN32 5) 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 5 (LN32 5), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
92	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 5 (LN32 5).	INST	—
93	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 5 (LN32 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
94	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 37-086) for DLN32 5.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN32 5 (LN32 5).	INST	—
96	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN32 5 (LN32 5), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
97	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
98	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	
99	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	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.		
100	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5), specifying phase 34 and CU 1 (DGN:LN32 5: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 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
101	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
102	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 5 (LN32 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
103	At 3B20D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
104	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
105	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 5 (LN32 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
106	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	—
107	Soak DLN32 5 (LN32 5) 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	—
108	Determine if enough time remains in this shift to complete DLN32 10 (LN32 10) connection to the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
109	If enough time DOES remain, go to Step 148; otherwise, if enough time DOES NOT remain, perform Steps 110 through 135 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 10 (LN32 10) through the conversion switch box.		
110	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
111	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	
112	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
113	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 RPCN32 0 AND/OR DLN32 5 (LN32 5) WITH CU 1 ACTIVE		
114	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	
115	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	—
116	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 122.	TELCO/INST	—
117	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
118	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
119	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
120	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
121	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	
122	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
123	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
124	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
125	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
126	At 3B20D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
127	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
129	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 05! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
130	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	—
131	Soak CU 1, RPCN32 0, and DLN32 5 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
132	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	
133	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	—
134	Notify next higher support organization that RPCN32 0 and DLN32 5 connection to the conversion switch box is complete.	TELCO	—
135	Soak CU 1, RPCN32 0, and DLN32 5 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
136	Safe point to temporarily stop this procedure.	TELCO/INST	—
	PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY		
137	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	—
138	Verify 3B20D APS system status.	TELCO	DLP-500
139	Safe point to temporarily stop this procedure.	TELCO/INST	—
140	If procedure was stopped in Step 139, verify system status; otherwise, if procedure was not stopped, continue with next step.	TELCO	DLP-500
141	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	
142	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
143	At 3B20D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
144	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	—
145	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
146	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	—
147	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	
	<i>START OF CU 1 DSCH CONNECTION TO DLN32 10 (LN32 10)</i>		
148	Notify next higher support organization that DLN32 10 (LN32 10) is going to be connected to the conversion switch box.	TELCO	—
149	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
150	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
151	At 3B20D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT , enter one of the following messages to make DLN32 10 (LN32 10) STBY : SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 10 (LN32 10) CONNECTION		
154	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 10 (LN32 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 10 (LN32 10) will be isolated also.		
155	At 3B20D APS MCRT, isolate DLN32 10 (LN32 10) (CFR:RING,LN32 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 10 COMPL	TELCO	DLP-531
156	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
157	At 3B20D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 10 (LN32 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
158	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	
159	At CNI ring node cabinet 32, on DLN32 10 (LN32 10) circuit pack (EQL 53-058) ensure NT and RQ LEDs are on. This indicates the LN32 10 is isolated.	TELCO	—
160	At CNI ring node cabinet 32, unseat the TN69B circuit pack (EQL 53-086) for DLN32 10.	TELCO	—
	<i>DLN32 10 (LN32 10) 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 10 (LN32 10), from/to the link node backplane since the adjacent DSCH cable is connected to CU 0 which is the active CU.</i>		
161	At backplane of CNI ring node cabinet 32, carefully disconnect the DSCH cable associated with DLN32 10 (LN32 10).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
162	At backplane of CNI ring node cabinet 32, carefully connect the new DSCH cable associated with DLN32 10 (LN32 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
163	At CNI ring node cabinet 32, seat the TN69B circuit pack (EQL 53-086) for DLN32 10.	TELCO	—
164	At 3B20D APS CU 1 backplane, carefully disconnect the DSCH cable associated with DLN32 10 (LN32 10).	INST	—
165	At 3B20D APS CU 1 backplane, carefully connect the new DSCH cable associated with DLN32 10 (LN32 10), coming from the conversion switch box, to the location just vacated in the previous step.	INST	—
166	Ensure the old disconnected DSCH cable is correctly labeled and safely tied off	INST	—
167	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	
168	At 3B20D APS MCRT, diagnose DLN32 10 (LN32 10) (DGN:LN32 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-566
	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.		
169	At 3B20D APS MCRT, diagnose DLN32 10 (LN32 10), specifying phase 34 and CU 1 (DGN:LN32 10: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 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
170	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
171	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
172	At 3B20D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
173	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
174	At 3B20D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 10 (LN32 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
175	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	—
176	Soak DLN32 10 (LN32 10) 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		
177	At 3B20D APS MCRT, depress EA DISP (PF1) key	TELCO	—
178	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	—
179	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 RPCN32 0, DLN32 5 (LN32 5), AND/OR DLN32 10 (LN32 10) WITH CU 1 ACTIVE</i>		
180	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
181	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
182	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	—
183	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 189.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
184	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
185	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
186	At 3B20D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
187	At 3B20D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
188	At 3B20D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
189	If DLN32 5 (LN32 5) was connected to the conversion switch box during this shift, continue with next step; otherwise, if DLN32 5 (LN32 5) was connected in a previous shift, go to Step 195.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
190	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
191	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
192	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
193	At 3B20D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
194	At 3B20D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
195	At 3B20D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
196	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
197	At 3B20D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
198	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
199	At 3B20D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT, enter one of the following messages to make DLN32 10 (LN32 10) STBY: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	At 3B20D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
202	At 3B20D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 3B20D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is STBY, enter one of the following messages to make DLN32 10 (LN32 10) ACT: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to ACT. On 3B20D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
204	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	—
205	Soak CU 1, RPCN32 0, DLN32 5, and DLN32 10 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
206	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	
207	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	—
208	Notify next higher support organization that RPCN32 0, DLN32 5, and DLN32 10 connection to the conversion switch box is complete.	TELCO	—
209	Soak CU 1, RPCN32 0, DLN32 5, and DLN32 10 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
210	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. The NCC must be connected to the 3B20D and 3B21D APS MCRTs and the 1B Processor MTC and MCC terminals at the office being converted. 2. Telephone hookup between the NCC and the MOC area in the office being converted, for coordination must be available. 3. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 4. MHD 9 in the 3B21D APS must be grown. 5. The following NTPs must have been completed: • NTP-007 (for CU 0 side) • NTP-008 (for CU 0 side) • NTP-009 (for CU 0 side) • NTP-010 (for CU 0 side) • NTP-011 (for CU 1 side) • NTP-012 (for CU 1 side) • NTP-013 (for CU 1 side) • NTP-014 (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.	NCC	—
2	Verify 3B20D system status.	NCC	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)	NCC	—
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 (CNAC for AT&T) 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.	NCC	—
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.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
6	At 3B20D APS MCRT, run NIDATA audits.	NCC	DLP-542
7	At 3B20D APS MCRT, run file system audits to ensure no file system errors.	NCC	DLP-503
8	Update 3B20D APS backup partition.	NCC	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! • OP:AMA;RC!	NCC	—
10	Notify the onsite workforce and installer to complete the following steps.	NCC	—
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 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At 3B20D APS MCRT, enter message INH:AUD:ECD! Response: INH AUD COMPLETED	TELCO	—
20	At 3B20D APS MCRT, enter message INH:AUD:DLN! Response: INH AUD COMPLETED	TELCO	—
21	At 3B20D APS MCRT, enter message INH:RCV:APPDB,APP ALL! Response: On the 3B20D APS ROP, INH RCV APPDB APP ALL COMPLETED	TELCO	—
22	At 3B20D APS MCRT, enter message INH:FTA;APP ALL! Response: On the 3B20D APS ROP, INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR IBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR OBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR CORE INH FTA APP ALL COMPLETE	TELCO	—
23	At 3B20D APS MCRT, enter message INH:ADB,APP IBGTT! Response: On the 3B20D APS ROP, INH ADB COMPLETED, FOR IBGTT	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
24	At 3B20D APS MCRT, enter message INH:DCC! Response: On the 3B20D APS ROP, INH DCC IN PROGRESS APPDB DCC IS INHIBITED FOR IBGTT INH DCC COMPLETE	TELCO	—
	<i>COPYING 3B20D ECD TO MHD 9</i>		
25	At 3B20D APS MCRT, copy 3B20D APS generic to MHD 9 (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.)	TELCO/INST	DLP-537

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	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	TELCO/INST	DLP-537
26	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	
27	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	—
28	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	—
29	At the DUP cabinet, unlatch the UN375 MHD circuit pack (EQL 15-140), but do not remove at this time.	INST	—
30	Wait 1 minute to allow the UN375 MHD circuit pack to spin down.	INST	—
31	At the DUP cabinet, remove the UN375 circuit pack at location 15-140 and insert this pack into an approved anti-static bag to safely move to the 3B21D APS.	INST	—
32	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
33	Carefully move the UN375 MHD circuit pack to the 3B21D APS.	INST	—
	CONVERTING 3B20D ECD AND COPYING GENERIC FROM MHD 9 TO 3B21D APS		
34	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	
35	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	—
36	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	—
37	At the 3B21D cabinet, install the UN375 circuit pack at location 62-088. Response: OFF LED lights.	INST	—
38	At the UN375 MHD 9 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	—
39	Wait 30 seconds to allow the UN375 MHD 9 circuit pack to spin up.	INST	—
40	At the UN375 MHD 9 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	
41	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	—
42	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	—
43	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	
44	After entering the message in the next step, continue performing Steps 46 through 49. Periodically observe the ROP for errors and/or completion message. Do not proceed past Step 49 until Step 45 is complete.	TELCO/INST	—
45	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/convert.ecd" 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 - a LN09-3 REPT DLNRETRO.21 - a LN41-3 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 ATPRETRO STARTED * REPT ATPRETRO COMPLETE * * Only received if ATP feature is enabled. REPT NEWRETRO.21 IS BUILDING THE ECD CONVERSION SCRIPT REPT NEWRETRO.21 ECD CONVERSION COMPLETE REPT CONVERT.ECD - APPLYING 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 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 atpscript TO /database/appecd * REPT DATABASE CONVERSION STARTED * REPT DATABASE CONVERSION IN PROGRESS APPLYING atpscript TO /database/appecd * REPT DATABASE CONVERSION COMPLETED * SUCCESSFULLY APPLIED SCRIPT atpscript TO /database/appecd * REPT CONVERT.ECD - SUCCESSFULLY APPLIED /etc/bwm/atpscript * * Only received if ATP feature enabled. 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		
46	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	—
47	At 1B Processor MTC terminal, enter message UPD:COMMIT;NORMFILE! to lock out updates to the 1afile. Response: UPD:COMMIT COMPLETED TO NORMFILE	TELCO	—
48	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 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	—
49	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		
50	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	INST	—
51	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	INST	—
52	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	—
53	At 3B21D APS MCRT, enter message EXC:ENVIR:UPROC,FN"/tools/3b21/ldgen.sh" to load generic from MHD 9 to the 3B21D. Note: Loading the generic 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<16>XX.RY from root9 STARTING Month Day, Year HH:MM:SS REPT DIOP SIMPLEX PROCESSING COMPLETED REPT DKDRV INFO CODE X'537 REPT ldgen.sh RESTORE 4AP<16>XX.RY from root9 COMPLETE Month Day, Year HH:MM:SS (Output messages continued on next page.)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Response: (continued) 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<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/amafiles9 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 Idgen.sh RESTORE 4AP<16>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	INST	—
54	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-016 through NTP-018 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-015.		

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	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 9 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 9 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 9 circuit pack (EQL 62-088), but do not remove at this time.	INST	—
7	Wait 1 minute to allow the UN375 MHD 9 circuit pack to spin down.	INST	—
8	At the 3B21D cabinet, remove the UN375 circuit pack at location 62-088 and insert this pack into an approved anti-static bag to safely 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 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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
19	At the 3B20D APS MCRT, copy 1afile to MHD 9 (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<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 750111 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	TELCO/INST	DLP-538

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
20	If office does not contain CDRP, 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 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>		
	Note: 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 circuit pack at location 62-088.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
31	At the UN375 MHD 9 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 9 circuit pack to spin up.	INST	—
33	At the UN375 MHD 9 circuit pack (EQL 62-088), operate the ROS/RST switch to RST . <i>Note:</i> 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. Note: Copying 1afile will take approximately 10 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 ld1afile.sh - RESTORE 4E<23>XX.XX RX from 1afile09 STARTING DATE: Month Day, Year HH:MM:SS REPT ld1afile.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. ***** ld1afile.sh's Log File DATE: Month Day, Year HH:MM:SS ***** REPT ld1afile.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 ld1afile.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 4084 of 8300 start 1006720 Saving the log files from /dev/cdmp copy'g /dev/cdmp to /tmp/dkd0 1492 of 4000 start 469503 REPT ld1afile.sh - COMPLETED CODE 0 EXC ENVIR UPROC /tools/3b21/ld1afile.sh COMPLETED	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
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-017.	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 23 through 34. 2. The NCC must be connected to the 3B20D and 3B21D APS MCRTs and the 1B Processor MTC and MCC terminals at the office being converted. 3. Telephone hookup between NESAC, the NCC, and the MOC area in the office being converted, for coordination must be available. 4. The installer must have inserted the key in the key switch at the Remote Access Interface (RAI) box. 5. DLP-539, in this document, must be bookmarked in case back out is necessary. 6. An up to date set of 3B20D backup tapes must be available in case system reinitialization is required. 7. The following NTPs must have been completed: • NTP-015 • NTP-016.		

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
GENERAL WARNINGS AND NOTES WHEN BOOTING TO THE 3B21D APS 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: - The boot of the 3B attached processor systems (3B20D and 3B21D) are to be performed from the NCC. The NCC will direct the on-site workforce (OSWF) personnel when to operate the Remote Access Interface (RAI) switch to the 3B21D APS. - 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 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.	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
1	Place a check mark by each step when completed.	NCC	—
2	Ensure 3B20D and 3B21D APS printers, in the office being converted, are on and TNM data for this office is being saved.	NCC	—
3	At 3B20D APS MCRT, enter the following commands and save their ROP output to compare against the same commands on the 3B21D APS: • VER:MEMORY;APPDB! • OP:C7NET;ROUTING! • OP:C7NET;INTL! • OP:NODES!	NCC	—
	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!		
4	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	NCC	—
5	At 3B21D APS MCRT, on the Common Processor Display Page, determine the state of CU 0 (ACT or STBY)	NCC	—
6	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.	NCC	—
7	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain the EAI Page.	NCC	—
8	At 3B21D APS MCRT, enter 22 in command mode to force processors to access the secondary disks (CU 0, MHD 1).	NCC	—
9	At 3B21D APS MCRT, ensure SET is highlighted for Sec Disk.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
10	At 3B21D APS MCRT, enter 31 in command mode to clear initialization from Backup-Root .	NCC	—
11	At 3B21D APS MCRT, ensure SET is not displayed next to Backup-Root .	NCC	—
12	At 3B21D APS MCRT, enter 33 in command mode to clear MIN-CONFIG .	NCC	—
13	At 3B21D APS MCRT, ensure MIN-CONFIG is not highlighted and SET is not displayed beside MIN-CONFIG .	NCC	—
14	At 3B21D APS MCRT, enter 10 in command mode to force CU 0 on-line.	NCC	—
15	At 3B21D APS MCRT, enter y to force CU 0 on-line.	NCC	—
16	At 3B21D APS MCRT, ensure FONL CU-0 is highlighted.	NCC	—
17	At the Remote Access Interface (RAI) box, verify the key has been inserted into the key switch.	INST	—
18	If office does not contain CDRP, ensure that teleprocessing of AMA data is complete.	NCC	—
19	At 1B Processor MTC terminal, enter message INH:AUDMSG:NUM 19!	NCC	—
20	Wait for NOC approval before proceeding. <i>Caution: After receiving NOC approval, this procedure must be performed without interruption.</i>	NCC	—
21	At 3B20D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	NCC	—
22	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	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
23	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 <i>WARNING: Wait 10 seconds after receiving REPT AMA FORMATTER FLUSHED AMA RECORDS message before continuing.</i>	NCC	DLP-552
24	At 3B20D APS MCRT, depress EA DISP (PF1) key to obtain the EAI Page.	NCC	—
25	At 3B20D APS MCRT, enter 24 in command mode to inhibit sanity timer.	NCC	—
26	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.	NCC	—
	<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>		
27	At 3B20D APS MCRT, enter 11 in command mode to force CU 1 on-line.	NCC	—
28	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	NCC	—
29	Immediately after receiving the above responses at the 3B20D APS MCRT, direct onsite workforce to operate the key switch to 3B21 position at the Remote Access Interface box	NCC/OSWF	—
30	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.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
31	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	NCC	—
32	If failure occurs, go to Step 33; otherwise, if system comes up on the 3B21D APS, go to Step 34.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
33	<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>	NCC	—
34	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).	NCC	—
35	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	NCC	—
36	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	NCC	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
45	At 3B21D APS MCRT, enter message INH:RCV:APPDB,APP ALL! Response: On the 3B21D APS ROP INH RCV APPDB APP ALL COMPLETED	NCC	—
46	At 3B21D APS MCRT, enter message INH:FTA;APP ALL! Response: On the 3B21D APS ROP INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR IBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR OBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR CORE INH FTA APP ALL COMPLETE	NCC	—
47	At 3B21D APS MCRT, enter message INH:DCC! Response: On the 3B21D APS ROP INH DCC COMPLETE	NCC	—
48	At 3B21D APS MCRT, enter message OP:OOS:CU! and determine which CU is listed (out-of-service).	NCC	—
49	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	NCC	—
50	At 3B21D APS MCRT, restore out-of-service CU, determined earlier, to service (RST:CU a!).	NCC	DLP-540
	TESTING THE 3B21D APS CONFIGURATION AND 1AFILE AFTER BOOTING		
51	Determine if more than 35 seconds of TNM data was lost during the boot.	NCC	—
52	If more than 35 seconds of data was lost during the boot, perform Steps 53 through 62; otherwise, go to Step 63.	NCC	—
53	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	NCC	—
54	At 3B21D APS MCRT, on the Common Processor Display Page (102), ensure one SCC channel is ACT and other SCC channel is STBY .	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
55	Ensure 3B21D APS data is being logged in TNM through active SCC channel.	NCC	—
56	At 3B21D APS MCRT, remove active SCC from service (RMV:SCC a!). Response: RMV SCC a TASK x MESSAGE STARTED RMV SCC a COMPLETED	TELCO	DLP-506
57	At 3B21D APS MCRT, restore removed SCC to service (RST:SCC a!). Response: RST SCC a TASK x MESSAGE STARTED RST SCC a STOPPED X'5 RST SCC a COMPLETED	TELCO	DLP-507
58	Ensure 3B21D APS data is being logged in TNM through new active SCC channel.	NCC	—
59	At 3B21D APS MCRT, remove active SCC from service (RMV:SCC a!). Response: RMV SCC a TASK x MESSAGE STARTED RMV SCC a COMPLETED	TELCO	DLP-506
60	At 3B21D APS MCRT, restore removed SCC to service (RST:SCC a!). Response: RST SCC a TASK x MESSAGE STARTED RST SCC a STOPPED X'5 RST SCC a COMPLETED	TELCO	DLP-507
61	Ensure 3B21D APS data is being logged in TNM through new active SCC channel.	NCC	—
62	Request office personnel to send 3B21D APS ROP printout of this nights activities to NESAC. TNM logged data of 3B21D APS must also be sent to NESAC.	NCC	—
63	If office has TDAS, at 3B21D APS MCRT, run TDAS 1 audit (AUD:TDAS 1!).	NCC	DLP-541

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
64	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.	NCC	—
65	At 3B21D APS MCRT, enter message OP:RING;DETD! and ensure no "i" is listed for any link node (i=isolated).	NCC	—
66	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! • OP:C7NET;INTL!	NCC	—
67	Compare the above printouts with the appropriate printouts saved earlier, along with any expected changes.	NCC	—
68	At 3B21D APS MCRT, run NIDATA audits.	NCC	DLP-542
69	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	NCC	—
70	After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.	NCC	—
71	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).	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
72	At 1B Processor MTC terminal, enter message ALW:AUDMSG:NUM 19! to allow audit message 19.	NCC	—
73	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX.	NCC	—
74	At 3B21D APS MCRT, update the disk copy of the 1ASTAT file (AUD:APDRV 3,INS"STATFLAGS" !). <i>Note:</i> STATFLAGS must be typed in all capital letters.	NCC	DLP-543
75	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	—
76	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	
77	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	NCC	—
78	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! • OP:AMA;RC! • VER:MEMORY;APPDB!	NCC	—
79	Note: No differences should be detected except for the OBGTT portion of the VER:MEMORY;APPDB input message where there will be a slight change. Compare the above printouts with the appropriate printouts saved earlier, along with any expected changes.	NCC	—
80	At 3B21D APS MCRT, enter 102 in command mode to obtain the Common Processor Display Page	NCC	—
81	On the Common Processor Display Page, determine state of MHD 0.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
82	Perform one of the following: A. If MHD 0 is OOS, go to Step 83. B. If MHD 0 is INIT, go to Step 87. C. If MHD 0 is ACT, go to Step 89.	NCC	—
83	At 3B21D APS MCRT, enter message OP:DMQ! and determine if MHD 0 is listed.	NCC	—
84	If MHD 0 is not listed, perform Steps 85 and 86; otherwise, if MHD 0 is listed, wait for MHD 0 to go INIT on the Common Processor Display Page and then go to Step 87.	NCC/INST	—
85	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.	NCC/INST	—
86	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	NCC/INST	DLP-508
87	At 3B21D APS MCRT, depress EA DISP (PF1) key to obtain EAI page.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
88	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	NCC	—
	Note: In the next step, the file system must be running on root when the file system is verified.		
89	Run 3B21D file system audits to ensure no file system errors.	NCC	DLP-503
90	At 3B21D APS MCRT, on top line, compare the system name, time zone, and feature flag information for this office against like information on the 3B20D APS.	NCC	—
91	Ensure MHD 0 is restored to service (Step 86) before continuing.	NCC	—
92	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.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
93	At 3B21D APS MCRT, enter message ALW:RCV:APPDB,APP ALL! to allow application data base recent changes. Response: On the 3B21D APS ROP ALW:RCV:APPDB APP ALL COMPLETED	NCC	—
94	At 3B21D APS MCRT, enter message ALW:FTA;APP ALL! to allow file transfer. Response: On the 3B21D APS ROP ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR IBGTT ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR OBGTT ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR CORE ALW FTA APP ALL COMPLETE	NCC	—
95	At 3B21D APS MCRT, enter message ALW:DCC! to allow data consistency checks. Response: On the 3B21D APS ROP ALW DCC COMPLETE	NCC	—
96	At 3B21D APS MCRT, enter message ALW:ADB,APP IBGTT! to allow automated database backup (ADB). Response: On the 3B21D APS ROP ALW ADB COMPLETED, FOR IBGTT	NCC	—
97	At 3B21D APS MCRT, enter message INH:RCV:OFF! Response: 4ESS INH RCV COMPL RECENT CHANGE INHIBIT OFF	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
98	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 120 in command mode to obtain the DFC Status Display Page.	INST	—
99	On the DFC Status Display Page (120), determine if any MHDs are OOS.	INST	—
100	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.	NCC/INST	—
101	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	NCC	DLP-508
102	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108)	NCC	—
103	At 1B Processor MCC terminal, enter 801 (801 - RESTRICT RC) colored white on black). Response: ALW:RC MSG, MOC RESTRICTION RMVD.	NCC	—
104	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.	NCC/INST	—
105	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.	OSWF/INST	—
106	Go immediately to NTP-018.	OSWF/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-015 — NTP-016 — NTP-017.		
	<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	
	GENERAL NOTES FOR CABLE CONNECTIONS 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 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 - SDLs 20 and 22: Two AMA links can be equipped at the office. • NETB - SDL 30: One NETB link is equipped at the office. • PINETA - SDL 26: One PINETA link is equipped at the office. • DEMS/DARICS - SDL 26: One DEMS/DARICS link is equipped at the office. • SOP-P - SDL 26: One SOP-P link is equipped at the office. • NETA - SDL 30: One NETA link may be equipped at the office. • CAU - TTY 19: One CAU link may be equipped at the office. • RCAS - SDL 24: One RCAS/ODAD link is equipped at the office. • TOSS - SDLs 33 and 34: Two TOSS links can be equipped at the office. • SCANS - SDL 00: One SCANS link is equipped at the office. • TOPAS - SDL 01: One TOPAS link is equipped at the office. • NSCX: There can be multiple NSCX TC and/or DSD links equipped at the office.		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	Notes: (Continued) 3. NSDnet uses a shared transmission facility to connect the 4ESS Switch APS to various OS systems such as: IRAS, MAC-OSS (or NSA), DARICS, and NEMOS. 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 117 through 166 should be performed by the installer. Do not proceed past Step 166 until all OSS cables are connected.	TELCO/INST	—
3	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 114 in command mode to obtain Application Data Links Display page (114).	TELCO	—
4	At 3B21D APS MCRT, on the Application Data Links Display page (114), determine if the following are equipped or unequipped: - OC - SDL 20 - IC - SDL 22 - NEMOS (NETA) - SDL 28 - CAU - TTY 19 - TOSS - SDL 33 - TOSS - SDL 34	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
5	At 3B21D APS MCRT, enter 113 in command mode to obtain NSC Overview Display page (113).	TELCO	—
6	At 3B21D APS MCRT, on the NSC Overview Display page (113), determine if the following are equipped or unequipped: • DLNSC 02, 04, 06, and/or 08 - TTY 36 and/or 37 • DLNSC 01, 03, 05, and/or 07 - TTY 38 and/or 39 • DLNSC 10, 12, 14, and/or 16 - TTY 40 and/or 41 • DLNSC 09, 11, 13, and/or 15 - TTY 42 and/or 43 • DLNSC 18, and/or 20 - TTY 44 • DLNSC 17, and/or 19 - TTY 46 • DLNSC 68, 67, 66, and/or 65 - TTY 54 and/or 55	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
7	If office is equipped with AMASE AMA teleprocessing connection(s) (Step 4), perform Steps 8 through 18; otherwise, if office does not contain AMASE AMA teleprocessing connections, go to Step 19.	TELCO	—
	AMASE AMA TELEPROCESSING CABLE CONNECTION(S)		
8	If office is equipped with OC AMA teleprocessing (AMASE 0) connection, perform Step 9; otherwise, if office is not equipped with OC AMA teleprocessing (AMASE 0) connection, go to Step 10.	TELCO	—
9	At 3B21D APS MCRT, remove SDLC 10 from service (RMV:SDLC 10!). Response: RMV SDLC 10 COMPLETED	TELCO	DLP-544
10	If office is equipped with IC AMA teleprocessing (AMASE 1) connection, perform Step 11; otherwise, if office is not equipped with IC AMA teleprocessing (AMASE 1) connection, go to Step 12.	TELCO	—
11	At 3B21D APS MCRT, remove SDLC 11 from service (RMV:SDLC 11!). Response: RMV SDLC 11 COMPLETED	TELCO	DLP-544
12	At data set(s) for AMASE 0 and/or AMASE 1, locate AMASE 0 and/or AMASE 1 cable(s) and verify EQL(s).	TELCO	—
13	At data set(s) for AMASE 0 and/or AMASE 1, disconnect associated 3B20D APS cable(s) and connect new AMASE 0 and/or AMASE 1 cable(s).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
14	If office is equipped with OC AMA teleprocessing (AMASE 0) connection, perform Step 15; otherwise, if office is not equipped with OC AMA teleprocessing (AMASE 0) connection, go to Step 16.	TELCO	—
15	At 3B21D APS MCRT, restore SDLC 10 to service (RST:SDLC 10!). Response: RST SDLC 10 COMPLETED	TELCO	DLP-545
16	If office is equipped with IC AMA teleprocessing (AMASE 1) connection, perform Step 17; otherwise, if office is not equipped with IC AMA teleprocessing (AMASE 1) connection, go to Step 18.	TELCO	—
17	At 3B21D APS MCRT, restore SDLC 11 to service (RST:SDLC 11!). Response: RST SDLC 11 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 19. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 18 and continue where you left off.		
18	Initiate AMASE testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: NMAC - 1-602-844-6406 Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	NETB CABLE CONNECTION		
19	At 3B21D APS MCRT, remove SDLC 15 from service (RMV:SDLC 15!). Response: RMV SDLC 15 COMPLETED	TELCO	DLP-544
20	At front of MPC 1 panel on MPC-15 frame, disconnect NETB/RNMS cable from patch 1111 port 4 location (see DLP-577).	TELCO	—
21	At front of MPC 0 panel on MPC-15 frame, locate NETB cable associated with 3B21D APS and connect this cable to MPC 1 panel at patch 1111 port 4 location vacated in previous step.	TELCO	—
22	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 24. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 23 and continue where you left off.		
23	Initiate NETB testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: IRAS Customer Care - 1-816-995-3585 (leave an audix message) Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>PINETA/IRAS CABLE CONNECTION</i>		
24	At 3B21D APS MCRT, remove SDLC 13 from service (RMV:SDLC 13!). Response: RMV SDLC 13 COMPLETED	TELCO	DLP-544
25	At data set for PINETA/IRAS, locate new PINETA/IRAS cable and verify EQL.	TELCO	—
26	At data set for PINETA/IRAS, disconnect associated 3B20D APS cable and connect new PINETA/IRAS cable.	TELCO	—
27	At 3B21D APS MCRT, restore SDLC 13 to service (RST:SDLC 13!). Response: RST SDLC 13 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 29. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 28 and continue where you left off.		
28	Initiate PINETA/IRAS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: IRAS Customer Care - 1-816-995-3585 (leave an audix message) Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	DEMS/DARICS TESTING		
	Note: DEMS/DARICS accesses the 4ESS™ switch via PINET. No additional cabling is required.		
	Note: After notifying the responsible testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 30. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 29 and continue where you left off.		
29	Initiate DEMS/DARICS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: IRAS Customer Care - 1-816-995-3585 (leave an audix message) Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>SOP-P ACCESS TESTING</i>		
	Note: SOP-P accesses the 4ESS™ switch via PINET. No additional cabling is required.		
	Note: After notifying the responsible testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 31. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 30 and continue where you left off.		
30	Initiate SOP-P testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: IRAS Customer Care - 1-816-995-3585 (leave an audix message) Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
31	If office is equipped with NETA/NEMOS connection (Step 4), perform Steps 32 through 36; otherwise, if office is not equipped with NETA/NEMOS connection, go to Step 37.	TELCO	—
	NETA/NEMOS CABLE CONNECTION		
32	At 3B21D APS MCRT, remove SDLC 14 from service (RMV:SDLC 14!). Response: RMV SDLC 14 COMPLETED	TELCO	DLP-544
33	At front of MPC 0 panel on MPC-15 frame, locate new NETA/NEMOS cable and verify EQL (patch 0111 port 4).	TELCO	—
34	At front of MPC 0 panel on MPC-15 frame, disconnect associated 3B20D APS cable at patch 0111 port 4 location (see DLP-577) and connect new NETA/NEMOS cable.	TELCO	—
35	At 3B21D APS MCRT, restore SDLC 14 to service (RST:SDLC 14!). Response: RST SDLC 14 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 37. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 36 and continue where you left off.		
36	Initiate NETA/NEMOS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: IRAS Customer Care - 1-816-995-3585 (leave an audix message) Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
37	If office is equipped with CAU connection (Step 4), perform Steps 38 through 42; otherwise, if office is not equipped with CAU connection, go to Step 43.	TELCO	—
	CAU CABLE CONNECTION		
38	At 3B21D APS MCRT, remove TTYC 09 from service (RMV:TTYC 09!). Response: RMV TTYC 09 COMPLETED	TELCO	DLP-546
39	At data set for CAU, locate new CAU cable and verify EQL.	TELCO	—
40	At data set for CAU, disconnect associated 3B20D APS cable and connect new CAU cable.	TELCO	—
41	At 3B21D APS MCRT, restore TTYC 09 to service (RST:TTYC 09!). Response: RST TTYC 09 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 43. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 42 and continue where you left off.		
42	Initiate CAU testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Advanced Feature Software Center - 1-314-658-1304 Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	ODAD/RCAS CABLE CONNECTION		
43	At 3B21D APS MCRT, remove SDLC 12 from service (RMV:SDLC 12!). Response: RMV SDLC 12 COMPLETED	TELCO	DLP-544
44	At modem eliminator for ODAD/RCAS, locate new ODAD/RCAS cable and verify EQL.	TELCO	—
45	At modem eliminator for ODAD/RCAS, disconnect associated 3B20D APS cable and connect new ODAD/RCAS cable.	TELCO	—
46	At 3B21D APS MCRT, restore SDLC 12 to service (RST:SDLC 12!). Response: RST SDLC 12 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 48. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 47 and continue where you left off.		
47	Initiate ODAD/RCAS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: NESAC - 1-630-393-5502 Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
48	If office is equipped with TOSS connections (Step 4), perform Steps 49 through 59; otherwise, if office is not equipped with TOSS connections, go to Step 60.	TELCO	—
	<i>TOSS CABLE CONNECTION(S)</i>		
49	If office is equipped with TOSS 0 connection, perform Step 50; otherwise, if office is not equipped with TOSS 0 connection, go to Step 51.	TELCO	—
50	At 3B21D APS MCRT, remove SDLC 16 from service (RMV:SDLC 16!). Response: RMV SDLC 16 COMPLETED	TELCO	DLP-544
51	If office is equipped with TOSS 1 connection, perform Step 52; otherwise, if office is not equipped with TOSS 1 connection, go to Step 53.	TELCO	—
52	At 3B21D APS MCRT, remove SDLC 17 from service (RMV:SDLC 17!). Response: RMV SDLC 17 COMPLETED	TELCO	DLP-544
53	At data set(s) for TOSS 0 and/or TOSS 1, locate new TOSS 0 and/or TOSS 1 cable(s) and verify EQL(s).	TELCO	—
54	At data set(s) for TOSS 0 and/or TOSS 1, disconnect associated 3B20D APS cable(s) and connect new TOSS 0 and/or TOSS 1 cable(s).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
55	If office is equipped with TOSS 0 connection, perform Step 56; otherwise, if office is not equipped with TOSS 0 connection, go to Step 57.	TELCO	—
56	At 3B21D APS MCRT, restore SDLC 16 to service (RST:SDLC 16!). Response: RST SDLC 16 COMPLETED	TELCO	DLP-545
57	If office is equipped with TOSS 1 connection, perform Step 58; otherwise, if office is not equipped with TOSS 1 connection, go to Step 59.	TELCO	—
58	At 3B21D APS MCRT, restore SDLC 17 to service (RST:SDLC 17!). Response: RST SDLC 17 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 60. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 59 and continue where you left off.		
59	Initiate TOSS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Business Customer Care Unit Contact at: 1-205-791-4015 or 1-205-791-4016 Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SCANS/TOPAS CABLE CONNECTION		
60	At 3B21D APS MCRT, remove SDLC 00 from service (RMV:SDLC 00!). Response: RMV SDLC 00 COMPLETED	TELCO	DLP-544
61	At data set for SCANS, locate new SCANS cable and verify EQL.	TELCO	—
62	At data set for SCANS, disconnect associated 3B20D APS cable and connect new SCANS cable.	TELCO	—
63	At front of MPC 0 panel on MPC-15 frame, locate new TOPAS cable and verify EQL (patch 0111 port 1).	TELCO	—
64	At front of MPC 0 panel on MPC-15 frame, disconnect associated 3B20D APS cable at patch 0111 port 1 location (see DLP-577) and connect new TOPAS cable.	TELCO	—
65	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 67. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 66 and continue where you left off.		
66	Initiate SCANS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: NESAC - 1-630-393-5502 Notified: Passed:	TELCO	—
	Note: After notifying the responsible TOPAS testing organization and filling in the appropriate information in the following step, this procedure should be continued at Step 68. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 67 and continue where you left off.		
67	Initiate TOPAS testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: IRAS Customer Care - 1-816-995-3585 (leave an audix message) Contact at: Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
68	If office contains an NSCX, perform Steps 69 through 105 otherwise, if office does not contain an NSCX, go to Step 106.	TELCO	—
	<i>NSCX CABLE CONNECTION</i>		
69	If office contains NSCX DSD links, perform Steps 70 through 99 otherwise, if office does not contain NSCX DSD links, go to Step 100.	TELCO	—
70	If office contains DLNSC links 02, 04, 06, and/or 08 in the NSCX (Step 6), perform Steps 71 through 74 otherwise, if office does not contain these links, go to Step 75.	TELCO	—
71	At 3B21D APS MCRT, remove TTYC 18 from service (RMV:TTYC 18!). Response: RMV TTYC 18 COMPLETED	TELCO	DLP-546
72	At data sets for DLNSC links 02, 04, 06, and/or 08, locate new DLNSC link cables and verify EQLs.	TELCO	—
73	At data sets for DLNSC links 02, 04, 06, and/or 08, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—
74	At 3B21D APS MCRT, restore TTYC 18 to service (RST:TTYC 18!). Response: RST TTYC 18 COMPLETED	TELCO	DLP-547
75	If office contains DLNSC links 10, 12, 14, and/or 16 in the NSCX (Step 6), perform Steps 76 through 79 otherwise, if office does not contain these links, go to Step 80.	TELCO	—
76	At 3B21D APS MCRT, remove TTYC 20 from service (RMV:TTYC 20!). Response: RMV TTYC 20 COMPLETED	TELCO	DLP-546
77	At data sets for DLNSC links 10, 12, 14, and/or 16, locate new DLNSC link cables and verify EQLs.	TELCO	—
78	At data sets for DLNSC links 10, 12, 14, and/or 16, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
79	At 3B21D APS MCRT, restore TTYC 20 to service (RST:TTYC 20!). Response: RST TTYC 20 COMPLETED	TELCO	DLP-547
80	If office contains DLNSC links 18, 20, 70, and/or 72 in the NSCX (Step 6), perform Steps 80 through 84 otherwise, if office does not contain these links, go to Step 85.	TELCO	—
81	At 3B21D APS MCRT, remove TTYC 22 from service (RMV:TTYC 22!). Response: RMV TTYC 22 COMPLETED	TELCO	DLP-546
82	At data sets for DLNSC links 18, 20, 70, and/or 72, locate new DLNSC link cables and verify EQLs.	TELCO	—
83	At data sets for DLNSC links 18, 20, 70, and/or 72, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—
84	At 3B21D APS MCRT, restore TTYC 22 to service (RST:TTYC 22!). Response: RST TTYC 22 COMPLETED	TELCO	DLP-547
85	If office contains DLNSC links 01, 03, 05, and/or 07 in the NSCX (Step 6), perform Steps 86 through 89 otherwise, if office does not contain these links, go to Step 90.	TELCO	—
86	At 3B21D APS MCRT, remove TTYC 19 from service (RMV:TTYC 19!). Response: RMV TTYC 19 COMPLETED	TELCO	DLP-546
87	At data sets for DLNSC links 01, 03, 05, and/or 07, locate new DLNSC link cables and verify EQLs.	TELCO	—
88	At data sets for DLNSC links 01, 03, 05, and/or 07, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—
89	At 3B21D APS MCRT, restore TTYC 19 to service (RST:TTYC 19!). Response: RST TTYC 19 COMPLETED	TELCO	DLP-547

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
90	If office contains DLNSC links 09, 11, 13, and/or 15 in the NSCX (Step 6), perform Steps 91 through 94 otherwise, if office does not contain these links, go to Step 95.	TELCO	—
91	At 3B21D APS MCRT, remove TTYC 21 from service (RMV:TTYC 21!). Response: RMV TTYC 21 COMPLETED	TELCO	DLP-546
92	At data sets for DLNSC links 09, 11, 13, and/or 15, locate new DLNSC link cables and verify EQLs.	TELCO	—
93	At data sets for DLNSC links 09, 11, 13, and/or 15, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—
94	At 3B21D APS MCRT, restore TTYC 21 to service (RST:TTYC 21!). Response: RST TTYC 21 COMPLETED	TELCO	DLP-547
95	If office contains DLNSC links 17, and/or 19 in the NSCX (Step 6), perform Steps 96 through 99 otherwise, if office does not contain these links, go to Step 100.	TELCO	—
96	At 3B21D APS MCRT, remove TTYC 23 from service (RMV:TTYC 23!). Response: RMV TTYC 23 COMPLETED	TELCO	DLP-546
97	At data sets for DLNSC links 17 and/or 19, locate new DLNSC link cables and verify EQLs.	TELCO	—
98	At data sets for DLNSC links 17 and/or 19, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—
99	At 3B21D APS MCRT, restore TTYC 23 to service (RST:TTYC 23!). Response: RST TTYC 23 COMPLETED	TELCO	DLP-547

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
100	If office contains DLNSC links 68, 67, 66, and/or 65 in the NSCX (Step 6), perform Steps 101 through 104 otherwise, if office does not contain these links, go to Step 105.	TELCO	—
101	At 3B21D APS MCRT, remove TTYC 27 from service (RMV:TTYC 27!). Response: RMV TTYC 27 COMPLETED	TELCO	DLP-546
102	At data sets for DLNSC links 68, 67, 66, and/or 65, locate new DLNSC link cables and verify EQLs.	TELCO	—
103	At data sets for DLNSC links 68, 67, 66, and/or 65, disconnect associated 3B20D APS cables and connect new DLNSC link cables.	TELCO	—
104	At 3B21D APS MCRT, restore TTYC 27 to service (RST:TTYC 27!). Response: RST TTYC 27 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 106. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 105 and continue where you left off.		
105	Initiate NSCX testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Next Higher Support Organization (NCC) Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	UNIX TERMINAL CABLE CONNECTION		
106	At 3B21D APS MCRT, remove TTYC 00 from service RMV:TTYC 00!). Response: RMV TTYC 00 COMPLETED	TELCO	DLP-546
107	At front of MPC 0 panel on MPC-15 frame, locate UNIX cable and verify EQL (patch 0021 port 3).	TELCO	—
108	At front of MPC 0 panel on MPC-15 frame, disconnect associated 3B20D APS cable and null modem at patch 0021 port 3 location (see DLP-577) and connect new UNIX cable without null modem.	TELCO	—
109	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 111. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 110 and continue where you left off.		
110	Initiate testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Next Higher Support Organization (NCC) Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	RC/V TERMINAL CABLE CONNECTION		
111	At 3B21D APS MCRT, remove TTYC 01 from service RMV:TTYC 01!). Response: RMV TTYC 01 COMPLETED	TELCO	DLP-546
112	At front of MPC 1 panel on MPC-15 frame, locate RC/V cable and verify EQL (patch 1021 port 3).	TELCO	—
113	At front of MPC 1 panel on MPC-15 frame, disconnect associated 3B20D APS cable with null modem at patch 1021 port 3 location (see DLP-577) and connect new RC/V cable without null modem.	TELCO	—
114	At 3B21D APS MCRT, restore TTYC 01 to service (RST:TTYC 01!) . Response: RST TTYC 01 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 116. When you have been notified that the access has been successfully tested, fill in the remaining information in Step 115 and continue where you left off.		
115	Initiate testing with the following responsible OS or administration work center. Request notification when testing is complete. Responsible Org.: Next Higher Support Organization (NCC) Notified: Passed:	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
116	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	—
	SCAN AND SD CABLE CONNECTION		
117	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	—
118	At CNI Ring Node cabinet 00, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 0.	INST	—
119	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	—
120	At CNI Ring Node cabinet 00, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
121	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	—
122	At CNI Ring Node cabinet 00, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—
123	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	—
124	At CNI Ring Node cabinet 06, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
125	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	—
126	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	
127	If office contains CNI Ring Node cabinet 28, perform Steps 128 through 131; otherwise, if office does not contain CNI Ring Node cabinet 28, go to Step 132.	INST	—
128	At CNI Ring Node cabinet 28, temporarily disconnect TTY/TEL cables at locations 69-007-300 and 69-007-313 to gain access when connecting scan and SD cables.	INST	—
129	At CNI Ring Node cabinet 28, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
130	At CNI Ring Node cabinet 28, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
131	At CNI Ring Node cabinet 28, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—
132	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	—
133	At CNI Ring Node cabinet 32, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 1.	INST	—
134	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	—
135	At CNI Ring Node cabinet 32, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
136	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	—
137	At CNI Ring Node cabinet 32, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—
138	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	—
139	At CNI Ring Node cabinet 38, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
140	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	—
141	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	
142	If office contains CNI Ring Node cabinet 60, perform Steps 143 through 146; otherwise, if office does not contain CNI Ring Node cabinet 60, go to Step 147.	INST	—
143	At CNI Ring Node cabinet 60, temporarily disconnect TTY/TEL cables at locations 69-007-300 and 69-007-313 to gain access when connecting scan and SD cables.	INST	—
144	At CNI Ring Node cabinet 60, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
145	At CNI Ring Node cabinet 60, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
146	At CNI Ring Node cabinet 60, connect TTY/TEL cables that were disconnected earlier to their proper locations.	INST	—
147	If office is equipped with a DFA frame, perform Steps 148 through 153; otherwise, if office is not equipped with a DFA frame, go to Step 154.	INST	—
148	At DFA 0 frame, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 0.	INST	—
149	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	—
150	At DFA 0 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—
151	At DFA 0 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
152	At DFA 1 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
153	At DFA 1 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
154	If office is equipped with a DFR frame, perform Steps 155 through 160; otherwise, if office is not equipped with a DFR frame, go to Step 161.	INST	—
155	At DFR 0 frame, disconnect scan and SD ACO cable that is coming from 3B20D APS IOP 0.	INST	—
156	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	—
157	At DFR 0 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 0.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
158	At DFR 0 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 0 to the location just vacated.	INST	—
159	At DFR 1 frame, disconnect scan and SD cable that is coming from 3B20D APS IOP 1.	INST	—
160	At DFR 1 frame, connect new scan and SD cable that is coming from 3B21D APS IOP 1 to the location just vacated.	INST	—
161	If scan and SD cable is to be connected to a 3B PD frame, perform Steps 162 and 163; otherwise, if office is not equipped with a 3B PD frame, go to Step 164.	INST	—
162	At 3B PD frame, disconnect scan and SD cable that is coming from 3B20D APS IOP.	INST	—
163	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			
164	Verify 3B21D APS daisy chain alarm cabling.	INST	—
165	Verify 3B21D APS alarm cabling coming from the Miscellaneous A frame.	INST	—
166	Verify 3B21D APS alarm cabling coming from the QCX, IDF, or SP frame.	INST	—
TEST SCAN AND SD AND ALARM CABLES			
167	Notify next higher support organization that alarms will be received and that IOPs will be removed from service during the alarm testing.	TELCO	—
168	If failure occurs during alarm testing, compare results received from earlier alarm testing with the alarm failure. If a different failure is received, installer must determine fault; otherwise, if failure was received earlier, record this failure.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
169	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
170	Repeat Step 169 for each SCSDC (0 through 3).	TELCO/INST	—
171	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
172	At 3B21D APS MCRT, depress ALM RLS key to clear any alarms at the MCRT.	TELCO	—
173	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.		
174	Wait for FAN A and FAN B LEDs on fan unit to light.	TELCO/INST	—
175	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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
176	At fan unit in CNI ring cabinet, depress ON/RESET pushbutton.	TELCO	—
177	At top of CNI ring cabinet, depress ALARM RESET pushbutton.	TELCO	—
178	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	—
179	At top of CNI ring cabinet, depress ALARM CUT OFF pushbutton.	TELCO	—
180	Ensure the following: • Audible major alarm retires. • Grid MJ goes off. • At 3B21D APS MCRT, MAJOR and MINOR clears.	TELCO/INST	—
181	Repeat Steps 173 through 180 for each equipped CNI ring cabinet.	TELCO/INST	—
182	At one DFA/DFR frame (0 or 1), associated with 3B21D APS, locate a blank indicator fuse position.	TELCO	—
183	Install blown fuse at located blank indicator fuse position.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
184	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	—
185	At DFA/DFR frame, remove blown fuse.	TELCO	—
186	Ensure that FA lamp goes off.	TELCO/INST	—
187	At DFA/DFR frame, depress PWR ALM RESET pushbutton.	TELCO	—
188	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	—
189	At DFA/DFR frame, depress ALARM CUT OFF pushbutton.	TELCO	—
190	Ensure the following: • Audible major alarm retires. • Grid MJ goes off. • At 3B21D APS MCRT, MAJOR clears.	TELCO/INST	—
191	Repeat Steps 182 through 190 for the other DFA/DFR frame.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
192	If scan and SD cable was connected to 3B power distribution frame from the 3B21D APS, perform Steps 193 through 208; otherwise, if scan and SD cable was not connected to 3B power distribution frame, go to Step 209.	TELCO/INST	—
193	At 3B power distribution frame, associated with 3B21D APS, locate a blank indicator fuse position for one load (LOAD A or LOAD B).	TELCO	—
194	Install blown fuse at located blank indicator fuse position for one load (LOAD A or LOAD B).	TELCO	—
195	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	
196	At 3B power distribution frame, remove blown fuse.	TELCO	—
197	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	—
198	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
199	Ensure the following: • Audible major alarm retires. • At 3B21D APS MCRT, MAJOR clears.	TELCO/INST	—
200	Repeat Steps 193 through 199 for the other load (LOAD A or LOAD B) on the 3B power distribution frame.	TELCO/INST	—
201	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	—
202	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	
203	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	—
204	At 3B power distribution frame control panel, replace blown fuse with original 2AMP LOAD (A or B) fuse.	TELCO	—
205	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	—
206	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
207	Ensure the following: • Audible minor alarm retires. • At 3B21D APS MCRT, MINOR clears.	TELCO/INST	—
208	Repeat Steps 201 through 207 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	
209	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.		
210	Ensure the following: • At top of 3B21D APS, FAN LED goes on. • Audible major 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	—
211	At front of 3B21D APS at fan unit, connect plug disconnected earlier.	INST	—
212	At back of 3B21D APS, operate RESET switch (EQL 36-008) down and release.	TELCO	—
213	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	
214	At 3B21D APS MCRT, depress ALM RLS key.	TELCO	—
215	Ensure the following: • Audible major alarm is retired. • Grid CR goes off. • At 3B21D APS MCRT ROP REPT FAN ALARM CLEARED CU BASIC CABINET	TELCO/INST	—
216	At 3B21D APS MCRT, on the Common Processor Display page (102), determine if MTTY and ROP are port switched to the same MTTYC.	TELCO	—
217	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	—
218	At 3B21D APS MCRT, on the Common Processor Display page (102), determine which IOP is NOT port switched to MTTY and ROP.	TELCO	—
219	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	—
220	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	—
221	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	—
222	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	—
223	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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
224	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	—
225	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	—
226	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	—
227	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	—
228	At 1B Processor MCC terminal, depress ALM RLS key.	TELCO	—
229	Ensure the following: - Audible major alarm is retired. - Grid MJ goes off.	TELCO/INST	—
230	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	—
231	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	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
232	Wait for IOP and associated subunits to restore to service. Response: DGN IOP x ATP MESSAGE COMPLETE	TELCO/INST	—
233	At 3B21D APS MCRT, enter message SW:PORTSW! to switch IOPs.	TELCO	—
234	Wait for 3B21D APS MCRT to repaint.	TELCO/INST	—
235	Repeat Steps 219 through 232 for other IOP.	TELCO/INST	—
	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.		
236	At 3B21D APS MCRT, update the 3B21D APS broot partition.	TELCO	DLP-550
237	Run the 3B21D APS file system audits to ensure no file system errors.	TELCO	DLP-551
238	Write 3B21D APS backup tapes.	TELCO	DLP-553
239	Verify 3B21D APS backup tapes.	TELCO	DLP-556
240	Write 1B Processor 4-mm backup Generic tape.	TELCO	DLP-567
241	Write 1B Processor 4-mm backup ODA tape.	TELCO	DLP-568
242	Write 1B Processor 4-mm backup Long Term Storage (LTS) tape.	TELCO	DLP-569
243	Write 1B Processor 4-mm backup Traffic and Plant Measurement (TPM) tape.	TELCO	DLP-570
244	Write 1B Processor 4-mm backup Trunk Out-of-Service List (TOSL) tape.	TELCO	DLP-571
245	Write 1B Processor 4-mm backup Network Management (NWM) tape.	TELCO	DLP-572
246	Write 1B Processor 4-mm backup Library tape.	TELCO	DLP-573
247	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-019.	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 has soaked as directed by the next higher support organization, 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 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.		

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 9 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 9 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 9 circuit pack (EQL 62-088), but do not remove at this time.	INST	—
9	Wait 1 minute to allow the UN375 MHD 9 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 circuit pack (MHD 9). 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 circuit pack (MHD 9) to the Installation Material Distribution and Repair Center (IMDARC).	INST	—
20	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 0, SIN/EIN (LN09 3), RPCN00 0, DLN00 5 (LN00 5),
and DLN00 10 (LN00 10) 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-019.		

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: 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. 4ESSTM 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 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, 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	—
	DISCONNECTING API 0 DSCH FROM CONVERSION SWITCH BOX		
	<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. 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>		
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: 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	—
48	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 107.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
49	Determine if enough time remains in this shift to complete SIN/EIN disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
50	If enough time DOES remain, go to Step 75; otherwise, if enough time DOES NOT remain, perform Steps 51 through 67 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting SIN/EIN from the conversion switch box.		
51	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		
52	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
53	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	
54	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
55	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
56	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	—
57	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	—
58	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
59	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	
60	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
61	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	—
62	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
63	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	
64	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	—
65	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
66	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	—
67	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	—
68	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
69	Verify 3B21D APS system status.	TELCO	DLP-500
70	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	
71	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
72	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
73	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	—
74	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 SIN/EIN (LN09 3)		
75	Notify next higher support organization that SIN/EIN (LN09 3) is going to be disconnected from the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN09 3 will be removed from service.	TELCO	—
76	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
77	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	
	<i>VERIFY SIN/EIN (LN09 3) STATUS</i>		
78	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
79	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
80	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
81	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
82	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS , enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
83	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
84	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 0 (DGN:LN09 3:PH 34,CU 0!). Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
85	At 3B21D APS CU 0 power switch (EQL 28-060), ensure OOS LED is on.	TELCO	—
86	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	—
87	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 SIN/EIN (LN09 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN09 3 will be isolated also.		
88	At 3B21D APS MCRT, isolate SIN/EIN (LN09 3) (CFR:RING, LN09 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN09 3 COMPL	TELCO	DLP-522
89	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
90	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • LN09 3 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—
	<i>DISCONNECTING SIN/EIN (LN09 3) 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. 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>		
92	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 SIN/EIN (LN09 3).	INST	—
93	Route the CU 0 SIN/EIN (LN09 3) DSCH cable down to the 3B21D APS.	INST	—
94	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with SIN/EIN (LN09 3).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 0 backplane, carefully connect the CU 0 SIN/EIN (LN09 3) DSCH that was routed in the previous step to the location just vacated.	INST	—
96	Verify cable label is correct; then properly tie off this cable.	INST	—
97	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
98	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
99	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 0 (DGN:LN09 3:PH 34, CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
100	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
101	At 3B21D APS MCRT, on the Ring Node Status Display Page (1106), enter 609 in command mode to display the ring node frame group for SIN/EIN (LN09 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
103	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
104	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) is in AVL/STBY .	TELCO	—
105	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	—
106	Soak SIN/EIN (LN09 3) 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	—
107	Determine if enough time remains in this shift to complete RPCN00 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
108	If enough time DOES remain, go to Step 151; otherwise, if enough time DOES NOT remain, perform Steps 109 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 disconnecting RPCN00 0 from the conversion switch box.		
109	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
110	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	—
111	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 SIN/EIN (LN09 3) WITH CU 0 ACTIVE		
112	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	
113	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	—
114	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 124.	TELCO/INST	—
115	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
116	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
117	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	—
118	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	—
119	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	
120	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
121	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
122	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	—
123	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
124	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
125	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
126	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
127	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
129	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
130	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
131	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	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	—
137	Soak CU 0, API 0, and SIN/EIN (LN09 3), if equipped, 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
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 API 0 and SIN/EIN (LN09 3) disconnection from the conversion switch box is complete.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	Soak CU 0, API 0, and SIN/EIN (LN09 3), if equipped, 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 SIN/EIN (LN09 3) (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.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Verify 3B21D APS system status.	TELCO	DLP-500
144	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	—
145	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	
146	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
147	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	—
148	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
149	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	—
150	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, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO RPCN00 0		
151	Notify next higher support organization that RPCN00 0 disconnection from the conversion switch box is going to be performed.	TELCO	—
	SETUP OF 3B21D APS AND CU 0 FOR RPCN00 0 DISCONNECTION		
152	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
153	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
154	At 3B21D APS MCRT, Ensure Major State for RPCN32 0 is ACT .	TELCO	—
155	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
156	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	
157	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		
158	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.		
159	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
160	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
161	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
162	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	
163	At 3B21D APS CU 0 power switch (EQL 28-060), ensure OOS LED is on.	TELCO	—
164	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, 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. 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>		
165	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 RPCN00 0.	INST	—
166	Route the CU 0 RPCN00 0 DSCH cable down to the 3B21D APS.	INST	—
167	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
168	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	—
169	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	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: 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
171	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.		
172	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
173	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	
174	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
175	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
176	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
177	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	—
178	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	—
179	Determine if enough time remains in this shift to complete DLN00 5 (LN00 5) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
180	If enough time DOES remain, go to Step 230; otherwise, if enough time DOES NOT remain, perform Steps 181 through 220 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 5 (LN00 5) from the conversion switch box.		
181	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
182	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	—
183	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, SIN/EIN (LN09 3), AND/OR RPCN00 0 WITH CU 0 ACTIVE		
184	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
185	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	
186	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	—
187	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 197.	TELCO/INST	—
188	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
189	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
190	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	—
191	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	—
192	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	
193	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
194	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
195	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	—
196	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
197	If SIN/EIN (LN09 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN09 3) is not equipped or was disconnected in a previous shift, go to Step 210.	TELCO/INST	—
198	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
199	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
200	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
201	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
202	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
203	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
204	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
205	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
206	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
207	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
208	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
209	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
210	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
211	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
212	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
213	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
214	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
215	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	
216	Soak CU 0, API 0, SIN/EIN (LN09 3), if equipped, 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 and RPCN00 0 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	—
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 API 0, SIN/EIN (LN09 3), if equipped, and RPCN00 0 disconnection from the conversion switch box is complete.	TELCO	—
220	Soak CU 0, API 0, SIN/EIN (LN09 3), if equipped 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 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	—
221	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
222	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
223	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	—
224	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
225	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
226	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	—
227	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
228	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	
229	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, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO DLN00 5 (LN00 5)		
230	Notify next higher support organization that DLN00 5 (LN00 5) disconnection from the conversion switch box is going to be performed.	TELCO	—
231	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
232	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
233	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 5 (LN00 5) DISCONNECTION		
236	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 5 (LN00 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 5 (LN00 5) will be isolated also.		
237	At 3B21D APS MCRT, isolate DLN00 5 (LN00 5) (CFR:RING,LN00 5;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 5 COMPL	TELCO	DLP-531
238	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
239	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 5 (LN00 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
240	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, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 5 (LN00 5) 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. 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>		
241	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN00 5 (LN00 5).	INST	—
242	Route the CU 0 DLN00 5 (LN00 5) DSCH cable down to the 3B21D APS.	INST	—
243	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 5 (LN00 5).	INST	—
244	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN00 5 (LN00 5) DSCH that was routed in the previous step to the location just vacated.	INST	—
245	Verify cable label is correct; then properly tie off this cable.	INST	—
246	At 3B21D APS CU 0 power switch (EQL 28-060), operate ST/ON/OFF switch to T (Do not restore CU 0 at this time). Response: OFF LED goes off At 3B21D 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	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
247	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 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.		
248	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5), specifying phase 34 and CU 0 (DGN:LN00 5: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 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
249	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
250	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 5 (LN00 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
251	At 3B21D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
252	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
253	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 5 (LN00 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
254	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	—
255	Soak DLN00 5 (LN00 5) 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	—
256	Determine if enough time remains in this shift to complete DLN00 10 (LN00 10) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
257	If enough time DOES remain, go to Step 316; otherwise, if enough time DOES NOT remain, perform Steps 258 through 306 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 10 (LN00 10) from the conversion switch box.		
258	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
259	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	
260	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
261	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, SIN/EIN (LN09 3), RPCN00 0 AND/OR DLN00 5 (LN00 5) WITH CU 0 ACTIVE		
262	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	
263	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	—
264	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 274.	TELCO/INST	—
265	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
266	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
267	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	—
268	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	—
269	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	
270	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
271	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
272	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	—
273	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
274	If SIN/EIN (LN09 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN09 3) is not equipped or was disconnected in a previous shift, go to Step 287.	TELCO/INST	—
275	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
276	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
277	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
278	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
280	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
282	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
283	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
284	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
285	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
286	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
287	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 293.	TELCO/INST	—
288	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
289	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	
290	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
291	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
292	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
293	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
294	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
295	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
297	At 3B21D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
298	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
299	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 05 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
300	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY, enter one of the following messages to make DLN00 5 (LN00 5) ACT: SW:DLN,LN00 5,LN32 05! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
301	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	—
302	Soak CU 0, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, and DLN00 5 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
303	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	
304	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	—
305	Notify next higher support organization that RPCN00 0 and DLN00 5 disconnection from the conversion switch box is complete.	TELCO	—
306	Soak CU 0, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, and DLN00 5 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
307	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
308	Verify 3B21D APS system status.	TELCO	DLP-500
309	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	
310	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
311	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
312	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	—
313	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
314	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	—
315	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, 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 10 (LN00 10)</i>		
316	Notify next higher support organization that DLN00 10 (LN00 10) disconnection from the conversion switch box is going to be performed.	TELCO	—
317	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
318	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
319	At 3B21D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT , enter one of the following messages to make DLN00 10 (LN00 10) STBY : SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 10 (LN00 10) DISCONNECTION		
322	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 10 (LN00 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 10 (LN00 10) will be isolated also.		
323	At 3B21D APS MCRT, isolate DLN00 10 (LN00 10) (CFR:RING,LN00 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 10 COMPL	TELCO	DLP-531
324	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
325	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 10 (LN00 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
326	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, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 10 (LN00 10) 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. 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>		
327	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN00 10 (LN00 10).	INST	—
328	Route the CU 0 DLN00 10 (LN00 10) DSCH cable down to the 3B21D APS.	INST	—
329	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 10 (LN00 10).	INST	—
330	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN00 10 (LN00 10) DSCH that was routed in the previous step to the location just vacated.	INST	—
331	Verify cable label is correct; then properly tie off this cable.	INST	—
332	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, 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	
333	At 3B21D APS MCRT, diagnose DLN00 10 (LN00 10) (DGN:LN00 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 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.		
334	At 3B21D APS MCRT, diagnose DLN00 10 (LN00 10), specifying phase 34 and CU 0 (DGN:LN00 10: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 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
335	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
336	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
337	At 3B21D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
338	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
339	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 10 (LN00 10) is STBY .	TELCO/INST	—
340	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	
341	Soak DLN00 10 (LN00 10) 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		
342	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
343	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	—
344	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 5 (LN00 5), AND/OR DLN00 10 (LN00 10) WITH CU 0 ACTIVE		
345	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	
346	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
347	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	—
348	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 358.	TELCO/INST	—
349	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
350	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
351	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	—
352	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	—
353	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	
354	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
355	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
356	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	—
357	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
358	If SIN/EIN (LN09 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN09 3) is not equipped or was disconnected in a previous shift, go to Step 371.	TELCO/INST	—
359	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
360	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
361	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
362	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
363	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
364	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
365	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
366	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
367	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
368	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
369	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
370	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
371	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 377.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
372	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
373	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
374	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
375	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
376	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
377	If DLN00 5 (LN00 5) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN00 5 (LN00 5) was disconnected in a previous shift, go to Step 386.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
378	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
379	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
380	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
381	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
382	At 3B21D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
383	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
384	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 05 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
385	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY, enter one of the following messages to make DLN00 5 (LN00 5) ACT: SW:DLN,LN00 5,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
386	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
387	At 3B21D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT, enter one of the following messages to make DLN00 10 (LN00 10) STBY: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
389	At 3B21D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
390	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 05 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
391	At 3B21D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is STBY, enter one of the following messages to make DLN00 10 (LN00 10) ACT: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
392	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	—
393	Soak CU 0, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, DLN00 5, and DLN00 10 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
394	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	
395	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	—
396	Notify next higher support organization that API 0, SIN/EIN (LN09 3), API 0, RPCN00 0, DLN00 5, and DLN00 10 disconnection from the conversion switch box is complete; also, notify the next higher support organization that SCC0 and SCC1 cables from the 3B21D APS are going to be moved to their proper locations at the MPC-15 panel.	TELCO	—
397	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	DLP-506
398	At front of MPC-15 panel, disconnect 3B20D APS SCC 0 (location 0111 port 2) and SCC 1 (location 1111 port 1) cables (See DLP-577).	TELCO	—
399	At front of MPC-15 panel, disconnect 3B21D APS SCC 0 cable (location 0112 port 5) and connect to location where 3B20D APS SCC 0 cable was connected (See DLP-577).	TELCO	—
400	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	DLP-507
401	Request next higher support organization to verify that SCC 0 channel is working properly before continuing.	TELCO	—
402	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	DLP-506
403	At front of MPC-15 panel, disconnect 3B21D APS SCC 1 cable (location 1112 port 5) and connect to location where 3B20D APS SCC 1 cable was connected (See DLP-577).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
404	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	DLP-507
405	Request next higher support organization to verify that SCC1 channel is working properly before continuing.	TELCO	—
406	Soak CU 0, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, DLN00 5, and DLN00 10 [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, SIN/EIN (LN09 3), if equipped, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
407	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 1, SIN/EIN (LN41 3), RPCN32 0, DLN32 5 (LN32 5),
and DLN32 10 (LN32 10) 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-020 (for 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, 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. 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>		
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: 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	—
48	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 107.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
49	Determine if enough time remains in this shift to complete SIN/EIN disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
50	If enough time DOES remain, go to Step 75; otherwise, if enough time DOES NOT remain, perform Steps 51 through 67 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting SIN/EIN from the conversion switch box.		
51	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		
52	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
53	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	
54	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
55	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
56	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	—
57	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	—
58	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
59	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	
60	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
61	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	—
62	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
63	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	
64	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	—
65	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
66	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	—
67	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	—
68	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
69	Verify 3B21D APS system status.	TELCO	DLP-500
70	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	
71	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
72	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
73	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	—
74	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 SIN/EIN (LN41 3)		
75	Notify next higher support organization that SIN/EIN (LN41 3) is going to be disconnected from the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN41 3 will be removed from service.	TELCO	—
76	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
77	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	
	<i>VERIFY SIN/EIN (LN41 3) STATUS</i>		
78	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
79	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
80	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
81	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
82	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS , enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
83	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
84	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 0 (DGN:LN41 3:PH 34,CU 0!). Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
85	At 3B21D APS CU 0 power switch (EQL 28-060), ensure OOS LED is on.	TELCO	—
86	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	—
87	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 SIN/EIN (LN41 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN41 3 will be isolated also.		
88	At 3B21D APS MCRT, isolate SIN/EIN (LN41 3) (CFR:RING, LN41 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN41 3 COMPL	TELCO	DLP-522
89	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
90	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • LN41 3 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—
	<i>DISCONNECTING SIN/EIN (LN41 3) 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. 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>		
92	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 SIN/EIN (LN41 3).	INST	—
93	Route the CU 0 SIN/EIN (LN41 3) DSCH cable down to the 3B21D APS.	INST	—
94	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with SIN/EIN (LN41 3).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 0 backplane, carefully connect the CU 0 SIN/EIN (LN41 3) DSCH that was routed in the previous step to the location just vacated.	INST	—
96	Verify cable label is correct; then properly tie off this cable.	INST	—
97	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
98	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
99	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 0 (DGN:LN41 3:PH 34, CU 0!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
100	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
101	At 3B21D APS MCRT, on the Ring Node Status Display Page (1106), enter 641 in command mode to display the ring node frame group for SIN/EIN (LN41 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
103	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
104	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) is in AVL/STBY .	TELCO	—
105	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	—
106	Soak SIN/EIN (LN41 3) 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	—
107	Determine if enough time remains in this shift to complete RPCN32 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
108	If enough time DOES remain, go to Step 151; otherwise, if enough time DOES NOT remain, perform Steps 109 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 disconnecting RPCN32 0 from the conversion switch box.		
109	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
110	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	—
111	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 SIN/EIN (LN41 3) WITH CU 0 ACTIVE		
112	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	
113	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	—
114	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 124.	TELCO/INST	—
115	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
116	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
117	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	—
118	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	—
119	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	
120	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
121	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
122	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	—
123	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
124	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
125	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
126	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
127	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
129	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
130	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
131	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	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	—
137	Soak CU 0, API 1, and SIN/EIN (LN41 3), if equipped, 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
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 API 1 and SIN/EIN (LN41 3) disconnection from the conversion switch box is complete.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	Soak CU 0, API 1, and SIN/EIN (LN41 3), if equipped, 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 SIN/EIN (LN41 3) (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.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Verify 3B21D APS system status.	TELCO	DLP-500
144	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	—
145	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	
146	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
147	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	—
148	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
149	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	—
150	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, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO RPCN32 0		
151	Notify next higher support organization that RPCN32 0 disconnection from the conversion switch box is going to be performed.	TELCO	—
	SETUP OF 3B21D APS AND CU 0 FOR RPCN32 0 DISCONNECTION		
152	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
153	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
154	At 3B21D APS MCRT, Ensure Major State for RPCN00 0 is ACT .	TELCO	—
155	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
156	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	
157	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		
158	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.		
159	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
160	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
161	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
162	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	
163	At 3B21D APS CU 0 power switch (EQL 28-060), ensure OOS LED is on.	TELCO	—
164	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, 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. 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>		
165	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 RPCN32 0.	INST	—
166	Route the CU 0 RPCN32 0 DSCH cable down to the 3B21D APS.	INST	—
167	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
168	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	—
169	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	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: 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
171	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.		
172	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
173	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	
174	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
175	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
176	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
177	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	—
178	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	—
179	Determine if enough time remains in this shift to complete DLN32 5 (LN32 5) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
180	If enough time DOES remain, go to Step 230; otherwise, if enough time DOES NOT remain, perform Steps 181 through 220 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 5 (LN32 5) from the conversion switch box.		
181	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
182	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	—
183	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, SIN/EIN (LN41 3), AND/OR RPCN32 0 WITH CU 0 ACTIVE		
184	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
185	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	
186	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	—
187	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 197.	TELCO/INST	—
188	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
189	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
190	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	—
191	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	—
192	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	
193	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
194	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
195	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	—
196	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
197	If SIN/EIN (LN41 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN41 3) is not equipped or was disconnected in a previous shift, go to Step 210.	TELCO/INST	—
198	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
199	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
200	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
201	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
202	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
203	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
204	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
205	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
206	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
207	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
208	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
209	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
210	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
211	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
212	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
213	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
214	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
215	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	
216	Soak CU 0, API 1, SIN/EIN (LN41 3), if equipped, 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 and RPCN32 0 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	—
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 API 1, SIN/EIN (LN41 3), if equipped, and RPCN32 0 disconnection from the conversion switch box is complete.	TELCO	—
220	Soak CU 0, API 1, SIN/EIN (LN41 3), if equipped 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 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	—
221	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
222	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
223	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	—
224	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
225	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY).	TELCO	—
226	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	—
227	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
228	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	
229	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, RMV CU 0 TASK x MESSAGE STARTED RMV CU 0 COMPLETED	TELCO	—
	START OF CU 0 DSCH CONNECTION TO DLN32 5 (LN32 5)		
230	Notify next higher support organization that DLN32 5 (LN32 5) disconnection from the conversion switch box is going to be performed.	TELCO	—
231	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
232	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
233	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT, enter one of the following messages to make DLN32 5 (LN32 5) STBY: SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 5 (LN32 5) DISCONNECTION		
236	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 5 (LN32 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 5 (LN32 5) will be isolated also.		
237	At 3B21D APS MCRT, isolate DLN32 5 (LN32 5) (CFR:RING, LN32 5; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 5 COMPL	TELCO	DLP-531
238	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
239	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 5 (LN32 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
240	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, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 5 (LN32 5) 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. 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>		
241	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN32 5 (LN32 5).	INST	—
242	Route the CU 0 DLN32 5 (LN32 5) DSCH cable down to the 3B21D APS.	INST	—
243	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 5 (LN32 5).	INST	—
244	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN32 5 (LN32 5) DSCH that was routed in the previous step to the location just vacated.	INST	—
245	Verify cable label is correct; then properly tie off this cable.	INST	—
246	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, 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	
247	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 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.		
248	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5), specifying phase 34 and CU 0 (DGN:LN32 5: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 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
249	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
250	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 5 (LN32 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
251	At 3B21D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
252	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
253	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 5 (LN32 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
254	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	—
255	Soak DLN32 5 (LN32 5) 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	—
256	Determine if enough time remains in this shift to complete DLN32 10 (LN32 10) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
257	If enough time DOES remain, go to Step 316; otherwise, if enough time DOES NOT remain, perform Steps 258 through 306 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 10 (LN32 10) from the conversion switch box.		
258	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
259	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	
260	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
261	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, SIN/EIN (LN41 3), RPCN32 0 AND/OR DLN32 5 (LN32 5) WITH CU 0 ACTIVE		
262	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	
263	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	—
264	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 274.	TELCO/INST	—
265	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
266	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
267	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	—
268	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	—
269	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	
270	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
271	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
272	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	—
273	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
274	If SIN/EIN (LN41 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN41 3) is not equipped or was disconnected in a previous shift, go to Step 287.	TELCO/INST	—
275	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
276	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
277	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
278	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
280	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
282	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
283	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
284	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
285	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
286	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
287	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 293.	TELCO/INST	—
288	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
289	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	
290	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
291	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
292	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
293	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
294	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
295	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
297	At 3B21D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
298	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
299	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 05 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
300	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 05! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
301	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	—
302	Soak CU 0, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, and DLN32 5 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
303	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	
304	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	—
305	Notify next higher support organization that RPCN32 0 and DLN32 5 disconnection from the conversion switch box is complete.	TELCO	—
306	Soak CU 0, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, and DLN32 5 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
307	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
308	Verify 3B21D APS system status.	TELCO	DLP-500
309	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	
310	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
311	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 0 (ACT or STBY)	TELCO	—
312	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	—
313	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
314	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	—
315	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, 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 10 (LN32 10)</i>		
316	Notify next higher support organization that DLN32 10 (LN32 10) disconnection from the conversion switch box is going to be performed.	TELCO	—
317	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
318	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
319	At 3B21D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT , enter one of the following messages to make DLN32 10 (LN32 10) STBY : SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 10 (LN32 10) DISCONNECTION		
322	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 10 (LN32 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 10 (LN32 10) will be isolated also.		
323	At 3B21D APS MCRT, isolate DLN32 10 (LN32 10) (CFR:RING, LN32 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 10 COMPL	TELCO	DLP-531
324	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
325	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 10 (LN32 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
326	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, REPT POWER REMOVED CU 0.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 10 (LN32 10) 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. 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>		
327	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 0 DLN32 10 (LN32 10).	INST	—
328	Route the CU 0 DLN32 10 (LN32 10) DSCH cable down to the 3B21D APS.	INST	—
329	At 3B21D APS CU 0 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 10 (LN32 10).	INST	—
330	At 3B21D APS CU 0 backplane, carefully connect the CU 0 DLN32 10 (LN32 10) DSCH that was routed in the previous step to the location just vacated.	INST	—
331	Verify cable label is correct; then properly tie off this cable.	INST	—
332	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, 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	
333	At 3B21D APS MCRT, diagnose DLN32 10 (LN32 10) (DGN:LN32 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 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.		
334	At 3B21D APS MCRT, diagnose DLN32 10 (LN32 10), specifying phase 34 and CU 0 (DGN:LN32 10: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 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
335	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
336	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
337	At 3B21D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
338	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
339	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 10 (LN32 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
340	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	—
341	Soak DLN32 10 (LN32 10) 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		
342	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
343	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	—
344	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 5 (LN32 5), AND/OR DLN32 10 (LN32 10) WITH CU 0 ACTIVE		
345	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	
346	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
347	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	—
348	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 358.	TELCO/INST	—
349	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
350	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
351	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	—
352	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	—
353	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	
354	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
355	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
356	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	—
357	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
358	If SIN/EIN (LN41 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN41 3) is not equipped or was disconnected in a previous shift, go to Step 371.	TELCO/INST	—
359	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
360	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
361	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
362	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
363	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
364	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
365	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
366	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
367	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
368	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
369	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
370	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
371	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 377.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
372	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
373	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
374	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
375	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
376	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
377	If DLN32 5 (LN32 5) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN32 5 (LN32 5) was disconnected in a previous shift, go to Step 386.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
378	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
379	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
380	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
381	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
382	At 3B21D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
383	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
384	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 05 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
385	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
386	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
387	At 3B21D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT, enter one of the following messages to make DLN32 10 (LN32 10) STBY: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
389	At 3B21D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
390	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 05 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
391	At 3B21D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is STBY, enter one of the following messages to make DLN32 10 (LN32 10) ACT: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
392	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	—
393	Soak CU 0, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, DLN32 5, and DLN32 10 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
394	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	
395	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	—
396	Notify next higher support organization that API 1, SIN/EIN (LN41 3), RPCN32 0, DLN32 5, and DLN32 10 disconnection from the conversion switch box is complete.	TELCO	—
397	Soak CU 0, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, DLN32 5, and DLN32 10 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
398	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 0, SIN/EIN (LN09 3), RPCN00 0, DLN00 5 (LN00 5),
and DLN00 10 (LN00 10) 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-020 (for CU 0 side) • NTP-021 (for 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: 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. 4ESSTM 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, 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	—
	DISCONNECTING API 0 DSCH FROM CONVERSION SWITCH BOX		
	<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. 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>		
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: 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	—
48	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 107.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
49	Determine if enough time remains in this shift to complete SIN/EIN disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
50	If enough time DOES remain, go to Step 75; otherwise, if enough time DOES NOT remain, perform Steps 51 through 67 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting SIN/EIN from the conversion switch box.		
51	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		
52	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
53	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	
54	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
55	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
56	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	—
57	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	—
58	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
59	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	
60	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!) Response: RST: API 0 COMPLETED.	TELCO/INST	DLP-526
61	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	—
62	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
63	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	
64	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	—
65	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
66	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	—
67	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	—
68	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
69	Verify 3B21D APS system status.	TELCO	DLP-500
70	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	
71	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
72	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
73	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	—
74	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 SIN/EIN (LN09 3)		
75	Notify next higher support organization that SIN/EIN (LN09 3) is going to be disconnected from the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN09 3 will be removed from service.	TELCO	—
76	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
77	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	
	<i>VERIFY SIN/EIN (LN09 3) STATUS</i>		
78	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
79	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
80	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
81	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
82	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS , enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
83	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
84	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 1 (DGN:LN09 3:PH 34,CU 1!). Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
85	At 3B21D APS CU 1 power switch (EQL 53-060), ensure OOS LED is on.	TELCO	—
86	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	—
87	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 SIN/EIN (LN09 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN09 3 will be isolated also.		
88	At 3B21D APS MCRT, isolate SIN/EIN (LN09 3) (CFR:RING, LN09 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN09 3 COMPL	TELCO	DLP-522
89	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
90	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • LN09 3 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—
	<i>DISCONNECTING SIN/EIN (LN09 3) 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. 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>		
92	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 SIN/EIN (LN09 3).	INST	—
93	Route the CU 1 SIN/EIN (LN09 3) DSCH cable down to the 3B21D APS.	INST	—
94	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with SIN/EIN (LN09 3).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 1 backplane, carefully connect the CU 1 SIN/EIN (LN09 3) DSCH that was routed in the previous step to the location just vacated.	INST	—
96	Verify cable label is correct; then properly tie off this cable.	INST	—
97	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
98	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
99	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3), specifying phase 34 and CU 1 (DGN:LN09 3:PH 34, CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 STOPPED 5 DGN LN09 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
100	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
101	At 3B21D APS MCRT, on the Ring Node Status Display Page (1106), enter 609 in command mode to display the ring node frame group for SIN/EIN (LN09 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
103	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
104	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) is in AVL/STBY .	TELCO	—
105	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	—
106	Soak SIN/EIN (LN09 3) 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	—
107	Determine if enough time remains in this shift to complete RPCN00 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
108	If enough time DOES remain, go to Step 151; otherwise, if enough time DOES NOT remain, perform Steps 109 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 disconnecting RPCN00 0 from the conversion switch box.		
109	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
110	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	—
111	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 SIN/EIN (LN09 3) WITH CU 1 ACTIVE		
112	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	
113	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	—
114	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 124.	TELCO/INST	—
115	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
116	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
117	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	—
118	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	—
119	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	
120	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
121	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
122	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	—
123	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
124	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
125	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
126	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
127	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
129	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
130	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
131	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	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	—
137	Soak CU 1, API 0, and SIN/EIN (LN09 3), if equipped, 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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
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 API 0 and SIN/EIN (LN09 3) disconnection from the conversion switch box is complete.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	Soak CU 1, API 0, and SIN/EIN (LN09 3), if equipped, 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 SIN/EIN (LN09 3) (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.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Verify 3B21D APS system status.	TELCO	DLP-500
144	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	—
145	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	
146	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
147	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	—
148	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
149	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	—
150	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, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO RPCN00 0		
151	Notify next higher support organization that RPCN00 0 disconnection from the conversion switch box is going to be performed.	TELCO	—
	SETUP OF 3B21D APS AND CU 1 FOR RPCN00 0 DISCONNECTION		
152	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
153	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
154	At 3B21D APS MCRT, Ensure Major State for RPCN32 0 is ACT .	TELCO	—
155	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
156	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	
157	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		
158	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.		
159	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
160	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
161	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
162	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	
163	At 3B21D APS CU 1 power switch (EQL 53-060), ensure OOS LED is on.	TELCO	—
164	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, 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. 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>		
165	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 RPCN00 0.	INST	—
166	Route the CU 1 RPCN00 0 DSCH cable down to the 3B21D APS.	INST	—
167	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with RPCN00 0.	INST	—
168	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	—
169	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	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: 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
171	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.		
172	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
173	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	
174	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
175	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
176	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
177	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	—
178	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	—
179	Determine if enough time remains in this shift to complete DLN00 5 (LN00 5) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
180	If enough time DOES remain, go to Step 230; otherwise, if enough time DOES NOT remain, perform Steps 181 through 220 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 5 (LN00 5) from the conversion switch box.		
181	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
182	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	—
183	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, SIN/EIN (LN09 3), AND/OR RPCN00 0 WITH CU 1 ACTIVE		
184	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	
185	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	—
186	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 197.	TELCO/INST	—
187	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
188	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
189	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	—
190	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	—
191	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	
192	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
193	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
194	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	—
195	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
196	If SIN/EIN (LN09 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN09 3) is not equipped or was disconnected in a previous shift, go to Step 210.	TELCO/INST	—
197	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
198	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
199	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
200	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
201	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
202	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
203	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
204	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
205	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
206	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
207	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
208	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
209	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	
210	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
211	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
212	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
213	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
214	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO/INST	—
215	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	
216	Soak CU 1, API 0, SIN/EIN (LN09 3), if equipped, 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 and RPCN00 0 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	—
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 API 0, SIN/EIN (LN09 3), if equipped, and RPCN00 0 disconnection from the conversion switch box is complete.	TELCO	—
220	Soak CU 1, API 0, SIN/EIN (LN09 3), if equipped 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 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	—
221	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
222	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
223	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	—
224	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
225	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
226	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	—
227	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
228	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	
229	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, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	<i>START OF CU 1 DSCH CONNECTION TO DLN00 5 (LN00 5)</i>		
230	Notify next higher support organization that DLN00 5 (LN00 5) disconnection from the conversion switch box is going to be performed.	TELCO	—
231	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
232	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
233	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 5 (LN00 5) DISCONNECTION		
236	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 5 (LN00 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 5 (LN00 5) will be isolated also.		
237	At 3B21D APS MCRT, isolate DLN00 5 (LN00 5) (CFR:RING,LN00 5;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 5 COMPL	TELCO	DLP-531
238	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
239	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 5 (LN00 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
240	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, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 5 (LN00 5) 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. 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>		
241	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN00 5 (LN00 5).	INST	—
242	Route the CU 1 DLN00 5 (LN00 5) DSCH cable down to the 3B21D APS.	INST	—
243	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 5 (LN00 5).	INST	—
244	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN00 5 (LN00 5) DSCH that was routed in the previous step to the location just vacated.	INST	—
245	Verify cable label is correct; then properly tie off this cable.	INST	—
246	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, 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	
247	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 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.		
248	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5), specifying phase 34 and CU 1 (DGN:LN00 5: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 5 TASK x MESSAGE STARTED RING RMV LN00 5 STOPPED 5 DGN LN00 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
249	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
250	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 5 (LN00 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
251	At 3B21D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
252	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
253	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 5 (LN00 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
254	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	—
255	Soak DLN00 5 (LN00 5) 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	—
256	Determine if enough time remains in this shift to complete DLN00 10 (LN00 10) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
257	If enough time DOES remain, go to Step 316; otherwise, if enough time DOES NOT remain, perform Steps 258 through 306 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 10 (LN00 10) from the conversion switch box.		
258	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
259	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	
260	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
261	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, SIN/EIN (LN09 3), RPCN00 0 AND/OR DLN00 5 (LN00 5) WITH CU 1 ACTIVE		
262	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	
263	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	—
264	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 274.	TELCO/INST	—
265	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
266	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
267	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	—
268	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	—
269	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	
270	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
271	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
272	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	—
273	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
274	If SIN/EIN (LN09 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN09 3) is not equipped or was disconnected in a previous shift, go to Step 287.	TELCO/INST	—
275	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
276	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
277	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
278	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
280	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
282	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
283	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
284	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
285	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
286	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY, enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
287	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 293.	TELCO/INST	—
288	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
289	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	
290	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
291	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
292	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
293	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
294	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
295	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
297	At 3B21D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
298	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
299	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 05 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
300	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY, enter one of the following messages to make DLN00 5 (LN00 5) ACT: SW:DLN,LN00 5,LN32 05! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
301	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	—
302	Soak CU 1, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, and DLN00 5 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
303	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	
304	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	—
305	Notify next higher support organization that RPCN00 0 and DLN00 5 disconnection from the conversion switch box is complete.	TELCO	—
306	Soak CU 1, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, and DLN00 5 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
307	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
308	Verify 3B21D APS system status.	TELCO	DLP-500
309	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	
310	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
311	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
312	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	—
313	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
314	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	—
315	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, 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 DLN00 10 (LN00 10)		
316	Notify next higher support organization that DLN00 10 (LN00 10) disconnection from the conversion switch box is going to be performed.	TELCO	—
317	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
318	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
319	At 3B21D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT , enter one of the following messages to make DLN00 10 (LN00 10) STBY : SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN00 10 (LN00 10) DISCONNECTION		
322	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 10 (LN00 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN00 10 (LN00 10) will be isolated also.		
323	At 3B21D APS MCRT, isolate DLN00 10 (LN00 10) (CFR:RING,LN00 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN00 10 COMPL	TELCO	DLP-531
324	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
325	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN00 10 (LN00 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
326	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, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN00 10 (LN00 10) 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. 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>		
327	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN00 10 (LN00 10).	INST	—
328	Route the CU 1 DLN00 10 (LN00 10) DSCH cable down to the 3B21D APS.	INST	—
329	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN00 10 (LN00 10).	INST	—
330	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN00 10 (LN00 10) DSCH that was routed in the previous step to the location just vacated.	INST	—
331	Verify cable label is correct; then properly tie off this cable.	INST	—
332	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, 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	
333	At 3B21D APS MCRT, diagnose DLN00 10 (LN00 10) (DGN:LN00 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 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.		
334	At 3B21D APS MCRT, diagnose DLN00 10 (LN00 10), specifying phase 34 and CU 1 (DGN:LN00 10: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 10 TASK x MESSAGE STARTED RING RMV LN00 10 STOPPED 5 DGN LN00 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN00 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN00 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
335	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
336	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
337	At 3B21D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
338	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
339	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN00 10 (LN00 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
340	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	—
341	Soak DLN00 10 (LN00 10) 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		
342	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
343	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	—
344	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 5 (LN00 5), AND/OR DLN00 10 (LN00 10) WITH CU 1 ACTIVE		
345	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	
346	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
347	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	—
348	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 358.	TELCO/INST	—
349	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
350	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 0 is in (ACT or STBY).	TELCO	—
351	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	—
352	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	—
353	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	
354	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
355	At 1B Processor MTC terminal, restore API 0 to service unconditionally (RST:API 0;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
356	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	—
357	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
358	If SIN/EIN (LN09 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN09 3) is not equipped or was disconnected in a previous shift, go to Step 371.	TELCO/INST	—
359	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
360	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
361	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
362	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
363	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN09 3) is AVL/IS, enter message CHG:SLK(09,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN09 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(09,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
364	At 3B21D APS MCRT, diagnose SIN/EIN (LN09 3) (DGN:LN09 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN09 3 TASK x MESSAGE STARTED RING RMV LN09 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = OOS, IN1 = IS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN09 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN09 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
365	At 3B21D APS MCRT, restore SIN/EIN (LN09 3) to service unconditionally (RST:LN09 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN09 3). Response: RST LN09 3 TASK x MESSAGE STARTED RING RST LN09 3 COMPLETED	TELCO/INST	DLP-523
366	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
367	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
368	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN09 3) and SIN/EIN (LN41 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
369	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN09 3) is in (AVL/IS or AVL/STBY).	TELCO	—
370	At 3B21D APS MCRT, if Link State for SIN/EIN (LN09 3) is AVL/STBY , enter message CHG:SLK(09,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to AVL/IS . At 3B21D APS MCRT, CHG:SLK(09,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
371	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 377.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
372	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
373	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
374	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
375	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0.	TELCO	—
376	At 3B21D APS MCRT, on 600 display, ensure Major State for RPCN00 0 is ACT .	TELCO	—
377	If DLN00 5 (LN00 5) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN00 5 (LN00 5) was disconnected in a previous shift, go to Step 386.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
378	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
379	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
380	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is ACT , enter one of the following messages to make DLN00 5 (LN00 5) STBY : SW:DLN,LN00 05,LN32 05! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 05,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
381	At 3B21D APS MCRT, diagnose DLN00 5 (LN00 5) (DGN:LN00 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN00 5 TASK x MESSAGE STARTED RING RMV LN00 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN00 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
382	At 3B21D APS MCRT, restore DLN00 5 (LN00 5) to service unconditionally (RST:LN00 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN00-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-5 PUMP STARTED RING RST LN00 5 COMPLETED REPT DLNCM PROC (Pump) LN00-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-5 pump COMPL nnnn BYTES 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
383	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
384	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 5 (LN00 5) • DLN32 05 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
385	At 3B21D APS MCRT, if APPL STATE for DLN00 5 (LN00 5) is STBY, enter one of the following messages to make DLN00 5 (LN00 5) ACT: SW:DLN,LN00 5,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 5,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 5 (LN00 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
386	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 5 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—
387	At 3B21D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is ACT, enter one of the following messages to make DLN00 10 (LN00 10) STBY: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is STBY] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is STBY] Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
389	At 3B21D APS MCRT, restore DLN00 10 (LN00 10) to service unconditionally (RST:LN00 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN00-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN00-10 PUMP STARTED RING RST LN00 10 COMPLETED REPT DLNCM PROC (Pump) LN00-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN00-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN00-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN00-10 pump COMPL nnnn BYTES 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
390	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN00 10 (LN00 10) • DLN32 05 (LN32 5) • DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
391	At 3B21D APS MCRT, if APPL STATE for DLN00 10 (LN00 10) is STBY, enter one of the following messages to make DLN00 10 (LN00 10) ACT: SW:DLN,LN00 10,LN32 5! [if DLN32 5 (LN32 5) is ACT] or SW:DLN,LN00 10,LN32 10! [if DLN32 10 (LN32 10) is ACT]. Response: On Link Status Display Page (1107), DLN00 10 (LN00 10) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
392	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	—
393	Soak CU 1, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, DLN00 5, and DLN00 10 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
394	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	
395	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	—
396	Notify next higher support organization that API 0, SIN/EIN (LN09 3), RPCN00 0, DLN00 5, and DLN00 10 disconnection from the conversion switch box is complete.	TELCO	—
397	Soak CU 1, API 0, SIN/EIN (LN09 3), if equipped, RPCN00 0, DLN00 5, and DLN00 10 [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, RPCN00 0, and DLN00 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
398	STOP! YOU HAVE COMPLETED THIS PROCEDURE.	TELCO/INST	—

**Disconnect API 1, SIN/EIN (LN41 3), RPCN32 0, DLN32 5 (LN32 5),
and DLN32 10 (LN32 10) 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-020 (for CU 0 side) • NTP-021 (for CU 0 side) • NTP-022 (for 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, 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. 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>		
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: 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	—
48	If your CNI ring contains SIN/EIN nodes, continue at next step; otherwise, if your CNI DOES NOT contain SIN/EIN nodes, go to Step 107.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
49	Determine if enough time remains in this shift to complete SIN/EIN disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
50	If enough time DOES remain, go to Step 75; otherwise, if enough time DOES NOT remain, perform Steps 51 through 67 to reach a Safe Stop Point .	TELCO/INST	—
	CONVERSION SESSION TERMINATION Note: Continuing past this point in the procedure terminates this session before disconnecting SIN/EIN from the conversion switch box.		
51	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		
52	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
53	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	
54	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
55	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
56	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	—
57	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	—
58	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
59	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	
60	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!) Response: RST: API 1 COMPLETED.	TELCO/INST	DLP-526
61	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	—
62	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
63	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	
64	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	—
65	At 1B Processor MCC terminal, enter 108 to obtain System Status Page (108).	TELCO	—
66	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	—
67	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	—
68	Safe point to temporarily stop this procedure. Continue at next step when resuming.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
69	Verify 3B21D APS system status.	TELCO	DLP-500
70	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	
71	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
72	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
73	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	—
74	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 SIN/EIN (LN41 3)		
75	Notify next higher support organization that SIN/EIN (LN41 3) is going to be disconnected from the conversion switch box. Next higher support organization should notify NAMAC at 1-602-844-6406 that LN41 3 will be removed from service.	TELCO	—
76	At 3B21D APS MCRT, depress EA DISP (PF1) key.	TELCO	—
77	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	
	<i>VERIFY SIN/EIN (LN41 3) STATUS</i>		
78	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
79	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
80	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
81	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
82	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
83	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
84	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 1 (DGN:LN41 3:PH 34,CU 1!). Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
85	At 3B21D APS CU 1 power switch (EQL 53-060), ensure OOS LED is on.	TELCO	—
86	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	—
87	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 SIN/EIN (LN41 3) to the next ACT link node position. Any OOS link nodes immediately adjacent to LN41 3 will be isolated also.		
88	At 3B21D APS MCRT, isolate SIN/EIN (LN41 3) (CFR:RING, LN41 3; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN41 3 COMPL	TELCO	DLP-522
89	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
90	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
91	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: • LN41 3 - Ring Pos is ISO and Major State is OOS. • No other link nodes are isolated.	TELCO	—
	<i>DISCONNECTING SIN/EIN (LN41 3) 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. 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>		
92	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 SIN/EIN (LN41 3).	INST	—
93	Route the CU 1 SIN/EIN (LN41 3) DSCH cable down to the 3B21D APS.	INST	—
94	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with SIN/EIN (LN41 3).	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
95	At 3B21D APS CU 1 backplane, carefully connect the CU 1 SIN/EIN (LN41 3) DSCH that was routed in the previous step to the location just vacated.	INST	—
96	Verify cable label is correct; then properly tie off this cable.	INST	—
97	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
98	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO/INST	DLP-521

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.		
99	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3), specifying phase 34 and CU 1 (DGN:LN41 3:PH 34,CU 1!). Note: If diagnostic fails, reenter diagnostic message. If diagnostic fails a second time, corrective action must be taken. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 STOPPED 5 DGN LN41 3 PH 34 ATP MESSAGE IN PROGRESS DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-517
100	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
101	At 3B21D APS MCRT, on the Ring Node Status Display Page (1106), enter 641 in command mode to display the ring node frame group for SIN/EIN (LN41 3).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
102	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
103	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
104	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) is in AVL/STBY .	TELCO	—
105	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	—
106	Soak SIN/EIN (LN41 3) 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	—
107	Determine if enough time remains in this shift to complete RPCN32 0 disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
108	If enough time DOES remain, go to Step 151; otherwise, if enough time DOES NOT remain, perform Steps 109 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 disconnecting RPCN32 0 from the conversion switch box.		
109	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
110	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	—
111	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 SIN/EIN (LN41 3) WITH CU 1 ACTIVE		
112	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	
113	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	—
114	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 124.	TELCO/INST	—
115	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
116	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
117	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	—
118	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	—
119	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	
120	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
121	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
122	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	—
123	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
124	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
125	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
126	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
127	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
128	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
129	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
130	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
131	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
132	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
133	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
134	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
135	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
136	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	—
137	Soak CU 1, API 1, and SIN/EIN (LN41 3), if equipped, 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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
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 API 1 and SIN/EIN (LN41 3) disconnection from the conversion switch box is complete.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
141	Soak CU 1, API 1, and SIN/EIN (LN41 3), if equipped, 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 SIN/EIN (LN41 3) (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.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
143	Verify 3B21D APS system status.	TELCO	DLP-500
144	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	—
145	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	
146	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
147	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	—
148	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
149	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	—
150	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, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO RPCN32 0		
151	Notify next higher support organization that RPCN32 0 disconnection from the conversion switch box is going to be performed.	TELCO	—
	SETUP OF 3B21D APS AND CU 1 FOR RPCN32 0 DISCONNECTION		
152	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
153	At 3B21D APS MCRT, enter 600 in command mode to display the ring node frame group for RPCN00 0	TELCO	—
154	At 3B21D APS MCRT, Ensure Major State for RPCN00 0 is ACT .	TELCO	—
155	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0	TELCO	—
156	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	
157	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		
158	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.		
159	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
160	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
161	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
162	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	
163	At 3B21D APS CU 1 power switch (EQL 53-060), ensure OOS LED is on.	TELCO	—
164	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, 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. 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>		
165	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 RPCN32 0.	INST	—
166	Route the CU 1 RPCN32 0 DSCH cable down to the 3B21D APS.	INST	—
167	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with RPCN32 0.	INST	—
168	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	—
169	Verify cable label is correct; then properly tie off this cable.	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
170	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: 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
171	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.		
172	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
173	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	
174	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
175	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
176	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
177	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	—
178	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	—
179	Determine if enough time remains in this shift to complete DLN32 5 (LN32 5) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
180	If enough time DOES remain, go to Step 230; otherwise, if enough time DOES NOT remain, perform Steps 181 through 220 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 5 (LN32 5) from the conversion switch box.		
181	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
182	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	—
183	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, SIN/EIN (LN41 3), AND/OR RPCN32 0 WITH CU 1 ACTIVE		
184	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
185	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	
186	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	—
187	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 197.	TELCO/INST	—
188	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
189	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
190	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	—
191	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	—
192	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	
193	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
194	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
195	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	—
196	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
197	If SIN/EIN (LN41 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN41 3) is not equipped or was disconnected in a previous shift, go to Step 210.	TELCO/INST	—
198	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
199	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
200	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
201	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
202	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
203	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
204	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
205	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
206	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
207	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
208	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
209	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
210	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
211	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
212	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
213	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
214	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO/INST	—
215	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	
216	Soak CU 1, API 1, SIN/EIN (LN41 3), if equipped, 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 and RPCN32 0 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	—
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 API 1, SIN/EIN (LN41 3), if equipped, and RPCN32 0 disconnection from the conversion switch box is complete.	TELCO	—
220	Soak CU 1, API 1, SIN/EIN (LN41 3), if equipped 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 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	—
221	Safe point to temporarily stop this procedure. Continue at next step when resuming	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
222	Verify 3B21D APS system status.	TELCO	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
223	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	—
224	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page.	TELCO	—
225	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY).	TELCO	—
226	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	—
227	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
228	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	
229	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, RMV CU 1 TASK x MESSAGE STARTED RMV CU 1 COMPLETED	TELCO	—
	START OF CU 1 DSCH CONNECTION TO DLN32 5 (LN32 5)		
230	Notify next higher support organization that DLN32 5 (LN32 5) disconnection from the conversion switch box is going to be performed.	TELCO	—
231	At 3B21D APS MCRT, depress NORM DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
232	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
233	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT, enter one of the following messages to make DLN32 5 (LN32 5) STBY: SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 5 (LN32 5) DISCONNECTION		
236	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 5 (LN32 5) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 5 (LN32 5) will be isolated also.		
237	At 3B21D APS MCRT, isolate DLN32 5 (LN32 5) (CFR:RING, LN32 5; EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 5 COMPL	TELCO	DLP-531
238	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
239	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 5 (LN32 5) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
240	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, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 5 (LN32 5) 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. 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>		
241	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN32 5 (LN32 5).	INST	—
242	Route the CU 1 DLN32 5 (LN32 5) DSCH cable down to the 3B21D APS.	INST	—
243	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 5 (LN32 5).	INST	—
244	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN32 5 (LN32 5) DSCH that was routed in the previous step to the location just vacated.	INST	—
245	Verify cable label is correct; then properly tie off this cable.	INST	—
246	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, 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	
247	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 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.		
248	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5), specifying phase 34 and CU 1 (DGN:LN32 5: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 5 TASK x MESSAGE STARTED RING RMV LN32 5 STOPPED 5 DGN LN32 5 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 5 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
249	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
250	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 5 (LN32 5).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
251	At 3B21D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
252	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
253	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 5 (LN32 5) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
254	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	—
255	Soak DLN32 5 (LN32 5) 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	—
256	Determine if enough time remains in this shift to complete DLN32 10 (LN32 10) disconnection from the conversion switch box (1 ½ hours minimum).	TELCO/INST	—
257	If enough time DOES remain, go to Step 316; otherwise, if enough time DOES NOT remain, perform Steps 258 through 306 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 10 (LN32 10) from the conversion switch box.		
258	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
259	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	
260	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
261	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, SIN/EIN (LN41 3), RPCN32 0 AND/OR DLN32 5 (LN32 5) WITH CU 1 ACTIVE		
262	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	
263	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	—
264	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 274.	TELCO/INST	—
265	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
266	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
267	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	—
268	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	—
269	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	
270	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
271	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
272	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	—
273	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
274	If SIN/EIN (LN41 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN41 3) is not equipped or was disconnected in a previous shift, go to Step 287.	TELCO/INST	—
275	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
276	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
277	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
278	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
279	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
280	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
281	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
282	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
283	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
284	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
285	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
286	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
287	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 293.	TELCO/INST	—
288	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
289	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	
290	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
291	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
292	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
293	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
294	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
295	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
296	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
297	At 3B21D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
298	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
299	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 05 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
300	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 05! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
301	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	—
302	Soak CU 1, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, and DLN32 5 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
303	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	
304	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	—
305	Notify next higher support organization that RPCN32 0 and DLN32 5 disconnection from the conversion switch box is complete.	TELCO	—
306	Soak CU 1, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, and DLN32 5 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
307	Safe point to temporarily stop this procedure.	TELCO/INST	—
	<i>PRELIMINARY SETUP FOR THIS NIGHT'S ACTIVITY</i>		
308	Verify 3B21D APS system status.	TELCO	DLP-500
309	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	
310	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
311	At 3B21D APS MCRT, on the Common Processor Display Page (102), determine the state of CU 1 (ACT or STBY)	TELCO	—
312	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	—
313	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
314	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	—
315	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, 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 DLN32 10 (LN32 10)</i>		
316	Notify next higher support organization that DLN32 10 (LN32 10) disconnection from the conversion switch box is going to be performed.	TELCO	—
317	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
318	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
319	At 3B21D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT , enter one of the following messages to make DLN32 10 (LN32 10) STBY : SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	SETUP OF CNI RING FOR DLN32 10 (LN32 10) DISCONNECTION		
322	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 10 (LN32 10) to the next ACT link node position. Any OOS link nodes immediately adjacent to DLN32 10 (LN32 10) will be isolated also.		
323	At 3B21D APS MCRT, isolate DLN32 10 (LN32 10) (CFR:RING,LN32 10;EXCLUDE!). Response: RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx RING CFR RING LN32 10 COMPL	TELCO	DLP-531
324	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), enter 400 in command mode to obtain BISO-EISO display.	TELCO	—
325	At 3B21D APS MCRT, on Ring Node Status Display Page (1106), ensure the following: - DLN32 10 (LN32 10) - Ring Pos is ISO and Major State is OOS. - No other link nodes are isolated.	TELCO	—
326	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, REPT POWER REMOVED CU 1.	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<i>DLN32 10 (LN32 10) 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. 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>		
327	At the conversion switch box, locate and carefully disconnect the DSCH cable associated with CU 1 DLN32 10 (LN32 10).	INST	—
328	Route the CU 1 DLN32 10 (LN32 10) DSCH cable down to the 3B21D APS.	INST	—
329	At 3B21D APS CU 1 backplane, locate and carefully disconnect the DSCH cable associated with DLN32 10 (LN32 10).	INST	—
330	At 3B21D APS CU 1 backplane, carefully connect the CU 1 DLN32 10 (LN32 10) DSCH that was routed in the previous step to the location just vacated.	INST	—
331	Verify cable label is correct; then properly tie off this cable.	INST	—
332	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, 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	
333	At 3B21D APS MCRT, diagnose DLN32 10 (LN32 10) (DGN:LN32 10!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 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.		
334	At 3B21D APS MCRT, diagnose DLN32 10 (LN32 10), specifying phase 34 and CU 1 (DGN:LN32 10: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 10 TASK x MESSAGE STARTED RING RMV LN32 10 STOPPED 5 DGN LN32 10 PH 34 ATP MESSAGE IN PROGRESS DGN LN32 10 COMPLETED ATP MESSAGE IN PROGRESS DGN LN32 10 ATP MESSAGE COMPLETE	TELCO/INST	DLP-549
335	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
336	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for DLN32 10 (LN32 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
337	At 3B21D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
338	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
339	At 3B21D APS MCRT, on Link Status Display Page (1107), ensure APPL STATE for DLN32 10 (LN32 10) is STBY .	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
340	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	—
341	Soak DLN32 10 (LN32 10) 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		
342	At 3B21D APS MCRT, depress EA DISP (PF1) key	TELCO	—
343	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	—
344	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 5 (LN32 5), AND/OR DLN32 10 (LN32 10) WITH CU 1 ACTIVE		
345	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	
346	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 102 in command mode to obtain the Common Processor Display Page	TELCO	—
347	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	—
348	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 358.	TELCO/INST	—
349	At 1B Processor MCC terminal, enter 118 to obtain the 1B Processor Status Display Page.	TELCO	—
350	At 1B Processor MCC terminal, on the 1B Processor Status Display Page (118), determine what state API 1 is in (ACT or STBY).	TELCO	—
351	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	—
352	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	—
353	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	
354	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
355	At 1B Processor MTC terminal, restore API 1 to service unconditionally (RST:API 1;UCL!). Response: RST: API a COMPLETED	TELCO/INST	DLP-526
356	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	—
357	At 1B Processor MTC terminal, enter message ALW:MACLI,CLASS MTCE! to allow REX. Response: REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED	TELCO	—
358	If SIN/EIN (LN41 3) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if SIN/EIN (LN41 3) is not equipped or was disconnected in a previous shift, go to Step 371.	TELCO/INST	—
359	At 3B21D APS MCRT, enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
360	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
361	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
362	At 3B21D APS MCRT, on the Signaling Link Summary Display Page (1108), determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
363	At 3B21D APS MCRT, if LINK STATE for SIN/EIN (LN41 3) is AVL/IS, enter message CHG:SLK(41,3);STBY! Response: On Signaling Link Summary Display Page (1108), SIN/EIN (LN41 3) changes to AVL/STBY On 3B21D APS MCRT ROP, CHG:SLK(41,3);STBY! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = IS, IN1 = STBY. REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE	TELCO	DLP-520
364	At 3B21D APS MCRT, diagnose SIN/EIN (LN41 3) (DGN:LN41 3!). <i>Note:</i> Diagnostic will take approximately 10 minutes to complete. Response: DGN LN41 3 TASK x MESSAGE STARTED RING RMV LN41 3 COMPLETED REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = IS, IN1 = OOS REPT AMA FORMATTER IN LINKS ARE NOW SIMPLEX FAILED, UPGRADE ALARM STATE RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN41 3 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN41 3 ATP MESSAGE COMPLETE	TELCO	DLP-561

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
365	At 3B21D APS MCRT, restore SIN/EIN (LN41 3) to service unconditionally (RST:LN41 3;UCL!). Note: If restore fails, NAMAC must be contacted at 1-602-844-6406 to reset SIN/EIN (LN41 3). Response: RST LN41 3 TASK x MESSAGE STARTED RING RST LN41 3 COMPLETED	TELCO/INST	DLP-523
366	At 3B21D APS MCRT, depress NORM/DISP (PF2) key and enter 1108 in command mode to obtain the Signaling Link Summary Display Page.	TELCO	—
367	At 3B21D APS MCRT, on the 1108 Display Page, enter 460 in command mode to display the IN link nodes.	TELCO	—
368	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, ensure Link State for SIN/EIN (LN41 3) and SIN/EIN (LN09 3) are in AVL/IS and AVL/STBY configuration.	TELCO	—
369	At 3B21D APS MCRT, on the Signaling Link Summary Display Page, determine what Link State SIN/EIN (LN41 3) is in (AVL/IS or AVL/STBY).	TELCO	—
370	At 3B21D APS MCRT, if Link State for SIN/EIN (LN41 3) is AVL/STBY, enter message CHG:SLK(41,3);IS! Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN41 3) changes to AVL/IS. At 3B21D APS MCRT, CHG:SLK(41,3);IS! PF CHANGE ACCEPTED BY AMA REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = STBY, IN1 = IS REPT AMA FORMATTER IN LINKS ARE ACTIVE, NO TRANSITION IN ALARM STATE.	TELCO	DLP-518
371	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 377.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
372	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
373	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
374	At 3B21D APS MCRT, enter 1106 in command mode to obtain the Ring Node Status Display Page.	TELCO	—
375	At 3B21D APS MCRT, enter 632 in command mode to display the ring node frame group for RPCN32 0.	TELCO	—
376	At 3B21D APS MCRT, on 632 display, ensure Major State for RPCN32 0 is ACT .	TELCO	—
377	If DLN32 5 (LN32 5) was disconnected from the conversion switch box during this shift, continue with next step; otherwise, if DLN32 5 (LN32 5) was disconnected in a previous shift, go to Step 386.	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
378	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—
379	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
380	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is ACT , enter one of the following messages to make DLN32 5 (LN32 5) STBY : SW:DLN,LN32 05,LN00 05! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 05,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to STBY . On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
381	At 3B21D APS MCRT, diagnose DLN32 5 (LN32 5) (DGN:LN32 5!). Note: Diagnostic will take approximately 10 minutes to complete. Response: DGN LN32 5 TASK x MESSAGE STARTED RING RMV LN32 5 COMPLETED RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) BISO NODE = LNxx xx, EISO NODE = LNxx xx DGN LN32 5 COMPLETED ATP MESSAGE IN PROGRESS RING REPT RING CFR RING CONFIGURATION ESTABLISHED (nnn ms) NORMAL CONFIGURATION, NO NODES ISOLATED DGN LN32 5 ATP MESSAGE COMPLETE	TELCO	DLP-525

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
382	At 3B21D APS MCRT, restore DLN32 5 (LN32 5) to service unconditionally (RST:LN32 5;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 5 TASK x MESSAGE STARTED REPT DLNCM LN32-5 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-5 PUMP STARTED RING RST LN32 5 COMPLETED REPT DLNCM PROC (Pump) LN32-5 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-5 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-5 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-5 pump COMPL nnnn BYTES 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
383	At 3B21D APS MCRT, enter 1107 in command mode to obtain the Link Status Display Page	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
384	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 5 (LN32 5) • DLN00 05 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
385	At 3B21D APS MCRT, if APPL STATE for DLN32 5 (LN32 5) is STBY, enter one of the following messages to make DLN32 5 (LN32 5) ACT: SW:DLN,LN32 5,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 5,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 5 (LN32 5) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
386	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 5 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—
387	At 3B21D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is ACT, enter one of the following messages to make DLN32 10 (LN32 10) STBY: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is STBY] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is STBY] Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to STBY. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—

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

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
389	At 3B21D APS MCRT, restore DLN32 10 (LN32 10) to service unconditionally (RST:LN32 10;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 10 TASK x MESSAGE STARTED REPT DLNCM LN32-10 ON-LINE (X'00000000) REPT DLNCM PROC (Pump) LN32-10 PUMP STARTED RING RST LN32 10 COMPLETED REPT DLNCM PROC (Pump) LN32-10 nnn (nnn) BINKS PUMPED IN nnn MSEC REPT DLNCM PROC (Pumpapp) LN32-10 pump STARTED X'00000000 REPT DLNCM PROC (Pumpapp) LN32-10 DBTOC PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 PCPGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 IBGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 MISCGTT PUMPED nnnn BYTES MSEC nnn REPT DLNCM PROC (Pumpapp) LN32-10 pump COMPL nnnn BYTES 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
390	At 3B21D APS MCRT, on Link Status Display Page (1107), determine APPL STATE for each of the following: • DLN32 10 (LN32 10) • DLN00 05 (LN00 5) • DLN00 10 (LN00 10).	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
391	At 3B21D APS MCRT, if APPL STATE for DLN32 10 (LN32 10) is STBY, enter one of the following messages to make DLN32 10 (LN32 10) ACT: SW:DLN,LN32 10,LN00 5! [if DLN00 5 (LN00 5) is ACT] or SW:DLN,LN32 10,LN00 10! [if DLN00 10 (LN00 10) is ACT]. Response: On Link Status Display Page (1107), DLN32 10 (LN32 10) changes to ACT. On 3B21D APS MCRT ROP, SW DLN COMPLETE.	TELCO	—
392	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	—
393	Soak CU 1, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, DLN32 5, and DLN32 10 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
394	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	
395	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	—
396	Notify next higher support organization that API 1, SIN/EIN (LN41 3), RPCN32 0, DLN32 5, and DLN32 10 disconnection from the conversion switch box is complete.	TELCO	—
397	Soak CU 1, API 1, SIN/EIN (LN41 3), if equipped, RPCN32 0, DLN32 5, and DLN32 10 [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, RPCN32 0, and DLN32 5 (as required) must be isolated and reconnected to the original DSCH cables. Contact the appropriate support organization for technical assistance.	TELCO/INST	—
398	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.**

Diagnose DLN (LN00 5, LN00 10, LN32 5, or LN32 10) 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 (5 or 10)
 c = CU helper number (0 or 1).

Response: **DGN LNaa b TASK x MESSAGE STARTED**
RING RMV LNaa b STOPPED 5
DGN LNaa b PH 34 ATP MESSAGE IN PROGRESS
DGN LNaa b COMPLETED ATP MESSAGE IN PROGRESS
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 (5 or 10)
 c = CU helper number (0 or 1).

Response: **DGN LNaa b TASK x MESSAGE STARTED**
RING RMV LNaa b STOPPED 5
DGN LNaa b PH 34 ATP MESSAGE IN PROGRESS
DGN LNaa b COMPLETED ATP MESSAGE IN PROGRESS
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.**

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 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.**

Diagnose SIN/EIN (LN09 3 or LNaa 3) Specifying CU 0 or 1 and Phase 34

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 **DGN:LNaa 3:PH 34:CU b!**

where aa = Link node cabinet number (09 or 41)
 b = CU helper number (0 or 1).

Response: **DGN LNaa 3 TASK x MESSAGE STARTED**
RING RMV LNaa 3 STOPPED 5
RING REPT RING CFR *
RING CONFIGURATION ESTABLISHED (nnn ms) *
BISO NODE = LNxx xx, EISO NODE = LNxx xx *
DGN LNaa 3 PH 34 ATP MESSAGE IN PROGRESS
DGN LNaa 3 COMPLETED ATP MESSAGE IN PROGRESS
RING REPT RING CFR *
RING CONFIGURATION ESTABLISHED (nnn ms) *
NORMAL CONFIGURATION, NO NODES ISOLATED *
DGN LNaa 3 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:LNaa 3:PH 34:CU b!** again.

where aa = Link node cabinet number (09 or 41)
 b = CU helper number (0 or 1).

Response: **DGN LNaa 3 TASK x MESSAGE STARTED**
RING RMV LNaa 3 STOPPED 5
DGN LNaa 3 PH 34 ATP MSG IN PROGRESS
DGN LNaa 3 COMPLETED ATP MESSAGE IN PROGRESS
DGN LNaa 3 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.**

Change SIN/EIN (LN09 3 or LN41 3) to ACT

Note: This procedure can be used for changing 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

CHG:SLK(aa,3);IS! [Where aa = ring node cabinet number (09 or 41)] to change SIN/EIN (LN09 3 or LN41 3) being removed to In-service.

Response: On Signaling Link Summary Display Page (1108), Link State for SIN/EIN (LN09 3) changes to **AVL/IS**.

At 3B20D APS MCRT,

**CHG:SLK(aa,3);IS! PF CHANGE ACCEPTED BY AMA
REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = b, IN1 = c
REPT AMA FORMATTER IN LINKS ARE ACTIVE,
NO TRANSITION IN ALARM STATE.**

where aa = Ring node cabinet number
 b = State LN09 3 is in
 c = State LN41 3 is in.

3. Did SIN/EIN change to IS?

If **Yes**, go to Step 5.

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

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

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

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.**

Change SIN/EIN (LN09 3 or LN41 3) to STBY

Note: This procedure can be used for changing 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

CHG:SLK(aa,3);STBY! [Where aa = ring node cabinet number (09 or 41)] to change SIN/EIN (LN09 3 or LN41 3) being removed to STBY.

Response: On Signaling Link Summary Display Page (1108), SIN/EIN just changed, changes to **STBY**

On 3B20D APS MCRT ROP,

CHG:SLK(aa,3);STBY! PF CHANGE ACCEPTED BY AMA

**REPT AMA FORMATTER IN LINKS ARE ACTIVE,
NO TRANSITION IN ALARM STATE**

REPT AMA FORMATTER IN LINK STATE CHANGE: IN0 = b, IN1 = c.

**REPT AMA FORMATTER IN LINKS ARE ACTIVE,
NO TRANSITION IN ALARM STATE**

where aa = Ring node cabinet number
 b = State LN09 3 is in
 c = State LN41 3 is in.

3. Did SIN/EIN change to STBY?

If **Yes**, go to Step 5.

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

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

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

Diagnose SIN/EIN (LN09 3 or LN41 3)

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 **DGN:LNaa 3!**

[where aa = ring node cabinet number (09 or 41)].

Response: **DGN LNaa 3 TASK x MESSAGE STARTED**
RING RMV LNaa STOPPED 5
DGN LNaa 3 COMPLETED ATP MESSAGE IN PROGRESS
DGN LNaa 3 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.**

Change SIN/EIN (LN09 3 or LN41 3) to Isolated

Note: This procedure can be used for isolating a 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

CFR:RING,LNaa 3;EXCLUDE!

[Where aa = CN1 ring node cabinet number (09 or 41)] to isolate SIN/EIN (LN09 3 or LN41 3).

Response: **RING REPT RING CFR**
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = a, EISO NODE = LNaa 3
RING CFR RING LNaa 3 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 SIN/EIN (LN09 3 or LN41 3) to Service Unconditionally

Note: This procedure can be used for restoring a SIN/EIN to service 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:LNaa 3;UCL!**
[where aa = CNI ring node cabinet number (09 or 41)].

Response: **RST LNaa 3 TASK x MESSAGE STARTED**
RING REPT RING CFR *
RING CONFIGURATION ESTABLISHED (nnn ms) *
NORMAL CONFIGURATION, NO NODES ISOLATED *
RING RST LNaa 3 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 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 5, LN00 10, LN32 5, or LN32 10)

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 (5 or 10).

Response: **DGN LN00 5 TASK x MESSAGE STARTED**
RING RMV LN00 5 COMPLETED

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN LN00 5 COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN LN00 5 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 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. 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 0, LN00 10, LN32 5, or LN32 10) 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!**

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.*

where aa = CNI ring node cabinet number (00 or 32)
 b = DLN number (5 or 10).

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
REPT DLNCM PROC (Pumpapp) LNaa-b pump STARTED X'00000000
REPT DLNCM PROC (Pumpapp) LNaa-b DBTOC PUMPED nnnn BYTES
MSEC nnn
REPT DLNCM PROC (Pumpapp) LNaa-b PCPGTT PUMPED nnnn BYTES
MSEC nnn
REPT DLNCM PROC (Pumpapp) LNaa-b IBGTT PUMPED nnnn BYTES
MSEC nnn
REPT DLNCM PROC (Pumpapp) LNaa-b MISCGTT PUMPED nnnn BYTES
MSEC nnn
REPT DLNCM PROC (Pumpapp) LNaa-b pump COMPL nnnn BYTES 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, from Step 1.

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

Change DLN (LN00 5, LN00 10, LN32 5, or LN32 10) to Isolated

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
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 restoring 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. 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 **RST:SBUS 1!**

Response: **RST SBUS 1 TASK x MESSAGE STARTED**
RMV SBUS 1 STOPPED X'S
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 Generic to MHD 9

1. At 3B20D APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/3b21/cpgen.sh"

Response:

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 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
ALW:RCV:APPDB,APP ALL!
to allow application data base recent changes.

Response: **ALW:RCV:APPDB APP ALL COMPLETED**

41. At 3B20D APS MCRT, enter message
ALW:FTA;APP ALL!
to allow file transfer.

Response: **ALW FTA APP ALL IN PROGRESS
FTA IS ALLOWED FOR IBGTT

ALW FTA APP ALL IN PROGRESS
FTA IS ALLOWED FOR OBGTT

ALW FTA APP ALL IN PROGRESS
FTA IS ALLOWED FOR CORE

ALW FTA APP ALL COMPLETE**

42. At 3B20D APS MCRT, enter message
ALW:DCC!
to allow data consistency checks.

Response: **ALW DCC COMPLETE**

43. At 3B20D APS MCRT, enter message

ALW:ADB,APP IBGTT!

to allow automated database backup (ADB).

Response: **ALW ADB COMPLETED, FOR IBGTT**

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

Response: **4ESS INH RCV COMPL**

RECENT CHANGE INHIBIT OFF

45. 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)

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

47. 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.

48. At 3B21D APS MCRT, enter **30** to set **Backup-Root**.

49. At 3B21D APS MCRT, ensure **SET** is highlighted for **Backup-Root**.

50. At 3B21D APS MCRT, enter **33** to clear **Min-Config**.

51. At 3B21D APS MCRT, ensure **SET** is not highlighted for **Min-Config**.

52. At 3B21D APS MCRT, enter **10** in command mode to force CU 0 on-line.

Response: **Force CU On-Line? (y/n)**

53. At 3B21D APS MCRT, enter **y** to force CU 0 on-line.
54. At 3B21D APS MCRT, enter **25** in command mode to allow sanity timer.
55. At 3B21D APS MCRT, enter **54** in command mode to boot the 3B21D APS.
56. At 3B21D APS MCRT, enter **y** in command mode to confirm the boot.
57. 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 59 through 65.

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

58. 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).

59. Did a Failure occur?

If **Yes**, go to Step 60.

If **No**, go to Step 66.

60. At 3B21D APS MCRT, enter **20**

61. At 3B21D APS MCRT, enter **11** (CU 1 FONL)

Response: **Force CU On-Line? (y/n)**

62. At 3B21D APS MCRT, enter **y**

63. 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).

64. Did the boot fail again?

If **Yes**, go to Step 65.

If **No**, go to Step 66.

65. Contact next higher support organization for direction.

66. At 3B21D APS MCRT, on EAI Page, enter **13** in command mode to clear forces.

Response: **REPT CU a NO LONGER FORCED ONLINE**

67. At 3B20D APS MCRT, enter message **OP:OOS:CU!** and determine which CU is listed (out-of-service).

68. After entering the message in the next step, continue performing this procedure while periodically observing the ROP for errors and/or completion message.

69. 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.

70. Were any cables moved from the 3B20D APS to the 3B21D APS?

If **Yes**, go to Step 71.

If **No**, go to Step 72.

71. All cables must be moved back to the 3B20D APS at this time. While cables are being moved, continue with the next step.

72. Determine why the boot to the 3B21D APS was not successful. After resolving, go to the next step.

73. Request the installer to load the 3B21D APS disk from tape (LDFT procedure).

Note: The following step will require a whole shift to complete.

74. Repeat NTP-015 and NTP-016.

75. **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 Link Controller (SDLC) From Service

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

where a = SDLC member number.

Response: **RMV SCLC 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 3B20D 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 3B20D 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 5, LN00 10, LN32 5, or LN32 10) 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 (5 or 10)
 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 (5 or 10)
 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.

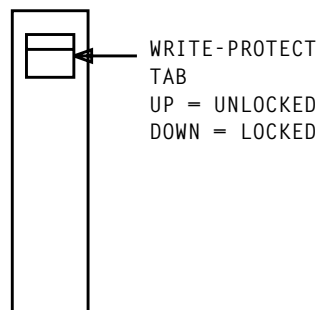


Figure 1. 4-mm Tape

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.

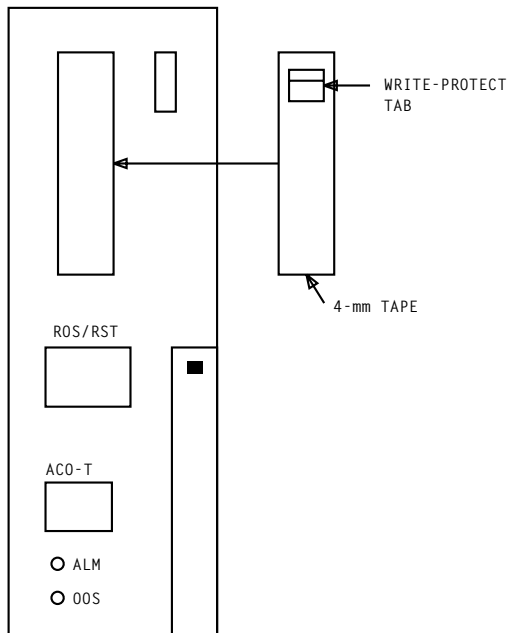


Figure 2. DAT Unit with 4-mm Tape

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.

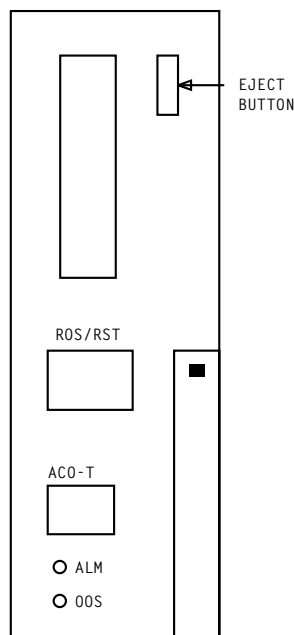


Figure 1. DAT Unit

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.

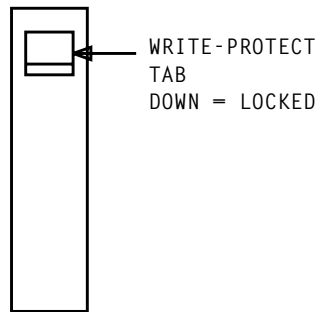


Figure 2. DAT Unit

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.**

Diagnose SIN/EIN (LN09 3 or LN41 3)

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 **DGN:LNaa 3!**

[where aa = ring node cabinet number (09 or 41)].

Response: **DGN LNaa 3 TASK x MESSAGE STARTED**
RING RMV LNaa 3 COMPLETED

REPT AMA FORMATTER IN 0 LINK ACT/STBY BUT NODE NOT ACT
REPT AMA FORMATTER IN LINK STATE CHANGE, IN0 = b, IN1 = c
REPT AMA FORMATER IN LINKS ARE NOW SIMPLEX FAILED,
UPGRADE ALARM STATE

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
BISO NODE = LNxx xx, EISO NODE = LNxx xx

DGN LNaa 3 COMPLETED ATP MESSAGE IN PROGRESS

RING REPT RING CFR
RING CONFIGURATION ESTABLISHED (nnn ms)
NORMAL CONFIGURATION, NO NODES ISOLATED

DGN LNaa 3 ATP MESSAGE COMPLETE

where aa = Ring node cabinet number
 b = State of LN09 3
 c = State of LN41 3

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 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 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. 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)].

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 5, LN00 10, LN32 5, or LN32 10)

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 (5 or 10).

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
aaaaaaaa == Starting LTS address through
bbbbbbbb == 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 restoring 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.**

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. 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 **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)
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.**

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.**

Operation Support Systems (OSSs) Cable Connections at MPC-15 Frame

1. Using table, find the cable that is to be connected and the associated figure.

CABLE	LOCATION	FIGURE
3B20D UNIX	0021 port 3	1
3B20D TOPAS	0111 port 1	1
3B20D SCC0	0111 port 2	1
3B20D NETA/NEMOS	0111 port 4	1
3B21D SCC0	0112 port 5	1
3B20D RC/V	1021 port 3	2
3B20D SCC1	1111 port 1	2
3B20D NETB/RNMS	1111 port 4	2
3B21D SCC1	1112 port 5	2

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

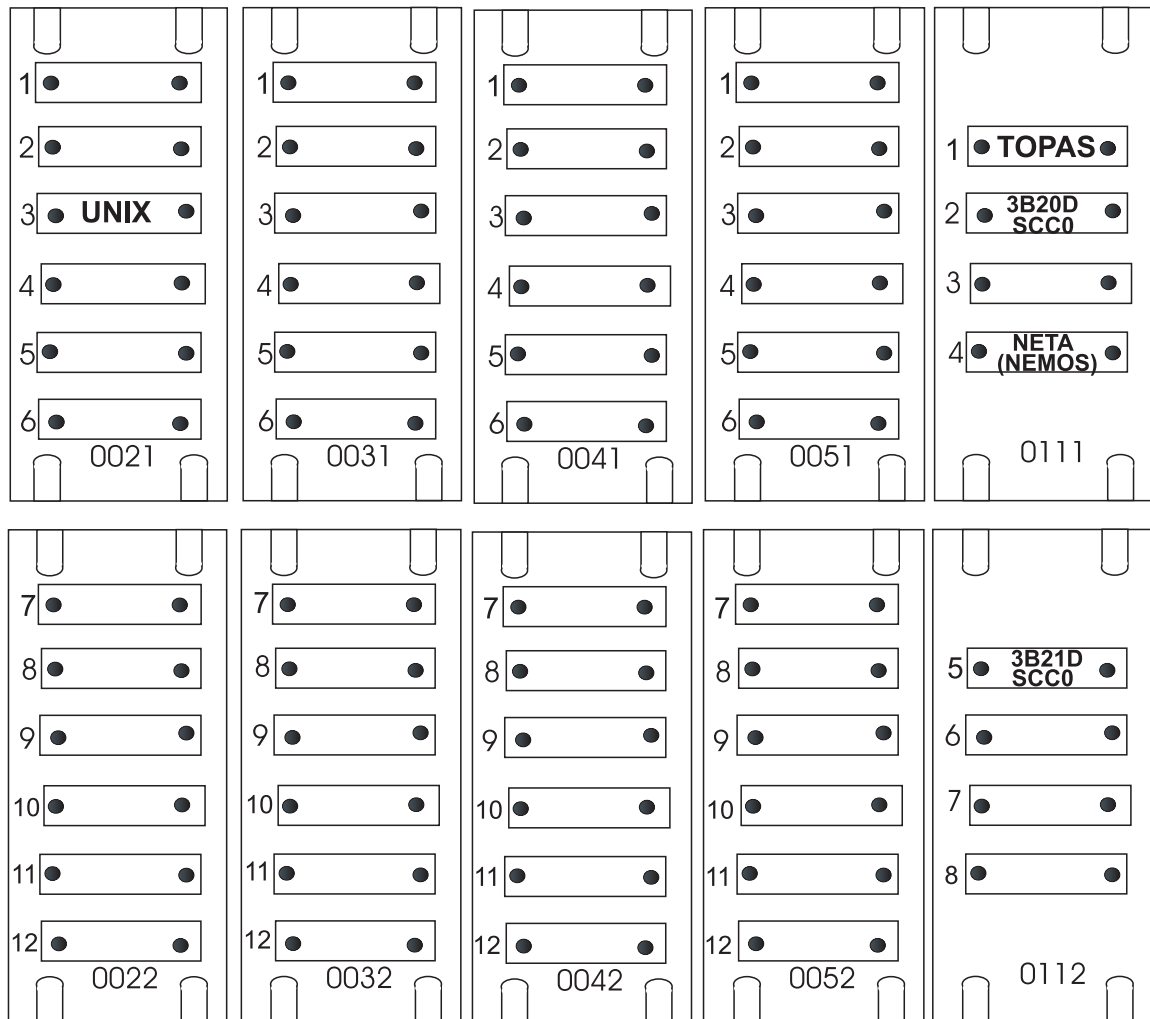


Figure 1. MPC 0 Cable Connections

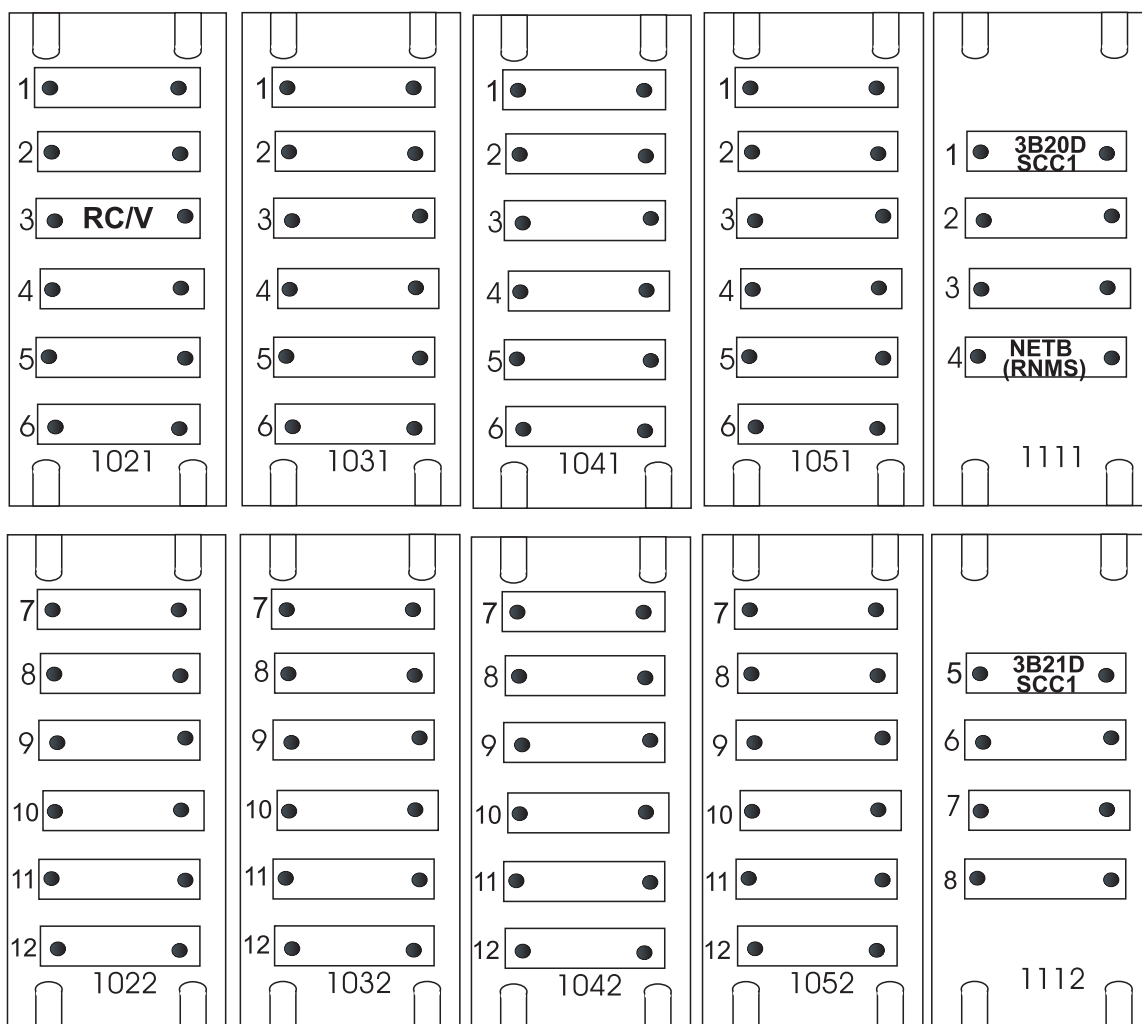


Figure 2. MPC 1 Cable Connections

Checklist

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-512		DLP-547			
NTP-002		DLP-513		DLP-549			
NTP-003		DLP-514		DLP-549			
NTP-004		DLP-515		DLP-550			
NTP-005		DLP-516		DLP-551			
NTP-006		DLP-517		DLP-552			
NTP-007		DLP-518		DLP-553			
NTP-008		DLP-519		DLP-554			
NTP-009		DLP-520		DLP-555			
NTP-010		DLP-521		DLP-556			
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		CKL-891			
DLP-509		DLP-544		TNG-893			
DLP-510		DLP-545					
DLP-511		DLP-546					

- Revised or added item
- ☐ Canceled 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.

AT&T 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

AT&T 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.

AT&T 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.