

**Lucent Technologies**  
Bell Labs Innovations



# **4E26 to 4E27 Generic Retrofit and 4E27 ODA Update**

**4ESS™** Switch With 1B  
Processor

234-160-027  
Issue 1  
December 2001

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Lucent Technologies 4ESS™ Lucent Learning Organization

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# How Are We Doing?

Document Title: 4E26 to 4E27 Generic Retrofit and 4E27 ODA Update **4ESS™** Switch With 1B Processor

Document No.: 234-160-027

Issue 1

Date: December 2001

Lucent Technologies welcomes your feedback on this document. Your comments can be of great value in helping us improve our documentation.

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	Excellent	Good	Fair	Poor	Not Applicable
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## TASK INDEX LIST

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FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
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Acceptance .....	NTP-002
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**Note:** The tasks listed below for 4E26 to 4E27 Generic Retrofit or 4E27 ODA update, must be performed at the interval with respect to retrofit or update date.

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### 4E26 to 4E27 GENERIC RETROFIT (AT&T Office Only)

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**-2 DAY TASK:**

Test Retrofit Process.....	NTP-004
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**EVENING OF RETROFIT:**

Prepare for Update.....	NTP-005
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**RETROFIT:**

Perform Update.....	NTP-006
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### 4E27 ODA UPDATE (AT&T Office Only)

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**-2 DAY TASK:**

Test ODA Update Process.....	NTP-007
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**EVENING OF UPDATE:**

Prepare for Update.....	NTP-005
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**ODA UPDATE:**

Perform Update.....	NTP-006
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<b>FIND YOUR JOB IN THE LIST BELOW</b>	<b>THEN GO TO</b>
<hr/> <b>4E26 to 4E27 GENERIC RETROFIT (LEC Office Only)</b> <hr/>	
<b>-3 DAY TASK:</b>	
Arrange for AMA Data Collection and Check SCANS for Overwrites.....	NTP-003
<b>-2 DAY TASK:</b>	
Test Retrofit Process.....	NTP-004
<b>EVENING OF RETROFIT:</b>	
Prepare for Update.....	NTP-005
<b>RETROFIT:</b>	
Perform Update.....	NTP-008
<hr/> <b>4E27 ODA UPDATE (LEC Office Only)</b> <hr/>	
<b>-3 DAY TASK:</b>	
Arrange for AMA Data Collection and Check Scans for Overwrites.....	NTP-003
<b>-2 DAY TASK:</b>	
Test ODA Update Process.....	NTP-007
<b>EVENING OF UPDATE:</b>	
Prepare for Update.....	NTP-005
<b>ODA UPDATE:</b>	
Perform Update.....	NTP-008

## Acceptance

Acceptance tests do not apply to the procedures contained in this volume.



## Arrange for AMA Data Collection and Check for SCANS Overwrites

	DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
	<p><b>Note:</b> AMA data should be saved via tape or teleprocessing to provide AMA processing centers with a known starting point for 4E27 data. Processing centers will verify the new AMA data on the first business day following retrofit or update, so that any problems with the new data can be quickly identified and resolved.</p>	
1	<p><b>Enter Date, Time, and Signature or place a check mark beside each item or subitem when completed.</b></p> <p>Date _____ Time _____ Signature _____</p>	—
2	<p>Notify National AMA Control Center and/or Revenue Accounting Office (RAO), whichever processes AMA data, of expected date and time of generic retrofit or ODA update.</p> <p>Date _____ Time _____ Signature _____</p>	—
3	<p>If AMA data is written to tape, perform Items 4 through 6; otherwise, go to Item 7.</p> <p>Date _____ Time _____ Signature _____</p>	—
4	<p>Notify Billing Center that an AMA tape will be written just prior to the generic or ODA update, plus regularly scheduled AMA tape.</p> <p>Date _____ Time _____ Signature _____</p>	—
5	<p>If necessary, arrange for special handling of these tapes.</p> <p>Date _____ Time _____ Signature _____</p>	—
6	<p>If necessary, obtain AMA tapes from the Billing Center.</p> <p>Date _____ Time _____ Signature _____</p>	—
7	<p>If LEC office is being updated and teleprocessing is used for AMA data, perform Items 8 through 10; otherwise, go to Item 11.</p> <p>Date _____ Time _____ Signature _____</p>	—
8	<p>Arrange for special teleprocessing session to be completed just prior to performing generic retrofit or ODA update.</p> <p>Date _____ Time _____ Signature _____</p>	—
9	<p>If special teleprocessing session is not possible, arrange for processing AMA tape which will be written just prior to generic retrofit or ODA update.</p> <p>Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
10	If necessary, obtain AMA tapes from the Billing Center. Date _____ Time _____ Signature _____	—
11	Check BWMs for current 4E27 generic overwrites and if 4E27 generic overwrites are required, save per local practice. These overwrites will be inserted into the system after the office is running successfully on the 4E27 generic. Date _____ Time _____ Signature _____	—
12	<b>STOP! YOU HAVE COMPLETED THIS PROCEDURE.</b>	—

### Test Retrofit Process

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	<p><b>Enter Date, Time, and Signature or place a check mark beside each item or subitem when completed.</b></p> <p>Date _____ Time _____ Signature _____</p>	—
2	<p>If AT&amp;T office is being retrofitted, contact office being retrofitted and verify that conflicting activities are not scheduled.</p> <p>Date _____ Time _____ Signature _____</p>	—
3	<p>If current 1B Processor generic has not been written to tape, write backup 1B Processor generic tape (4-mm).</p> <p>Date _____ Time _____ Signature _____</p>	DLP-539
4	<p>Write 3B APS backup tapes (RT0 and DB Tapes only) using 234-351-002 (<i>M a i n t e r D a p e r e a C i e m s e r</i>)</p> <p>Date _____ Time _____ Signature _____</p>	—
5	<p>At 3B APS MCRT, if screen displays EAI Page, depress <b>NORM/DISP</b> key.</p> <p>Date _____ Time _____ Signature _____</p>	—
6	<p>At 3B APS MCRT, enter <b>101</b> in command mode to obtain the 101 display page.</p> <p>Date _____ Time _____ Signature _____</p>	—
7	<p>At 3B APS MCRT, depress <b>CMD/MSG</b> key to move the cursor to the bottom of the screen.</p> <p>Date _____ Time _____ Signature _____</p>	—
8	<p>If the database has been loaded from the Off-Line Processor, at 3B APS MCRT, verify the database to ensure the generic is 4E&lt;27&gt;5x.yy Ra and proper office name is listed (<b>OP:APPLOAD UPD!</b>).</p> <p>Date _____ Time _____ Signature _____</p>	DLP-500
9	<p>If the generic database is to be loaded from tape, perform Items 10 through 54; otherwise, go to Item 55.</p> <p>Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
10	Obtain the following new 4-mm tapes associated with the 1B Processor retrofit: <ul style="list-style-type: none"> <li>• Generic tape</li> <li>• ODA (if tape will be used)</li> <li>• NWM</li> </ul> Date _____ Time _____ Signature _____	—
11	If test retrofit process is expected to last through midnight, perform Items 12 and 13; otherwise, go to Item 14. Date _____ Time _____ Signature _____	—
12	At 3B APS MCRT, enter message <b>INH:DMQ;SRC REX!</b> to inhibit REX.  Response: <b>INH DMQ COMPLETED</b>  Date _____ Time _____ Signature _____	—
13	At 1B Processor MTC terminal, enter message <b>INH:MACLI,CLASS MTCE;REX!</b> to inhibit REX.  Response: <b>REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED</b>  Date _____ Time _____ Signature _____	—
<b><i>INSERT NEW ODA AND/OR GENERIC TAPES FOR DISK UPDATE</i></b>		
14	If two idle 3B APS digital audio tape (DAT) units are available for update and <b>ODA is being loaded from tape</b> , perform Items 15 through 20; otherwise, go to Item 21. Date _____ Time _____ Signature _____	—
15	Verify that tape identification data is correct for the 4E27 generic tape (Item 10). Date _____ Time _____ Signature _____	—
16	Verify that office identification code (BASE and CONTROL) and generic issue are correct for the 4E27 ODA tape (Item 10). Date _____ Time _____ Signature _____	—
17	Insert generic tape in 3B APS MT 0 Digital Audio Tape (DAT) unit and ODA tape in 3B APS MTC MT 1 DAT unit. Date _____ Time _____ Signature _____	DLP-501

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
18	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT 0!</b> and record generic identification number (4E<27>5x.yy Ra) for later use in the LOAD message. Date _____ Time _____ Signature _____	DLP-502
19	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT 1!</b> and record BASE and CONTROL numbers for later use in the LOAD message. Ensure that the BASE and CONTROL numbers are correct for this office. Date _____ Time _____ Signature _____	DLP-502
20	Go to Item 25. Date _____ Time _____ Signature _____	—
21	If only one 3B APS DAT unit is available for update or <b>ODA is not being loaded from tape</b> , perform Items 22 through 24; otherwise, go to Item 25. Date _____ Time _____ Signature _____	—
22	Verify that tape identification data is correct for the 4E27 generic tape (Item 10). Date _____ Time _____ Signature _____	—
23	Insert generic tape in idle 3B APS DAT unit. Date _____ Time _____ Signature _____	DLP-501
24	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT a!</b> (a = 3B APS DAT unit number - 0 or 1) and record generic identification number (4E<27>5x.yy Ra) for later use in the LOAD message. Date _____ Time _____ Signature _____	DLP-502
<b>LOAD GENERIC ON DISK</b>		
<b><i>Caution: When GENERIC COMPLETE - READY FOR ODA output message is received, update program enters a 20-minute wait mode. Input message to process ODA tape must be entered within this time limit or test will be terminated and complete restart will be required.</i></b>		
25	At 3B APS MCRT, load new generic on disk ( <b>LOAD:UPDATE:GEN "4E&lt;27&gt;5x.yy Ra",MT b!</b> ). Date _____ Time _____ Signature _____	DLP-503

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
26	If loading of generic was successful, go to Item 30; otherwise, if loading of generic was aborted, perform Items 27 through 29. Date _____ Time _____ Signature _____	—
27	At 3B APS DAT unit, containing tape that failed, remove tape. Date _____ Time _____ Signature _____	DLP-504
28	At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure all units are in service. Date _____ Time _____ Signature _____	DLP-506
29	Repeat from Item 14 using another copy of the tape that failed. Date _____ Time _____ Signature _____	—
<b>LOAD ODA ON DISK</b>		
30	If ODA is being loaded from tape, perform Items 31 through 42; otherwise, go to Item 43. Date _____ Time _____ Signature _____	—
31	If ODA tape is not inserted into 3B APS DAT unit, perform Items 32 through 35; otherwise, go to Item 36. Date _____ Time _____ Signature _____	—
32	At 3B APS DAT unit, containing generic tape, remove tape. Date _____ Time _____ Signature _____	DLP-504
33	Verify that office identification code (BASE and CONTROL) and generic issue are correct for the 4E27 ODA tape (Item 10). Date _____ Time _____ Signature _____	—
34	At 3B APS DAT unit just idled, insert ODA tape. Date _____ Time _____ Signature _____	DLP-501
35	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT a!</b> (a = 3B APS DAT unit number - 0 or 1) and record BASE and CONTROL numbers for later use in the LOAD message. Ensure that the BASE and CONTROL numbers are correct for this office. Date _____ Time _____ Signature _____	DLP-502

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
	<p><b>Caution: When ODA COMPLETE - READY FOR NWM output message is received, update program enters a 20-minute wait mode. Input message to process network management tape must be entered within this time limit or test will be terminated and complete restart will be required.</b></p>	
36	<p>At 3B APS MCRT, load new ODA on disk (LOAD:UPDATE:CONT "aaaabb",MT cl). Date _____ Time _____ Signature _____</p>	DLP-505
37	<p>If loading of ODA was successful, go to Item 41; otherwise, if loading of ODA was aborted, perform Items 38 through 42. Date _____ Time _____ Signature _____</p>	—
38	<p>At 3B APS DAT unit, containing tape that failed, remove tape. Date _____ Time _____ Signature _____</p>	DLP-504
39	<p>At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure all units are in service. Date _____ Time _____ Signature _____</p>	DLP-506
40	<p>Repeat from Item 30 using another copy of the tape that failed. Date _____ Time _____ Signature _____</p>	—
41	<p>At 3B APS DAT unit, containing the ODA tape, remove tape. Date _____ Time _____ Signature _____</p>	DLP-504
42	<p>Go to Item 49. Date _____ Time _____ Signature _____</p>	—
43	<p>If ODA is being loaded from the ODA Manager file, perform Items 44 through 48; otherwise, go to Item 49. Date _____ Time _____ Signature _____</p>	—
44	<p>At 3B APS MCRT, enter message <b>OP:STATUS:LISTDIR,FN"/etc/bwm"</b> and ensure that <b>omgroda</b> file is listed. If <b>omgroda</b> file is not listed, contact next higher support group for resolution. Proceed as directed by the next higher support group. Date _____ Time _____ Signature _____</p>	DLP-541

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
45	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT "/etc/bwm/omgroda"!</b> and record BASE and CONTROL numbers for later use in the LOAD message. Ensure that the BASE and CONTROL numbers are correct for this office. Date _____ Time _____ Signature _____	DLP-542
	<b><i>Caution: When ODA COMPLETE - READY FOR NWM output message is received, update program enters a 20-minute wait mode. Input message to process network management tape must be entered within this time limit or test will be terminated and complete restart will be required.</i></b>	
46	At 3B APS MCRT, load new ODA on disk <b>(LOAD:UPDATE:CONT "aaaabb",MT "/etc/bwm/omgroda"!).</b> Date _____ Time _____ Signature _____	DLP-543
47	If loading of ODA was successful, go to Item 49; otherwise, if loading of ODA was aborted, perform Item 48. Date _____ Time _____ Signature _____	—
48	Contact next higher support group for resolution. Proceed as directed by the next higher support group. Date _____ Time _____ Signature _____	—
	<b>LOAD NETWORK MANAGEMENT ON DISK</b>	
49	Insert new network management tape in 3B APS DAT unit and verify that tape identification is correct for 4E27 update ( <b>VER:UPDATE:TAPE,MT a!</b> ). Date _____ Time _____ Signature _____	DLP-507

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
50	<p>At 3B APS MCRT, load new network management on disk and complete database (<b>LOAD:UPDATE:CONT NWM,MT a!</b>).</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. After receiving <b>MAPPING DYNAMIC DATA FROM NORMAL FILE</b> output message, <b>WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR</b> output message may be received. Mapping dynamic data can not cross 15-minute time boundary due to long-term storage data mutilation. System will automatically map dynamic data when in the proper window.</li> <li>2. After receiving <b>DATABASE COMPLETE - READY FOR GENERIC RETROFIT</b> output message, loading process is complete.</li> </ol> <p>Date _____ Time _____ Signature _____</p>	DLP-508
51	<p>If loading of network management was successful, go to Item 55; otherwise, if loading of network management was aborted, perform Items 52 through 54.</p> <p>Date _____ Time _____ Signature _____</p>	—
52	<p>At 3B APS DAT unit, remove network management tape.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-504
53	<p>At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure all units are in service.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-506
54	<p>Repeat from Item 49 using another copy of the tape that failed.</p> <p>Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
	<b>COMPLETE AND VERIFY THE UPDATE DATABASE</b>	
55	At 3B APS MCRT, enter message <b>COPY:LSNC ALL!</b> to rebuild the large scale nailup connections and update TOSL in the UPDATE file; ensure <b>REPT LSNC: LSNC MAPPING COMPLETE</b> output message is received. Date _____ Time _____ Signature _____	—
56	After the <b>VER</b> input message in Item 57 has been entered and if no critical overwrites are required (Item 58), this procedure can be continued at Item 59 without waiting for the verify to complete. The printout must be observed periodically for errors. Date _____ Time _____ Signature _____	—
57	At 3B APS MCRT, verify 1AFILE hashed areas for 0 errors ( <b>VER:APPFILE UPD!</b> ). Date _____ Time _____ Signature _____	DLP-509
58	If critical overwrites are required, insert the critical overwrites into the UPDATE file and save printout of the overwrites. Date _____ Time _____ Signature _____	DLP-510
59	Compare critical data in new ODA with data in the active system by performing Items 60 and 61. Date _____ Time _____ Signature _____	—
60	Run cross-translations compare program. Date _____ Time _____ Signature _____	DLP-511
61	Analyze, with help from support organization, results of the compare for unexpected mismatches. Date _____ Time _____ Signature _____	—
62	If compare found unexpected mismatches, perform Item 63; otherwise, if the compare did not find unexpected mismatches, go to Item 64. Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
63	If the compare found unexpected mismatches between the new ODA and the data in the active system, after consulting with appropriate support organization, select option A. or B. and proceed as directed:  A. If mismatches can be corrected within the hour, determine additional overwrites to be inserted and repeat from Item 58. Date _____ Time _____ Signature _____  B. If it is determined that corrections cannot be made within the hour, await further instructions before proceeding. Date _____ Time _____ Signature _____	—
64	If LEC office is being retrofitted, perform Items 65 through 69; otherwise, go to Item 70. Date _____ Time _____ Signature _____	—
65	At 3B APS DAT unit(s), remove tape(s) as appropriate. Date _____ Time _____ Signature _____	DLP-504
66	If 1B Processor REX was inhibited in Item 13, at 1B Processor MTC terminal, enter message <b>ALW:MACLI,CLASS MTCE!</b> to allow REX.  Response: <b>REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.</b>  Date _____ Time _____ Signature _____	—
67	If 3B APS REX was inhibited in Item 12, at 3B APS MCRT, enter message <b>ALW:DMQ;SRC REX!</b> to allow REX.  Response: <b>ALW DMQ ENABLED REX</b>  Date _____ Time _____ Signature _____	—
68	Obtain a list from the TOC of all trunks added during the quiet period. These trunks will be set to CAD.DSA state during "Prepare for Update" procedure. Date _____ Time _____ Signature _____	—
69	Go to Item 71. Date _____ Time _____ Signature _____	—
70	Notify NSC provisioning of expected date and time of the generic retrofit. Date _____ Time _____ Signature _____	—
71	<b>STOP! YOU HAVE COMPLETED THIS PROCEDURE.</b>	—



## Prepare for Update

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	<p><b>Enter Date, Time, and Signature or place a check mark beside each item or subitem when completed.</b></p> <p>Date _____ Time _____ Signature _____</p>	—
2	<p><b><i>If a received response Does Not Match the given response in this procedure, contact next higher support group for resolution.</i></b></p> <p>Date _____ Time _____ Signature _____</p>	—
3	<p><b><i>If there is any question concerning an Item in this procedure, contact next higher support group for clarification.</i></b></p> <p>Date _____ Time _____ Signature _____</p>	—
4	<p>Obtain the most recent records of the office performance data; Organize for orderly post update comparison.</p> <p>Date _____ Time _____ Signature _____</p>	—
5	<p>At 1B Processor MTC terminal, enter message <b>OP:OOSUNITS!</b> and ensure that required units are in service.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-512
6	<p>At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure that required units are in service.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-506
7	<p>Verify no audits are inhibited. If audits are inhibited, take corrective action as determined by appropriate support organization.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-519
8	<p>At 1B Processor MCC terminal, enter poke command <b>108</b> to obtain the 108 page.</p> <p>Date _____ Time _____ Signature _____</p>	—
9	<p>At 1B Processor MCC terminal, enter poke command <b>801</b> (RESTRICT RC) (<b>801 - RESTRICT RC</b> colored black on white).</p> <p>Date _____ Time _____ Signature _____</p>	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
	<p><b>Note:</b> For AT&amp;T offices, Items 10 through 16 are to be performed on-site.</p>	
10	<p>Write backup ODA tape.</p> <p><b>Caution: Do not enter COPY:APPFIL NORM! message after ODA tape has been written.</b></p> <p>Date _____ Time _____ Signature _____</p>	DLP-538
11	<p>If office is covered by an Operation Support System, request appropriate support organization to convert recent change databases for Monitor Channel and Operation Support System.</p> <p>Date _____ Time _____ Signature _____</p>	—
	<p><b>Note:</b> Writing of long-term storage must be initiated during a 7-minute window beginning 4 minutes past any quarter hour.</p>	
12	<p>Write backup long-term storage (LTS) tape.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-513
13	<p>Notify Network Manager to obtain a hard copy of all the network display system (NMDS) PA pages since controls associated with these pages will be lost concurrent with the update.</p> <p>Date _____ Time _____ Signature _____</p>	—
14	<p>Write backup traffic and plant measurement (TPM) tape.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-514
15	<p>Write backup trunk out-of-service list (TOSL) tape.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-515
16	<p>Write backup network management (NWM) tape.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-534
17	<p>Save the tapes just written until the new database is committed.</p> <p>Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
18	Perform Item 18.A or 18.B per local practice to obtain trunk subgroup maintenance status. Save printout for trunk circuit recovery verification after running on the new generic and/or ODA:	
	A. At 1B Processor MTC terminal, enter message <b>OP:TSGSTAT;DETL:ALL!</b> Date _____ Time _____ Signature _____	—
	B. At 1B Processor MTC terminal, enter message <b>OP:TSGSTAT;DETL:TCA a!</b> a = Number for each assigned trunk control area. Date _____ Time _____ Signature _____	—
19	At 1B Processor MTC terminal, enter message <b>OP:TANTOTAN!</b> to obtain a listing of all active TAN-to-TAN connections. Save the printout to verify that the connections are still up after the office is running on the new generic and/or ODA. Date _____ Time _____ Signature _____	—
20	At 1B Processor MTC terminal, enter message <b>VER:NAILUP;ALL!</b> to obtain a listing of all active large scale nailup connections. Save the printout to verify that the connections are still up after the office is running on the new generic and/or ODA. Date _____ Time _____ Signature _____	—
21	At 1B Processor MTC terminal, run CC diagnostic phase 95. Date _____ Time _____ Signature _____	DLP-516
22	At 1B Processor MTC terminal, restore standby CC to service ( <b>RST:CC a!</b> ). Date _____ Time _____ Signature _____	—
23	At 1B Processor MTC terminal, switch CCs ( <b>SW:CC!</b> ). Date _____ Time _____ Signature _____	—
24	At 1B Processor MTC terminal, run CC diagnostic phase 95. Date _____ Time _____ Signature _____	DLP-516
25	At 1B Processor MTC terminal, restore standby CC to service ( <b>RST:CC a!</b> ). Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
26	If office is set up for AMA recording, save primary IC and/or OC AMA data and/or ICDR by performing option A, B, C or D. <b>This must be scheduled to be completed within 2 hours prior to the update.</b>	
	A. For offices which write AMA tapes Date _____ Time _____ Signature _____	DLP-517
	B. For offices which do AMA teleprocessing:	
	1. At 3B APS MCRT ROP, review printouts to determine if AMA teleprocessing session is in progress or if AMA session has completed within the past 2 hours. Date _____ Time _____ Signature _____	—
	2. If session is in progress, wait until session terminates. Date _____ Time _____ Signature _____	—
	3. Ensure that <b>NORMAL TERMINATION - NO MORE DATA</b> message was received on session summary printout for each AMA stream set to teleprocessing. Date _____ Time _____ Signature _____	—
	4. If AMA session has not completed within the last 2 hours, perform Steps 26.B.5 through 26.B.8; otherwise, go to Step 27. Date _____ Time _____ Signature _____	—
	5. At 3B APS MCRT, enter message <b>OP:AMA;CONTROLFILE!</b> and save the printout for later reference in setting the control file back to normal. Date _____ Time _____ Signature _____	—
	6. At 3B APS MCRT, enter message <b>SET:AMA;CONTROL;a:OPTION TAPE [,TAPEID "b"]!</b> (a = IC or OC and b = tape data set ID, as required) for each stream set to teleprocessing. Date _____ Time _____ Signature _____	—
	7. Save the primary AMA data to tape. Date _____ Time _____ Signature _____	DLP-517
	8. At 3B APS MCRT, enter message <b>SET:AMA;CONTROL;a:OPTION TP!</b> (a = IC or OC) to set the AMA control file back to teleprocessing. Date _____ Time _____ Signature _____	—
<b>Continued on Next Page</b>		

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
26	<i>(C o n t i n u e d</i>	
	C. For offices which do AMA constant polling, notify the National AMA Control Center. Date _____ Time _____ Signature _____	—
	D. For offices which do ICDR, notify AMA Center. Date _____ Time _____ Signature _____	—
27	Request the appropriate support organization (NSC Provisioning or TOC) to set all the trunks that have been added during the quiet period or since the off-line processor recent change update (if any) to CAD.DSA state before performing the update. Date _____ Time _____ Signature _____	—
28	If a LEC office is being updated, obtain the 4E27 SCANS alert concerning the incident data set commands. These commands are to be applied after the system is running on the 4E27 generic. Date _____ Time _____ Signature _____	—
29	At 3B APS MCRT, depress <b>NORM/DISP</b> key and enter <b>1106</b> in command mode to obtain Display Page 1106. Date _____ Time _____ Signature _____	—
30	Ensure <b>RING POS</b> is <b>NORM</b> and <b>MAJOR STATE</b> is <b>ACT</b> for each equipped CNI Ring Node. Date _____ Time _____ Signature _____	—
31	Enter <b>1107</b> in command mode to obtain Display Page 1107. Date _____ Time _____ Signature _____	—
32	Ensure one direct link node is assigned <b>1WAY IN</b> and one direct link node is <b>1WAY OUT</b> . Both direct link nodes must have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If four direct link nodes are listed, <b>HDWR STATE</b> must be <b>ACT</b> and <b>APPL STATE</b> must be <b>STBY</b> for the direct link nodes not assigned <b>1WAY IN</b> or <b>1WAY OUT</b> . Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
33	Enter <b>1108</b> in command mode to obtain Display Page 1108. Date _____ Time _____ Signature _____	—
34	Ensure <b>LINK STATE</b> is <b>AVL/IS</b> and <b>NODE STATE</b> is <b>ACT</b> for each equipped Signaling Link. Date _____ Time _____ Signature _____	—
35	Ensure in progress CNI Ring growth has been completed. If growth has not been completed, contact appropriate support organization to determine if the update can be performed. Date _____ Time _____ Signature _____	—
36	At 1B Processor MTC terminal, enter message <b>OP:SVCSTAT!</b> and save the printout for later use after running on the new generic and/or ODA. Date _____ Time _____ Signature _____	—
37	At 1B Processor MCC terminal, enter <b>810</b> and verify on the 1B Processor MTC printer there is no service-degrading condition. If there is, contact next higher support group for resolution. Date _____ Time _____ Signature _____	—
38	At 3B APS MCRT, load the TLP from tape onto disk ( <b>LOAD:TLP:GEN "a",MT b!</b> ). Date _____ Time _____ Signature _____	DLP-527

### Perform Update (For AT&T Offices Only)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<b>Note:</b> In the Responsibility column, NCC is Network Control Center and OSWF is on-site workforce - office technician.		
1	Place a check mark beside Item or Subitem when completed.	NCC/OSWF	—
2	<b><i>If a received Response does not match the given Response in this procedure, contact your Next Higher Support Group for resolution.</i></b>	NCC/OSWF	—
3	<b><i>If there is any question concerning an Item in this procedure, contact your Next Higher Support Group for clarification.</i></b>	NCC/OSWF	—
4	Before starting, review and become familiar with DLP-523.	NCC/OSWF	—
5	At 1B Processor MTC Terminal, enter message <b>INH:MACLI,CLASS MTCE;REX!</b> to inhibit REX.  Response: <b>REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED</b>	NCC	—
6	At 1B Processor MTC Terminal, enter message <b>OP:TSGSTAT;SUM:ALL!</b> to obtain a Trunk Subgroup Status Summary; Save printout in a file for Trunk Circuit Recovery Verification.	NCC	—
7	At 1B Processor MTC Terminal, enter message <b>OP:OOSUNITS!</b> and ensure that required units are in-service.	NCC	DLP-512
8	Verify there are no audits inhibited. If audits are inhibited, take corrective action as determined by your appropriate support group.	NCC	DLP-519
9	At 3B APS MCRT, enter message <b>INH:DMQ;SRC REX!</b> to inhibit REX.  Response: <b>INH DMQ COMPLETED</b>	NCC	—
10	At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure that required 3B APS units are in-service.	NCC	DLP-506
11	At 3B APS MCRT, verify the data base to ensure that the generic is <b>4E&lt;27&gt;5x.yy Ra</b> and proper office is listed ( <b>OP:APPLOAD UPD!</b> ).	NCC	DLP-520

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
12	If critical overwrites are required, insert critical overwrites into UPDATE file and save printout of overwrites.	NCC	DLP-510
	<b>Note:</b> If schedules that are entered by <b>SCHED:MEAS</b> input message are to be retained for update, include <b>MEAS</b> option in <b>LOAD</b> message.		
13	At 3B APS MCRT, map dynamic data from NORMAL file to UPDATE file ( <b>LOAD:UPDATE:MAP[,MEAS]!</b> ).	NCC	DLP-521
	<b>Caution: Item 13 must be completed before performing Item 14 to prevent errors when verifying 1AFILE hashed areas.</b>		
14	At 3B APS MCRT, verify 1AFILE hashed areas for 0 errors ( <b>VER:APPFILE UPD!</b> ).	NCC	DLP-509
15	<b>Do Not</b> proceed until instructed by NOC. Safe point to temporarily stop this procedure.	NCC	—
16	At 3B APS MCRT, enter message <b>COPY:LSNC TOSL!</b> to update TOSL in UPDATE file; ensure <b>REPT LSNC: LSNC MAPPING COMPLETE</b> message is received.	NCC	DLP-546
17	At 3B APS MCRT, enter message <b>RMV:SDL 24!</b> to remove the RCAS channel; ensure <b>RMV SDL 24 COMPLETED</b> message is received.	NCC	—
18	Prepare 1B Processor MCC Terminal for manual recovery.	NCC	DLP-522
19	Manually update 1B Processor.	NCC	DLP-523
20	Proceed as appropriate per options A or B:		
	A. If attempt to configure to the 4E27 Generic was <b>successful</b> , go to Item 23.	NCC	—
	B. If attempt to configure to the 4E27 Generic was <b>not successful</b> , perform Items 21 and 22.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
21	<b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E26 OCCURRED.</b> Perform Item 22 to determine cause and decide on course of action.	NCC	—
	<i><b>Caution: Item 22 must only be performed if backout was necessary. Do Not perform Item 22 if boot to new generic was successful.</b></i>		
22	Determine cause of failure and decide on course of action:		
	1. At 1B Processor MTC Terminal, enter message <b>UPD:COMMIT;NORMFILE!</b>	NCC	—
	2. At 1B Processor MCC Terminal, if EAI Page is <b>Not</b> displayed, depress <b>EA DISP</b> key.	NCC	—
	3. Analyze, with help from next higher support group, printout to determine why update failed.	NCC	—
	4. After consulting with support organization, select Option A or B; and proceed as directed:	NCC	—
	A. <b>If update is to be discontinued</b> , it is End of Procedure. Ensure system is operating properly and restore all out-of-service equipment.	NCC	—
	B. <b>If update is to be continued</b> , proceed as directed by next higher support group.	NCC	—
23	<b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> Perform Items 24 through 29 to restore 1B Processor complex units and SDL 24.	NCC	—
24	At 3B APS MCRT, enter message <b>RST:SDL 24!</b> to restore the RCAS channel; ensure <b>RST SDL 24 COMPLETED</b> message is received.	NCC	—
25	At 1B Processor MTC Terminal, enter message <b>OP:MACLI,CLASS MTCE!</b>	NCC	—
26	If 1B Processor complex unit(s) is listed in printout, go to Item 29; otherwise, perform Items 27 through 29.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
27	At 1B Processor MTC Terminal, enter message <b>OP:OOSUNITS!</b>	NCC	—
	<b>Note:</b> IFB must be restored before restoring MUP, AUI, or SSD.		
28	If 1B Processor complex unit(s) is listed in printout, enter restore message to restore each unit listed.	NCC	—
	<b>Note:</b> It is important to get 1B Processor units restored to service as soon as possible while the remainder of the retrofit procedure is being performed.		
29	Periodically repeat from Item 25 while continuing to perform succeeding steps in this NTP until 1B Processor complex units are restored.	NCC	—
30	At 3B APS MCRT, verify Direct Link Nodes were pumped from proper 1AFILE.	NCC	DLP-525
31	At 3B APS MCRT, enter message <b>INIT:CIFMT!</b> to initialize the call irregularity formatter daemon process.  Response: <b>INIT CIFMT COMPLETED</b>  If <b>RL</b> response is received, contact your Next Higher Support Group for resolution.	NCC	—
32	If the loaded Network Management has a different issue from the previous Network Management, look back in the printout for "OSOR BURST" page. At the bottom of BURST page, ensure that <b>OSOR SCHEDULES</b> are <b>NOT CHANGED</b> and <b>COUNT DATA BASE</b> is <b>UPDATED</b> .	NCC	—
33	When the system starts to process calls (I/O communications reestablished), if the system clock time data is incorrect, set the system clock.	NCC	DLP-526
34	At 1B Processor MTC Terminal, enter message <b>INH:MACLI,CLASS MTCE;REX!</b> to inhibit REX.  Response: <b>REPT:MACLI,CLASS MTCE INHIBITED</b> <b>AUTOMATIC JOB SCHEDULING DISALLOWED</b>	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
	<b>Note:</b> Items 38 through 42 can be performed at the same time as Items 35 through 37.		
35	At 1B Processor MTC Terminal, enter message <b>OP:SVCSTAT!</b> and observe printout for any service circuits that are <b>Not</b> new DTMF transmitters or receivers, or part of hardware rearrange associated with update. Compare printout with printout saved in NTP-005, Item 36. Ensure all required service circuits are active. If problems are found, request assistance from next higher support group for resolution.	NCC	—
36	If any active TAN-to-TAN connections existed prior to update, at 1B Processor MTC Terminal, enter message <b>OP:TANTOTAN!</b> and verify from printout that TAN-to-TAN connections are still established (compare printout with printout saved in NTP-005, Item 19).	NCC	—
37	If any active Large-Scale Nailup connections existed prior to update, at 1B Processor MTC Terminal, enter message <b>VER:NAILUP;ALL!</b> and verify from printout that Large-Scale Nailup connections are still established (compare printout with printout saved in NTP-005, Item 20).	NCC	—
38	Run audits 43, 44, 45, 66, and 72 (Items 39 Through 42).	NCC	—
39	At 1B Processor MTC Terminal, enter message <b>AUD:NUM (43,44,45,66,72)!</b>	NCC	—
40	While audits are running, continue to perform succeeding Items.	NCC	—
41	If any errors are detected and <b>Not</b> corrected, inform next higher support group of audit results and follow their instructions for further action.	NCC	—
42	During execution of audits 43 and 66, scan output messages periodically for abort message.	NCC	—
43	At 1B Processor MTC Terminal, restore out-of-service units.	NCC	DLP-528
44	At 3B APS MCRT, depress <b>NORM/DISP</b> key and enter <b>1106</b> in command mode to obtain Display Page 1106.	NCC	—
45	On Display Page 1106, ensure <b>RING POS</b> is <b>NORM</b> and <b>MAJOR STATE</b> is <b>ACT</b> for each equipped CNI Ring Link Node.	NCC	—
46	At 3B APS MCRT, enter <b>1107</b> in command mode to obtain Display Page 1107.	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
47	On Display Page 1107, ensure one Direct Link Node is assigned <b>1WAY IN</b> and one Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes must have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If four Direct Link Nodes are Listed, <b>HDWR STATE</b> must be <b>ACT</b> and <b>APPL STATE</b> must be <b>STBY</b> for Direct Link Nodes not assigned <b>1WAY IN</b> or <b>1WAY OUT</b> .	NCC	—
48	At 3B APS MCRT, enter <b>1108</b> in command mode to obtain Display Page 1108.	NCC	—
49	On Display Page 1108. ensure <b>LINK STATE</b> is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> is <b>ACT</b> for each equipped Signaling Link.	NCC	—
50	At 1B Processor MTC Terminal, enter message <b>OP:MSGRCDF,FS!</b> to clear recorded message area on disk. <b>NG</b> response indicates there are no messages on disk to be cleared.	NCC	—
51	At an I/O Terminal other than 1B Processor MTC Terminal, set up Vacant Code Counting Traps, as required.	NCC	DLP-529
52	At 1B Processor MTC Terminal, enter message <b>OP:TSGSTAT;SUM:ALL!</b> to obtain Trunk Subgroup Status summary. compare printout with printout saved in Item 6.	NCC	—
53	If Trunk Subgroup discrepancies exist which cannot be resolved with the summary printout, request appropriate support organization (NSC provisioning or TOC) to initiate request for detailed printout of Trunk Subgroup status.	NCC	—
54	Request appropriate support organization (NSC provisioning or TOC) to initiate sample trunk testing at each test position.	NCC	—
55	Notify Network Operations Center (NOC) to begin checkout of Network Management system.	NCC	—
56	Review maintenance output messages; account for interrupts, interjects, and audit reports and compare with preupdate office performance results.	NCC	—
57	Compare count of ineffective machine attempts with preupdate level.	NCC	—
58	At 1B Processor MTC Terminal, enter message <b>INIT:PUXINIT!</b>	NCC	—
59	Request NOC to verify that manually placed calls and system placed test calls complete successfully.	NCC/OSWF	—
60	Request NOC to enter security call traps that existed prior to update (if any).	NCC	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
61	At 1B Processor MTC Terminal, enter message <b>ALW:MACLI,CLASS MTCE!</b> to allow REX.  Response: <b>REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.</b>	NCC	—
62	At 3B APS MCRT, enter message <b>ALW:DMQ;SRC REX!</b> to allow REX.	NCC	—
63	At 1B Processor MCC Terminal, enter <b>108</b> to obtain System Status Page (108).	NCC	—
64	On System Status Page (108), if <b>801 - RESTRICT RC</b> is colored black on white, enter <b>801</b> .	NCC	—
65	Perform options A, B, or C to reenter recent change data:		
	A. If reentering recent change data at the office, reenter per local practice.	OSWF	—
	B. Request MAC to enter new recent change data, as required, into the system.	OSWF	—
	C. Request operation support system to enter new recent changes, as required, into the system:		
	1. Notify Machine Administration Group (MAG) to perform update.	NCC	—
	2. Wait until update is complete before continuing.	NCC	—
	3. Notify IRAS to update office data base. Request IRAS to notify NCC when the data base is complete.	NCC	—
	4. <b>Do Not</b> write any backup tapes until IRAS completes the update.	OSWF	—
66	At 1B Processor MTC Terminal, enter message <b>AUD:NUM (43,44,45,66,72)!</b> ; <b>Do Not</b> continue until audits have completed with 0 errors.	OSWF	—
	<b>Note:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour.		
67	Write backup Long-Term Storage (LTS) tape.	OSWF	DLP-513

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO	
68	Write updated Traffic and Plant Measurement (TPM) Schedule tape.	OSWF	DLP-514
69	If any 4E27 overwrites are to be installed, install per local practice.	NCC	—
70	Write backup TOSL tape.	OSWF	DLP-515
71	Write backup Library (LIB) tape.	OSWF	DLP-533
72	Write backup Network Management (NWM) tape.	OSWF	DLP-534
73	Write backup 1B Processor ODA tapes, if required.	OSWF	DLP-538
74	Write backup 1B Processor Generic tapes, if required.	OSWF	DLP-539
75	Request next higher support group to determine if office can commit to 1B Processor generic. <b>Do Not</b> proceed without permission from next higher support group.	NCC	—
76	At 3B APS MCRT, enter message <b>ALW:FILESYS:ACCESS 755,FN"/cft/shl/cmds/COPY/APPFILE"! to restore execute permissions to COPY:APPFILE program.</b>	NCC	—
	<b><i>WARNING: Item 77 will delete any reference to 4E26 generic in NORMAL and UPDATE files. In order to go back to 4E26 generic, a System Reinitialization (SR) will be required.</i></b>		
77	Commit to 4E27 Generic.	NCC	DLP-537
78	<b>STOP! YOU HAVE COMPLETED THIS PROCEDURE.</b>	NCC/OSWF	—

## Test ODA Update Process

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	<p><b>Enter Date, Time, and Signature or place a check mark beside each item or subitem when completed.</b></p> <p>Date _____ Time _____ Signature _____</p>	—
2	<p>At 3B APS MCRT, if screen displays EAI Page, depress <b>NORM/DISP</b> key.</p> <p>Date _____ Time _____ Signature _____</p>	—
3	<p>At 3B APS MCRT, enter <b>101</b> in command mode to obtain the 101 display page.</p> <p>Date _____ Time _____ Signature _____</p>	—
4	<p>At 3B APS MCRT, depress <b>CMD/MSG</b> key to move the cursor to the bottom of the screen.</p> <p>Date _____ Time _____ Signature _____</p>	—
5	<p>If the database is to be loaded from the Off-Line Processor, at 3B APS MCRT, verify the database to ensure the generic is 4E&lt;27&gt;5x.yy Ra and proper office name is listed (<b>OP:APPLOAD UPD!</b>).</p> <p>Date _____ Time _____ Signature _____</p>	DLP-500
6	<p>If the database is to be loaded from tape, perform Items 7 through 34; otherwise, go to Item 35.</p> <p>Date _____ Time _____ Signature _____</p>	—
7	<p>If test ODA update process is expected to last through midnight, perform Items 8 and 9; otherwise, go to Item 10.</p> <p>Date _____ Time _____ Signature _____</p>	—
8	<p>At 3B APS MCRT, enter message <b>INH:DMQ;SRC REX!</b> to inhibit REX.</p> <p>Response: <b>INH DMQ COMPLETED</b></p> <p>Date _____ Time _____ Signature _____</p>	—
9	<p>At 1B Processor MTC terminal, enter message <b>INH:MACLI,CLASS MTCE;REX!</b> to inhibit REX.</p> <p>Response: <b>REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED</b></p> <p>Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
10	If Network Management Tape is not available, write a Network Management (NWM) tape. Date _____ Time _____ Signature _____	DLP-534
<b>LOAD ODA ON DISK</b>		
11	If ODA is being loaded from tape, perform Items 12 through 21; otherwise, go to Item 22. Date _____ Time _____ Signature _____	—
12	Obtain the new ODA tape and verify that office identification code (BASE and CONTROL) and generic issue are correct for the 4E27 ODA tape. Date _____ Time _____ Signature _____	—
13	At an available 3B APS Digital Audio Tape (DAT) unit, insert ODA tape. Date _____ Time _____ Signature _____	DLP-501
14	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT a!</b> (a = 3B APS DAT unit number - 0 or 1) and record BASE and CONTROL numbers for later use in the LOAD message. Ensure that the BASE and CONTROL numbers are correct for this office. Date _____ Time _____ Signature _____	DLP-502
<b>Caution: When ODA COMPLETE - READY FOR NWM output message is received, update program enters a 20-minute wait mode. Input message to process network management tape must be entered within this time limit or test will be terminated and complete restart will be required.</b>		
15	At 3B APS MCRT, load new ODA on disk ( <b>LOAD:UPDATE:ODA "aaaabb",MT c!</b> ). Date _____ Time _____ Signature _____	DLP-535
16	If loading of ODA was successful, go to Item 20; otherwise, if loading of ODA was unsuccessful, perform Items 17 through 19. Date _____ Time _____ Signature _____	—
17	At 3B APS DAT unit, containing tape that failed, remove tape. Date _____ Time _____ Signature _____	DLP-504

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
18	At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure all units are in service. Date _____ Time _____ Signature _____	DLP-506
19	Repeat from Item 12 using another copy of the tape that failed. Date _____ Time _____ Signature _____	—
20	At 3B APS DAT unit, containing the ODA tape, remove tape. Date _____ Time _____ Signature _____	DLP-504
21	Go to Item 28. Date _____ Time _____ Signature _____	—
22	If ODA is being loaded from the ODA Manager file, perform Items 23 through 27; otherwise, go to Item 28. Date _____ Time _____ Signature _____	—
23	At 3B APS MCRT, enter message <b>OP:STATUS:LISTDIR, FN"/etc/bwm"</b> ! and ensure that <b>omgroda</b> file is listed. If <b>omgroda</b> file is not listed, contact next higher support group for resolution. Proceed as directed by the next higher support group. Date _____ Time _____ Signature _____	DLP-541
24	At 3B APS MCRT, enter message <b>VER:UPDATE:TAPE,MT "/etc/bwm/omgroda"</b> ! and record BASE and CONTROL numbers for later use in the LOAD message. Ensure that the BASE and CONTROL numbers are correct for this office. Date _____ Time _____ Signature _____	DLP-542
	<b><i>Caution: When ODA COMPLETE - READY FOR NWM output message is received, update program enters a 20-minute wait mode. Input message to process network management tape must be entered within this time limit or test will be terminated and complete restart will be required.</i></b>	
25	At 3B APS MCRT, load new ODA on disk ( <b>LOAD:UPDATE:ODA "aaaabb",MT "/etc/bwm/omgroda"</b> !). Date _____ Time _____ Signature _____	DLP-544
26	If loading of ODA was successful, go to Item 28; otherwise, if loading of ODA was unsuccessful, perform Item 27. Date _____ Time _____ Signature _____	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
27	Contact next higher support group for resolution. Proceed as directed by the next higher support group. Date _____ Time _____ Signature _____	—
<b>LOAD NETWORK MANAGEMENT ON DISK</b>		
28	Obtain the new network management tape. Date _____ Time _____ Signature _____	—
29	Insert new network management tape into an available 3B APS DAT unit and verify that tape identification is correct for this update ( <b>VER:UPDATE:TAPE,MT a!</b> ). Date _____ Time _____ Signature _____	DLP-507
30	At 3B APS MCRT, load new network management on disk and complete database ( <b>LOAD:UPDATE:CONT NWM,MT a!</b> ).  <b>Notes:</b>  1. After receiving <b>MAPPING DYNAMIC DATA FROM NORMAL FILE</b> output message, <b>WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR</b> output message may be received. Mapping dynamic data can not cross 15-minute time boundary due to long-term storage data mutilation. System will automatically map dynamic data when in the proper window. 2. After receiving <b>DATABASE COMPLETE - READY FOR ODA UPDATE</b> output message, loading process is complete.  Date _____ Time _____ Signature _____	DLP-508
31	If loading of network management was successful, go to Item 35; otherwise, if loading of network management was aborted, perform Items 32 through 34. Date _____ Time _____ Signature _____	—
32	At 3B APS DAT unit, remove network management tape. Date _____ Time _____ Signature _____	DLP-504
33	At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure all units are in service. Date _____ Time _____ Signature _____	DLP-506
34	Repeat from Item 11 using another copy of the tape that failed. Date _____ Time _____ Signature _____	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
<b>COMPLETE AND VERIFY THE UPDATE DATABASE</b>		
35	At 3B APS MCRT, enter message <b>COPY:LSNC ALL!</b> to rebuild the large scale nailup connections and update TOSL in the UPDATE file; ensure <b>REPT LSNC: LSNC MAPPING COMPLETE</b> output message is received. Date _____ Time _____ Signature _____	—
36	After the <b>VER</b> input message in Item 37 has been entered and if no critical overwrites are required (Item 38), this procedure can be continued at Item 39 without waiting for the verify to complete. The printout must be observed periodically for errors. Date _____ Time _____ Signature _____	—
37	At 3B APS MCRT, verify 1AFILE hashed areas for 0 errors ( <b>VER:APPFILE UPD!</b> ). Date _____ Time _____ Signature _____	DLP-509
38	If critical overwrites are required, insert the critical overwrites into the UPDATE file and save printout of the overwrites. Date _____ Time _____ Signature _____	DLP-510
39	Compare critical data in new ODA with data in the active system by performing Items 40 and 41. Date _____ Time _____ Signature _____	—
40	Run cross-translations compare program. Date _____ Time _____ Signature _____	DLP-511
41	Analyze, with help from support organization, results of the compare for unexpected mismatches. Date _____ Time _____ Signature _____	—
42	If compare found unexpected mismatches, perform Item 43; otherwise, if the compare did not find unexpected mismatches, go to Item 44. Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
43	<p>If the compare found unexpected mismatches between the new ODA and the data in the active system, after consulting with appropriate support organization, select option A or B and proceed as directed:</p> <p>A. If mismatches can be corrected within the hour, determine additional overwrites to be inserted and repeat from Item 38. Date _____ Time _____ Signature _____</p> <p>B. If it is determined that corrections cannot be made within the hour, await further instructions before proceeding. Date _____ Time _____ Signature _____</p>	—
44	<p>Write 3B backup tapes (RT0 and DB Tapes only) using 234-351-002 (<i>M a i n t e n a n c e r e a c t i o n</i>).t e r Date _____ Time _____ Signature _____</p>	—
45	<p>If a LEC office is being updated, perform Items 46 through 50; otherwise, go to Item 51. Date _____ Time _____ Signature _____</p>	—
46	<p>At 3B APS DAT unit(s), remove tape(s) as appropriate. Date _____ Time _____ Signature _____</p>	DLP-504
47	<p>If 1B Processor REX was inhibited in Item 9, at 1B Processor MTC terminal, enter message <b>ALW:MACLI,CLASS MTCE!</b> to allow REX. Response: <b>REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.</b> Date _____ Time _____ Signature _____</p>	—
48	<p>If 3B REX was inhibited in Item 8, at 3B APS MCRT, enter message <b>ALW:DMQ;SRC REX!</b> to allow REX. Response: <b>ALW DMQ ENABLED REX</b> Date _____ Time _____ Signature _____</p>	—
49	<p>Obtain a list from the TOC of all trunks added during the quiet period. These trunks will be set to CAD.DSA state during "Prepare for Update" procedure. Date _____ Time _____ Signature _____</p>	—
50	<p>Go to Item 52. Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
51	Notify NSC provisioning of expected date and time of the generic retrofit. Date _____ Time _____ Signature _____	—
52	<b>STOP! YOU HAVE COMPLETED THIS PROCEDURE.</b>	—



### Perform Update (For LEC Offices Only)

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	<p><b>Enter Date, Time, and Signature or place a check mark beside Item or Subitem when completed.</b></p> <p>Date _____ Time _____ Signature _____</p>	—
2	<p><b><i>If a received Response does not match the given Response in this procedure, contact your Next Higher Support Group for resolution.</i></b></p> <p>Date _____ Time _____ Signature _____</p>	—
3	<p><b><i>If there is any question concerning an Item in this procedure, contact your Next Higher Support Group for clarification.</i></b></p> <p>Date _____ Time _____ Signature _____</p>	—
4	<p>Before starting, review and become familiar with DLP-523.</p> <p>Date _____ Time _____ Signature _____</p>	—
5	<p>At 1B Processor MTC Terminal, enter message <b>INH:MACLI,CLASS MTCE;REX!</b> to inhibit REX.</p> <p>Response: <b>REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED</b></p> <p>Date _____ Time _____ Signature _____</p>	—
6	<p>At 1B Processor MTC Terminal, enter message <b>OP:TSGSTAT;SUM:ALL!</b> to obtain a Trunk Subgroup Status Summary; Save printout in a file for Trunk Circuit Recovery Verification.</p> <p>Date _____ Time _____ Signature _____</p>	—
7	<p>At 1B Processor MTC Terminal, enter message <b>OP:OOSUNITS!</b> and ensure that required units are in-service.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-512
8	<p>Verify there are no audits inhibited. If audits are inhibited, take corrective action as determined by your appropriate support group.</p> <p>Date _____ Time _____ Signature _____</p>	DLP-519
9	<p>At 3B APS MCRT, enter message <b>INH:DMQ;SRC REX!</b> to inhibit REX.</p> <p>Response: <b>INH DMQ COMPLETED</b></p> <p>Date _____ Time _____ Signature _____</p>	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
10	At 3B APS MCRT, enter message <b>OP:OOS!</b> and ensure that required 3B APS units are in-service. Date _____ Time _____ Signature _____	DLP-506
11	At 3B APS MCRT, verify the data base to ensure that the generic is <b>4E&lt;27&gt;5x.yy Ra</b> and proper office is listed ( <b>OP:APPLOAD UPD!</b> ). Date _____ Time _____ Signature _____	DLP-520
12	If critical overwrites are required, insert critical overwrites into UPDATE file and save printout of overwrites. Date _____ Time _____ Signature _____	DLP-510
	<b>Note:</b> If schedules that are entered by <b>SCHED:MEAS</b> input message are to be retained for update, include <b>MEAS</b> option in <b>LOAD</b> message.	
13	At 3B APS MCRT, map dynamic data from NORMAL file to UPDATE file ( <b>LOAD:UPDATE:MAP[,MEAS]!</b> ). Date _____ Time _____ Signature _____	DLP-521
	<b>Caution: Item 14 must be completed before performing Item 15 to prevent errors when verifying 1AFILE hashed areas.</b>	
14	At 3B APS MCRT, verify 1AFILE hashed areas for 0 errors ( <b>VER:APPFILE UPD!</b> ). Date _____ Time _____ Signature _____	DLP-509
15	At 3B APS MCRT, enter message <b>COPY:LSNC TOSL!</b> to update TOSL in UPDATE file; ensure <b>REPT LSNC: LSNC MAPPING COMPLETE</b> message is received. Date _____ Time _____ Signature _____	DLP-546
16	Prepare 1B Processor MCC Terminal for manual recovery. Date _____ Time _____ Signature _____	DLP-522
17	Manually update the 1B Processor. Date _____ Time _____ Signature _____	DLP-523

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
18	Proceed as appropriate per options A or B:	
	A. If attempt to configure to the 4E27 Generic was <b>successful</b> , go to Item 21. Date _____ Time _____ Signature _____	—
	B. If attempt to configure to the 4E27 Generic was <b>not successful</b> , perform Items 19 and 20. Date _____ Time _____ Signature _____	—
19	<b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E26 OCCURRED.</b> Perform Item 20 to determine cause and decide on course of action. Date _____ Time _____ Signature _____	—
	<b><i>Caution: Item 20 must only be performed if backout was necessary. Do Not perform Item 20 if boot to new generic was successful.</i></b>	
20	Determine cause of failure and decide on course of action:	
	1. At 1B Processor MTC Terminal, enter message <b>UPD:COMMIT;NORMFILE!</b> Date _____ Time _____ Signature _____	—
	2. At 1B Processor MCC Terminal, if EAI Page is <b>Not</b> displayed, depress <b>EA DISP</b> key. Date _____ Time _____ Signature _____	—
	3. Analyze, with help from next higher support group, printout to determine why update failed. Date _____ Time _____ Signature _____	—
	4. After consulting with support organization, select Option A or B; and proceed as directed:	—
	A. <b>If update is to be discontinued</b> , it is End of Procedure. Ensure system is operating properly and restore all out-of-service equipment. Date _____ Time _____ Signature _____	—
	B. <b>If update is to be continued</b> , proceed as directed by next higher support group. Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
21	<p><b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> Perform Items 22 through 26 to restore 1B Processor complex units. Date _____ Time _____ Signature _____</p>	—
22	<p>At 1B Processor MTC Terminal, enter message <b>OP:MACLI,CLASS MTCE!</b> Date _____ Time _____ Signature _____</p>	—
23	<p>If 1B Processor complex unit(s) is listed in printout, go to Item 26; otherwise, if no 1B Processor complex unit(s) is listed, perform Items 24 through 26. Date _____ Time _____ Signature _____</p>	—
24	<p>At 1B Processor MTC Terminal, enter message <b>OP:OOSUNITS!</b> Date _____ Time _____ Signature _____</p>	—
	<p><b>Note:</b> IFB must be restored before restoring MUP, AUI, or SSD.</p>	
25	<p>If 1B Processor complex unit(s) is listed in printout, enter restore message to restore each unit listed. Date _____ Time _____ Signature _____</p>	—
	<p><b>Note:</b> It is important to get 1B Processor units restored to service as soon as possible while the remainder of the retrofit procedure is being performed.</p>	
26	<p>Periodically repeat from Item 22 while continuing to perform succeeding steps in this NTP until 1B Processor complex units are restored. Date _____ Time _____ Signature _____</p>	—
27	<p>Verify Direct Link Nodes were pumped from proper 1AFILE. Date _____ Time _____ Signature _____</p>	DLP-525
28	<p>If the loaded Network Management has a different issue from the previous Network Management, look back in the printout for "OSOR BURST" page. At the bottom of BURST page, ensure that <b>OSOR SCHEDULES</b> are <b>NOT CHANGED</b> and <b>COUNT DATA BASE</b> is <b>UPDATED</b>. Date _____ Time _____ Signature _____</p>	—
29	<p>When the system starts to process calls (I/O communications reestablished), if the system clock time data is incorrect, set the system clock. Date _____ Time _____ Signature _____</p>	DLP-526

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
30	<p>Set up MC 3, MC 4, and/or MC 8 schedule(s). At 1B Processor Terminal, enter message <b>SCHED:TDASMC a;ADD:MSC bb!</b> for each schedule to be set up (contact next higher support group for a and bb variables).</p> <p>Date _____ Time _____ Signature _____</p>	—
31	<p>At 1B Processor MTC Terminal, enter message <b>INH:MACLI,CLASS MTCE;REX!</b> to inhibit REX.</p> <p>Response: <b>REPT:MACLI,CLASS MTCE INHIBITED AUTOMATIC JOB SCHEDULING DISALLOWED</b></p> <p>Date _____ Time _____ Signature _____</p>	—
	<p><b>Note:</b> Items 35 through 39 can be performed at the same time as Items 32 through 34.</p>	
32	<p>At 1B Processor MTC Terminal, enter message <b>OP:SVCSTAT!</b> and observe printout for any service circuits that are <b>Not</b> new DTMF transmitters or receivers, or part of hardware rearrange associated with update. Compare printout with printout saved in NTP-005, Item 36. Ensure all required service circuits are active. If problems are found, request assistance from next higher support group for resolution.</p> <p>Date _____ Time _____ Signature _____</p>	—
33	<p>If any active TAN-to-TAN connections existed prior to update, at 1B Processor MTC Terminal, enter message <b>OP:TANTOTAN!</b> and verify from printout that TAN-to-TAN connections are still established (compare printout with printout saved in NTP-005, Item 19).</p> <p>Date _____ Time _____ Signature _____</p>	—
34	<p>If any active Large-Scale Nailup connections existed prior to update, at 1B Processor MTC Terminal, enter message <b>VER:NAILUP;ALL!</b> and verify from printout that Large-Scale Nailup connections are still established (compare printout with printout saved in NTP-005, Item 20).</p> <p>Date _____ Time _____ Signature _____</p>	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
35	Run audits 43, 44, 45, 66, and 72 (Items 36 through 39). Date _____ Time _____ Signature _____	—
36	At 1B Processor MTC Terminal, enter message <b>AUD:NUM (43,44,45,66,72)!</b> Date _____ Time _____ Signature _____	—
37	While audits are running, continue to perform succeeding Items. Date _____ Time _____ Signature _____	—
38	If any errors are detected and <b>Not</b> corrected, inform next higher support group of audit results and follow their instructions for further action. Date _____ Time _____ Signature _____	—
39	During execution of audits 43 and 66, scan output messages periodically for abort message. Date _____ Time _____ Signature _____	—
40	At 1B Processor MTC Terminal, restore out-of-service units. Date _____ Time _____ Signature _____	DLP-528
41	If the office is arranged for CAMA, check CAMA operation. Date _____ Time _____ Signature _____	DLP-536
42	At 3B APS MCRT, depress <b>NORM/DISP</b> key and enter <b>1106</b> in command mode to obtain Display Page 1106. Date _____ Time _____ Signature _____	—
43	On Display Page 1106, ensure <b>RING POS</b> is <b>NORM</b> and <b>MAJOR STATE</b> is <b>ACT</b> for each equipped CNI Ring Link Node. Date _____ Time _____ Signature _____	—
44	At 3B APS MCRT, enter <b>1107</b> in command mode to obtain Display Page 1107. Date _____ Time _____ Signature _____	—
45	On Display Page 1107, ensure one Direct Link Node is assigned <b>1WAY IN</b> and one Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes must have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If four Direct Link Nodes are Listed, <b>HDWR STATE</b> must be <b>ACT</b> and <b>APPL STATE</b> must be <b>STBY</b> for Direct Link Nodes not assigned <b>1WAY IN</b> or <b>1WAY OUT</b> . Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
46	At 3B APS MCRT, enter <b>1108</b> in command mode to obtain Display Page 1108. Date _____ Time _____ Signature _____	—
47	On Display Page 1108. ensure <b>LINK STATE</b> is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> is <b>ACT</b> for each equipped Signaling Link. Date _____ Time _____ Signature _____	—
48	At 1B Processor MTC Terminal, enter message <b>OP:MSGRCDF,FS!</b> to clear recorded message area on disk. <b>NG</b> response indicates there are no messages on disk to be cleared. Date _____ Time _____ Signature _____	—
49	At an I/O Terminal other than 1B Processor MTC Terminal, set up Vacant Code Traps, as required. Date _____ Time _____ Signature _____	DLP-529
50	At 1B Processor MTC Terminal, enter message <b>OP:TSGSTAT;SUM:ALL!</b> to obtain Trunk Subgroup Status summary. Compare printout with printout saved in Item 6. Date _____ Time _____ Signature _____	—
51	If Trunk Subgroup discrepancies exist which cannot be resolved with the summary printout, request appropriate support organization (NSC provisioning or TOC) to initiate request for detailed printout of Trunk Subgroup status. Date _____ Time _____ Signature _____	—
52	Request appropriate support organization (NSC provisioning or TOC) to initiate sample trunk testing at each test position. Date _____ Time _____ Signature _____	—
53	Notify Network Management center to begin checkout of Network Management system. Date _____ Time _____ Signature _____	DLP-530
54	Review maintenance output messages; account for interrupts, interjects, and audit reports and compare with preupdate office performance results. Date _____ Time _____ Signature _____	—
55	Compare count of ineffective machine attempts with preupdate level. Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
56	If the office provides CAMA service, monitor CAMA call activity; compare with expected level. Date _____ Time _____ Signature _____	—
57	Verify that manually placed calls and system placed test calls complete successfully. Date _____ Time _____ Signature _____	—
58	At 1B Processor MTC Terminal, enter message <b>INIT:PUXINIT!</b> Date _____ Time _____ Signature _____	—
59	If security call traps existed prior to the update, Request network management to enter security call traps per local procedure. Date _____ Time _____ Signature _____	—
60	At 1B Processor MTC Terminal, enter message <b>ALW:MACLI,CLASS MTCE!</b> to allow REX. Response: <b>REPT: MACP AUTOMATIC JOB SCHEDULING RESUMED.</b> Date _____ Time _____ Signature _____	—
61	At 3B APS MCRT, enter message <b>ALW:DMQ;SRC REX!</b> to allow REX. Response: <b>ALW DMQ ENABLED REX</b> Date _____ Time _____ Signature _____	—
62	At 1B Processor MCC Terminal, enter <b>108</b> to obtain System Status Page (108). Date _____ Time _____ Signature _____	—
63	On System Status Page (108), if <b>801 - RESTRICT RC</b> is colored black on white, enter <b>801</b> . Date _____ Time _____ Signature _____	—

<b>DO THE ITEMS BELOW IN THE ORDER LISTED</b>		<b>FOR DETAILS, GO TO</b>
64	Perform options A, B, or C to reenter recent change data:	
	A. If reentering recent change data at the office, reenter per local practice. Date _____ Time _____ Signature _____	—
	B. Request MAC to enter new recent change data, as required, into the system. Date _____ Time _____ Signature _____	—
	C. Request operation support system to enter new recent changes, as required, into the system: Date _____ Time _____ Signature _____	
	1. Notify CMAAC to perform update. Date _____ Time _____ Signature _____	—
	2. Wait until update is complete before continuing. Date _____ Time _____ Signature _____	—
	3. Notify Network Management center to complete Network Management system checkout. Date _____ Time _____ Signature _____	DLP-532
65	If the office is CAMA equipped, install any special CAMA data per local practice. Date _____ Time _____ Signature _____	—
66	Load library tape in file system:	
	A. For office loading an original library tape Date _____ Time _____ Signature _____	DLP-531
	B. For office loading a backup library tape Date _____ Time _____ Signature _____	DLP-540

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
67	At 1B Processor MTC Terminal, enter message <b>AUD:NUM (43,44,45,66,72)!</b> ; <b>Do Not</b> continue until audits have completed with 0 errors. Date _____ Time _____ Signature _____	—
	<b>Note:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour.	
68	Write backup Long-Term Storage (LTS) tape. Date _____ Time _____ Signature _____	DLP-513
69	Write updated Traffic and Plant Measurement (TPM) Schedule tape. Date _____ Time _____ Signature _____	DLP-514
70	If any 4E27 overwrites are to be installed, install per local practice. Date _____ Time _____ Signature _____	—
71	Write backup TOSL tape. Date _____ Time _____ Signature _____	DLP-515
72	Write backup Library (LIB) tape. Date _____ Time _____ Signature _____	DLP-533
73	Write backup Network Management (NWM) tape. Date _____ Time _____ Signature _____	DLP-534
74	Write backup 1B Processor ODA tapes, if required. Date _____ Time _____ Signature _____	DLP-538
75	Write backup 1B Processor Generic tapes, if required. Date _____ Time _____ Signature _____	DLP-539
76	If omgroda file (ODA) was loaded into the UPDATE file, remove the omgroda file from the /etc/bwm directory on the 3B APS. Date _____ Time _____ Signature _____	DLP-545
77	Request next higher support group to determine if office can commit to 1B Processor generic. <b>Do Not</b> proceed without permission from next higher support group. Date _____ Time _____ Signature _____	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
	<b><i>WARNING: Item 78 will delete any reference to 4E26 generic in NORMAL and UPDATE files. In order to go back to 4E26 generic, a System Reinitialization (SR) will be required.</i></b>	
78	Commit to 4E27 Generic. Date _____ Time _____ Signature _____	DLP-537
79	<b>STOP! YOU HAVE COMPLETED THIS PROCEDURE.</b> Date _____ Time _____ Signature _____	—



## Verify Data Base

1. At 3B APS MCRT, enter message **OP:APPLOAD UPD!**

Response: **4ESS DATA BASE LOADED IN / dev/1afileX IS:  
GENERIC 4E<27>5x.yy Ra  
OFFICE (office name)  
LAST ODA TAPE WRITTEN 10/25/01 AT 19:51**  
where X = 0 or 1

2. Using printout and the response in Step 1, is proper generic issue listed?  
If **Yes**, go to Step 3.  
If **No**, go to Step 4.
3. Does printout list proper office name [Common Language\* location identification (CLLI†) code]?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.
4. Contact appropriate support organization for resolution. It may be necessary to reload data base. Proceed as directed by the appropriate support organization.
5. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

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\* Registered trademark of Bell Communications Research, Inc.

† Trademark of Bell Communications Research, Inc.



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

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

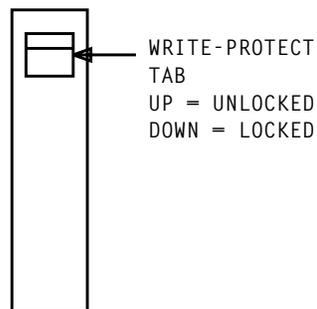
**Caution:** *Care must be taken when inserting the tape into the DAT unit. Tape must not be forced.*

1. Is tape to be written?

If **Yes**, go to Step 2.

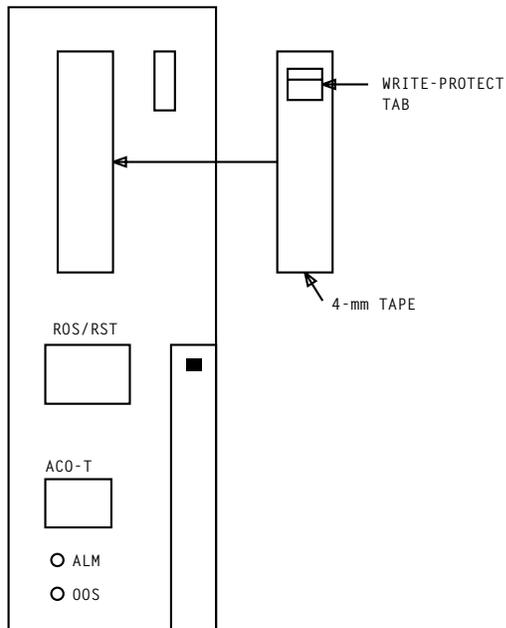
If **No**, go to Step 3.

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), carefully 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.**

## Record Tape Header Information

1. At 3B APS MCRT, enter message  
**VER:UPDATE:TAPE,MT a!**

where a = 3B APS DAT unit number with tape being verified (0 or 1)

Response 1: **TAPE TYPE: GEN**

**GENERIC a a a a aaaaa a**  
**MOST RECENT OFL GENERATION: YR 01,MON 10,DAY 04 AT 11:28**  
**THIS TAPE WRITTEN: YR 01,MON 11,DAY 04 AT 17:19**  
**FS IDS: 000000000000010,TAPE IDS: 000000011111111**  
**PARTL UPD FLG: 0,PHASE REQD: 0001000**

Or

Response 2: **TAPE TYPE: ODA**

**BASE a a a CONTROL b b**  
**ORIGINAL GENERIC 4E<G27>.4R**  
**MOST RECENT OFL GENERATION: YR 01,MON 10,DAY 05 AT 16:23**  
**THIS TAPE WRITTEN: YR 01,MON 11,DAY 09 AT 08:23**  
**FS IDS: 000000000001000,TAPE IDS: 000000011110100**  
**PARTL UPD FLG: 0,PHASE REQD: 0001000**

2. Tape being verified is?  
If **Generic**, go to Step 3.  
If **ODA**, go to Step 4.
3. Using the printout and Response 1 in Step 1, record Generic Identification number  
(a a a a aaaaa) then go to Step 5.
4. Using the printout and Response 2 in Step 1, record BASE (a a a) and CONTROL (b b) numbers.
5. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Load New Generic On Disk

1. Determine Generic Identification number recorded earlier.

2. At 3B APS MCRT, enter message  
**LOAD:UPDATE:GEN "a",MT b!**

where a = Generic Identification number (Step 1)  
b = 3B APS DAT unit number with generic tape inserted (0 or 1)

3. Observe printout and determine if any Table A response was received.

TABLE A	
RESPONSE	CORRECTIVE ACTION
<b>INVALID TAPE ID - ENTER AGAIN</b>	Repeat from Step 2, with correct Generic identification number
<b>TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN</b>	Correct 3B APS DAT unit problem and repeat from Step 2.
<b>LOAD UPDATE ABORT</b>	Evaluate abort printout and proceed as directed by next higher support group.

4. Was any response in Table A received?

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

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

5. Using Table A take corrective action associated with response that was received.

6. At 3B APS MCRT, follow update progress per the response below.

Response: **GENERIC RETROFIT**

**TAPE HEADER**

•  
•  
•

**TAPE FILE 10 LOADED TO FS**

**TAPE FILE 20 LOADED TO FS**

**TAPE FILE 30 LOADED TO FS**

•  
•  
•

**TAPE FILE *n* LOADED TO FS**

**GENERIC COMPLETE - READY FOR ODA**

7. When generic loading is finished, was **GENERIC COMPLETE - READY FOR ODA** message received?

If **Yes**, go to Step 9.

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

8. At 3B APS MCRT, note error printout. Determine the cause and resolve. Proceed as directed by next higher support group.

9. **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.

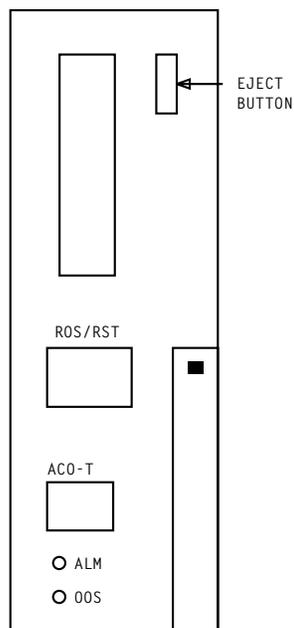


Figure 1. DAT Unit

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.

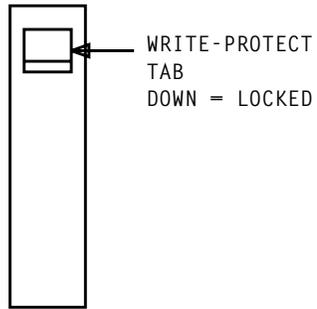


Figure 2. DAT Unit

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

## Load New ODA On Disk For Generic Retrofit

1. Determine the BASE and CONTROL numbers recorded earlier.

2. At 3B APS MCRT - enter message  
**LOAD:UPDATE:CONT "aaaabb",MT c!**

aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long.

bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long

c = 3B APS DAT unit number with ODA tape inserted (0 or 1).

3. Observe printout and determine if any Table A response was received.

TABLE A	
RESPONSE	CORRECTIVE ACTION
<b>INVALID TAPE ID - ENTER AGAIN</b>	Repeat from 2 with correct BASE and CONTROL numbers
<b>TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN</b>	Correct 3B APS DAT unit problem and repeat from Step 2
<b>WRONG GENERIC - CHANGE TAPE AND ENTER AGAIN</b>	Remove wrong ODA tape. Obtain correct tape and insert in 3B APS DAT unit. Repeat from Step 2

4. Was any response in Table A received?

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

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

5. Using Table A take corrective action associated with response that was received.

6. At 3B APS MCRT, follow update progress per the response below.

Response: **TAPE HEADER**

•

•

•

**TAPE FILE 10 LOADED TO FS**

•

**TAPE FILE n LOADED TO FS**

**ODA COMPLETE - READY FOR NWM**

7. When ODA loading is finished, was **ODA COMPLETE - READY FOR NWM** message received?

If **Yes**, go to Step 9.

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

8. At 3B APS MCRT, note error printout. Determine cause and resolve. Proceed as directed by next higher support group.

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

## Ensure 3B APS Units Are In-Service

1. At 3B APS MCRT, enter message **OP:OOS!**
  
2. Does printout list any units?  
If **Yes**, go to Step 3.  
If **No**, go to Step 11.
  
3. Contact next higher support group to determine if any units in printout must be restored for update.
  
4. Do any units need to be restored?  
If **Yes**, go to Step 5.  
If **No**, go to Step 11.
  
5. At 3B APS MCRT, enter message for one listed unit **RST:a b!**  
  
where    a = Listed unit type  
          b = Listed member number
  
6. Was **RST:a b COMPLETED** message received?  
If **Yes**, go to Step 8.  
If **No**, go to Step 7.
  
7. Clear failure. ATP required using 254-303-106.
  
8. Are more units listed (Step 2).  
If **Yes**, go to Step 10.  
If **No**, go to Step 9.
  
9. Repeat from Step 1.
  
10. Repeat Step 5 for next listed unit

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

## Verify Network Management Tape Identification

1. Insert new network management tape with write-protect tab in the down (locked) position into available 3B APS DAT unit using DLP-501.
2. At 3B APS MCRT, enter message  
**VER:UPDATE:TAPE,MT a!**

where a = 3B APS DAT unit number with tape being verified (0 or 1).

Response: **TAPE TYPE: NWM  
ORIGINAL GENERIC 4E<27>R1  
MOST RECENT OFL GENERATION: YR 01,MON 10,DAY 06 AT 08:30  
THIS TAPE WRITTEN: YR 01,MON 10,DAY 06 AT 12:40  
FS IDS: 0000000010000000,TAPE IDS: 0000000011110100  
PARTL UPD FLG: 0,PHASE REQD: 0000000**

3. Using printout and the response in Step 2, verify that **TAPE TYPE:** is **NWM** and **ORIGINAL GENERIC** is **4E<27>R1**.
4. Was tape identification correct?  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. Remove tape using DLP-504. Obtain proper network management tape; repeat from Step 1.
6. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Load Network Management On Disk and Complete Data Base

1. At 3B APS MCRT, enter message  
**LOAD:UPDATE:CONT NWM,MT a!**

where a = 3B APS DAT unit number with network management tape inserted (0 or 1)

2. Observe printout and determine if any Table A response was received.

TABLE A	
RESPONSE	CORRECTIVE ACTION
<b>TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN</b>	Correct 3B APS DAT unit problem and repeat from Step 2
<b>WRONG GENERIC - CHANGE TAPE AND ENTER AGAIN</b>	Remove wrong network management tape. Obtain correct tape and insert in 3B APS DAT unit. Repeat from Step 2.
<b>INVALID COMMAND - ENTER AGAIN</b>	Repeat from Step 2.

3. Was any response in Table A received?

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

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

4. Using Table A, take corrective action associated with response that was received in Step 1.

**Notes:**

1. When the network management tape is loaded satisfactorily, the system will complete building the data base.
  2. After receiving **MAPPING DYNAMIC DATA FROM NORMAL FILE** output message, **WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR** may be received. System will automatically map dynamic data when in proper window.
5. At 3B APS MCRT, follow update progress per the response below.

Response: **TAPE HEADER**

•  
•  
•

**TAPE FILE 10 LOADED TO FS**

**NWM COMPLETE**

**WRITE MERGE DATA AND ZERO FS AREAS**

**MAPPING DYNAMIC DATA FROM NORMAL FILE**

**DATABASE COMPLETE - READY FOR x**

6. When NWM loading is finished, was **DATABASE COMPLETE - READY FOR x** message received?

where x = **GENERIC RETROFIT** or **ODA UPDATE**

If **Yes**, go to Step 8.

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

7. At 3B APS MCRT, note error printout. Determine cause and resolve. Proceed as directed by next higher support group.

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

## Verify 1AFILE Hashed Areas

1. At 3B APS MCRT, enter message **VER:APPFILE UPD!**

Response: **VER:APPFILE STARTED, /dev/1afileX (X = 0 or 1)**

**VER:APPFILE /dev/1afileX MERGE AREA, MSG IP, 0 ERRORS DETECTED**

**VER:APPFILE /dev/1afileX ID 1, MSG IP, 0 ERRORS DETECTED**  
(Generic Area)

**VER:APPFILE /dev/1afileX ID 2, MSG IP, 0 ERRORS DETECTED**  
(Library Area)

**VER:APPFILE /dev/1afileX ID 3, MSG IP, 0 ERRORS DETECTED**  
(ODA Area)

**VER:APPFILE /dev/1afileX ID 7, MSG IP, 0 ERRORS DETECTED**  
(Network Management Area)

**VER:APPFILE /dev/1afileX ID 11, MSG IP, 0 ERRORS DETECTED**  
(RC Rollback Area)

**VER:APPFILE /dev/1afileX ID 12, MSG IP, 0 ERRORS DETECTED**  
(Traffic and Plant Management Area)

**VER:APPFILE /dev/1afileX ID 17, MSG IP, 0 ERRORS DETECTED**  
(Paged Program Area)

**VER:APPFILE /dev/1afileX ID 20, MSG IP, 0 ERRORS DETECTED**  
(ODA Translations and Parameters in File Segment 1 With TWRP)

**VER:APPFILE /dev/1afileX ID 21, MSG IP, 0 ERRORS DETECTED**  
(ODA Translations and Parameters in File Segment 2 With TWRP)

**VER:APPFILE /dev/1afileX COMPLETED, 0 ERRORS DETECTED**

2. Using printout and the response above, follow the progress of the verify.

**Note:** It takes a short period of time for the verify to complete.

3. Was completed with 0 errors message received?

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

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

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

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

## Insert Critical Overwrites into UPDATE File

1. Determine process to be used to insert overwrites.
2. What process is to be used?  
If **Support organization entry**, go to Step 3.  
If **3B APS computer BWM**, go to Step 5.  
If **Manual entry**, go to Step 33.  
  

**Note:** Overwrites from the support organization must be in the form of either Step 36 or Step 38.
3. Request support organization to insert overwrites.
4. Are more overwrites to be inserted by any other process?  
If **Yes**, go to Step 2.  
If **No**, go to Step 53.
5. At 3B APS MCRT, press **NORM DISP (PF2)** key and enter **1960** in command mode to obtain display page 1960.
6. Enter **9000**, AAxx-xxxx in command mode to select BWM  
AAxx-xxxx = BWM number to be installed.
7. At 3B APS MCRT, enter **9260,SCANS** in command mode to obtain printout of SCANS file.
8. Using printout in Step 7, determine if special instructions are required for this BWM. Save the printout for later use if special procedures are required after the BWM is applied.
9. If back out is necessary during this procedure, contact next higher support group IMMEDIATELY.
10. At 3B APS MCRT, enter **9010** in command mode to verify the BWM.
11. Wait for COMPLETED message to be received in the **RESPONSE** field.

12. Was **UPD VFY COMPLETED** message displayed in the **RESPONSE** field?

If **Yes**, go to Step 14.

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

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

14. At 3B APS MCRT, enter **9310** in command mode to execute APPLY section.

15. Wait for COMPLETED message to be received in the **RESPONSE** field.

16. Was **COMPLETED: APPLY SECTION** message displayed in the **RESPONSE** field?

If **Yes**, go to Step 18.

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

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

18. At 3B APS MCRT, enter **9320** in command mode to execute SOAK section.

Response:

```
-----UPD PRINT SOAK TIMER IN PROGRESS-----  
BWM NAME = AAAxx-xxxxx          REMAINING SOAK PERIOD = (HH:MM)  
  
      CURRENT SOAK TIMER  
START      (DD MM dd hh:mm:ss YY)  
END        (DD MM dd hh:mm:ss YY)  
DURATION   (HH:MM)  
  
      PREVIOUS SOAK TIMER  
START      (DD MM dd hh:mm:ss YY)  
END        (DD MM dd hh:mm:ss YY)  
DURATION   (HH:MM)  
  
-----END OF BWM SOAK TIMER INFORMATION-----  
UPD PRINT SOAK TIMER COMPLETED
```

19. Wait for the response above to be received before continuing.

**Note:** The **END** field under **CURRENT SOAK TIMER** section in the above response, indicates the time when the message in Step 20 should be received.

20. Was **SOAK PERIOD COMPLETED: SOAK SECTION** message displayed in the **RESPONSE** field?

If **Yes**, go to Step 22.  
If **No**, go to Step 21.

21. Determine cause and resolve; repeat from Step 18.

22. Obtain printout saved in Step 7, and determine if special instructions are required to be performed before executing OFC section.

23. At 3B APS MCRT, enter **9330** in command mode to execute OFC section.

**Note:** Time to finish OFC section is dependent on the BWM size.

24. Wait for **COMPLETED** message to be received in the **RESPONSE** field.

25. Was **COMPLETED:OFFICIAL SECTION** message displayed in the **RESPONSE** field?

If **Yes**, go to Step 27.  
If **No**, go to Step 26.

26. Determine cause and resolve; repeat from Step 23.

27. At 3B APS MCRT, enter message **LOAD:GULP:GENERIC "a"!**

where a = Full pathname specified in SCANS file

Response: **BUILDING OW BUFFER - OW BLOCK 1**  
**BUILDING OW BUFFER - OW BLOCK 2**

•  
•  
•

**DATABASE UPDATED WITH OVERWRITES**

28. Using printout and the response above, follow the progress of the loading of overwrites.

29. Was **DATABASE UPDATED WITH OVERWRITES** output message received?

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

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

30. Determine cause and resolve; repeat from Step 27.

31. Are more overwrites to be inserted by any other process?

If **Yes**, go to Step 32.

If **No**, go to Step 53.

32. Repeat from Step 2.

33. Collect and list overwrite(s) to be inserted into the 4E27 generic or ODA loaded in update file.

**Note:** After entering the IN:OSOW:START message, the overwrite process will time out after 20 minutes of inactivity.

34. At 3B APS MCRT, enter message **IN:OSOW:START!**

Response: **READY FOR OVERWRITE DATA** message received.

35. Overwrite is being inserted into?

If **Main Memory Address**, go to Step 36.

If **File Store Disk Address**, go to Step 38.

**Note:** OLDDATA is not required to be input, but if information is available, it should be entered to ensure that the right data is being changed.

36. At 3B APS MCRT, enter message

**IN:OSOW:MMADR a,DATA b[,OLDDATA c]!**

a = Main memory address (octal) for data to be changed  
b = Data (octal) to be changed, or if a list, then enclose with parentheses and separate with commas  
c = Expected value in octal of old data; if b is a list, then c must be a list of same format and size

Response:

```
IN:OSOW COMPLETED
MM ADR      FS ADR  ID  OLD DATA  NEW DATA
xxxxxxxxx  yyyyyyyy  zz  aaaaaaaa  bbbbbbbb
READY FOR OVERWRITE DATA
```

x = Main memory address of data to be changed  
y = Translated file system address for main memory  
 overwrite or file system address of file system  
 only data being changed  
z = ID (decimal)  
a = Old data (or list of old data)  
b = New data (or list of new data)

37. Was the above response received indicating overwrite(s) is accepted?

If **Yes**, go to Step 40.

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

**Note:** **OLDDATA** is not required to be input, but if information is available, it should be entered to ensure that right data is being changed.

38. At 3B APS MCRT, enter message

**IN:OSOW:FSADR a,DATA b[,OLDDATA c]!**

a = Disk address (octal) for data to be changed  
b = Data (octal) to be changed, or if a list, then enclose with parentheses and separate with commas  
c = Expected value in octal of old data; if b is a list, then c must be a list of same format and size

Response:

**IN:OSOW COMPLETED**

<b>MM ADR</b>	<b>FS ADR</b>	<b>ID</b>	<b>OLD DATA</b>	<b>NEW DATA</b>
<b>xxxxxxxx</b>	<b>yyyyyyyy</b>	<b>zz</b>	<b>aaaaaaaa</b>	<b>bbbbbbbb</b>

**READY FOR OVERWRITE DATA**

x = Main memory address of data to be changed  
y = Translated file system address for main memory overwrite or file system address of file system only data being changed  
z = ID (decimal)  
a = Old data (or list of old data)  
b = New data (or list of new data)

39. Was the above response received indicating overwrite(s) is accepted?

If **Yes**, go to Step 40.  
If **No**, go to Step 46.

40. Are additional overwrites to be inserted into the buffer area.

If **Yes**, go to Step 41.  
If **No**, go to Step 42.

41. Repeat from Step 35.

42. At 3B APS MCRT, enter message **IN:OSOW:UPD[,HASHSUM a]!** to process buffered data.

43. Was output message **OVERWRITE DATA WRITTEN TO UPDATE FILE** received?

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

44. Are more overwrites to be inserted by any other process.

If **Yes**, go to Step 45.

If **No**, go to Step 53.

45. Repeat from Step 2.

46. Using the following Table, determine course of action:

Received Failure	Go to
<b>OSOW ABORTED REASON a</b>	Step 47
<b>MISMATCH ON OLD AND NEW DATA</b>	Step 48
<b>INVALID ADDRESS</b>	Step 49
<b>OW BUFFER CAPACITY EXCEEDED</b>	Step 50
<b>HASH FAILURE ENTER UPD OR ABORT MESSAGE</b>	Step 51
<b>ADDRESSES INVOLVE 2 ID TAGS</b>	Step 52

47. At 3B APS MCRT, note error printout. Determine cause and resolve; repeat from Step 1.

48. Correct input message; repeat from Step 35.

49. Determine correct address; repeat from Step 35.

50. Process buffered data; repeat from Step 42.

51. Refigure hash value, and enter UPD message (Step 42) or enter abort message (**IN:OSOW:ABORT!**); and restart overwrite process, as required.

52. Overwrites extend over two ID tags. Break up overwrites; repeat from Step 35.

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



## Run Cross-Translations Compare Program

1. At 3B APS MCRT, enter message  
**CMPR:ODA:XLCP!**

**Note:** The compare program will look for mismatches in the following translators:

**MTRANS**  
**VTRANS**  
**MCODE**  
**DIFTYPE**  
**FEATFLGS**  
**OFCOPC**  
**STPNET**  
**DSIGFNUM.**

An individual translator can still be compared by entering **CMPR:ODA:a!** where a is one of the above translator names.

2. Was message aborted?  
If **Yes**, go to Step 3.  
If **No**, go to Step 4.
3. At 3B APS MCRT, note error printout. Determine cause and resolve; repeat from Step 1.
4. Observe output messages for listing of translator mismatches and/or member equipage errors.
5. Wait for **CMPR:ODA:XLCP COMPLETE** message listing number of differences found.
6. Has a support organization requested a compare of any selected data structures?  
If **Yes**, go to Step 7.  
If **No**, go to Step 13.

7. At 3B APS MCRT, enter message  
**CMPR:ODA:SPCL,ACTADR a,OOSADR b[,MASK c] [,L d]!**  
to compare selected data structure.

where a = Octal address in main active memory  
b = Octal address in main OOS memory  
c = Octal mask of data to be compared; default is 7777777  
d = Length in decimal; default is 1

Response: **CMPR:ODA FOR DEMAND STRUCTURE**

OLD			NEW		
ADR	xxxxxxx		ADR	yyyyyyyy	
WORD#	DATA		WORD#	DATA	
n	vvvvvvvv		n	wwwwwww	
•	•	•	•	•	•
•	•	•	•	•	•
n	•	•	n	•	•

n = Translator word number (octal)  
v = Data being compared in old ODA  
w = Data being compared in new ODA  
x = Address being compared in old ODA  
y = Address being compared in new ODA

8. Was message aborted?  
If **Yes**, go to Step 9.  
If **No**, go to Step 11.
9. At 3B APS MCRT, note error printout. Determine cause and resolve; repeat from Step 7.
10. Using printout and the response in Step 7, determine if any data mismatches are listed.
11. Are additional selected data structures to be compared?  
If **Yes**, go to Step 12.  
If **No**, go to Step 13.
12. Repeat from Step 7.
13. Save printouts for analyzing.
14. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Establish Frame Hardware Status Required for 1B Processor Update

1. Refer to Table A, for minimum hardware in-service requirements for update.

<b>TABLE A</b>	
<b>UNIT</b>	<b>MINIMUM REQUIREMENTS (NOTE)</b>
1B Processor	Operating full duplex
IOUS	All IOUSs and all essential I/O channels in service
BUSES	All buses in service operating in duplex
API	APIs duplex and in service
SCS	All controllers and service circuit units available for service
SP	Base SPs operating full duplex. All other SPs in service with no more than one controller out of service
TSI/XTSI	Dedicated TSI/XTSI operating duplex. All other TSIs/XTSIs in service with no more than one controller out of service
TMS	All in service operating in duplex
PUB	Both peripheral unit buses in service
NCLK	All four clock chains in service
VIF/DT/ DIF	All in service. No more than one VIF/DT/DIF controller out of service (excluding TSI caused). No more than one VIU/DTU/DIU out of service in any one VIF/DT/DIF
EST	All ESTs in service and operating duplex
TGR	All TGRs in service and operating duplex
<b>NOTE:</b> Any operational unit which fails diagnostics or has interrupt problems must be powered down	

2. At 1B Processor MTC terminal, enter message to obtain list of out-of-service units, **OP:OOSUNITS!**

3. Conditionally restore each unit on out-of-service list required for update, using restore message.

**Note:** If an actual update, only remove power from units in trouble. When verifying tape compatibility, do not remove power from out-of-service units.

4. Remove power from any operational unit which fails diagnostics.

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

## Write Backup Long-Term Storage (LTS) Tape

1. Insert blank or erasable 4-mm tape with write-protect tab in up (unlocked) position into available 3B APS DAT unit using DLP-501.

**Note:** Writing of LTS tape must be initiated during 7-minute window beginning 4 minutes past any quarter hour. If COPY message is not entered during this window, an **RL** will be received.

2. At 3B APS MCRT, enter message **COPY:APPTAPE:LTS,MT a!**

where a = 3B APS DAT unit number with tape inserted (0 or 1)

3. Was output message 1 in Table A received?

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

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

<b>TABLE A</b>	
<b>MESSAGE NUMBER</b>	<b>OUTPUT MESSAGES</b>
1	<b>COPY APPTAPE TYPE: LTS, WRITTEN</b> mm/dd/yy hh:mm
2	<b>COPY APPTAPE ADDRESS RANGE</b> aaaaaaaa - bbbbbbbb <b>STARTED,FILE /dev/1afileX</b>
3	<b>COPY APPTAPE ADDRESS RANGE</b> aaaaaaaa - bbbbbbbb <b>COMPLETED</b>
4	<b>COPY APPTAPE COMPLETED</b>
mm/dd/yy hh:mm = month/day/year hour:minute tape was written aaaaaaaa = starting LTS address through bbbbbbbb = ending LTS address written X = 0 or 1	

4. Determine cause and resolve; repeat from Step 2.

5. Were output messages 2 through 4 in Table A received?

If **Yes**, go to Step 8.

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

6. Determine cause and resolve.
7. Remove tape from 3B APS DAT unit using DLP-504, and repeat from Step 1.
8. Remove tape from 3B APS DAT unit using DLP-504, and label per local procedure.
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Write Traffic and Plant Measurement (TPM) Tape

1. Insert blank or erasable 4-mm tape with write-protect tab in up (unlocked) position into an available 3B APS DAT unit using DLP-501.
2. At 3B APS MCRT, enter message  
**COPY:UPDATE:TPM NORM,MT a!**  
where a = 3B APS DAT unit number with tape inserted (0 or 1)  
Response: **COPY TPM from NORMAL FILE**  
**TPM TAPE WRITTEN**
3. Was printout received per the response in Step 2?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.
4. At 3B APS MCRT, note error printout. Determine cause and resolve; repeat from Step 1.
5. Remove tape from 3B APS DAT unit using DLP-504, and label per local procedure.
6. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Write Backup Trunk Out-of-Service List (TOSL) Tape

1. Insert blank or erasable 4-mm tape with write-protect tab in up (unlocked) position into available 3B APS DAT unit using DLP-501.
2. At 3B APS MCRT, enter message  
**COPY:APPTAPE:TOSL,MT a!**  
where a = 3B APS DAT unit number with tape inserted (0 or 1)
3. Was output message 1 in Table A received?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.

TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	<b>COPY APPTAPE TYPE: TOSL, WRITTEN</b> mm/dd/yy hh:mm
2	<b>COPY APPTAPE ADDRESS RANGE</b> aaaaaaaa - bbbbbbbb <b>STARTED,FILE /dev/1afileX</b>
3	<b>COPY APPTAPE ADDRESS RANGE</b> aaaaaaaa - bbbbbbbb <b>COMPLETED</b>
4	<b>COPY APPTAPE COMPLETED</b>

mm/dd/yy hh:mm = month/day/year hour:minute tape was written  
aaaaaaa = starting TOSL address through  
bbbbbbb = ending TOSL address written  
X = 0 or 1

4. Determine cause and resolve; repeat from Step 2.
5. Were output messages 2 through 4 in Table A received?  
If **Yes**, go to Step 8.  
If **No**, go to Step 6.
6. Determine cause and resolve.
7. Remove tape from 3B APS DAT unit using DLP-504, and repeat from Step 1.

8. Remove tape from 3B APS DAT unit using DLP-504, and label per local procedure.
  
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Run 1B Processor CC Diagnostic Phase 95 to Test PC Function

1. At 1B Processor MTC terminal, enter message

**DGN:CC a:PH 95!**

where a = Standby CC member number (0 or 1)

Response: **DGN:CC a PH 95 ATP**  
**DGN:CC a COMPLETED ATP MSG COMPL**  
**TEST:CC a DFR ATP**

2. Was printout received per the response in Step 1?

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

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

3. Clear diagnostic failure per 234-351-004. Repeat from Step 1.

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



## Save Primary AMA Data on Tape

1. At 3B APS MCRT, enter message  
**OP:AMA;MAPS!**

2. Was printout received per Table A?  
 If **Yes**, go to Step 4.  
 If **No**, go to Step 3.

<b>TABLE A</b>	
<b>MESSAGE NUMBER</b>	<b>OUTPUT MESSAGE</b>
1	<b>REPT AMA DISK MAPS</b> <b>WRITE PARTITION a READ PARTITION n</b> a = Partition number AMA data being written
2	<b>PARTITION b DISK MAP:</b> <b>FPO: c          LPO: d          FPS: _____          LPS: _____</b> <b>FSO: _____          LSO: _____          FSS: _____          LSS: _____</b> <b>FBO: _____          LBO: _____          FBS: _____          LBS: _____</b> b = Equipped partition number c = Read value to be recorded after AMA write d = Write value to be recorded before AMA write
3	Message 2 is repeated for each equipped partition.

3. Determine cause and resolve; repeat from Step 1.
4. Record **LPO:** values for later reference.
5. Write AMA tape(s) for IC and/or OC stream(s) using DLP-518.
6. At 3B APS MCRT, enter message  
**OP:AMA;MAPS!**

7. Was printout received per Table A?

If **Yes**, go to Step 9.

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

8. Determine cause and resolve; repeat from Step 6.

9. Compare **FPO:** values from this printout with **LPO:** values recorded in Step 4.

10. Are the **FPO:** values equal to or greater than the **LPO:** values?

If **Yes**, go to Step 12.

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

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

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

## Write AMA Tape(s)

1. Insert blank or erasable 4-mm AMA tape, supplied by RAO, with write-protect tab in up (unlocked) position into available 3B APS DAT using DLP-501.

2. At 3B APS MCRT, enter message for the appropriate stream

**VER:AMATAPE;MT a:b!**

where a = 3B APS DAT unit number with tape inserted (0 or 1)  
b = **IC** or **OC**

Response: **REPT AMATAPE VERIFY FOR a STREAM**  
**VOL SER NUMBER b**  
**DATA SET ID c**  
**EXPIRATION DATE d-e**  
**TAPE DRIVE NUMBER f**  
**AMA TAPE CAN BE WRITTEN**

where a = **IC** or **OC**  
b = Tape serial number  
c = Data set ID  
d = Year of expiration date  
e = Day of expiration (1 through 365)  
f = Tape drive number

3. Was output message received per the response in Step 2?

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

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

4. Correct verify failure per 234-351-002; then repeat from Step 2.

5. At 3B APS MCRT, enter message to write AMA tape

**COPY:AMATAPE;PRIM,MT a:b!**

where a = 3B APS DAT unit number with tape inserted (0 or 1)  
b = **IC** or **OC**

6. Was **REPT AMA TAPE WRITING HAS BEGUN FOR a STREAM** output message received?

If **Yes**, go to Step 8.

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

7. Determine cause and resolve; repeat from Step 5.
8. Allow tape writing to continue until response message occurs.
9. What is the response message?  
If **REPT AMATAPE COMPLETE**, go to Step 11.  
(Output message contains detailed data of AMA tape.)  
If **REPT AMATAPE ERROR**, go to Step 10.
10. Correct AMA tape write failure per 234-351-002; then repeat from Step 5.
11. Does response indicate **NORMAL TERMINATION - NO MORE DATA**?  
If **Yes**, go to Step 12.  
If **No**, go to Step 17.
12. Remove tape from 3B APS DAT unit using DLP-504 and label per local procedure.
13. Does the other AMA stream need to be written to tape?  
If **Yes**, go to Step 14.  
If **No**, go to Step 15.
14. Repeat from Step 1 for the other stream.
15. On transmittal notice for AMA tape(s) just written, note that tape(s) was written just prior to generic retrofit or ODA update, as appropriate.
16. Go to Step 20.
17. Does response indicate **NORMAL TERMINATION - MORE DATA TO BE WRITTEN**?  
If **Yes**, go to Step 18.  
If **No**, go to Step 19.
18. Remove the AMA tape from 3B APS DAT unit using DLP-504 and label per local procedure; repeat from Step 1.

19. Contact appropriate support organization for resolution; after resolving, go to Step 13.

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



## Verify No Audits Inhibited

1. At 1B Processor MTC terminal, enter message **OP:AUDSTAT!**
2. Using printout (Step 1), determine if any audits are inhibited.
3. Are audits inhibited?  
If **Yes**, go to Step 4.  
If **No**, go to Step 5.
4. Contact appropriate support organization to determine if inhibited audits will affect update.  
Take corrective action as determined by support organization.
5. At 3B APS MCRT, enter message **OP:AUD;ALL!**
6. Using printout (Step 5), determine if any audits are inhibited.
7. Are audits inhibited?  
If **Yes**, go to Step 8.  
If **No**, go to Step 9.
8. Contact appropriate support organization to determine if inhibited audits will affect update.  
Take corrective action as determined by support organization.
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Verify Data Base

1. At 3B APS MCRT, enter message **OP:APPLOAD UPD!**

Response: **4ESS DATA BASE LOADED IN /dev/1afileX IS:  
GENERIC 4E<27>5x.yy Ra  
OFFICE (office name)  
LAST ODA TAPE WRITTEN 10/25/01 AT 19:51**  
where X = 0 or 1

2. Is generic retrofit being performed?  
If **Yes**, go to Step 3.  
If **No**, go to Step 5.
3. Using printout and the response above, does the printout list the generic issue of tape loaded during test retrofit?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.
4. Contact appropriate support organization for resolution. It may be necessary to repeat test retrofit. Proceed as directed by the appropriate support organization.
5. Does printout list proper office name [Common Language\* location identification (CLLI†) code]?  
If **Yes**, go to Step 7.  
If **No**, go to Step 6.
6. Contact appropriate support organization for resolution. It may be necessary to reload data base. Proceed as directed by the appropriate support organization.
7. Using printout and the response above, does the printout list ODA TAPE WRITTEN date of tape loaded during test retrofit/ODA update?  
If **Yes**, go to Step 9.  
If **No**, go to Step 8.

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† Trademark of Bell Communications Research, Inc.

8. Contact appropriate support organization for resolution. It may be necessary to repeat test retrofit/ test ODA update. Proceed as directed by the appropriate support organization.
  
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Map Dynamic Data From Normal File to Update File

### Notes:

1. If schedules that are entered by **SCHED:MEAS** input message are to be retained for update, include **MEAS** option in LOAD message (AT&T offices should use MEAS option).
2. **WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR** output message may be received. System will automatically map dynamic data when in proper window.
3. Dynamic data being mapped is TOSL and long-term storage.

1. At 3B APS MCRT, enter message **LOAD:UPDATE:MAP[,MEAS]!**

Response: **MAPPING DYNAMIC DATA FROM NORMAL FILE  
PRESERVING MEASUREMENTS  
DATABASE COMPLETE - READY FOR UPDATE**

2. Was printout received per the response in Step 1?  
If **Yes**, go to Step 4.  
If **No**, go to Step 3.
3. At 3B APS MCRT, note error printout. Determine cause and resolve; repeat from Step 1.
4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Prepare 1B Processor for Manual Recovery - Prior to Update

1. At 1B Processor MCC terminal, if EAI page is not displayed, depress **EA DISP** key.
2. At the top of the screen, which MUP is displayed?  
If **MUP 0**, go to Step 4.  
If **MUP 1**, go to Step 3.
3. At 1B Processor MTC terminal, enter message **SW:MUP!**  
Response: MUPs switch and MUP 0 is now listed at top of the screen.
4. In the **FORCE FNCT** section, are any **FORCE FNCT** poke commands colored black on purple?  
If **Yes**, go to Step 5.  
If **No**, go to Step 6.
5. At 1B Processor MCC terminal, enter **1x** where x is the CC colored black on purple (0 or 1) to clear the **FORCE FNCT** section.  
Response: The selected poke commands are now colored purple on white.
6. At 1B Processor MCC terminal, enter **99** (CLEAR ALL REQUESTS).
7. Enter **10** (CC 0).  
Response: **10 - CC 0** colored purple on white.  
**NO OVERRIDE** in lower right-hand corner colored purple on white.
8. Enter **20** (PS 0).  
Response: **20 - PS 0** colored purple on white.

9. Enter **22** (PSB 0).

Response: **22 - PSB 0** colored purple on white.

10. Enter **30** (CSB 0).

Response: **30 - CSB 0** colored purple on white.

11. Enter **40** (IFB 0).

Response: **40 - IFB 0** colored purple on white.

12. Enter **42** (AUB 0).

Response: **42 - AUB 0** colored purple on white.

13. Is **70 - DIS AUTO PC** colored black on purple?

If **Yes**, go to Step 15.

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

14. Enter **70** (DIS AUTO PC).

Response: **70 - DIS AUTO PC** colored black on purple.

15. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** colored purple on white.

16. Enter **62** (UPD FILE).

Response: **62 - UPD FILE** colored purple on white.

17. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section cleared.

18. Enter **119** to obtain DDI Key Options page (119).

19. Is DDI Key Assignments screen displayed?

If **Yes**, go to Step 21.

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

20. Enter **499** (TOGGLE MRA/INHIBIT INTERRUPT Options).

Response: DDI Key Assignments screen is now displayed.

21. Enter **402** (RESET ALL).

Response: All **MODIFY RECOVERY ACTIONS DDI KEY ASSIGNMENTS** colored white on black.

22. Enter **401,16,17,24**

Response: **MODIFY RECOVERY ACTIONS DDI KEY ASSIGNMENTS - 16, 17, 24** colored black on white.

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



## Perform Update

1. At 1B Processor MCC terminal, if the EAI Page is not displayed, depress **EA DISP** key.
2. At 1B Processor MCC terminal, enter **01** (HARD A). Start timing the update.  
Response: All **FORCE FNCT** selections are colored black on purple.
3. In **EAI FAIL DATA DISPLAY** section, observe **86 - CODE** field.
4. Did **86 - CODE** field start counting?  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. The 1B Processor is in an unknown state. Another attempt to update the 1B Processor will be made using a different CC. **Go to Step 34, Page 5.**

**Note:** During Step 6, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" (see Figure 1) in the **86 - CODE** field must begin incrementing within 10 seconds after entering **01**. "bbbb" indicates that the 1B Processor is attempting to pump, and "aaa" indicates the memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green, approximately 2 minutes after entering **01**. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbb" continues to increment, this is a failure. If data is received in the **87 - DATA** field, this is a failure.

**86 - CODE:** O'000aaabbbb

**87 - DATA:**

**88 - ADDR:**

**Figure 1 - 86 - CODE Field Layout**

6. Did **PC PROGRESSION - CMPL** change color to black on green?  
If **Yes**, go to Step 7.  
If **No**, go to Step 8.

**Note:** When a phase 3 is initiated, at the 1B Processor MCC terminal, the fourth leftmost digit in the **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23). **53 - PHASE 3** colors black on purple. In the lower right-hand corner, **PHASE IN PROG** is colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green.

7. Was a phase 3 initiated (**53 - PHASE 3** colored black on purple)?

If **Yes**, go to Step 9.

If **No**, immediately contact your next higher support group before proceeding to Step 8.

8. **System did not recover on the new data base.** Another attempt to update the 1B Processor will be made using a different CC. **Go to Step 34, Page 5.**

9. During the phase, while the fourth leftmost digit (bit 23) in the **EAI FAIL DATA DISPLAY - 86 - CODE** field continues to go between 0 and 4, **87 - DATA** and **88 - ADDR** fields must remain clear.

10. Did **53 - PHASE 3** go white on black and **PHASE IN PROG** clear (could take up to 4 minutes)?

If **Yes**, go to Step 13.

If **No**, immediately contact your next higher support group before proceeding to Step 11.

11. Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required.

**87** = \_\_\_\_\_

**88** = \_\_\_\_\_

12. **System did not recover on the new data base.** Another attempt to update the 1B Processor will be made using a different CC. **Go to Step 34, Page 5.**

13. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 14.

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

14. Evaluate the printouts to determine if the system came up successfully. Ensure a service degrading condition does not exist.

15. Did the system come up successfully?

If **Yes**, go to Step 71, Page 9.

If **No**, immediately contact your next higher support group before proceeding to Step 16.

16. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

17. System recovered on the new data base without I/O. Attempt to restore I/O will be required. **Continue at Step 18.**

18. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored white on black?

If **Yes**, go to Step 20.

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

19. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored white on black.

20. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

21. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored purple on white.

22. Enter **02** (SOFT A).

23. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored white on black.

24. Is 1B MTC, SCC, and/or SREC1 outputting messages?

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

If **No**, immediately contact your next higher support group before proceeding to Step 25.

25. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

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

27. Enter **810** (SDC).

28. Enter **899** (OP:OOSUNITS).

29. Enter **813** (INTRPT INH).

30. Depress **EA DISP** key to obtain the EAI page.

31. Evaluate printouts (Steps 27 through 29) to determine if the system came up successfully. Ensure a service-degrading condition does not exist.

32. Did the system come up successfully?

If **Yes**, go to Step 71, Page 9.

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

33. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

34. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored purple on white?

If **Yes**, go to Step 36.

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

35. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored purple on white.

36. Enter **10** (CC 0) to reset the **FORCE FNCT** section.

Response: All **FORCE FNCT** selections (except CC 0) are colored purple on white. CC 0 is colored white on black.

37. Enter **11** (CC 1) to select other CC for another attempt to boot the 1B Processor.

Response: **11 - CC 1** is colored purple on white.

38. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

39. Enter **01** (HARD A) to initiate a boot of the 1B Processor from the UPDATE file. Start timing the update.

Response: All **FORCE FNCT** selections are colored black on purple.

40. In **EAI FAIL DATA DISPLAY** section, observe **86 - CODE** field.

41. Did **86 - CODE** field start counting?

If **Yes**, go to Step 43.

If **No**, go to Step 42.

42. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

**Note:** During Step 43, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" (see Figure 2) in the **86 - CODE** field must begin incrementing within 10 seconds after entering **01**. "bbbb" indicates that the 1B Processor is attempting to pump, and "aaa" indicates the memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green, approximately 2 minutes after entering **01**. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbb" continues to increment, this is a failure. If data is received in the **87 - DATA** field, this is a failure.

**86 - CODE:** O'000aaabbbb

**87 - DATA:**

**88 - ADDR:**

**Figure 2 - 86 - CODE Field Layout**

43. Did **PC PROGRESSION - CMPL** change color to black on green?

If **Yes**, go to Step 44.

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

**Note:** When a phase 3 is initiated, at the 1B Processor MCC terminal, the fourth leftmost digit in the **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23). **53 - PHASE 3** colors black on purple. In the lower right-hand corner, **PHASE IN PROG** is colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green.

44. Was a phase 3 initiated (**53 - PHASE 3** colored black on purple)?

If **Yes**, go to Step 46.

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

45. **System did not recover on the new data base.** Back out to the old data base in the **NORMAL** file using DLP-524.

46. During the phase, while the fourth leftmost digit (bit 23) in the **EAI FAIL DATA DISPLAY - 86 - CODE** field continues to go between 0 and 4, **87 - DATA** and **88 - ADDR** fields must remain clear.

47. Did **53 - PHASE 3** go white on black and **PHASE IN PROG** clear (could take up to 4 minutes)?

If **Yes**, go to Step 50.

If **No**, go to Step 48.

48. Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required.

**87** = \_\_\_\_\_

**88** = \_\_\_\_\_

49. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

50. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 51.

If **No**, go to Step 54.

51. Evaluate the printouts to determine if the system came up successfully. Ensure a service degrading condition does not exist.

52. Did the system come up successfully?

If **Yes**, go to Step 71, Page 9.

If **No**, go to Step 53.

53. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

54. System recovered on the new data base without I/O. Attempt to restore I/O will be required. **Continue at Step 55.**

55. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored white on black?

If **Yes**, go to Step 57.

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

56. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored white on black.

57. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section cleared.

58. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored purple on white.

59. Enter **02** (SOFT A)

60. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored white on black.

61. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 63.

If **No**, go to Step 62.

**62. System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

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

64. Enter **810** (SDC).

65. Enter **899** (OP:OOSUNITS).

66. Enter **813** (INTRPT INH).

67. Depress **EA DISP** key to obtain the EAI page.

68. Evaluate printouts (Steps 64 through 66) to determine if the system came up successfully.  
Ensure a service-degrading condition does not exist.

69. Did the system come up successfully?

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

If **No**, go to Step 70.

70. **System did not recover on the new data base.** Back out to the old data base in the NORMAL file using DLP-524.

71. At 1B Processor MCC terminal, enter **1x** where x is the CC colored black on purple (0 or 1).

Response: All **FORCE FNCT** selections (except CC x),  
**84 - MODIFY RECV**, and  
**62 - UPD FILE** are colored purple on white.  
CC x is colored white on black.

72. Enter **99** (CLEAR ALL REQUESTS).

Response: All **FORCE FNCT** selections,  
**84 - MODIFY RECV**, and  
**62 - UPD FILE** are colored white on black.

73. Enter **62** (UPD FILE) to select the UPDATE file until the files are renamed.

Response: **62 - UPD FILE** is colored purple on white.

74. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

75. Enter **402** (RESET ALL).

Response: **DIRECT DATA INSERT** section is cleared.

76. Enter **70** (DIS AUTO PC).

Response: **70 - DIS AUTO PC** is colored white on black.

**Note:** Step 77 is being performed to rename the UPDATE file to the NORMAL file and precedes the actual commitment to the new generic.

77. At 1B Processor MTC terminal, enter message  
**UPD:COMMIT;UPDFILE!** to rename the UPDATE file to the NORMAL file.

Response: **UPD:COMMIT COMPLETED TO UPDFILE  
ENSURE UPDATE KEY IS RELEASED**

78. At 1B Processor MCC terminal, enter **62** (UPD FILE).

Response: **62 - UPD FILE** is colored white on black.

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

80. Enter **801** (RESTRICT RC) to restrict recent changes.

Response: **801 - RESTRICT RC** is colored black on white.

81. At 1B Processor MTC terminal, enter message  
**DUMP:CC,ADR 37776212!**

Response: **DUMP:CC,INDIR 0,ADR 777776212,INC +0 COMPLETED**

**777776212 a a0a a a a**

where a = Don't care.

82. Using the printout and response in Step 81, determine if the fourth leftmost octal digit in the data word is **0**. (**62 - UPD FILE** poke command is released).

83. Is the fourth leftmost octal digit **0**?

If **Yes**, go to Step 85.

If **No**, go to Step 84.

84. At 1B Processor MCC terminal, enter **62** (UPD FILE); repeat from Step 81.

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

## Back Out to Old Data Base in Normal File

1. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored purple on white?  
If **Yes**, go to Step 3.  
If **No**, go to Step 2.
2. Enter **84** (MODIFY RECV).  
Response: **84 - MODIFY RECV** is colored purple on white.
3. Enter **1x** where *x* is the CC colored black on purple (0 or 1) to reset the **FORCE FNCT** section.  
Response: All **FORCE FNCT** selections (except CC *x*), are colored purple on white.  
CC *x* is colored white on black.
4. Enter **10** (CC 0) to select CC 0 for an attempt to back out to the old data base that is in the NORMAL file.  
Response: **10 - CC 0** is colored purple on white.
5. Enter **62** (UPD FILE).  
Response: **62 - UPD FILE** is colored white on black.
6. Enter **61** (NORM FILE).  
Response: **61 - NORM FILE** is colored purple on white.
7. Enter **89** (CLEAR DISPLAY).  
Response: **EAI FAIL DATA DISPLAY** section is cleared.
8. At 1B Processor MCC terminal, enter **01** (HARD A) to initiate a boot of the 1B Processor from the NORMAL file. Start timing the back out.  
Response: All **FORCE FNCT** selections are colored black on purple.

9. In **EAI FAIL DATA DISPLAY** section, observe **86 - CODE** field.

10. Did **86 - CODE** field start counting?

If **Yes**, go to Step 12.

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

11. **The 1B Processor is in an unknown state.** Another attempt to boot to the old data base, using a different CC, will be made. **Go to Step 40, Page 5.**

**Note:** During Step 12, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" (see Figure 1) in the **86 - CODE** field must begin incrementing within 10 seconds after entering **01**. "bbbb" indicates that the 1B Processor is attempting to pump, and "aaa" indicates the memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green, approximately 2 minutes after entering **01**. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbb" continues to increment, this is a failure. If data is received in the **87 - DATA** field, this is a failure.

**86 - CODE:** O'000aaabbbb

**87 - DATA:**

**88 - ADDR:**

**Figure 1 - 86 - CODE Field Layout**

12. Did **PC PROGRESSION - CMPL** change color to black on green?

If **Yes**, go to Step 13.

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

**Note:** When a phase 3 is initiated, at the 1B Processor MCC terminal, the fourth leftmost digit in the **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23). **53 - PHASE 3** colors black on purple. In the lower right-hand corner, **PHASE IN PROG** is colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green.

13. Was a phase 3 initiated (**53 - PHASE 3** colored black on purple)?

If **Yes**, go to Step 15.

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

14. **System did not recover on the old data base.** Another attempt to boot to the old data base, using a different CC, will be made. **Go to Step 40, Page 5.**

15. During the phase, while the fourth leftmost digit (bit 23) in the **EAI FAIL DATA DISPLAY - 86 - CODE** field continues to go between 0 and 4, **87 - DATA** and **88 - ADDR** fields must remain clear.

16. Did **53 - PHASE 3** go white on black and **PHASE IN PROG** clear (could take up to 4 minutes)?

If **Yes**, go to Step 19.

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

17. Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required.

**87** = \_\_\_\_\_

**88** = \_\_\_\_\_

18. **System did not recover on the old data base.** Another attempt to boot to the old data base, using a different CC, will be made. **Go to Step 40, Page 5.**

19. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 20.

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

20. Evaluate the printouts to determine if the system came up successfully. Ensure a service degrading condition does not exist.

21. Did the system come up successfully?

If **Yes**, go to Step 112, Page 14.

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

22. **System did not recover on the old data base.** Another attempt to boot to the old data base, using a different CC, will be made. **Go to Step 40, Page 5.**

23. System recovered on the old data base without I/O. Attempt to restore I/O will be required.  
**Continue at Step 24.**

24. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored white on black?

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

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

25. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored white on black.

26. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

27. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored purple on white.

28. Enter **02** (SOFT A).

29. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored white on black.

30. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 32.

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

31. **System did not recover on the old data base.** Another attempt to boot to the old data base, using a different CC, will be made. **Go to Step 40, Page 5.**

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

33. Enter **810** (SDC).

34. Enter **899** (OP:OOSUNITS).

35. Enter **813** (INTRPT INH).

36. Depress **EA DISP** key to obtain the EAI page.

37. Evaluate printouts (Steps 33 through 35) to determine if the system came up successfully. Ensure a service-degrading condition does not exist.

38. Did the system come up successfully?

If **Yes**, go to Step 112, Page 14.

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

39. **System did not recover on the old data base.** Another attempt to boot to the old data base, using a different CC, will be made. **Continue at Step 40.**

40. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored purple on white?

If **Yes**, go to Step 42.

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

41. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored purple on white.

42. Enter **10** to reset the **FORCE FNCT** section.

Response: All **FORCE FNCT** selections (except CC 0) are colored purple on white. CC 0 is colored white on black.

43. Enter **11** (CC 1) to select other CC for another attempt to boot the 1B Processor.

Response: **11 - CC 1** is colored purple on white.

44. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

45. Enter **01** (HARD A) to initiate a boot of the 1B Processor from the NORMAL file. Start timing the back out.

Response: All **FORCE FNCT** selections are colored black on purple.

46. In **EAI FAIL DATA DISPLAY** section, observe **86 - CODE** field.

47. Did **86 - CODE** field start counting?

If **Yes**, go to Step 49.

If **No**, go to Step 48.

**48. The 1B Processor is in an unknown state.** Another attempt to boot to the old data base will be made. **Go to Step 77, Page 10.**

**Note:** During Step 49, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" (see Figure 2) in the **86 - CODE** field must begin incrementing within 10 seconds after entering **01**. "bbbb" indicates that the 1B Processor is attempting to pump, and "aaa" indicates the memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green, approximately 2 minutes after entering **01**. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbb" continues to increment, this is a failure. If data is received in the **87 - DATA** field, this is a failure.

**86 - CODE:** O'000aaabbbb

**87 - DATA:**

**88 - ADDR:**

**Figure 2 - 86 - CODE Field Layout**

49. Did **PC PROGRESSION - CMPL** change color to black on green?

If **Yes**, go to Step 50.

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

**Note:** When a phase 3 is initiated, at the 1B Processor MCC terminal, the fourth leftmost digit in the **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23). **53 - PHASE 3** colors black on purple. In the lower right-hand corner, **PHASE IN PROG** is colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green.

50. Was a phase 3 initiated (**53 - PHASE 3** colored black on purple)?

If **Yes**, go to Step 52.

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

**51. System did not recover on the old data base.** Another attempt to boot to the old data base, using a different CC, will be made. **Go to Step 77, Page 10.**

52. During the phase, while the fourth leftmost digit (bit 23) in the **EAI FAIL DATA DISPLAY - 86 - CODE** field continues to go between 0 and 4, **87 - DATA** and **88 - ADDR** fields must remain clear.

53. Did **53 - PHASE 3** go white on black and **PHASE IN PROG** clear (could take up to 4 minutes)?

If **Yes**, go to Step 56.

If **No**, go to Step 54.

54. Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required.

**87** = \_\_\_\_\_

**88** = \_\_\_\_\_

55. **System did not recover on the old data base.** Another attempt to boot to the old data base will be made. **Go to Step 77, Page 10.**

56. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 57.

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

57. Evaluate the printouts to determine if the system came up successfully. Ensure a service degrading condition does not exist.

58. Did the system come up successfully?

If **Yes**, go to Step 112, Page 14.

If **No**, go to Step 59.

59. **System did not recover on the old data base.** Another attempt to boot to the old data base will be made. **Go to Step 77, Page 10.**

60. System recovered on the old data base without I/O. Attempt to restore I/O will be required. **Continue at Step 61.**

61. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored white on black?

If **Yes**, go to Step 63.

If **No**, go to Step 62.

62. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored white on black.

63. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section cleared.

64. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored purple on white.

65. Enter **02** (SOFT A)

66. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored white on black.

67. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 69.

If **No**, go to Step 68.

68. **System did not recover on the old data base.** Another attempt to boot to the old data base will be made. **Go to Step 77, Page 10.**

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

70. Enter **810** (SDC).

71. Enter **899** (OP:OOSUNITS).

72. Enter **813** (INTRPT INH).

73. Depress **EA DISP** key to obtain the EAI page.

74. Evaluate printouts (Steps 70 through 72) to determine if the system came up successfully. Ensure a service-degrading condition does not exist.

75. Did the system come up successfully?

If **Yes**, go to Step 112, Page 14.

If **No**, go to Step 76.

76. **System did not recover on the old data base.** Another attempt to boot to the old data base will be made. **Continue at Step 77.**

77. At 1B Processor MCC terminal, enter **1x** where x is the CC colored black on purple (0 or 1).

Response: All **FORCE FNCT** selections (except CC x), are colored purple on white.  
CC x is colored white on black.

78. Enter **99** (CLEAR ALL REQUESTS).

Response: All **FORCE FNCT** selections are colored white on black.

79. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

80. Enter **61** (NORM FILE).

Response: **61 - NORM FILE** is colored purple on white.

81. Enter **70** (DIS AUTO PC). Start timing the back out.

Response: **70 - DIS AUTO PC** is colored white on black.

**03,00 - SET PC STATE** progresses through the pump states until a good configuration is found.

82. Wait for either the **86 - CODE** field to start counting or **REPEATED PC** is colored white on red.

83. Did **86 - CODE** field start counting?

If **Yes**, go to Step 84.

If **No**, go to Step 86.

**Note:** During Step 84, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" (see Figure 3) in the **86 - CODE** field must begin incrementing within 10 seconds after entering **01**. "bbbb" indicates that the 1B Processor is attempting to pump, and "aaa" indicates the memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green, approximately 2 minutes after entering **01**. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbb" continues to increment, this is a failure. If data is received in the **87 - DATA** field, this is a failure.

**86 - CODE:** O'000aaabbbb

**87 - DATA:**

**88 - ADDR:**

**Figure 3 - 86 - CODE Field Layout**

84. Did **PC PROGRESSION - CMPL** change color to black on green?

If **Yes**, go to Step 85.

If **No**, go to Step 86.

**Note:** When a phase 3 is initiated, at the 1B Processor MCC terminal, the fourth leftmost digit in the **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23). **53 - PHASE 3** colors black on purple. In the lower right-hand corner, **PHASE IN PROG** is colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green.

85. Was a phase 3 initiated (**53 - PHASE 3** colored black on purple)?

If **Yes**, go to Step 87.

If **No**, go to Step 86.

**86. Attempt to return to the old data base was not successful.** Record the failing address and refer to the next higher support group for assistance. Proceed as directed by the next higher support group.

87. During the phase, while the fourth leftmost digit (bit 23) in the **EAI FAIL DATA DISPLAY - 86 - CODE** field continues to go between 0 and 4, **87 - DATA** and **88 - ADDR** fields must remain clear.

88. Did **53 - PHASE 3** go white on black and **PHASE IN PROG** clear (could take up to 4 minutes)?

If **Yes**, go to Step 91.

If **No**, go to Step 89.

89. Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required.

**87** = \_\_\_\_\_

**88** = \_\_\_\_\_

90. **Attempt to return to the old data base was not successful.** Record the failing address and refer to the next higher support group for assistance. Proceed as directed by the next higher support group.

91. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 92.

If **No**, go to Step 95.

92. Evaluate the printouts to determine if the system came up successfully. Ensure a service degrading condition does not exist.

93. Did the system come up successfully?

If **Yes**, go to Step 112, Page 14.

If **No**, go to Step 94.

94. **Attempt to return to the old data base was not successful.** Record the failing address and refer to the next higher support group for assistance. Proceed as directed by the next higher support group.

95. System recovered on the old data base without I/O. Attempt to restore I/O will be required.  
**Continue at Step 96.**

96. At 1B Processor MCC terminal, is **84 - MODIFY RECV** colored white on black?

If **Yes**, go to Step 98.

If **No**, go to Step 97.

97. Enter **84** (MODIFY RECV).

Response: **84 - MODIFY RECV** is colored white on black.

98. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section cleared.

99. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored purple on white.

100. Enter **02** (SOFT A)

101. Enter **82** (RESTORE I/O).

Response: **82 - RESTORE I/O** is colored white on black.

102. Is 1B MTC, SCC, and/or SREC1 outputting messages?

If **Yes**, go to Step 104.

If **No**, go to Step 103.

103. **Attempt to return to the old data base was not successful.** Record the failing address and refer to the next higher support group for assistance. Proceed as directed by the next higher support group.

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

105. Enter **810** (SDC).

106. Enter **899** (OP:OOSUNITS).

107. Enter **813** (INTRPT INH).

108. Depress **EA DISP** key to obtain the EAI page.

109. Evaluate printouts (Steps 105 through 107) to determine if the system came up successfully. Ensure a service-degrading condition does not exist.

110. Did the system come up successfully?

If **Yes**, go to Step 112.

If **No**, go to Step 111.

111. **Attempt to return to the old data base was not successful.** Record the failing address and refer to the next higher support group for assistance. Proceed as directed by the next higher support group.

112. At 1B Processor MCC terminal, enter **1x** where **x** is the CC colored black on purple (0 or 1).

Response: All **FORCE FNCT** selections (except CC **x**),  
**84 - MODIFY RECV**, and  
**61 - NORM FILE** are colored purple on white.  
CC **x** is colored white on black.

113. Enter **99** (CLEAR ALL REQUESTS).

Response: All **FORCE FNCT** selections,  
**84 - MODIFY RECV**, and  
**61 - NORM FILE** are colored white on black.

114. Enter **61** (NORM FILE) to select the NORMAL file until the files are renamed.

Response: **61 - NORM FILE** is colored purple on white.

115. Enter **89** (CLEAR DISPLAY).

Response: **EAI FAIL DATA DISPLAY** section is cleared.

116. Enter **402** (RESET ALL).

Response: **DIRECT DATA INSERT** section is cleared.

117. Is **70 - DIS AUTO PC** colored white on black?

If **Yes**, go to Step 119.

If **No**, go to Step 118.

118. Enter **70** (DIS AUTO PC).

Response: **70 - DIS AUTO PC** is colored white on black.

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



## Verify DLNEs Were Pumped From the Proper 1AFILE

1. At 3B APS MCRT, enter message **OP:DLNCM,DLNMAP!**
2. Using the printout received in Step 1, record the 1afile that the DLNEs were pumped from (0 or 1).
3. At 3B APS MCRT, enter message **OP:APPLOAD NORM!**
4. Using the printout received in Step 3, record what data base the 1afile is loaded in (0 or 1).
5. Determine if the same 1afiles were recorded in Steps 2 and 4.
6. Were the same 1afiles recorded?  
If **Yes**, go to Step 8.  
If **No**, go to Step 7.
7. Contact the next higher support group for resolution. After resolving, repeat from Step 1.
8. Using the printout received in Step 1, determine if **ODA Pump** is **COMPL** for each DLNE.
9. Was **ODA Pump COMPL** received for each DLNE?  
If **Yes**, go to Step 11.  
If **No**, go to Step 10.
10. Contact the next higher support group for resolution. After resolving, repeat from Step 1.
11. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Set System Clock

1. At 1B Processor MTC terminal, type, but do not send, the partially completed message.

**SET:CLK:DAY a,DATE b,TIME hhmm!** (Complete everything except minutes and seconds).

where      a = Day (SUN, MON, TUE, etc.)  
              b = Date (6-digit number - mmddyy)  
              hh = Hour (00 to 23)  
              mm = Minute (00 to 59)

**Note:** Time announcements are made every minute on the minute. The hours announced are in Greenwich Mean Time.

2. Call the U. S. Bureau of Standards Time Announcement at 303-499-7111 and listen for the time announcement.
3. At the next time announcement, complete message (but do not send) by adding minute announced plus 1.
4. Return the cursor to start of message.
5. At the next time announcement, instant tone is heard; depress the **SEND** key.  
Response: **OK**
6. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Load New TLP From Tape Onto Disk

1. Insert new TLP tape with write-protect tab in down (locked) position into available 3B APS DAT unit using DLP-501.

2. At 3B APS MCRT, enter message  
**VER:UPDATE:TAPE,MT a!**

where a = 3B APS DAT unit number with TLP tape being verified (0 or 1)

Response: **TAPE TYPE: TLP**  
**GENERIC a a a a a a a a a a a**  
**MOST RECENT OFL GENERATION: YR 01,MON 10,DAY 04 AT 11:28**  
**THIS TAPE WRITTEN: YR 01,MON 11,DAY 04 AT 17:19**  
**FS IDS: 000000000000010,TAPE IDS: 000000011111111**  
**PARTL UPD FLG: 0,PHASE REQD: 0001000**

3. Using printout and the response in Step 2, record Generic Identification number (aaaaaaaaaa aa).

4. At 3B APS MCRT, enter message  
**LOAD:TLP:GEN "a",MT b!**

where a = Generic Identification number (Step 3).  
b = 3B APS DAT unit number (0 or 1).

5. Was **LOAD:TLP JOB COMPLETED** message received?

If **Yes**, go to Step 7.

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

6. At 3B APS MCRT, note error printout. Determine cause and resolve; repeat from Step 2.

7. Remove tape from 3B APS DAT unit using DLP-504.

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



## Restore Out-of-Service Units After Update

1. At 1B Processor MTC terminal, enter message  
**OP:MACLI,CLASS MTCE!**
2. Does printout in Step 1 list any units?  
If **Yes**, go to Step 3.  
If **No**, go to Step 4.
3. Wait 1 minute; then repeat from Step 1.
4. At 1B Processor MTC terminal, enter message  
**OP:OOSUNITS!**
5. Does printout in Step 4 list any units?  
If **Yes**, go to Step 6.  
If **No**, go to Step 7.
6. At 1B Processor MTC terminal, conditionally restore each unit listed (**RST:a b[,c d]!**); then repeat from Step 4.  
  
where    a = Unit type  
          b = Unit type member number  
          c = Submember type (if indicated)  
          d = Submember number (if indicated)
7. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Set Up Vacant Code Traps

**Note:** Retrofitting office must use the IO manuals to determine if other traps are to be monitored besides the required traps listed in Step 1.

1. Is this update being performed in an AT&T office?  
If **Yes**, go to Step 2.  
If **No**, go to Step 5.
  
2. At a 1B Processor I/O terminal, other than the MTC terminal, enter message  
**MON:IAOFCNT,NEW:TIMEON hhmm,COU,HRDMP!**  
where hhmm = Hour (00 to 23) and minute (00 to 59) which specifies time trap is to start collecting data
  
3. Does output message indicate vacant code traps are set up?  
If **Yes**, go to Step 8.  
If **No**, go to Step 4.
  
4. Analyze output message to determine error; resolve and repeat from Step 2.
  
5. At a 1B Processor I/O terminal, other than the MTC terminal, enter message  
**MON:IAOFC,NEW;ADD:IA (VCA,NCA,PDA,PER,DSF),TIMEON hhmm,COU!**  
where hhmm = Hour (00 to 23) and minute (00 to 59) which specifies time trap is to start collecting data
  
6. Does output message indicate vacant code traps are set up?  
If **Yes**, go to Step 8.  
If **No**, go to Step 7.
  
7. Analyze output message to determine error; resolve and repeat from Step 5.
  
8. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Complete Network Management System Checkout

1. Perform exception panel lamp test.
2. Perform MC3 test.
3. Verify that no TSG performance lamps on exception panel are active before activation of study classes.
4. Verify that exception panel reflects correct office conditions before thresholds are inserted.
5. Are recent changes to be entered by the Operation Support System?  
If **Yes**, go to Step 13.  
If **No**, go to Step 6.
6. Assign TSGs to study classes via TG 20.
7. Verify that exception panel correctly reflects office conditions with activity study classes.
8. Insert operational thresholds and verify that exception panel correctly reflects office conditions.
9. Determine correct study class assignments and consistent TSG data.
10. Verify that ineffective attempt (machine and network) levels are consistent with previous office conditions.
11. Activate auxiliary study class assignments and verify correct operation via exception panel outputs.
12. Restore regular study class assignments.

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

## Load Library Program Packages From Original Tape Onto Disk

1. At 1B Processor MTC terminal, enter message  
**OP:LIBSTAT,FS!**
2. Using printout, determine if required library packages are listed.
3. Are required library packages listed?  
If **Yes**, go to Step 12.  
If **No**, go to Step 4.
4. Is 4E27 library tape available?  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. Contact next higher support group to obtain a 4E27 library tape. After obtaining a 4E27 library tape, repeat from Step 1.
6. Insert new library tape with write-protect tab in down (locked) position into available 3B APS DAT unit using DLP-501.
7. At 1B Processor MTC terminal, enter message  
**LOAD:LIBSYS,FS;TAPE:TD a!**  
  
where a = 3B APS DAT unit with library tape inserted (0 or 1).
8. Wait for **INIT:LIBSYS COMPLETED** and **LOAD:LIBSYS COMPLETED** messages to be received.
9. Were **INIT:LIBSYS COMPLETED** and **LOAD:LIBSYS COMPLETED** messages received?  
If **Yes**, go to Step 11.  
If **No**, go to Step 10.
10. Determine cause and resolve; repeat from Step 7.

11. Repeat from Step 1.

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

## Complete Network Management System Checkout

1. Assign TSGs to study classes via TG 20.
2. Verify that exception panel correctly reflects office conditions with activity study classes.
3. Insert operational thresholds and verify that exception panel correctly reflects office conditions.
4. Determine correct study class assignments and consistent TSG data.
5. Verify that ineffective attempt (machine and network) levels are consistent with previous office conditions.
6. Activate auxiliary study class assignments and verify correct operation via exception panel outputs.
7. Restore regular study class assignments.
8. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Write 1B Processor 4-mm Backup Library Tape

1. Insert a blank or erasable 4-mm tape with the write-protect tab in the up (unlocked) position into an available 3B APS DAT unit using DLP-501.
2. At 3B APS MCRT, enter message  
**COPY:UPDATE:LIB NORM,MT a!**  
where a = 3B APS DAT unit number (0 or 1).  
  
Response: **COPY LIB FROM NORMAL FILE**  
**TAPE FILE 10 WRITTEN FROM FS \***  
**LIB TAPE WRITTEN**  
**\* May Not Be Received**
3. At 3B APS MCRT, follow the tape writing progress using the printout and the response in Step 2.
4. Was **LIB TAPE WRITTEN** output message received?  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. At 3B APS MCRT, note the error printout. Determine cause and resolve; repeat from Step 2.
6. Remove the backup library tape from 3B APS DAT unit using DLP-504 and label per local procedure.
7. Store backup library tape per local procedure.
8. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Write 1B Processor 4-mm Backup Network Management (NWM) Tape

1. Insert a blank or erasable 4-mm tape with the write-protect tab in the up (unlocked) position into an available 3B APS DAT unit using DLP-501.
2. At 3B APS MCRT, enter message  
**COPY:UPDATE:NWM NORM,MT a!**  
where a = 3B APS DAT unit number (0 or 1).  
  
Response: **COPY NWM from NORMAL FILE**  
**10 TAPE FILES WRITTEN**  
**NWM TAPE WRITTEN**  
\* May Not Be Received
3. At 3B APS MCRT, follow the tape writing progress using the printout and the response in Step 2.
4. Was **NWM TAPE WRITTEN** output message received?  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. At 3B APS MCRT, note the error printout. Determine cause and resolve; repeat from Step 2.
6. Remove the backup network management tape from 3B APS DAT unit using DLP-504 and label per local procedure.
7. Store backup network management tape per local procedure.
8. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Load New ODA On Disk For ODA Update

1. Determine the BASE and CONTROL numbers recorded earlier.

**Note:** ODA tape will not start loading immediately after **LOAD:UPDATE . . .** message is entered. There will be 5-minute delay while 1AFILE is copied into UPDATE file.

2. At 3B APS MCRT, enter message  
**LOAD:UPDATE:ODA "aaaabb",MT c!**

aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long.

bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long

c = 3B APS DAT unit number with ODA tape inserted (0 or 1).

3. At 3B APS MCRT, was an **PF** response received?

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

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

4. Determine cause and resolve; repeat from Step 2.

5. Was **INVALID TAPE ID - ENTER AGAIN** message received?

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

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

6. Repeat from Step 1.

7. At 3B APS MCRT, follow update progress per the response below.

Response: **ODA UPDATE**

**TAPE HEADER**

•  
•  
•

**/etc/vcp /dev/1afileX /dev/1afileY > /dev/null**

**TAPE FILE 10 LOADED TO FS**

•

**TAPE FILE n LOADED TO FS**

**ODA COMPLETE - READY FOR NWM**

8. When ODA loading is finished, was **ODA COMPLETE - READY FOR NWM** message received?

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

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

9. At 3B APS MCRT, note error printout. Determine cause and resolve. Proceed as directed by next higher support group.

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

## Check CAMA and/or ICDR Operation

**Note: OP:** input message in Steps 1 and 4 must be entered during an 11-minute window starting 2 minutes past any quarter hour. Tracer records are sent on the quarter hour.

1. At 3B APS MCRT, enter message  
**OP:AMA;PTRS!**

Response:

```
REPT AMA POINTERS INFORMATION
  Receive Buffer Unload pointer:
    DMAnum 0 offset 52284 address 508988
  Receive Buffer Load pointer:
    DMAnum 0 offset 50008 address a a a a a Record This Value
    .
    .
```

2. Using printout and the response in Step 1, record Receive Buffer Load pointer address  
(a a a a a)
3. Wait a few minutes before continuing.
4. At 3B APS MCRT, enter message  
**OP:AMA;PTRS!**
5. Using printout and the response in Step 1, observe Receive Buffer Load pointer address value and compare with value recorded in Step 2.
6. Did Receive Buffer Load pointer address change?  
If **Yes**, go to Step 8.  
If **No**, go to Step 7.
7. Contact appropriate support organization for resolution. After resolving, repeat from Step 1.

**Note:** If AMA and ICDR data is being recorded, Step 9 through 16 and Steps 17 through 24 can be performed simultaneously.

8. What AMA/ICDR recording is in office?

If **AMA**, go to Step 9.  
If **ICDR**, go to Step 17.

9. At 3B APS MCRT, enter message

**OP:AMA;MAPS!**

10. Using printout and Table A, determine partition number associated with **WRITE PARTITION** for each stream (IC/OC) being recorded.

11. Using printout and Table A, record **LPO:** value(s) under **PARTITION DISK MAP:**, associated with partition(s) determined in Step 10.

<b>TABLE A</b>	
<b>MESSAGE NUMBER</b>	<b>OUTPUT MESSAGE</b>
1	<b>REPT AMA DISK MAPS FOR a STREAM</b> <b>WRITE PARTITION b READ PARTITION n</b> a = IC or OC b = Partition number AMA data being written
2	Message 1 is repeated for each stream.
3	<b>PARTITION c DISK MAP:</b> <b>FPO: _____ LPO: d      FPS: _____ LPS: _____</b> <b>FSO: _____ LSO: _____ FSS: _____ LSS: _____</b> <b>FBO: _____ LBO: _____ FBS: _____ LBS: _____</b> c = Equipped partition number d = AMA record count
4	Message 3 is repeated for each equipped partition.

**Note:** Data accumulates in a big buffer before it is split and written to disk. If only tracer records are being recorded, it would take approximately 2 hours before **LPO:** value would change. If a lot of AMA data is recorded, 30-minute wait may not be necessary. Other post retrofit activities can be performed during wait period.

12. Wait 30 minutes before continuing.

13. At 3B APS MCRT, enter message  
**OP:AMA;MAPS!**
  
14. Using printout and Table A, observe **LPO:** value(s) under **PARTITION DISK MAP:**, associated with partition(s) determined in Step 10, and compare with value(s) recorded in Step 11.
  
15. Did **LPO:** value(s) change?  
If **Yes**, go to Step 25.  
If **No**, go to Step 16.
  
16. Contact appropriate support organization for resolution. After resolving, repeat from Step 9.
  
17. At 3B APS MCRT, enter message  
**OP:ICDR;MAPS!**
  
18. Using printout and Table A, determine partition number associated with **WRITE PARTITION.**
  
19. Using printout and Table B, record **LPO:** value(s) under **PARTITION DISK MAP:**, associated with partition determined in Step 18.

<b>TABLE B</b>	
<b>MESSAGE NUMBER</b>	<b>OUTPUT MESSAGE</b>
1	<b>REPT ICDR DISK MAPS</b> <b>WRITE PARTITION a READ PARTITION n</b> a = Partition number ICDR data being written
2	<b>PARTITION b DISK MAP:</b> <b>FPO:</b> _____ <b>LPO:</b> c <b>FPS:</b> _____ <b>LPS:</b> _____ <b>FSO:</b> _____ <b>LSO:</b> _____ <b>FSS:</b> _____ <b>LSS:</b> _____ <b>FBO:</b> _____ <b>LBO:</b> _____ <b>FBS:</b> _____ <b>LBS:</b> _____ b = Equipped partition number c = ICDR record count
3	Message 2 is repeated for each equipped partition.

**Note:** Data accumulates in a big buffer before it is split and written to disk. If only tracer records are being recorded, it would take approximately 2 hours before **LPO:** value would change. If a lot of ICDR data is recorded, 30-minute wait may not be necessary. Other post-retrofit activities can be performed during wait period.

20. Wait 30 minutes before continuing.

21. At 3B APS MCRT, enter message  
**OP:ICDR;MAPS!**

22. Using printout and Table B, observe **LPO:** value under **PARTITION DISK MAP:**, associated with partition determined in Step 18, and compare with value recorded in Step 19.

23. Did **LPO:** value change?

If **Yes**, go to Step 25.

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

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

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

## Commit to the 4E27 Generic

1. At 1B Processor MCC terminal, is System Status (108) page displayed?  
If **Yes**, go to Step 3.  
If **No**, go to Step 2.
2. At 1B Processor MCC terminal, enter **108** to obtain the System Status (108) display page.
3. On System Status display page, is **801 - RESTRICT RC** colored black on white?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.

4. 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**

**WARNING: Care must be taken to ensure proper message is entered to prevent service interruption.**

5. At 3B APS MCRT, enter message  
**COPY:APPFILE NORM;UCL!** to copy the NORMAL file (4E27 generic) to the UPDATE file.

Response: **vcp /dev/1afileX /dev/1afileY >/dev/null STARTED**

**COPY APPFILE COMPLETED**

where  $X = 0$  or  $1$   
 $Y = 1$  or  $0$

6. Were output messages received per the above response within 5 minutes?  
If **Yes**, go to Step 8.  
If **No**, go to Step 7.
7. Contact the next higher support group to determine cause and resolve. Proceed as directed by the next higher support group.

8. 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**

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

## Write 1B Processor 4-mm Backup ODA Tape

1. At 1B Processor MCC terminal, is System Status (108) page displayed?  
If **Yes**, go to Step 3.  
If **No**, go to Step 2.
2. At 1B Processor MCC terminal, enter **108** to obtain the System Status (108) display page.
3. On System Status display page, is **801 - RESTRICT RC** colored black on white?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.
4. 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**
5. Insert blank or eraseable 4-mm tape with write-protect tab in the up (unlocked) position into available 3B APS DAT unit using DLP-501.
6. At 3B APS MCRT, enter message  
**COPY:UPDATE:ODA NORM,MT a!**  
where a = 3B APS DAT unit 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**
7. At 3B APS MCRT, follow the tape writing progress using the printout and the response in Step 6.

8. Was **ODA TAPE WRITTEN** output message received?  
If **Yes**, go to Step 10.  
If **No**, go to Step 9.
9. Contact next higher support group and inform personnel of actions performed and results obtained.
10. Remove the backup ODA tape from 3B APS DAT unit using DLP-504 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 5.
13. Store backup ODA tape(s) per local procedure.
14. Is this backup ODA tape being written as part of Prepare for Update [NTP-005]?  
If **Yes**, go to Step 16.  
If **No**, go to Step 15.
15. 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**
16. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Write 1B Processor 4-mm Backup Generic Tape

1. Insert a blank or erasable 4-mm tape with the write-protect tab in the up (unlocked) position into an available 3B APS DAT unit using DLP-501.
2. At 3B APS MCRT, enter message  
**COPY:UPDATE:GEN NORM,MT a!**  
where a = 3B APS DAT unit 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**

3. At 3B APS MCRT, follow the tape writing progress using the printout and the response in Step 2.
4. Was **GEN TAPE WRITTEN** output message received?  
  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. Contact next higher support group and inform personnel of actions performed and results obtained.
6. Remove the backup generic tape from 3B APS DAT unit using DLP-504 and label per local procedure.

7. Is another backup generic tape required to be written?

If **Yes**, go to Step 8.

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

8. Repeat from Step 1.

9. Store backup generic tapes per local procedure.

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

## Load Library Program Packages From Backup Tape Onto Disk

1. At 1B Processor MTC terminal, enter message  
**OP:LIBSTAT,FS!**
2. Using printout, determine if required library packages are listed.
3. Are required library packages listed?  
If **Yes**, go to Step 15.  
If **No**, go to Step 4.
4. Is 4E27 library tape available?  
If **Yes**, go to Step 6.  
If **No**, go to Step 5.
5. Contact next higher support group to obtain 4E27 library tape. After obtaining a 4E27 library tape, repeat from Step 1.
6. Insert the backup library tape with write-protect tab in down (locked) position into available 3B APS DAT unit using DLP-501.
7. At 3B APS MCRT, enter message  
**VER:UPDATE:TAPE,MT a!**

where a = 3B APS DAT unit number that library tape is inserted (0 or 1)

Response: **TAPE HEADER**  
**TAPE TYPE: LIB**  
**ORIGINAL GENERIC 4E<n> 5A.00 R1**  
**MOST RECENT OFL GENERATION: . . . . .**  
**THIS TAPE WRITTEN: . . . . .**  
**FS IDS: . . . . .**  
**PARTL UPD FLG: . . . . .**

**Note:** In the **ORIGINAL GENERIC** field, the *n* must be the same generic as the generic the office is running on.

8. In **TAPE TYPE** field in the **TAPE HEADER** printout, is **LIB** listed in the response (Step 7)?

If **Yes**, go to Step 9.

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

9. In **ORIGINAL GENERIC** field in the **TAPE HEADER** printout, is proper office generic listed?

If **Yes**, go to Step 11.

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

10. Remove tape using DLP-504, and insert proper library tape using DLP-501, repeat from Step 7.

11. At 1B Processor MTC terminal, enter message

**AUD:LIBSYS,TD a;UCL!**

where a = 3B APS DAT unit number that library tape is inserted (0 or 1)

12. At 1B Processor MTC terminal, follow loading progress using the response below.

Response: **AUD:LIBSYS,TD a;UCL IN PROGRESS**  
**0 ERROR(S) IN CS2FS MAP DETECTED**

**AUD:LIBSYS,TD a;UCL IN PROGRESS**  
**0 ERROR(S) IN ID2SEG MAP DETECTED**

**AUD:LIBSYS,TD a;UCL IN PROGRESS**  
**0 ERROR(S) IN SEGPRTRS MAP DETECTED**

**AUD:LIBSYS,TD a;UCL IN PROGRESS**  
**0 ERROR(S) IN ID2FS MAP DETECTED**

**AUD:LIBSYS,TD a;UCL COMPLETED**

13. When tape loading finishes, is **AUD:LIBSYS,TD a;UCL COMPLETED** message received?

If **Yes**, go to Step 15.

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

14. Determine cause and resolve; repeat from Step 7.

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

## Determine if Office ODA is Available

1. At 3B APS MCRT, enter message  
**OP:STATUS:LISTDIR, FN"/etc/bwm"!**

Response:

```
OP STATUS LISTDIR COMPLETED
```

```
total 2468
```

```
  1 drwxrwxrwx  3 root      128 MAR 10 16:03 .  
  1 drwxr-xr-x  4 root     1024 MAR  3 13:59 ..  
  1 -rw-r--r--  1 root       31 MAR 10 15:58 DLN4E.1.0  
1231 -rw-r--r--  1 root    624178 MAR 10 16:03 DLN4E.1v  
  1 -rw-r--r--  1 root       31 MAR 10 16:03 DLNAP.1.0  
1229 -rw-r--r--  1 root    623252 MAR 10 16:06 DLNAP.1V  
8350 -rw-r--r--  1 root 12423600 MAR 10 16:09 omgroda <--- omgroda File Is Listed  
  2 -rw-rw-rw-  1 root       882 MAR  3 14:14 savegen.log
```

2. Using printout and the response in Step 1, determine if omgroda file is listed.
3. Is omgroda file listed in the printout?  
If **Yes**, go to Step 5.  
If **No**, go to Step 4.
4. Contact next higher support group to get omgroda file for this office downloaded. Proceed as directed by next higher support group.
5. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Record Tape Header Information

1. At 3B APS MCRT, enter message

**VER:UPDATE:TAPE,MT "/etc/bwm/omgroda"!**

Response: **TAPE TYPE: ODA**

**BASE *a a* ~~q~~ CONTROL *b b***

**ORIGINAL GENERIC 4E<G27>.4R**

**MOST RECENT OFL GENERATION: YR 01,MON 10,DAY 05 AT 16:23**

**THIS TAPE WRITTEN: YR 01,MON 11,DAY 09 AT 08:23**

**FS IDS: 000000000001000,TAPE IDS: 0000000011110100**

**PARTL UPD FLG: 0,PHASE REQD: 0001000**

2. Using printout and the response in Step 1, record BASE (*a a* ~~q~~ and CONTROL (*b b*) numbers.
3. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



## Load New ODA on Disk for Generic Retrofit

1. Determine the BASE and CONTROL numbers recorded earlier.

2. At 3B APS MCRT, enter message

**LOAD:UPDATE:CONT "aaaabb",MT "/etc/bwm/omgroda"!**

aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long.

bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long

3. Observe printout and determine if any Table A response was received.

TABLE A	
RESPONSE *	CORRECTIVE ACTION
<b>INVALID TAPE ID - ENTER AGAIN</b>	Repeat from Step 2 with correct BASE and CONTROL numbers.
<b>WRONG GENERIC - CHANGE TAPE AND ENTER AGAIN</b>	Wrong omgroda file is being loaded. Contact next higher support group for resolution.
* TAPE in Response column means omgroda file	

4. Was any response in Table A received?

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

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

5. Using Table A, take corrective action associated with response that was received.

6. At 3B APS MCRT, follow update progress per the response below.

Response: **TAPE HEADER**

•

•

•

**TAPE FILE 10 LOADED TO FS**

•

**TAPE FILE n LOADED TO FS**

**ODA COMPLETE - READY FOR NWM**

7. When ODA loading is finished, was **ODA COMPLETE - READY FOR NWM** message received?  
If **Yes**, go to Step 9.  
If **No**, go to Step 8.
  
8. At 3B APS MCRT, note error printout. Determine cause and resolve. Proceed as directed by next higher support group.
  
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Load New ODA on Disk for ODA Update

1. Determine the BASE and CONTROL numbers recorded earlier.

2. At 3B APS MCRT, enter message

**LOAD:UPDATE:ODA "aaaabb",MT "/etc/bwm/omgroda"!**

aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long.

bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long.

3. Observe printout and determine if any Table A response was received.

TABLE A	
RESPONSE *	CORRECTIVE ACTION
<b>INVALID TAPE ID - ENTER AGAIN</b>	Repeat from Step 2 with correct BASE and CONTROL numbers.
<b>WRONG GENERIC - CHANGE TAPE AND ENTER AGAIN</b>	Wrong omgroda file is being loaded. Contact next higher support group for resolution.
* TAPE in Response column means omgroda file	

4. Was any response in Table A received?

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

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

5. Using Table A take corrective action associated with response that was received.

6. At 3B APS MCRT, follow update progress per the response below.

Response: **TAPE HEADER**

•  
•  
•

**TAPE FILE 10 LOADED TO FS**

•

**TAPE FILE n LOADED TO FS**

**ODA COMPLETE - READY FOR NWM**

7. When ODA loading is finished, was **ODA COMPLETE - READY FOR NWM** message received?  
If **Yes**, go to Step 9.  
If **No**, go to Step 8.
  
8. At 3B APS MCRT, note error printout. Determine cause and resolve. Proceed as directed by next higher support group.
  
9. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

## Remove omgroda File From /etc/bwm Directory

1. At 3B APS MCRT, enter message

**OP:STATUS:LISTDIR, FN"/etc/bwm"**!

Response:

OP STATUS LISTDIR COMPLETED

total 2468

```
 1 drwxrwxrwx  3 root      128 MAR 10 16:03 .
 1 drwxr-xr-x  4 root     1024 MAR  3 13:59 ..
 1 -rw-r--r--  1 root       31 MAR 10 15:58 DLN4E.1.0
1231 -rw-r--r--  1 root    624178 MAR 10 16:03 DLN4E.1v
 1 -rw-r--r--  1 root       31 MAR 10 16:03 DLNAP.1.0
1229 -rw-r--r--  1 root    623252 MAR 10 16:06 DLNAP.1V
8350 -rw-r--r--  1 root  12423600 MAR 10 16:09 omgroda <--- omgroda File Is Listed
 2 -rw-rw-rw-  1 root       882 MAR  3 14:14 savegen.log
```

2. Using the printout and the response in Step 1, determine if omgroda file is listed.

3. Is omgroda file listed?

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

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

4. At 3B APS MCRT, enter message

**CLR:FILESYS:FILE, FN "/etc/bwm/omgroda"**!

5. Was **CLR FILESYS FILE COMPLETED** message received?

If **Yes**, go to Step 7.

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

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

7. Repeat from Step 1.

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



## Update TOSL in the Update File

1. At 3B APS MCRT, enter message **COPY:LSNC TOSL!**
2. At 3B APS MCRT, was a **PF** response received?  
If **Yes**, go to Step 4.  
If **No**, go to Step 3.
3. Determine cause and resolve; repeat from Step 1.
4. At 3B APS MCRT, follow the update progress using the printout and the following response.  
  
Response: **REPT LSNC OPENED /dev/1afileX AS NORMAL AND /dev/1afileY AS UPDATE**  
**REPT LSNC NOR GEN = 26 UPD GEN = 27**  
**REPT LSNC:STARTING TOSL MAPPING**  
**REPT LSNC:LSNC MAPPING COMPLETE**  
  
where  $X = 0$  or  $1$   
 $Y = 1$  or  $0$
5. Using the printout and response in Step 4, was **REPT LSNC:LSNC MAPPING COMPLETE** output message received?  
If **Yes**, go to Step 7.  
If **No**, go to Step 6.
6. At 3B APS MCRT, note the error printout. Determine cause and resolve; repeat from Step 1.
7. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**



### Checklist

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001 NTP-002 NTP-003 NTP-004 NTP-005		DLP-527 DLP-528 DLP-529 DLP-530 DLP-531					
NTP-006 NTP-007 NTP-008 DLP-500 DLP-501		DLP-532 DLP-533 DLP-534 DLP-535 DLP-536					
DLP-502 DLP-503 DLP-504 DLP-505 DLP-506		DLP-537 DLP-538 DLP-539 DLP-540 DLP-541					
DLP-507 DLP-508 DLP-509 DLP-510 DLP-511		DLP-542 DLP-543 DLP-544 DLP-545 DLP-546					
DLP-512 DLP-513 DLP-514 DLP-515 DLP-516							
DLP-517 DLP-518 DLP-519 DLP-520 DLP-521							
DLP-522 DLP-523 DLP-524 DLP-525 DLP-526							

- 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 *Tasks*. It is an alphabetical listing of the jobs that you may have to do. To use an IXL-001 procedure, just find the job you need to do in the **FIND YOUR JOB IN THE LIST BELOW** column. Next, follow the dotted line to the procedure number and begin the task. For example, suppose you are given the job of doing a system test. On the IXL-001 procedure, as shown in Figure 1, notice that it is listed in the **THEN GO TO** column as NTP-016. It could have been any other 3-digit number.

Figure 2 is an example of an NTP (Non-Trouble Procedure). Each NTP provides specific instructions for doing a job. It consists of numbered items (or steps) listed in the order that you must do them to complete your job. To use this procedure, you must start with item 1 in the **DO THE ITEMS BELOW IN ORDER LISTED** column and continue until all items have been done. When you get to an item that you do not know how to do, look for the procedure number for that item under the **FOR DETAILS, GO TO** column. This is the number of the procedure that will give you detailed, step-by-step instructions to do that item. Note that item 2 in Figure 2 uses lettered (A, B) entries. This means that there are alternate ways of doing item 2 depending on equipment options or equipment conditions. You do only the one that fits your equipment options or equipment conditions.

For example, suppose you are doing a System Test. The IXL-001 as shown in Figure 1, has directed you to NTP-016 as shown in Figure 2, and you are on item 8 "Mount Tape" in the **DO THE ITEMS BELOW IN ORDER LISTED** column. Mount the tape if you know how. If you do not know how to mount the tape, go to the procedure number listed in the **FOR DETAILS, GO TO** column for the detailed, step-by-step instructions. In this case, it happens to be DLP-500. In either case, you must continue with the next item listed in NTP-016 until you complete the job.

LT 123-456-789 Issue 2	IXL-001 Page 1 of 2
<b>TASK INDEX LIST</b>	
<b>FIND YOUR JOB IN THE LIST BELOW</b>	<b>THEN GO TO</b>
Alert; External - Horn, Ringer, Etc. - Remove.....	NTP-028
Amplifiers; Channel - Recorded Announcement Frame - Test.....	NTP-009
BRDG LED - Does Not Light - Correct .....	TAP-117
Bridging Controller; Trunk - J1C015MB - Replace .....	DLP-572
Channel Amplifiers - Recorded Announcement Frame - Test.....	NTP-009
Extended Station Capability - Nonkey Set Only - Reported Failure .....	TAP-123
External Alert - Horn, Ringer, Etc. - Remove.....	NTP-028
Interchange Two Working Station Numbers.....	NTP-081
LED: BRDG - Does Not Light - Correct .....	TAP-117
Loudspeaker Paging - Add .....	NTP-059
New International Trunk, R1 Signaling - Incoming - Establish .....	NTP-010
New Tandem Trunk - T-Carrier and Digroup Terminal - Establish	NTP-008
Station Capability; Extended - Nonkey Set Only - Reported Failure .....	TAP-123
System Test - Perform .....	NTP-016
Trunk Bridging Controller - J1C015MB - Replace .....	DLP-572

**Figure 1. Typical List of Jobs You May Have to Do**

LT 123-456-789 Issue 2	NTP-016 Page 1 of 2
<b>PERFORM SYSTEM TEST</b>	
<b>DO THE ITEMS BELOW IN ORDER LISTED</b>	<b>FOR DETAILS, GO TO</b>
1 Test Local Maintenance Terminal	DLP-531
2 Place SEC/SEB in Off-Line Mode	
A. If in On-Line Mode, Change System From On-Line to Off-Line	DLP-509
B. If Powered Down, Condition System for Off-Line Operation as Follows	
1. Power up Minicomputer	DLP-503
2. Power up Line Printer	DLP-503
3. Power up Maintenance Terminal	DLP-510
. . .	
. . .	
. . .	
. . .	
. . .	
. . .	
7 Run Computer Display Terminal Test For All Positions	DLP-513
8 Mount Tape	DLP-500
9 Test Computer Display	DLP-522

**Figure 2. Typical List of Specific Instructions for Doing a Job**

Figure 3 is a typical page of a DLP-500 (Detailed Level Procedure - 500) that gives numbered, step-by-step instructions. To use this procedure, you must start with Step 1 and proceed as directed by the instructions until you complete this procedure. Note that Step 1 of this procedure is preceded by a statement called a SUMMARY. A summary is used as a memory jogger, and briefly tells you how to do the procedure and what measurements or results you can observe. If you can do the procedure after reading the SUMMARY, go ahead and do it without reading any further.

Now, look at Step 6 of DLP-500 as shown in Figure 3. Note that following the action statement there is the sentence, For help see DLP-563. When you see a statement like this, it means that additional step-by-step instructions for doing just that step are given in the referenced procedure. In this case, DLP-563 gives you the details on how to ensure that the write-enable ring is not installed on the file reel. If you, in this case, cannot do Step 6, then go to DLP-563. In either case, you must continue with Step 7 until you have completed the procedure. In some cases, you may be directed to a procedure where the procedure number is preceded by the letters TAP (Trouble Analysis Procedure); for example, TAP-109. This means that you have trouble in the equipment, and in this case TAP-109 will give you step-by-step instructions to fix the trouble. After you have fixed the trouble, you must return to Step 1 of the procedure that sent you to TAP-109. However, if you came directly from IXL-001 to TAP-109, then your job is completed when you have fixed the trouble.

**Admonishments:** Three admonishments are used in this document as follows:

***DANGER: This means there is a possibility of personal injury.***

***Caution: This means there is a possibility of service interruption.***

***WARNING: This means there is a possibility of equipment damage.***

**Important Items:** Table A lists the more important items used in this document.

LT 123-456-789 Issue 2	<b>MOUNT TAPE</b>	DLP-500 Page 1 of 2
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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

<b>Item</b>	<b>Definition</b>
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.