

**Task Oriented Practice  
(TOP)**

*4ESS*<sup>™</sup> SWITCH

4E19 TO 4E20 GENERIC RETROFIT

AND

4E20 ODA UPDATE

**TOP Comments Hot Line:**

**Monday through Friday**

**8:00 a.m. — 4:00 p.m. Eastern Time**

**Call: 1-800-334-0404**

**In North Carolina call: 1-910-727-6681**

**Or FAX to: 1-910-727-3043**

Developed by  
AT&T Network Systems Customer Education & Training

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| <b>234-160-020</b> | <b>TPG</b>      |
| <b>TITLE PAGE</b>  | <b>000</b>      |

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# FIND YOUR JOB IN THE LIST BELOW . . . . . THEN GO TO

Acceptance . . . . . NTP-002

**NOTE:** The tasks listed below for 4E19 to 4E20 Generic Retrofit or 4E20 ODA Update, must be performed at the interval with respect to retrofit or update date

## 4E19 TO 4E20 GENERIC RETROFIT (AT&T Office Only)

- 3 DAY TASKS:**  
 Arrange for AMA Data Collection and Check Scans for Generic Overwrites . . . . . NTP-003
- 2 DAY TASK:**  
 Test Retrofit Process . . . . . NTP-004
- EVENING OF RETROFIT:**  
 Prepare for Retrofit . . . . . NTP-005
- RETROFIT:**  
 Perform Generic Retrofit . . . . . NTP-006

## 4E20 ODA UPDATE (AT&T Office Only)

- 3 DAY TASKS:**  
 Arrange for AMA Data Collection and Check SCANS for Generic Overwrites . . . . . NTP-003
- 2 DAY TASK:**  
 Test ODA Update Process . . . . . NTP-007
- EVENING OF UPDATE:**  
 Prepare For Update . . . . . NTP-005
- ODA UPDATE:**  
 Perform ODA Update . . . . . NTP-006

# FIND YOUR JOB IN THE LIST BELOW . . . . . THEN GO TO

## 4E19 TO 4E20 GENERIC RETROFIT (LEC Office Only)

### -3 DAY TASKS:

Arrange for AMA Data Collection and Check Scans for Generic Overwrites . . . . . NTP-003

### -2 DAY TASK:

Test Retrofit Process . . . . . NTP-004

### EVENING OF RETROFIT:

Prepare for Retrofit . . . . . NTP-005

### RETROFIT:

Perform Generic Retrofit . . . . . NTP-008

## 4E20 ODA UPDATE (LEC Office Only)

### -3 DAY TASKS:

Arrange for AMA Data Collection and Check SCANS for Generic Overwrites . . . . . NTP-003

### -2 DAY TASK:

Test ODA Update Process . . . . . NTP-007

### EVENING OF UPDATE:

Prepare For Update . . . . . NTP-005

### ODA UPDATE:

Perform ODA Update . . . . . NTP-008

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

**ACCEPTANCE**

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

|   |                                                                                                                                                                                                                                                                                                                             |   | DATE | TIME | SIGNATURE |
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| 1 | Notify AMA Control Center and/or Revenue Accounting Office (RAO), Whichever Processes AMA Data, of Expected Date and Time of Generic Retrofit or ODA Update                                                                                                                                                                 | — |      |      |           |
| 2 | If AMA Data Is Written to Tape                                                                                                                                                                                                                                                                                              |   |      |      |           |
|   | 1. Notify Billing Center That an AMA Tape Will Be Written Just Prior to Generic Retrofit or ODA Update, Plus Regularly Scheduled AMA Tape                                                                                                                                                                                   | — |      |      |           |
|   | 2. If Necessary, Arrange for Special Handling of These Tapes                                                                                                                                                                                                                                                                | — |      |      |           |
|   | 3. If Necessary, Obtain AMA Tapes From Billing Center                                                                                                                                                                                                                                                                       | — |      |      |           |
| 3 | If Teleprocessing Is Used for AMA Data                                                                                                                                                                                                                                                                                      |   |      |      |           |
|   | 1. Arrange for Special Teleprocessing Session To Be Completed Just Prior To Performing Generic Retrofit or ODA Update                                                                                                                                                                                                       | — |      |      |           |
|   | 2. If Special Teleprocessing Session Is Not Possible, Arrange for Processing AMA Tape Which Will Be Written Just Prior to Generic Retrofit or ODA Update                                                                                                                                                                    | — |      |      |           |
|   | 3. If Necessary, Obtain AMA Tapes From Billing Center                                                                                                                                                                                                                                                                       | — |      |      |           |
|   | <b>Note:</b> AMA data should be saved via tape or teleprocessing to provide AMA processing centers with a known starting point for 4E20 data. Processing centers will verify the new AMA data on first business day following retrofit or update, so that any problems with new data can be quickly identified and resolved |   |      |      |           |
| 4 | Check BWMs for Current 4E20 Generic Overwrites and if 4E20 Generic Overwrites Are Required, Save Per Local Practice. These Overwrites Will Be Inserted Into System After Office Is Running Successfully on 4E20 Generic                                                                                                     | — |      |      |           |
|   |                                                                                                                                                                                                                                                                                                                             |   |      |      |           |

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| 1  | <b>Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required</b>                                              | —       |      |      |           |
| 2  | If AT&T Office Is Being Retrofitted, Contact Office Being Retrofitted and Verify That Conflicting Activities Are Not Scheduled                                         | —       |      |      |           |
| 3  | If Current Office Generic Has Not Been Written to Tape (800 BPI), Write Backup Generic Tape                                                                            |         |      |      |           |
|    | A. If Data Base Is To Be Loaded by Tape                                                                                                                                | DLP-500 |      |      |           |
|    | B. If Data Base Has Been Loaded by Off-Line Processor                                                                                                                  | DLP-503 |      |      |           |
| 4  | At 3B MCRT, if Screen Displays EAI Page, Depress <b>NORM/DISP (PF2)</b> Key                                                                                            | —       |      |      |           |
| 5  | Enter 101 in Command Mode To Obtain Display Page 101                                                                                                                   | —       |      |      |           |
| 6  | Depress <b>CMD/MSG (PF3)</b> Key To Move Cursor to Bottom of Screen                                                                                                    | —       |      |      |           |
| 7  | If Data Base Has Been Loaded by Off-Line Processor, At 3B MCRT, Verify Data Base To Ensure Generic Is 4E<20>4x.yy Ra and Proper Office Name Is Listed (OP:APLOAD UPD!) | DLP-504 |      |      |           |
| 8  | If Data Base Is To Be Loaded by Tape, Perform Items 9 Through 30; Otherwise, Go to Item 31                                                                             | —       |      |      |           |
| 9  | Obtain Following New 1600-BPI Tapes Associated With Retrofit <ul style="list-style-type: none"> <li>• Generic Tape</li> <li>• ODA</li> <li>• NWM</li> </ul>            | —       |      |      |           |
| 10 | If Test Retrofit Process Is Expected To Last Through Midnight                                                                                                          |         |      |      |           |
|    | 1. At 3B MCRT, Enter Message <b>INH:DMQ;SRC REX!</b> To Inhibit REX                                                                                                    | —       |      |      |           |
|    | 2. At 1B MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX                                                                                   | —       |      |      |           |
| 11 | Mount New Generic and ODA Tapes for Disk Update                                                                                                                        |         |      |      |           |
|    | A. If Two Idle 3B Tape Units Are Available for Update                                                                                                                  |         |      |      |           |
|    | 1. Verify That Tape Identification Data Is Correct for 4E20 Generic Tape (Step 9)                                                                                      | —       |      |      |           |

**TEST RETROFIT PROCESS**

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

|               |                                                                                                                                                                                                                                                                        |         | DATE | TIME | SIGNATURE |
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| 11<br>(Contd) | 2. Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E20 ODA Tape (Step 7)                                                                                                                                                  | —       |      |      |           |
|               | 3. Mount Generic Tape on MT 0 and ODA Tape on MT 1                                                                                                                                                                                                                     | DLP-505 |      |      |           |
|               | 4. At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT 0! and Record Generic Identification Number (4E<20>4x.yy Ra) for Later Use in LOAD Message                                                                                                                             | DLP-506 |      |      |           |
|               | 5. Enter Message VER:UPDATE:TAPE,MT 1! and Record BASE and CONTROL Numbers for Later Use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office                                                                                             | DLP-506 |      |      |           |
|               | B. If Only One 3B Tape Unit Is Available for Update                                                                                                                                                                                                                    |         |      |      |           |
|               | 1. Verify That Tape Identification Data Is Correct for 4E20 Generic Tape (Step 9)                                                                                                                                                                                      | —       |      |      |           |
|               | 2. At Idle Tape Unit, Mount Generic Tape                                                                                                                                                                                                                               | DLP-505 |      |      |           |
|               | 3. At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT a! (a = Tape Unit Number) and Record Generic Identification Number (4E<20>4x.yy Ra) for Later Use                                                                                                                      | DLP-506 |      |      |           |
| 12            | Load New Generic on Disk (LOAD:UPDATE:GEN "4E<20>4x.yy Ra",MT a!)                                                                                                                                                                                                      | DLP-507 |      |      |           |
|               | <i>Caution: When GENERIC COMPLETE - READY FOR ODA output message is received, update program enters 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> |         |      |      |           |
| 13            | If Loading of Generic Tape Was Successful, Go to Item 14. If It Was Aborted, Perform Items 21 Through 23                                                                                                                                                               | —       |      |      |           |
| 14            | If ODA Tape Was Not Mounted in Item 10, Perform Items 15 Through 18; Otherwise, Go to Item 19                                                                                                                                                                          | —       |      |      |           |
| 15            | At Tape Unit Containing Generic Tape, Demount Tape After Tape Rewinds                                                                                                                                                                                                  | DLP-508 |      |      |           |
| 16            | Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E20 ODA Tape (Step 9)                                                                                                                                                     | —       |      |      |           |
| 17            | At Tape Unit Just Idled, Mount ODA Tape                                                                                                                                                                                                                                | DLP-505 |      |      |           |

**TEST RETROFIT PROCESS**

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

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | DATE | TIME | SIGNATURE |
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| 18 | At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT a! (a = Tape Unit Number) and Record BASE and CONTROL Numbers for Later Use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office                                                                                                                                                                                                                                  | DLP-506 |      |      |           |
| 19 | Load New ODA on Disk (LOAD:UPDATE:CONT "aaaabb",MT c!)                                                                                                                                                                                                                                                                                                                                                                                      | DLP-509 |      |      |           |
|    | <i>Caution: When ODA COMPLETE - READY FOR NWM output message is received, update program enters 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>                                                                                                                                                           |         |      |      |           |
| 20 | If ODA Tape Load Was Successful, Go to Item 24. If It Was Aborted, Perform Items 21 Through 23                                                                                                                                                                                                                                                                                                                                              | —       |      |      |           |
| 21 | At Tape Unit Containing Tape That Failed, Demount Tape After Tape Rewinds                                                                                                                                                                                                                                                                                                                                                                   | DLP-508 |      |      |           |
| 22 | At 3B MCRT, Enter Message OP:00S! and Ensure That All Units Are in Service                                                                                                                                                                                                                                                                                                                                                                  | DLP-510 |      |      |           |
| 23 | Repeat From Item 11 Using Another Copy of Tape That Failed                                                                                                                                                                                                                                                                                                                                                                                  | —       |      |      |           |
| 24 | Demount Tape on Idle Tape Unit                                                                                                                                                                                                                                                                                                                                                                                                              | DLP-508 |      |      |           |
| 25 | Mount New Network Management Tape on Tape Unit and Verify That Tape Identification Is Correct for 4E20 Update (VER:UPDATE:TAPE,MT a!)<br>a = Tape Unit Number                                                                                                                                                                                                                                                                               | DLP-511 |      |      |           |
| 26 | Load New Network Management on Disk and Complete Data Base (LOAD:UPDATE:CONT NWM,MT a!)                                                                                                                                                                                                                                                                                                                                                     | DLP-512 |      |      |           |
|    | <b>Notes:</b> 1. After receiving MAPPING DYNAMIC DATA FROM NORMAL FILE output message, WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR may be received. Mapping dynamic data cannot cross 15-minute time boundary due to long-term storage data mutilation. System will automatically map dynamic data when in proper window<br>2. After receiving DATABASE COMPLETE — READY FOR GENERIC RETROFIT output message, loading process is complete |         |      |      |           |
| 27 | If Loading of Network Management Tape Was Successful, Go to Item 31. If It Was Aborted, Perform Items 28 Through 30                                                                                                                                                                                                                                                                                                                         | —       |      |      |           |
| 28 | Demount Network Management Tape From Tape Unit                                                                                                                                                                                                                                                                                                                                                                                              | DLP-508 |      |      |           |

**TEST RETROFIT PROCESS**

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

|    |                                                                                                                                                                                                                                    |         | DATE | TIME | SIGNATURE |
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| 29 | At 3B MCRT, Enter Message OP:00S! and Ensure That All Units Are in Service                                                                                                                                                         | DLP-510 |      |      |           |
| 30 | Repeat From Item 11                                                                                                                                                                                                                | —       |      |      |           |
| 31 | At 3B MCRT, Enter Message COPY:LSNC ALL! To Rebuild Large Scale Nailup Connections and Update TOSL in UPDATE File; Ensure REPT LSNC: LSNC MAPPING COMPLETE Message Is Received                                                     | —       |      |      |           |
| 32 | After VER Message Has Been Entered (Item 33) and If No Critical Overwrites Are Required (Item 34), Procedure Can Be Continued At Item 35 Without Waiting for Verify To Complete. Printout Must Be Observed Periodically for Errors | —       |      |      |           |
| 33 | At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFILE UPD!)                                                                                                                                                             | DLP-513 |      |      |           |
| 34 | If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites                                                                                                                   | DLP-514 |      |      |           |
| 35 | Compare Critical Data in New ODA With Data in Active System by Performing Items 36 and 37                                                                                                                                          | —       |      |      |           |
| 36 | Run Cross Translations Compare Program                                                                                                                                                                                             | DLP-515 |      |      |           |
| 37 | Analyze, With Help From Support Organization, Results of Compare for Unexpected Mismatches                                                                                                                                         | —       |      |      |           |
| 38 | If Compare Did Not Find Unexpected Mismatches, Go to Item 40                                                                                                                                                                       | —       |      |      |           |
| 39 | If Compare Found Unexpected Mismatches Between New ODA and Data in 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 34                                                                                                          | —       |      |      |           |
|    | B. If It Is Determined That Corrections Cannot Be Made Within the Hour, Await Further Instructions Before Proceeding                                                                                                               | —       |      |      |           |
| 40 | If Data Base Was Loaded by Tape, Perform Items 41 Through 43; Otherwise, Go to Item 45                                                                                                                                             | —       |      |      |           |
| 41 | Demount Tape(s) From Tape Unit(s)                                                                                                                                                                                                  | DLP-508 |      |      |           |

**TEST RETROFIT PROCESS**

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|    |                                                                                                                                                                                               |   | DATE | TIME | SIGNATURE |
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| 42 | If REX Was Inhibited in Item 9                                                                                                                                                                |   |      |      |           |
|    | 1. At 1B MTC Terminal, Enter Message <code>ALW:MACLI,CLASS MTCE!</code> To Allow REX                                                                                                          | — |      |      |           |
|    | 2. At 3B MCRT, Enter Message <code>ALW:DMQ;SRC REX!</code> To Allow REX                                                                                                                       | — |      |      |           |
| 43 | Obtain List of All Trunks Added During Quiet Period From TOC. These Trunks Will Be Set to CAD.DSA State During "Prepare for Update" Procedure                                                 | — |      |      |           |
| 44 | End of Procedure                                                                                                                                                                              | — |      |      |           |
| 45 | Obtain List of All Trunks Added Since Off-Line Processor Recent Change Update (if Any) From NSC Provisioning. These Trunks Will Be Set to CAD.DSA State During "Prepare for Update" Procedure | — |      |      |           |
|    |                                                                                                                                                                                               |   |      |      |           |

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| 1  | <b>Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required</b>                                                          | —       |      |      |           |
| 2  | Obtain Most Recent Records of Office Performance Data; Organize for Orderly Post Update Comparison                                                                                 | —       |      |      |           |
| 3  | At 1B MTC Terminal, Enter Message <b>OP:00SUNITS!</b> and Ensure That Required Units Are in Service                                                                                | DLP-516 |      |      |           |
| 4  | At 3B MCRT, Enter Message <b>OP:00S!</b> and Ensure That Required 3B Computer Units Are in Service                                                                                 | DLP-510 |      |      |           |
| 5  | At 1B Processor MCC Terminal, Enter <b>108</b> To Obtain 108 Page                                                                                                                  | —       |      |      |           |
| 6  | Enter <b>801</b> (RESTRICT RC) (801 - RESTRICT RC Colored Black On White)                                                                                                          | —       |      |      |           |
|    | <b>NOTE:</b> For AT&T offices, Items 7 through 13 are to be performed on-site                                                                                                      |         |      |      |           |
|    | <i>Caution: DO NOT enter COPY:APPPFILE NORM message after ODA tape has been written</i>                                                                                            |         |      |      |           |
| 7  | Write Backup ODA Tape (800-BPI Tape)                                                                                                                                               | DLP-517 |      |      |           |
| 8  | If Office Is Covered by Operation Support System, Request Appropriate Support Organization To Convert Recent Change Data Bases for Monitor Channel and Operation Support System    | —       |      |      |           |
|    | <b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour                                                       |         |      |      |           |
| 9  | Write Backup Long-Term Storage (LTS) Tape                                                                                                                                          | DLP-518 |      |      |           |
| 10 | Notify Network Manager To Obtain Hard Copy of All Network Management Display System (NMDS) PA Pages Since Controls Associated With These Pages Will Be Lost Concurrent With Update | —       |      |      |           |
| 11 | Write Backup Traffic and Plant Measurement (TPM) Tape                                                                                                                              | DLP-519 |      |      |           |
| 12 | Write Backup Trunk Out-of-Service List (TOSL) Tape                                                                                                                                 | DLP-520 |      |      |           |
| 13 | Save Tapes Just Written Until New Data Base Is Finally Committed                                                                                                                   | —       |      |      |           |
|    | (Continued on Page 2)                                                                                                                                                              |         |      |      |           |

**PREPARE FOR UPDATE**

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

|    |                                                                                                                                                                                                                   |         | DATE | TIME | SIGNATURE |
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| 14 | Perform Item 14.A or 14.B per Local Practice To Obtain Trunk Subgroup Maintenance Status. Save Printout for Trunk Circuit Recovery Verification After Running on New Generic and/or ODA                           |         |      |      |           |
|    | A. At 1B Terminal, Enter Message <b>OP:TSGSTAT;DETL:ALL!</b>                                                                                                                                                      | —       |      |      |           |
|    | B. At 1B Terminal, Enter Message <b>OP:TSGSTAT;DETL:TCA a!</b><br>a = Number for Each Assigned Trunk Control Area                                                                                                 | —       |      |      |           |
| 15 | At 1B Terminal, Enter Message <b>OP:TANTOTAN!</b> To Obtain Listing of All Active TAN-to-TAN Connections. Save Printout To Verify That Connections Are Still Up After Office Is Running on New Generic and/or ODA | —       |      |      |           |
| 16 | Enter Message <b>VER:NAILUP;ALL!</b> To Obtain Listing of All Active Large Scale Nailup Connections. Save Printout To Verify That Connections Are Still Up After Office Is Running on New Generic and/or ODA      | —       |      |      |           |
| 17 | Run CC Diagnostic Phase 95                                                                                                                                                                                        | DLP-521 |      |      |           |
| 18 | Restore Standby CC to Service ( <b>RST:CC a!</b> )                                                                                                                                                                | —       |      |      |           |
| 19 | Switch CCs ( <b>SW:CC!</b> )                                                                                                                                                                                      | —       |      |      |           |
| 20 | Run CC Diagnostic Phase 95                                                                                                                                                                                        | DLP-521 |      |      |           |
| 21 | Restore Standby CC to Service ( <b>RST:CC a!</b> )                                                                                                                                                                | —       |      |      |           |
| 22 | If Office Is Set Up for AMA Recording, Save Primary IC and/or OC AMA Data and/or ICDR. This Must Be Scheduled To Be Completed Within 2 Hours Prior to Update                                                      |         |      |      |           |
|    | A. For Offices Which Write AMA Tapes                                                                                                                                                                              | DLP-522 |      |      |           |
|    | B. For Offices Which Do AMA Teleprocessing                                                                                                                                                                        |         |      |      |           |
|    | 1. At 3B MCRT ROP, Review Printouts To Determine If AMA Teleprocessing Session Is in Progress or If AMA Session Has Completed Within Past 2 Hours                                                                 | —       |      |      |           |
|    | 2. If Session Is in Progress, Wait Until Session Terminates                                                                                                                                                       | —       |      |      |           |
|    | (Continued on Page 3)                                                                                                                                                                                             |         |      |      |           |

**PREPARE FOR UPDATE**

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

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| 22<br>(Contd) | 3. Ensure That <b>NORMAL TERMINATION – NO MORE DATA</b> Message Was Received on Session Summary Printout for Each AMA Stream Set to Teleprocessing                                                                                                                                                                                                                                   | —       |      |      |           |
|               | 4. If AMA Session Has Not Completed Within Last 2 Hours, Perform Items 22.B.5 Through 22.B.8; Otherwise, Go to Item 23                                                                                                                                                                                                                                                               | —       |      |      |           |
|               | 5. At 3B MCRT, Enter Message <b>OP:AMA;CONTROLFILE!</b> and Save Printout for Later Reference in Setting Control File Back to Normal                                                                                                                                                                                                                                                 | —       |      |      |           |
|               | 6. Enter Message <b>SET:AMA;CONTROL;a:OPTION TAPE [,TAPEID "b"]!</b><br>(a = IC or OC and b = Tape Data Set ID, As Required) for Each Stream Set to Teleprocessing                                                                                                                                                                                                                   | —       |      |      |           |
|               | 7. Save Primary AMA Data on Tape                                                                                                                                                                                                                                                                                                                                                     | DLP-522 |      |      |           |
|               | 8. At 3B MCRT, Enter Message <b>SET:AMA;CONTROL;a:OPTION TP!</b> (a = IC or OC) To Set AMA Control File Back to Teleprocessing                                                                                                                                                                                                                                                       | —       |      |      |           |
|               | C. For Offices Which Do AMA Constant Polling, Notify National AMA Control Center                                                                                                                                                                                                                                                                                                     | —       |      |      |           |
|               | D. For Offices Which Do ICDR, Notify AMA Center                                                                                                                                                                                                                                                                                                                                      | —       |      |      |           |
| 23            | Request Appropriate Support Organization (NSC Provisioning or TOC) to Set All Trunks That Have Been Added During Quiet Period or Since Off-Line Processor Recent Change Update (if any) to CAD.DSA State Before Performing Update                                                                                                                                                    | —       |      |      |           |
| 24            | Obtain 4E20 Informational BWM Concerning Incident Data Set Overwrites From SCANS. Overwrites Are To Be Applied After System Is Running on 4E20 Generic                                                                                                                                                                                                                               | —       |      |      |           |
| 25            | At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106                                                                                                                                                                                                                                                                            | —       |      |      |           |
| 26            | Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Node                                                                                                                                                                                                                                                                           | —       |      |      |           |
| 27            | Enter 1107 in Command Mode To Obtain Display Page 1107                                                                                                                                                                                                                                                                                                                               | —       |      |      |           |
| 28            | 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> | —       |      |      |           |

**PREPARE FOR UPDATE**

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

|    |                                                                                                                                                                           |         | DATE | TIME | SIGNATURE |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-----------|
| 29 | Enter 1108 in Command Mode To Obtain Display Page 1108                                                                                                                    | —       |      |      |           |
| 30 | Ensure LINK STATE Is AVL/IS and NODE STATE Is ACT for Each Equipped Signaling Link                                                                                        | —       |      |      |           |
| 31 | Ensure In Progress CNI Ring Growth Has Been Completed. If Growth Has Not Been Completed, Contact Appropriate Support Organization To Determine if Update Can Be Performed | —       |      |      |           |
| 32 | Verify No Audits Inhibited. If Audits Are Inhibited, Take Corrective Action As Determined by Appropriate Support Organization                                             | DLP-524 |      |      |           |
| 33 | At 1B MTC Terminal, Enter Message OP:SVCSTAT! and Save Printout For Later Use After Running on New Generic and/or ODA                                                     | —       |      |      |           |
| 34 | At 1B Processor MCC Terminal, Enter 813 On 108 Page and Verify There Is No Service Degrading Condition. If There Is, Contact Next Higher Technical Support Group          | —       |      |      |           |
|    |                                                                                                                                                                           |         |      |      |           |

**PREPARE FOR UPDATE**

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

|    |                                                                                                                                                                                  | RESPONSIBILITY |         |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|
|    | <b>NOTE:</b> In Responsibility column, TCC is Technology Control Center and OSWF is on-site workforce - office technician                                                        |                |         |
| 1  | Place Check Mark Beside Item or Subitem When Completed, or If Not Required                                                                                                       | TCC/OSWF       | —       |
| 2  | Before Starting, Review and Become Familiar With DLP-528                                                                                                                         | TCC/OSWF       | —       |
| 3  | At 1B MTC Terminal, Enter Message <code>INH:MACLI,CLASS MTCE;REX!</code> To Inhibit REX                                                                                          | TCC            | —       |
| 4  | Enter Message <code>OP:TSGSTAT;SUM:ALL!</code> To Obtain Trunk Subgroup Status Summary; Save Printout in a File for Trunk Circuit Recovery Verification                          | TCC            | —       |
| 5  | Enter Message <code>OP:00SUNITS!</code> and Ensure That Required Units Are in Service                                                                                            | TCC            | DLP-516 |
| 6  | At 3B MCRT, Enter Message <code>INH:DMQ;SRC REX!</code> To Inhibit REX                                                                                                           | TCC            | —       |
| 7  | Enter Message <code>OP:00S!</code> and Ensure That Required 3B Computer Units Are in Service                                                                                     | TCC            | DLP-510 |
| 8  | Verify Data Base To Ensure That Generic Is <b>4E&lt;20&gt;4x.yy Ra</b> and Proper Office Is Listed ( <code>OP:APpload UPD!</code> )                                              | TCC            | DLP-525 |
| 9  | If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites                                                                 | TCC            | DLP-514 |
|    | <b>NOTE:</b> If schedules that are entered by <code>SCHED:MEAS</code> input message are to be retained for update, include <code>MEAS</code> option in <code>LOAD</code> message |                |         |
| 10 | Map Dynamic Data From NORMAL File to UPDATE File ( <code>LOAD:UPDATE:MAP[,MEAS]!</code> )                                                                                        | TCC            | DLP-526 |
| 11 | At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors ( <code>VER:APPFILE UPD!</code> )                                                                                            | TCC            | DLP-513 |
| 12 | Enter Message <code>COPY:LSNC TOSL!</code> To Update TOSL in UPDATE File; Ensure <code>REPT LSNC: LSNC MAPPING COMPLETE</code> Message Is Received                               | TCC            | —       |
| 13 | Do NOT Proceed Until Instructed by NOC. Safe Point to Temporarily Stop This Procedure                                                                                            | TCC            | —       |
| 14 | Prepare 1B Processor MCC Terminal for Manual Recovery                                                                                                                            | TCC            | DLP-527 |
| 15 | Manually Update 1B Processor                                                                                                                                                     | TCC            | DLP-528 |
| 16 | If Attempt To Configure to New System Was Successful, Go to Item 21. If Unsuccessful, Perform Items 17 Through 20 Because System Is Returned to 4E19 Data Base                   | TCC            | —       |
|    | (Continued on Page 2)                                                                                                                                                            |                |         |

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

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| 17 | <b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E19 OCCURRED.</b> At 1B MTC Terminal, Enter Message<br>UPD:COMMIT;NORMFILE!                                                                                                                                                | TCC | —       |
| 18 | At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress <b>EA DISP</b> Key                                                                                                                                                                               | TCC | —       |
| 19 | Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why<br>Update Failed                                                                                                                                                              | TCC | —       |
| 20 | After Consulting With Support Organization, Select Option A or B and Proceed as Directed                                                                                                                                                                             | TCC | —       |
|    | A. If Update Is To Be Discontinued, End of Procedure. Ensure System Is Operating<br>Properly and Restore All Out-of-Service Equipment                                                                                                                                | TCC | —       |
|    | B. If Update Is To Be Continued, Proceed as Directed by Next Higher Technical<br>Support Group                                                                                                                                                                       | TCC | —       |
| 21 | <b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> Perform Items 22 Through 26 To Restore<br>1B Processor Complex Units                                                                                                                                        | TCC | —       |
| 22 | At 1B MTC Terminal, Enter Message OP:MACLI,CLASS MTCE!                                                                                                                                                                                                               | TCC | —       |
| 23 | If 1B Processor Complex Unit(s) Is Listed in Printout, Go to Item 26; Otherwise, Perform<br>Items 24 Through 26                                                                                                                                                      | TCC | —       |
| 24 | At 1B MTC Terminal, Enter Message OP:OOSUNITS!                                                                                                                                                                                                                       | TCC | —       |
|    | <b>NOTE:</b> IFB must be restored before restoring MUP, AUI, or SSD                                                                                                                                                                                                  |     |         |
| 25 | If 1B Processor Complex Unit(s) Is Listed in Printout, Enter Restore Message To Restore<br>Each Unit Listed                                                                                                                                                          | TCC | —       |
|    | <b>NOTE:</b> It is important to get 1B Processor units restored to service as soon as possible<br>while the remainder of the retrofit procedure is being performed                                                                                                   | TCC | —       |
| 26 | Periodically Repeat From Item 22 While Continuing To Perform Succeeding Steps in This<br>NTP Until 1B Processor Complex Units Are Removed                                                                                                                            | TCC | —       |
| 27 | Verify Direct Link Nodes Were Pumped From Proper 1AFILE                                                                                                                                                                                                              | TCC | DLP-530 |
| 28 | If Loaded Network Management Has Different Issue From Previous Network Management, Look<br>Back in Printout for "OSOR BURST" Page. At Bottom of BURST Page, Ensure That <b>OSOR SCHEDULES</b><br>Are <b>NOT CHANGED</b> and <b>COUNT DATA BASE</b> Is <b>UPDATED</b> | TCC | —       |
|    | (Continued on Page 3)                                                                                                                                                                                                                                                |     |         |

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

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| 29 | When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock                                                                                                                                                                                                                                                                  | TCC  | DLP-531 |
| 30 | If New Data Base Was Loaded by Tape, Set Up MC 3, MC 4, and/or MC 8 Schedule(s). At 1B Terminal, Enter Message <b>SCHED:TDASMC a;ADD:MSC bb!</b> for Each Schedule To Be Set Up (Contact Next Higher Technical Support Group for a and bb Variables)                                                                                                                                              | TCC  | —       |
| 31 | At 1B MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX                                                                                                                                                                                                                                                                                                                 | TCC  | —       |
| 32 | Enter Message <b>OP:SVCSTAT!</b> and Observe Printout for Any Service Circuits That Are Not New DTMF Transmitters or Receivers or Part of Hardware Rearrange Associated With Update. Compare Printout With Printout Saved in NTP-005, Item 34. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Technical Support Group for Resolution | TCC  | —       |
| 33 | If Any Active TAN-to-TAN Connections Existed Prior to Update, at 1B 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 15)                                                                                                                                         | TCC  | —       |
| 34 | If Any Active Large-Scale Nailup Connections Existed Prior to Update, at 1B 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 16)                                                                                                                      | TCC  | —       |
| 35 | Run Audits 43, 44, and 45 (Items 36 Through 39)                                                                                                                                                                                                                                                                                                                                                   | TCC  | —       |
| 36 | At 1B MTC Terminal, Enter Message <b>AUD:NUM (43,44,45)!</b>                                                                                                                                                                                                                                                                                                                                      | TCC  | —       |
| 37 | While Audits Are Running, Continue To Perform Succeeding Items                                                                                                                                                                                                                                                                                                                                    | TCC  | —       |
| 38 | If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action                                                                                                                                                                                                                                                       | TCC  | —       |
| 39 | During Execution of Audit 43, Scan Output Messages Periodically for Abort Message                                                                                                                                                                                                                                                                                                                 | TCC  | —       |
| 40 | Place TLP Tape in Service                                                                                                                                                                                                                                                                                                                                                                         | OSWF | DLP-532 |
| 41 | At 1B MTC Terminal, Restore Out-of-Service Units                                                                                                                                                                                                                                                                                                                                                  | TCC  | DLP-533 |
| 42 | At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106                                                                                                                                                                                                                                                                                         | TCC  | —       |
|    | (Continued on Page 4)                                                                                                                                                                                                                                                                                                                                                                             |      |         |

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

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| 43 | 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                                                                                                                                                                                                                                                                        | TCC  | —       |
| 44 | Enter 1107 in Command Mode To Obtain Display Page 1107                                                                                                                                                                                                                                                                                                                                 | TCC  | —       |
| 45 | 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> . | TCC  | —       |
| 46 | Enter 1108 in Command Mode To Obtain Display Page 1108                                                                                                                                                                                                                                                                                                                                 | TCC  | —       |
| 47 | 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                                                                                                                                                                                                                                                      | TCC  | —       |
| 48 | At 1B MTC Terminal, Enter Message <b>OP:MSGRCDF,FS!</b> To Clear Recorded Message Area on Disk                                                                                                                                                                                                                                                                                         | TCC  | —       |
| 49 | At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, As Required                                                                                                                                                                                                                                                                                                      | TCC  | DLP-534 |
| 50 | At 1B MTC Terminal, Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary. Compare Printout With Printout Saved in Item 6                                                                                                                                                                                                                                   | TCC  | —       |
| 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                                                                                                                                                        | TCC  | —       |
| 52 | Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position                                                                                                                                                                                                                                                              | TCC  | —       |
| 53 | Notify Network Management Center To Begin Checkout of Network Management System                                                                                                                                                                                                                                                                                                        | TCC  | DLP-535 |
| 54 | Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results                                                                                                                                                                                                                                        | TCC  | —       |
| 55 | Compare Count of Ineffective Machine Attempts With Preupdate Level                                                                                                                                                                                                                                                                                                                     | TCC  | —       |
| 56 | Determine That Manually Placed Calls and System Placed Test Calls Complete Successfully                                                                                                                                                                                                                                                                                                | OSWF | —       |
| 57 | At 1B MTC Terminal, Enter Message <b>INIT:PUXINIT!</b>                                                                                                                                                                                                                                                                                                                                 | TCC  | —       |
| 58 | If Security Call Traps Existed Prior to Update, Request Network Management To Enter Security Call Traps per Local Practice                                                                                                                                                                                                                                                             | TCC  | —       |
|    | (Continued on Page 5)                                                                                                                                                                                                                                                                                                                                                                  |      |         |

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

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|    | <b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour                                                                 |      |         |
| 59 | Write Backup Long-Term Storage (LTS) Tape                                                                                                                                                    | OSWF | DLP-518 |
| 60 | Load Library Package(s) That Is Required for Normal Local Use (if Not Loaded) and Library Package <b>LG20RCUA</b> , if Necessary for Recent Change Update Using New 4E20 Office Library Tape | OSWF | DLP-536 |
| 61 | At 1B Processor MCC Terminal, Enter <b>108</b> To Obtain System Status Page (108)                                                                                                            | TCC  | —       |
| 62 | If <b>801 - RESTRICT RC</b> Is Colored Black on White, Enter 801                                                                                                                             | TCC  | —       |
| 63 | Reenter Recent Change Data                                                                                                                                                                   |      |         |
|    | A. If Reentering Recent Change Data at Office, Reenter Per Local Practice                                                                                                                    | OSWF | —       |
|    | B. Request MAC To Enter New Recent Change Data, As Required, Into System                                                                                                                     | OSWF | —       |
|    | C. Request Operation Support System To Enter New Recent Changes, As Required, Into System                                                                                                    | TCC  | —       |
|    | 1. Notify CMAC To Perform Update                                                                                                                                                             | TCC  | —       |
|    | 2. Wait Until Update Is Complete Before Continuing                                                                                                                                           | TCC  | —       |
|    | 3. Notify IRAS To Update Office Data Base. Request IRAS To Notify TCC When Data Base Is Complete                                                                                             | TCC  | —       |
|    | 4. Do Not Write Any Backup Tapes Until IRAS Completes Update                                                                                                                                 | OSWF | —       |
|    | 5. Notify Network Management Center To Complete Network Management System Checkout                                                                                                           | TCC  | DLP-537 |
| 64 | Write Backup 1B Processor ODA Tapes (800 BPI)                                                                                                                                                | OSWF | DLP-517 |
| 65 | Write Updated Traffic and Plant Measurement (TPM) Schedule Tape                                                                                                                              | OSWF | DLP-519 |
| 66 | If Any 4E20 Overwrites Are To Be Installed, Install Per Local Practice                                                                                                                       | TCC  | —       |
| 67 | Write 1B Processor Generic Tapes (800 BPI)                                                                                                                                                   | OSWF | DLP-500 |
| 68 | Write Backup Network Management (NWM) Tape (800 BPI)                                                                                                                                         | OSWF | DLP-538 |
| 69 | If Data Base Was Loaded by Off-line Processor, Write 4E Library Tape(s) Using TWRL Library Program                                                                                           | OSWF | DLP-539 |

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

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| 70 | At 1B MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX                                                                                                               | OSWF | —       |
| 71 | At 3B MCRT, Enter Message ALW:DMQ;SRC REX! To Allow REX                                                                                                                            | TCC  | —       |
| 72 | Request Next Higher Technical Support Group To Determine if Office Can Commit to 1B Processor Generic. Do Not Proceed Without Permission From Next Higher Technical Support Group  | TCC  | —       |
|    | <i>WARNING: Item 73 will delete any reference to 4E19 generic in NORMAL and UPDATE files. In order to go back to 4E19 generic, a System Reinitialization (SR) will be required</i> |      |         |
| 73 | Commit to 4E20 Generic                                                                                                                                                             | TCC  | DLP-544 |
|    |                                                                                                                                                                                    |      |         |

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

|    |                                                                                                                                                                                                                                                                                    |         | DATE | TIME | SIGNATURE |
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| 1  | Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required                                                                                                                                                                 | —       |      |      |           |
| 2  | At 3B MCRT, if Screen Displays EAI Page, Depress <b>NORM/DISP (PF2)</b> Key                                                                                                                                                                                                        | —       |      |      |           |
| 3  | Enter <b>101</b> in Command Mode To Obtain Display Page 101                                                                                                                                                                                                                        | —       |      |      |           |
| 4  | Depress <b>CMD/MSG (PF3)</b> Key To Move Cursor to Bottom of Screen                                                                                                                                                                                                                | —       |      |      |           |
| 5  | If Data Base Is To Be Loaded by Off-Line Processor, At 3B MCRT, Verify Data Base To Ensure Proper Office Name Is Listed ( <b>OP:APpload UPD!</b> )                                                                                                                                 | DLP-504 |      |      |           |
| 6  | If Data Base Is To Be Loaded by Tape, Perform Items 7 Through 23; Otherwise, Go to Item 24                                                                                                                                                                                         | —       |      |      |           |
| 7  | If Test ODA Update Process Is Expected To Last Through Midnight                                                                                                                                                                                                                    |         |      |      |           |
|    | 1. At 3B MCRT, Enter Message <b>INH:DMQ;SRC REX!</b> To Inhibit REX                                                                                                                                                                                                                | —       |      |      |           |
|    | 2. At 1B MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX                                                                                                                                                                                               | —       |      |      |           |
| 8  | If 1600-BPI Network Management Tape Is Not Available, Write Network Management (NWM) Tape                                                                                                                                                                                          | DLP-540 |      |      |           |
| 9  | Mount New 1600-BPI ODA Tape on Idle Tape Unit                                                                                                                                                                                                                                      | DLP-505 |      |      |           |
| 10 | At 3B MCRT, Enter Message <b>VER:UPDATE:TAPE,MT a!</b> (a = Tape Unit Number) and Record BASE and CONTROL Numbers for Later Use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office                                                                  | DLP-506 |      |      |           |
| 11 | Load New ODA on Disk ( <b>LOAD:UPDATE:ODA "aaaabb",MT c!</b> )                                                                                                                                                                                                                     | DLP-541 |      |      |           |
|    | <i>CAUTION: When ODA COMPLETE - READY FOR NWM output message is received, update program enters 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> |         |      |      |           |
| 12 | If Loading of ODA Tape Was Aborted, Perform Items 13 Through 15; Otherwise, Go to Item 16                                                                                                                                                                                          | —       |      |      |           |
| 13 | Demount ODA Tape From Tape Unit                                                                                                                                                                                                                                                    | DLP-508 |      |      |           |
| 14 | At 3B MCRT, Enter Message <b>OP:00S!</b> and Ensure That All Units Are in Service                                                                                                                                                                                                  | —       |      |      |           |

**TEST ODA UPDATE PROCESS**

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

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | DATE | TIME | SIGNATURE |
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| 15 | Repeat from Item 9 Using Another ODA Tape                                                                                                                                                                                                                                                                                                                                                                                                                 | —       |      |      |           |
| 16 | If Only One Tape Unit Is Available, Demount ODA Tape After Tape Rewinds                                                                                                                                                                                                                                                                                                                                                                                   | DLP-508 |      |      |           |
| 17 | Obtain New 1600-BPI Network Management Tape                                                                                                                                                                                                                                                                                                                                                                                                               | —       |      |      |           |
| 18 | Mount New Network Management Tape on Tape Unit and Verify Tape Identification Is Correct for Update                                                                                                                                                                                                                                                                                                                                                       | DLP-511 |      |      |           |
| 19 | Load New Network Management on Disk and Complete Data Base                                                                                                                                                                                                                                                                                                                                                                                                | DLP-512 |      |      |           |
|    | <b>NOTE:</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> may be received. Mapping dynamic data cannot cross 15-minute time boundary due to long-term storage data mutilation. System will automatically map dynamic data when in proper window<br>2. After receiving <b>DATABASE COMPLETE - READY FOR ODA UPDATE</b> output message, loading process is complete |         |      |      |           |
| 20 | If Loading of Network Managment Tape Was Successful, Go to Item 24. If It Was Aborted, Perform Items 21 Through 23                                                                                                                                                                                                                                                                                                                                        | —       |      |      |           |
| 21 | Demount Network Management Tape From Tape Unit                                                                                                                                                                                                                                                                                                                                                                                                            | DLP-508 |      |      |           |
| 22 | At 3B MCRT, Enter Message <b>OP:00S!</b> and Ensure That All Units Are in Service                                                                                                                                                                                                                                                                                                                                                                         | —       |      |      |           |
| 23 | Repeat From Item 9                                                                                                                                                                                                                                                                                                                                                                                                                                        | —       |      |      |           |
| 24 | At 3B MCRT, Enter Message <b>COPY:LSNC ALL!</b> To Rebuild Large-Scale Nailup Connections and Update TOSL in UPDATE File                                                                                                                                                                                                                                                                                                                                  | —       |      |      |           |
| 25 | After <b>VER</b> Message Has Been Entered (Item 26) and If No Critical Overwrites Are Required (Item 27), Procedure Can Be Continued At Item 28 Without Waiting for Verify To Complete. Printout Must Be Observed Periodically for Errors                                                                                                                                                                                                                 | —       |      |      |           |
| 26 | At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors ( <b>VER:APPFILE UPD!</b> )                                                                                                                                                                                                                                                                                                                                                                           | DLP-513 |      |      |           |
| 27 | If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites                                                                                                                                                                                                                                                                                                                                          | DLP-514 |      |      |           |
|    | (Continued on Page 3)                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |      |      |           |

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

|    |                                                                                                                                                                                        |         | DATE | TIME | SIGNATURE |
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| 28 | Compare Critical Data in New ODA With Data in Active System by Performing Items 29 and 30                                                                                              | —       |      |      |           |
| 29 | Run Cross Translations Compare Program                                                                                                                                                 | DLP-515 |      |      |           |
| 30 | Analyze, With Help From Support Organization, Results Of Compare For Unexpected Mismatches                                                                                             | —       |      |      |           |
| 31 | If Compare DID NOT Find Unexpected Mismatches, Go To Item 33                                                                                                                           | —       |      |      |           |
| 32 | If Compare Found Unexpected Mismatches Between New ODA and Data 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 27                                                              | —       |      |      |           |
|    | B. If It Is Determined that Corrections Cannot Be Made Within The Hour, Await Further Instructions Before Proceeding                                                                   | —       |      |      |           |
| 33 | If Data Base Was Loaded by Tape, Perform Items 34 Through 37; Otherwise, Go to Item 38                                                                                                 | —       |      |      |           |
| 34 | Demount Tape(s) From Tape Unit(s)                                                                                                                                                      | DLP-508 |      |      |           |
| 35 | If REX Was Inhibited in Item 7                                                                                                                                                         |         |      |      |           |
|    | 1. At 1B MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX                                                                                                                | —       |      |      |           |
|    | 2. At 3B MCRT, Enter Message ALW;DMQ;SRC REX! To Allow Rex                                                                                                                             | —       |      |      |           |
| 36 | Obtain List of All Trunks Added During Quiet Period From TOC. These Trunks Will Be Set to CAD.DSA State During "Prepare for Update" Procedure                                          | —       |      |      |           |
| 37 | End of Procedure                                                                                                                                                                       | —       |      |      |           |
| 38 | Obtain List of All Trunks Added Since Off-Line Processor Recent Change (if any) From NSC Provisioning. These Trunks Will Be Set To CAD.DSA State During "Prepare for Update" Procedure | —       |      |      |           |
|    |                                                                                                                                                                                        |         |      |      |           |

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

|    |                                                                                                                                                                |         | DATE | TIME | SIGNATURE |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-----------|
| 1  | Enter Date, Time, and Signature or Place Check Mark Beside Item or Subitem When Completed, or If Not Required                                                  | —       |      |      |           |
| 2  | Before Starting, Review and Become Familiar With DLP-528                                                                                                       | —       |      |      |           |
| 3  | At 1B MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX                                                                                     | —       |      |      |           |
| 4  | Enter Message OP:TSGSTAT;SUM:ALL! To Obtain Trunk Subgroup Status Summary; Save Printout in a File for Trunk Circuit Recovery Verification                     | —       |      |      |           |
| 5  | Enter Message OP:OOSUNITS! and Ensure That Required Units Are in Service                                                                                       | DLP-516 |      |      |           |
| 6  | At 3B MCRT, Enter Message INH:DMQ;SRC REX! To Inhibit REX                                                                                                      | —       |      |      |           |
| 7  | Enter Message OP:OOS! and Ensure That Required 3B Computer Units Are in Service                                                                                | DLP-510 |      |      |           |
| 8  | Verify Data Base To Ensure That Generic Is <b>4E&lt;20&gt;4x.yy Ra</b> and Proper Office Is Listed (OP:APpload UPD!)                                           | DLP-525 |      |      |           |
| 9  | If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites                                               | DLP-514 |      |      |           |
|    | <b>NOTE:</b> If schedules that are entered by SCHED:MEAS input message are to be retained for update, include MEAS option in LOAD message                      |         |      |      |           |
| 10 | Map Dynamic Data From NORMAL File to UPDATE File (LOAD:UPDATE:MAP[,MEAS]!)                                                                                     | DLP-526 |      |      |           |
| 11 | At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFILE UPD!)                                                                                         | DLP-513 |      |      |           |
| 12 | Enter Message COPY:LSNC TOSL! To Update TOSL in UPDATE File; Ensure REPT LSNC: LSNC MAPPING COMPLETE Message Is Received                                       | —       |      |      |           |
| 13 | Prepare 1B Processor MCC Terminal for Manual Recovery                                                                                                          | DLP-527 |      |      |           |
| 14 | Manually Update 1B Processor                                                                                                                                   | DLP-528 |      |      |           |
| 15 | If Attempt To Configure to New System Was Successful, Go to Item 20. If Unsuccessful, Perform Items 16 Through 19 Because System Is Returned to 4E19 Data Base | —       |      |      |           |
| 16 | <b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E19 OCCURRED.</b> At 1B MTC Terminal, Enter Message UPD:COMMIT;NORMFILE!                                             | —       |      |      |           |
| 17 | At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress <b>EA DISP</b> Key                                                                         | —       |      |      |           |

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

|    |                                                                                                                                                                                                                                                                |         | DATE | TIME | SIGNATURE |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-----------|
| 18 | Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed                                                                                                                                                           |         |      |      |           |
| 19 | After Consulting With Support Organization, Select Option A or B and Proceed as Directed                                                                                                                                                                       | —       |      |      |           |
|    | A. If Update Is To Be Discontinued, End of Procedure. Ensure System Is Operating Properly and Restore All Out-of-Service Equipment                                                                                                                             | —       |      |      |           |
|    | B. If Update Is To Be Continued, Proceed as Directed by Next Higher Technical Support Group                                                                                                                                                                    | —       |      |      |           |
| 20 | <b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> Perform Items 21 Through 25 To Restore 1B Processor Complex Units                                                                                                                                     | —       |      |      |           |
| 21 | At 1B MTC Terminal, Enter Message <b>OP:MACLI,CLASS MTCE!</b>                                                                                                                                                                                                  | —       |      |      |           |
| 22 | If 1B Processor Complex Unit(s) Is Listed in Printout, Go to Item 25; Otherwise, Perform Items 23 Through 25                                                                                                                                                   | —       |      |      |           |
| 23 | At 1B MTC Terminal, Enter Message <b>OP:OOSUNITS!</b>                                                                                                                                                                                                          | —       |      |      |           |
|    | <b>NOTE:</b> IFB must be restored before restoring MUP, AUI, or SSD                                                                                                                                                                                            |         |      |      |           |
| 24 | If 1B Processor Complex Unit(s) Is Listed in Printout, Enter Restore Message To Restore Each Unit Listed                                                                                                                                                       | —       |      |      |           |
|    | <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                                                                                                |         |      |      |           |
| 25 | Periodically Repeat From Item 21 While Continuing To Perform Succeeding Steps in This NTP Until 1B Processor Complex Units Are Restored                                                                                                                        | —       |      |      |           |
| 26 | Verify Direct Link Nodes Were Pumped From Proper 1AFILE                                                                                                                                                                                                        | DLP-530 |      |      |           |
| 27 | If Loaded Network Management Has Different Issue From Previous Network Management, Look Back in Printout for "OSOR BURST" Page. At 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> | —       |      |      |           |
| 28 | When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock                                                                                                                               | DLP-531 |      |      |           |

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

|    |                                                                                                                                                                                                                                                                                                                                                                                                   |         | DATE | TIME | SIGNATURE |
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| 29 | Set Up MC 3, MC 4, and/or MC 8 Schedule(s). At 1B Terminal, Enter Message <b>SCHED:TDASMC a;ADD:MSC bb!</b> for Each Schedule To Be Set Up (Contact Next Higher Technical Support Group for a and bb Variables)                                                                                                                                                                                   | —       |      |      |           |
| 30 | At 1B MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX                                                                                                                                                                                                                                                                                                                 | —       |      |      |           |
| 31 | Enter Message <b>OP:SVCSTAT!</b> and Observe Printout for Any Service Circuits That Are Not New DTMF Transmitters or Receivers or Part of Hardware Rearrange Associated With Update. Compare Printout With Printout Saved in NTP-005, Item 34. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Technical Support Group for Resolution | —       |      |      |           |
| 32 | If Any Active TAN-to-TAN Connections Existed Prior to Update, at 1B 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 15)                                                                                                                                         | —       |      |      |           |
| 33 | If Any Active Large-Scale Nailup Connections Existed Prior to Update, at 1B 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 16)                                                                                                                      | —       |      |      |           |
| 34 | Run Audits 43, 44, and 45 (Items 35 Through 38)                                                                                                                                                                                                                                                                                                                                                   | —       |      |      |           |
| 35 | At 1B MTC Terminal, Enter Message <b>AUD:NUM (43,44,45)!</b>                                                                                                                                                                                                                                                                                                                                      | —       |      |      |           |
| 36 | While Audits Are Running, Continue To Perform Succeeding Items                                                                                                                                                                                                                                                                                                                                    | —       |      |      |           |
| 37 | If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action                                                                                                                                                                                                                                                       | —       |      |      |           |
| 38 | During Execution of Audit 43, Scan Output Messages Periodically for Abort Message                                                                                                                                                                                                                                                                                                                 | —       |      |      |           |
| 39 | Place TLP Tape in Service                                                                                                                                                                                                                                                                                                                                                                         | DLP-532 |      |      |           |
| 40 | At 1B MTC Terminal, Restore Out-of-Service Units                                                                                                                                                                                                                                                                                                                                                  | DLP-533 |      |      |           |
| 41 | If Office Is Arranged for CAMA, Check CAMA Operation                                                                                                                                                                                                                                                                                                                                              | DLP-542 |      |      |           |

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

|    |                                                                                                                                                                                                                                                                                                                                                                                      |         | DATE | TIME | SIGNATURE |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-----------|
| 42 | At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106                                                                                                                                                                                                                                                                            | —       |      |      |           |
| 43 | 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                                                                                                                                                                                                                                                                      | —       |      |      |           |
| 44 | Enter 1107 in Command Mode To Obtain Display Page 1107                                                                                                                                                                                                                                                                                                                               | —       |      |      |           |
| 45 | 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> | —       |      |      |           |
| 46 | Enter 1108 in Command Mode To Obtain Display Page 1108                                                                                                                                                                                                                                                                                                                               | —       |      |      |           |
| 47 | 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                                                                                                                                                                                                                                                    | —       |      |      |           |
| 48 | At 1B MTC Terminal, Enter Message <b>OP:MSGRCDF,FS!</b> To Clear Recorded Message Area on Disk                                                                                                                                                                                                                                                                                       | —       |      |      |           |
| 49 | At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, As Required                                                                                                                                                                                                                                                                                                    | DLP-534 |      |      |           |
| 50 | At 1B MTC Terminal, Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary. Compare Printout With Printout Saved in Item 4                                                                                                                                                                                                                                 | —       |      |      |           |
| 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                                                                                                                                                      | —       |      |      |           |
| 52 | Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position                                                                                                                                                                                                                                                            | —       |      |      |           |
| 53 | Notify Network Management Center To Begin Checkout of Network Management System                                                                                                                                                                                                                                                                                                      | DLP-535 |      |      |           |
| 54 | Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results                                                                                                                                                                                                                                      | —       |      |      |           |
| 55 | Compare Count of Ineffective Machine Attempts With Preupdate Level                                                                                                                                                                                                                                                                                                                   | —       |      |      |           |
|    | (Continued on Page 5)                                                                                                                                                                                                                                                                                                                                                                |         |      |      |           |

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

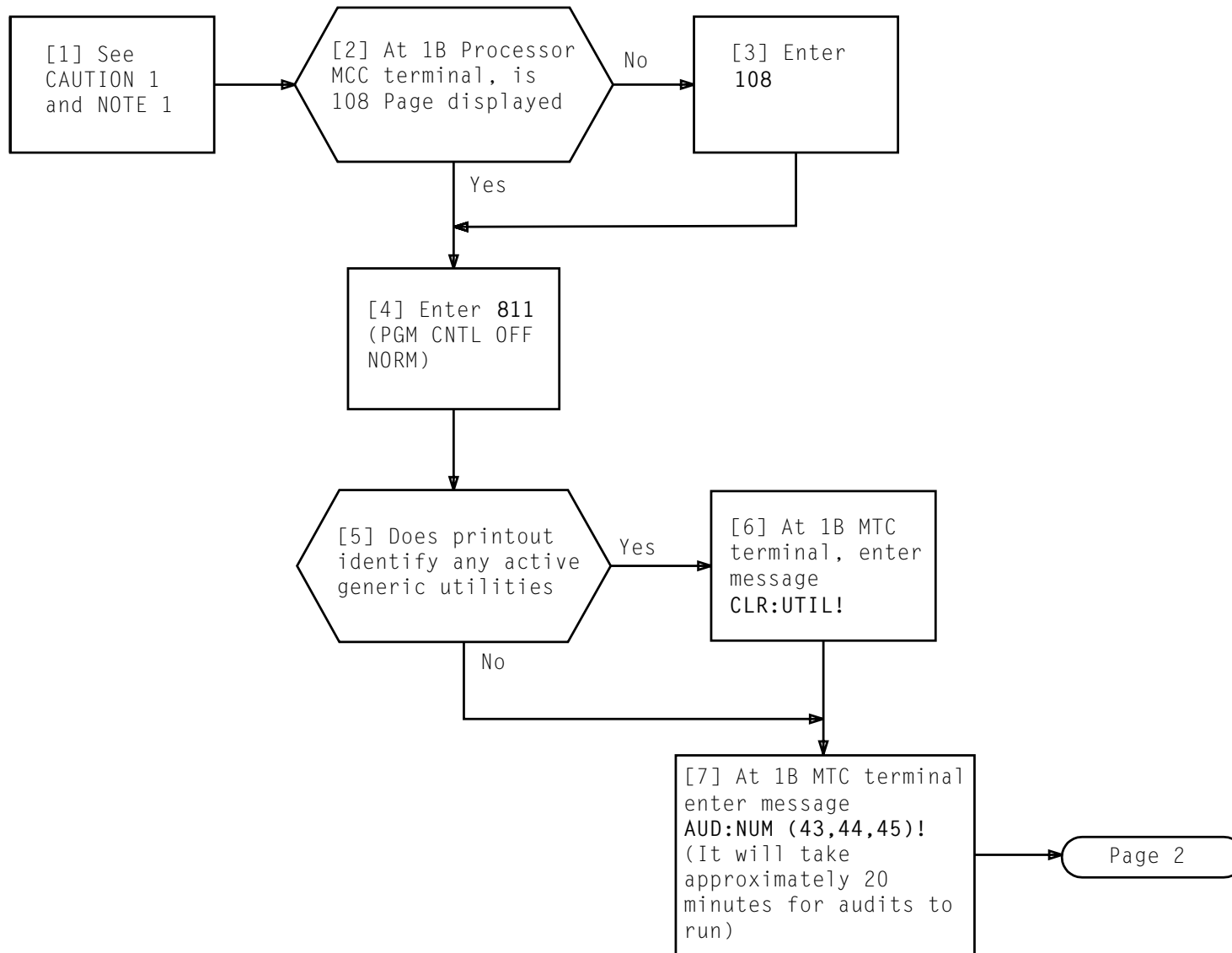
|    |                                                                                                                                                                                                         |         | DATE | TIME | SIGNATURE |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-----------|
| 56 | If Office Provides CAMA Service, Monitor CAMA Call Activity; Compare With Expected Level                                                                                                                | —       |      |      |           |
| 57 | Determine That Manually Placed Calls and System Placed Test Calls Complete Successfully                                                                                                                 | —       |      |      |           |
| 58 | At 1B MTC Terminal, Enter Message <b>INIT:PUEXINIT!</b>                                                                                                                                                 | —       |      |      |           |
| 59 | If Security Call Traps Existed Prior to Update, Request Network Management To Enter Security Call Traps per Local Practice                                                                              | —       |      |      |           |
|    | <b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour                                                                            |         |      |      |           |
| 60 | Write Backup Long-Term Storage (LTS) Tape                                                                                                                                                               | DLP-518 |      |      |           |
| 61 | Load Library Package(s) That Is Required for Normal Local Use (if Not Loaded) and Library Package <b>LG2ORCUA</b> , if Necessary for Recent Change Update Using New 4E20 Office Library Tape            | DLP-536 |      |      |           |
| 62 | At 1B Processor MCC Terminal, Enter <b>108</b> To Obtain System Status Page (108)                                                                                                                       | —       |      |      |           |
| 63 | If <b>801 - RESTRICT RC</b> Is Colored Black on White, Enter <b>801</b>                                                                                                                                 | —       |      |      |           |
| 64 | Reenter Recent Change Data                                                                                                                                                                              |         |      |      |           |
|    | A. Reenter Recent Change Data Using Recent Change Library Program                                                                                                                                       |         |      |      |           |
|    | 1. Mount RC Message Tape Created Via Task 1 or 2 Without Write-Enable Ring Attached                                                                                                                     | DLP-502 |      |      |           |
|    | 2. At 1B MTC Terminal, Enter Message <b>SET:TUC a;FUNCTION UPD!</b> . Verify That Tape Header Information in Output Message Is Correct for Tape To Be Processed (a = TUC With Task 1 or 2 Tape Mounted) | —       |      |      |           |
|    | 3. Enter Message <b>ALW:TUC a:RO!</b>                                                                                                                                                                   | —       |      |      |           |
|    | 4. Execute Task 3 of RCLI Library Program to Reenter Recent Changes Into System                                                                                                                         | DLP-543 |      |      |           |
|    | 5. Enter Message <b>CLR:ADSFUNC UPD!</b>                                                                                                                                                                | —       |      |      |           |
|    | 6. Demount RC Message Tape                                                                                                                                                                              | DLP-501 |      |      |           |

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

|               |                                                                                                                                                                                   |         | DATE | TIME | SIGNATURE |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-----------|
| 64<br>(Contd) | B. If Reentering Recent Change Data at Office, Reenter Per Local Practice                                                                                                         | —       |      |      |           |
|               | C. Request MAC To Enter New Recent Change Data, As Required, Into System                                                                                                          | —       |      |      |           |
|               | D. Request Operation Support System To Enter New Recent Changes, As Required, Into System                                                                                         | —       |      |      |           |
|               | 1. Notify CMAC To Perform Update                                                                                                                                                  | —       |      |      |           |
|               | 2. Wait Until Update Is Complete Before Continuing                                                                                                                                | —       |      |      |           |
|               | 3. Notify IRAS To Update Office Data Base. Request IRAS To Notify TCC When Data Base Is Complete                                                                                  | —       |      |      |           |
|               | 4. Do Not Write Any Backup Tapes Until IRAS Completes Update                                                                                                                      | —       |      |      |           |
|               | 5. Notify Network Management Center To Complete Network Management System Checkout                                                                                                | DLP-537 |      |      |           |
| 65            | If Office Is CAMA Equipped, Install Any Special CAMA Data Per Local Practice, As Required                                                                                         | —       |      |      |           |
| 66            | Write Backup 1B Processor ODA Tapes (800 BPI)                                                                                                                                     | DLP-517 |      |      |           |
| 67            | Write Updated Traffic and Plant Measurement (TPM) Schedule Tape                                                                                                                   | DLP-519 |      |      |           |
| 68            | If Any 4E20 Overwrites Are To Be Installed, Install Per Local Practice                                                                                                            | —       |      |      |           |
| 69            | Write 1B Processor Generic Tapes (800 BPI)                                                                                                                                        | DLP-500 |      |      |           |
| 70            | Write Backup Network Management (NWM) Tape (800 BPI)                                                                                                                              | DLP-538 |      |      |           |
| 71            | If Data Base Was Loaded by Off-line Processor, Write 4E Library Tape(s) Using TWRL Library Program                                                                                | DLP-539 |      |      |           |
| 72            | At 1B MTC Terminal, Enter Message <b>ALW:MACLI,CLASS MTCE!</b> To Allow REX                                                                                                       | —       |      |      |           |
| 73            | At 3B MCRT, Enter Message <b>ALW:DMQ;SRC REX!</b> To Allow REX                                                                                                                    | —       |      |      |           |
| 74            | Request Next Higher Technical Support Group To Determine if Office Can Commit to 1B Processor Generic. Do Not Proceed Without Permission From Next Higher Technical Support Group | —       |      |      |           |
|               | (Continued On Page 7)                                                                                                                                                             |         |      |      |           |

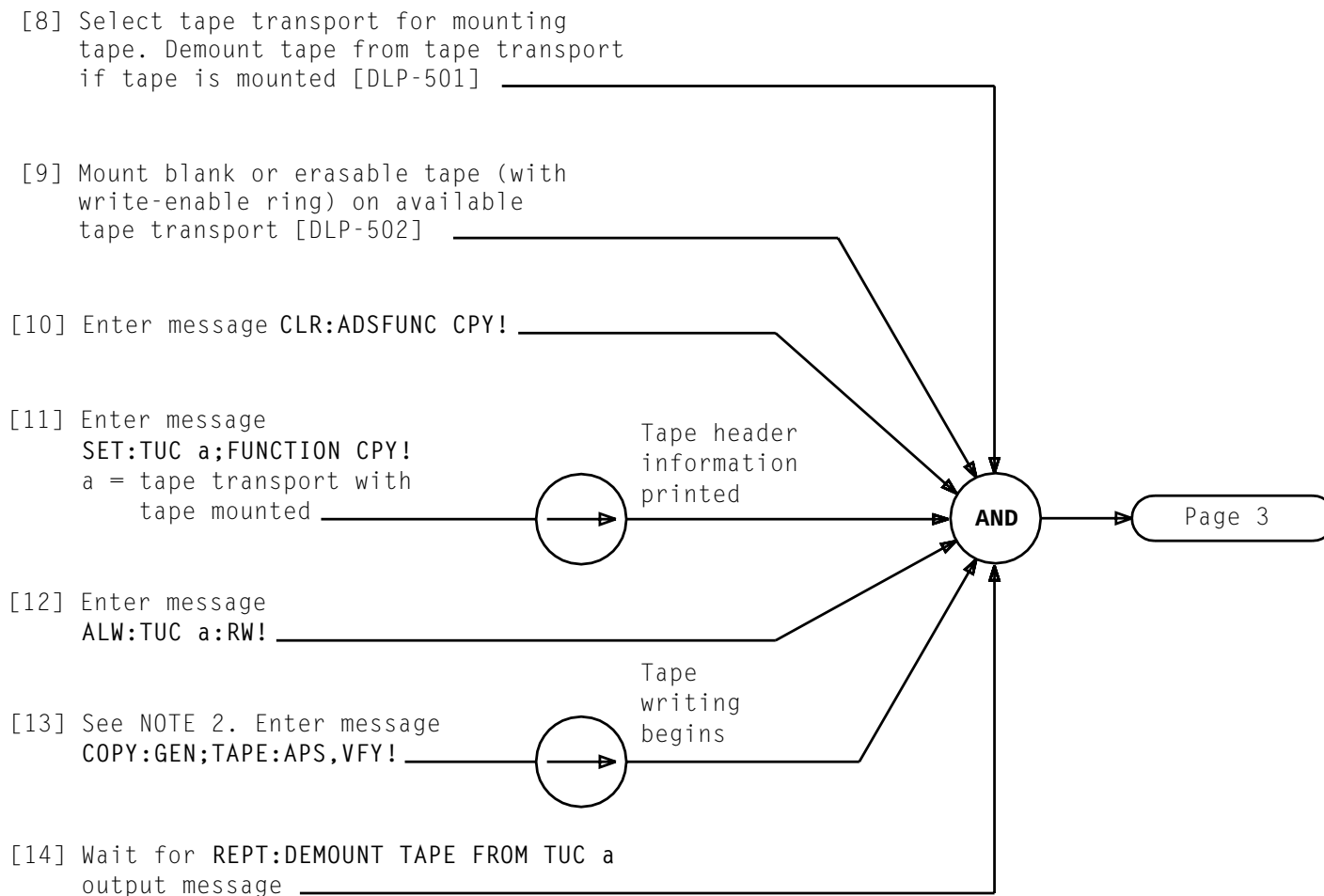
**DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO**

|    |                                                                                                                                                                                    |         | DATE | TIME | SIGNATURE |
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|    | <i>WARNING: Item 75 will delete any reference to 4E19 generic in NORMAL and UPDATE files. In order to go back to 4E19 generic, a System Reinitialization (SR) will be required</i> |         |      |      |           |
| 75 | Commit to 4E20 Generic                                                                                                                                                             | DLP-544 |      |      |           |
|    |                                                                                                                                                                                    |         |      |      |           |



|                                                                                                                                                         |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| NOTE 1<br>If necessary, AT&T Practice 234-020-010 should be referenced for tape storage requirements and procedures                                     |          |
| <b>CAUTION 1</b><br><i>Certain system audits are inhibited during tape writing; therefore, tape writing should be done during light traffic periods</i> |          |
| Issue 1                                                                                                                                                 | NOV 1994 |
| 234-160-020                                                                                                                                             | DLP      |
| PAGE 1 of 3                                                                                                                                             | 500      |

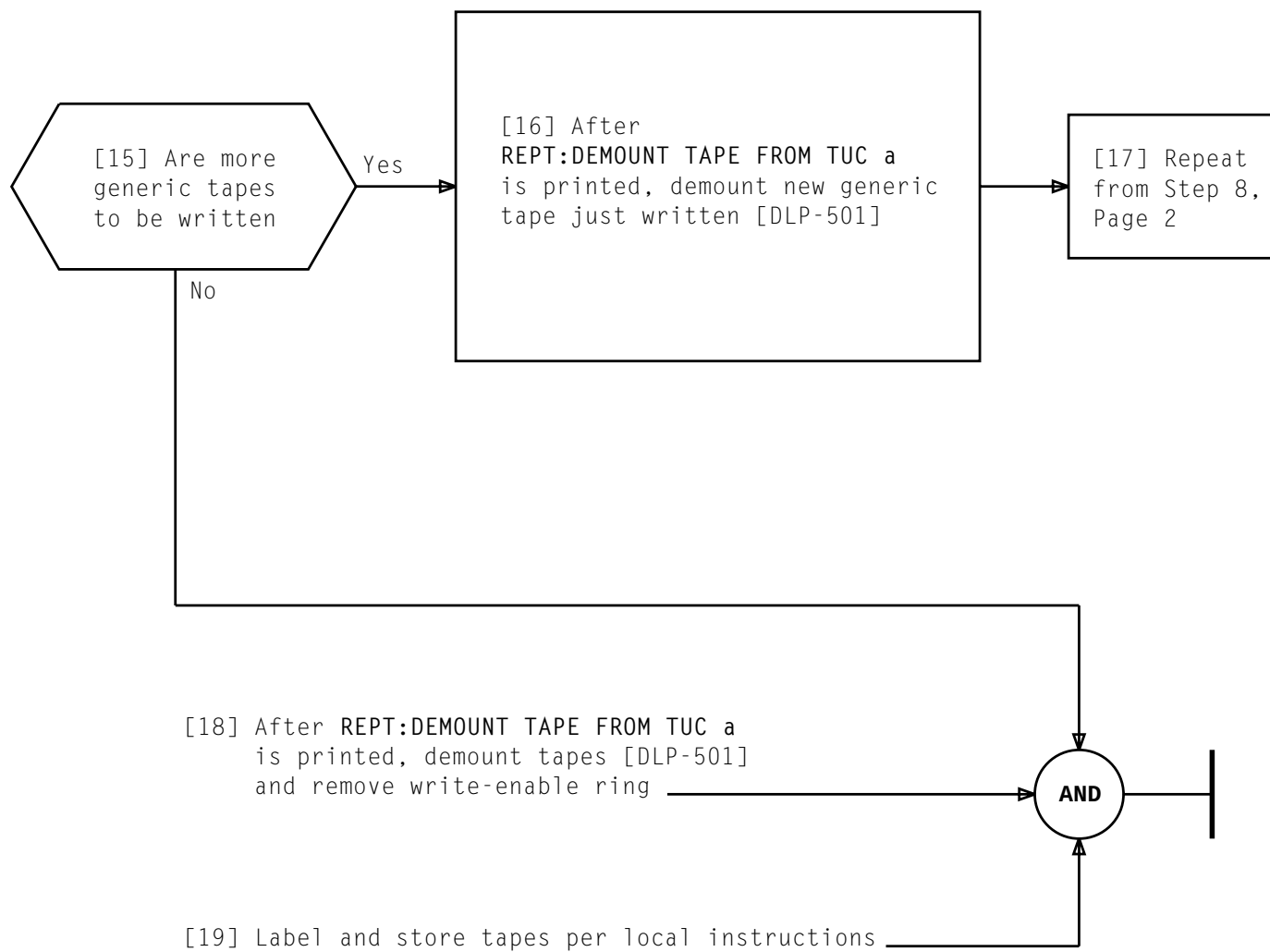
**WRITE 1B PROCESSOR GENERIC TAPE(S) (TWRP WRITE - 800 BPI)**



NOTE 2  
After generic tape is written, tape will rewind and be verified. After verification has been completed, REPT:DEMOUNT TAPE FROM TUC a message is received

**WRITE 1B PROCESSOR GENERIC TAPE(S) (TWRP WRITE - 800 BPI)**

|                    |                 |
|--------------------|-----------------|
| <b>Issue 1</b>     | <b>NOV 1994</b> |
| <b>234-160-020</b> | <b>DLP</b>      |
| <b>PAGE 2 of 3</b> | <b>500</b>      |



[1] See WARNINGS 1 and 2.  
At tape unit controller,  
depress **REQ DMT**  
pushbutton

Tape rewinds;  
**OK DMT**  
lamp lights

At tape transport:

[2] Open interlocked cover door  
and at upper right, pull out  
interlock switch plunger

[3] Depress **LOCAL/REMOTE** switch  
to obtain **LOCAL** lighted  
condition

**LOCAL**  
lamp  
lights

**AND**

[4] Is tape  
at BOT marker

Yes

Page 2

No

[5] Depress **REVERSE**  
pushbutton (**REVERSE**  
lamp lights; tape  
rewinds to BOT  
marker and stops)

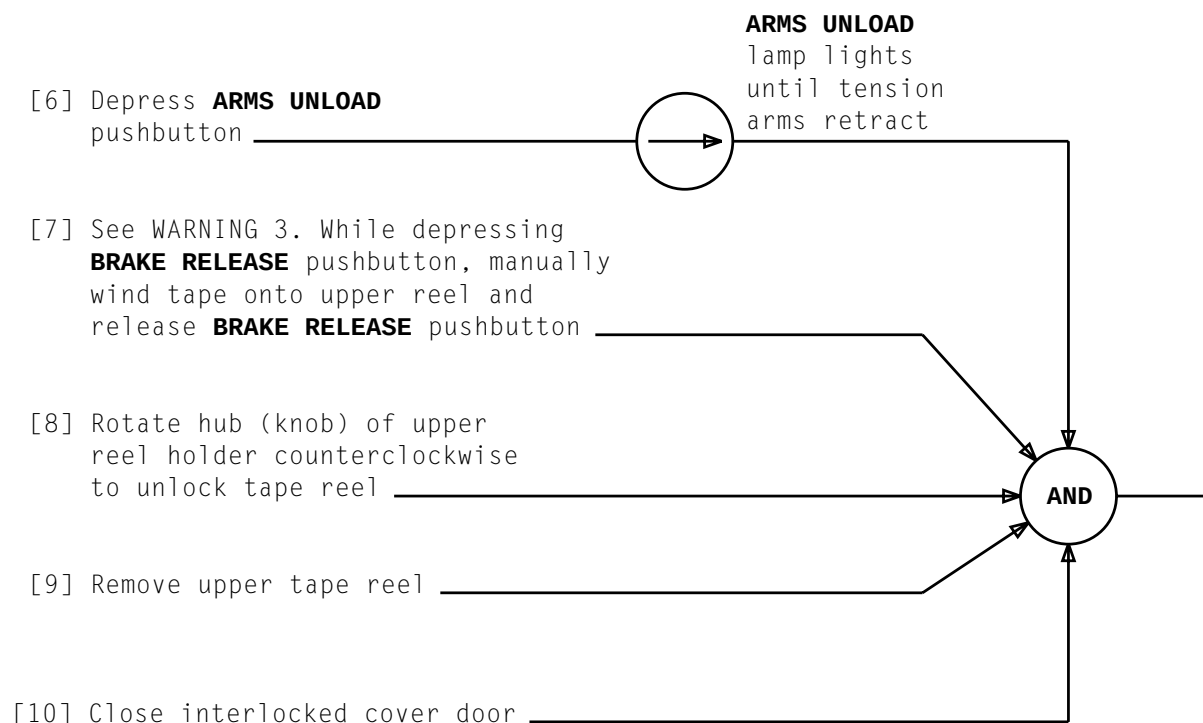
# WARNINGS

1. Cycling tape transport or tape unit controller with tape over read/write heads may garbage tape
2. If tape is being demounted due to faulty tape unit, proper tape unit maintenance documentation should be used

Issue 1 NOV 1994

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PAGE 1 of 2 501

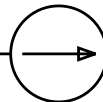


|                                                                                                       |                 |
|-------------------------------------------------------------------------------------------------------|-----------------|
| <b>WARNING 3</b><br><i>Pulling or dragging last 2 feet of tape across heads may contaminate heads</i> |                 |
| <b>Issue 1</b>                                                                                        | <b>NOV 1994</b> |
| <b>234-160-020</b>                                                                                    | <b>DLP</b>      |
| <b>PAGE 2 of 2</b>                                                                                    | <b>501</b>      |

At tape transport:

[1] Open interlocked cover door;  
at upper right of tape  
transport, pull out interlock  
plunger

[2] Operate **LOCAL/REMOTE**  
switch to obtain **LOCAL**  
lighted condition



**LOCAL** lamp  
lighted

[3] Verify that empty lower (take-up) tape reel is  
same size or larger than tape reel to be mounted

[4] With hub (knob) of upper reel in  
counterclockwise position, mount reel  
with tape on reel holder

[5] Rotate hub (knob) of upper reel clockwise  
to detent to lock tape reel securely

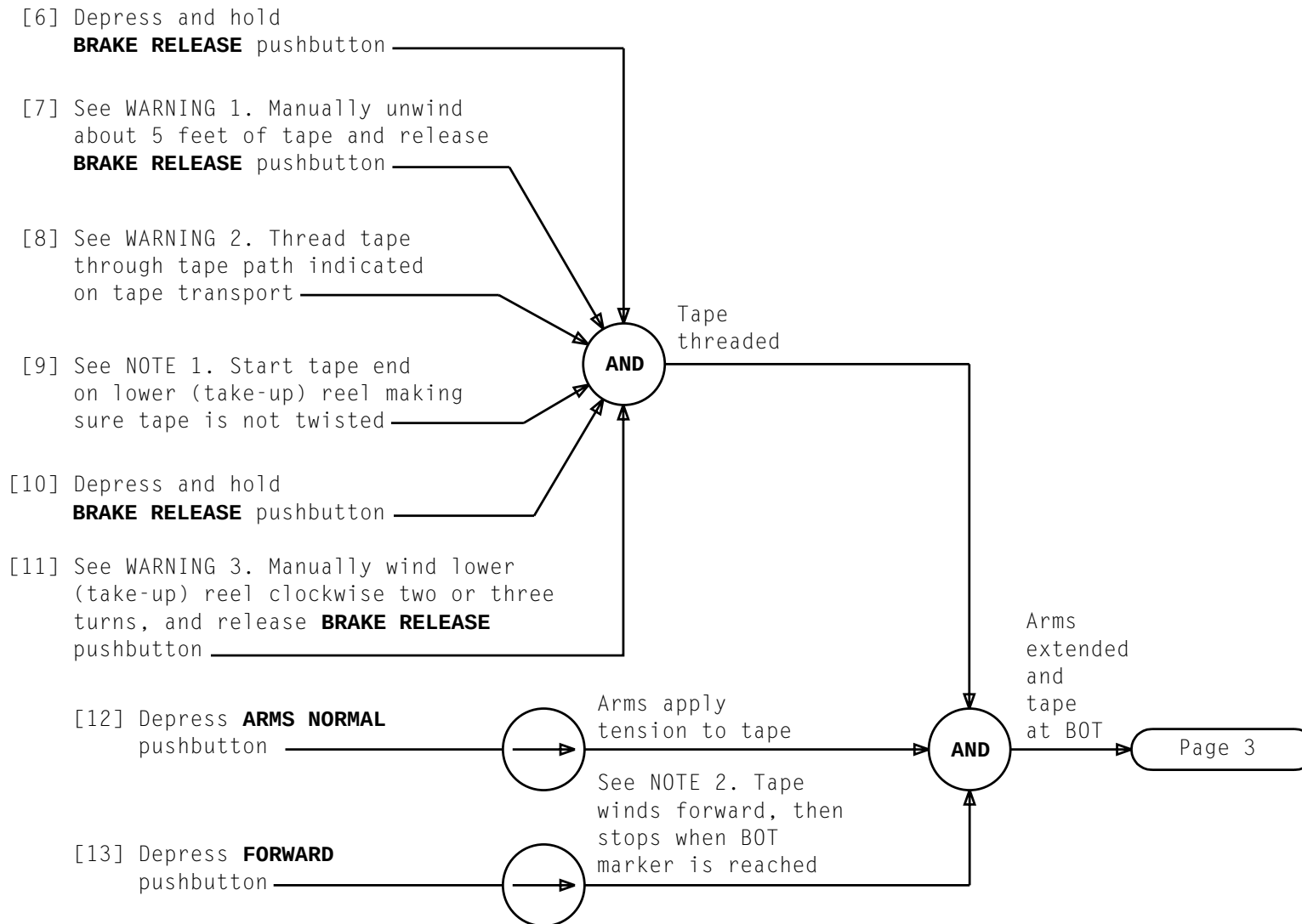
**AND**

Tape reel and  
take-up reel mounted

Page 2

## MOUNT TAPE ON 1B PROCESSOR TAPE TRANSPORT

|             |          |
|-------------|----------|
| Issue 1     | NOV 1994 |
| 234-160-020 | DLP      |
| PAGE 1 of 3 | 502      |

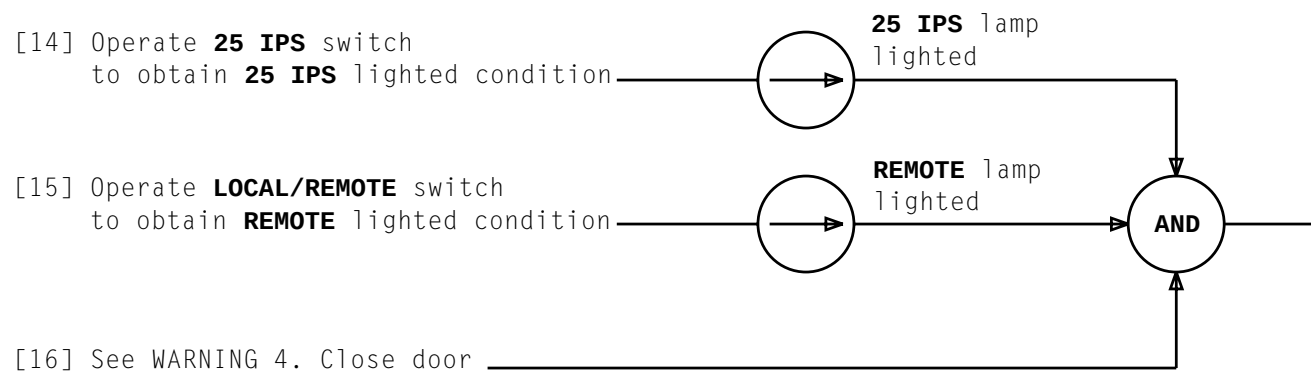


#### NOTES

1. To start tape on take-up reel, it may help to moisten tape end (moistened fingers) and stick it to reel axle
2. Tape may not stop at BOT marker if fast forward is depressed

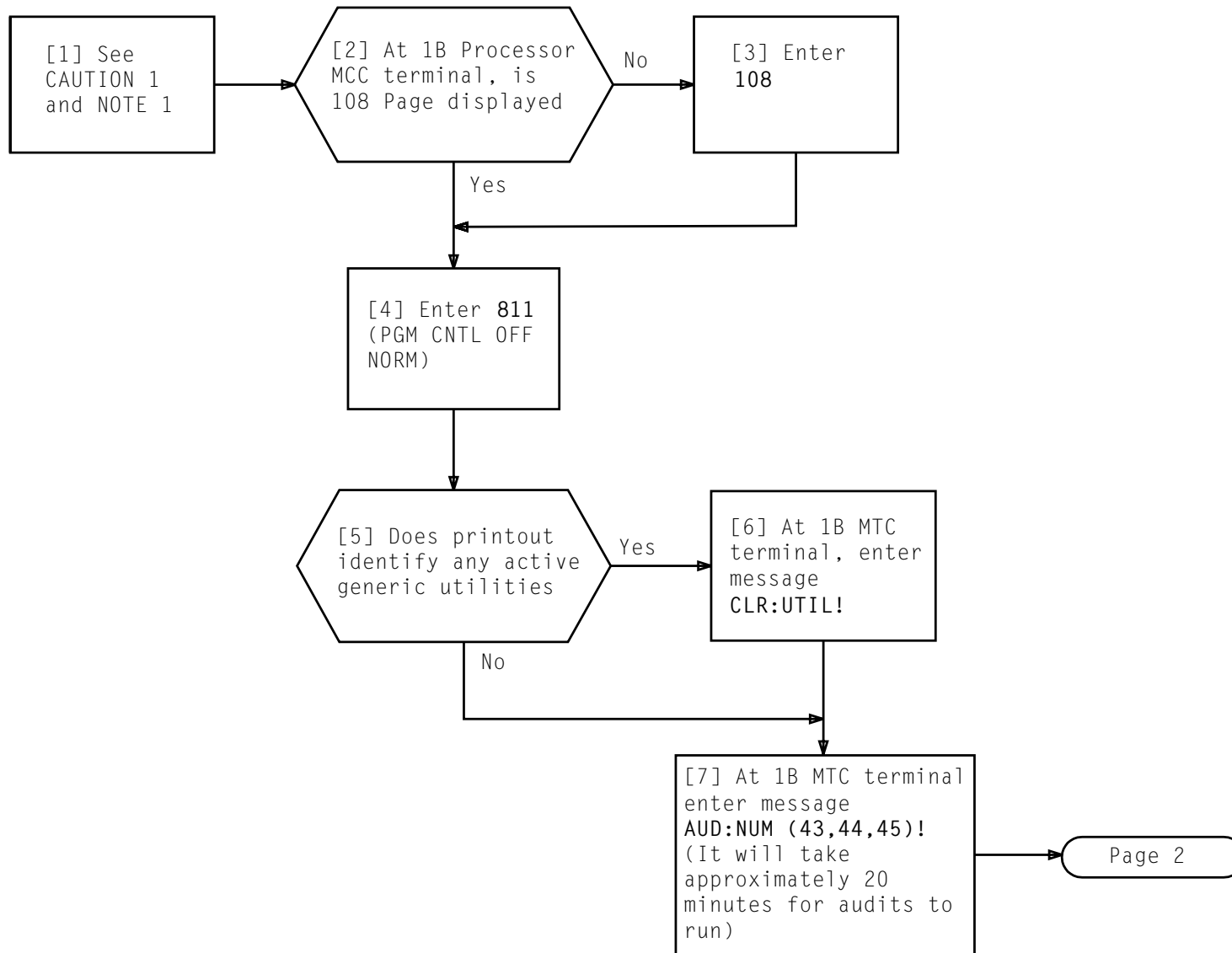
#### WARNINGS

1. Contamination of tape by contact with floor will damage tape heads
2. Do not touch tape head surfaces; body oils will contaminate tape
3. If tape is not properly aligned along rollers and guides or is too loose, it may be damaged



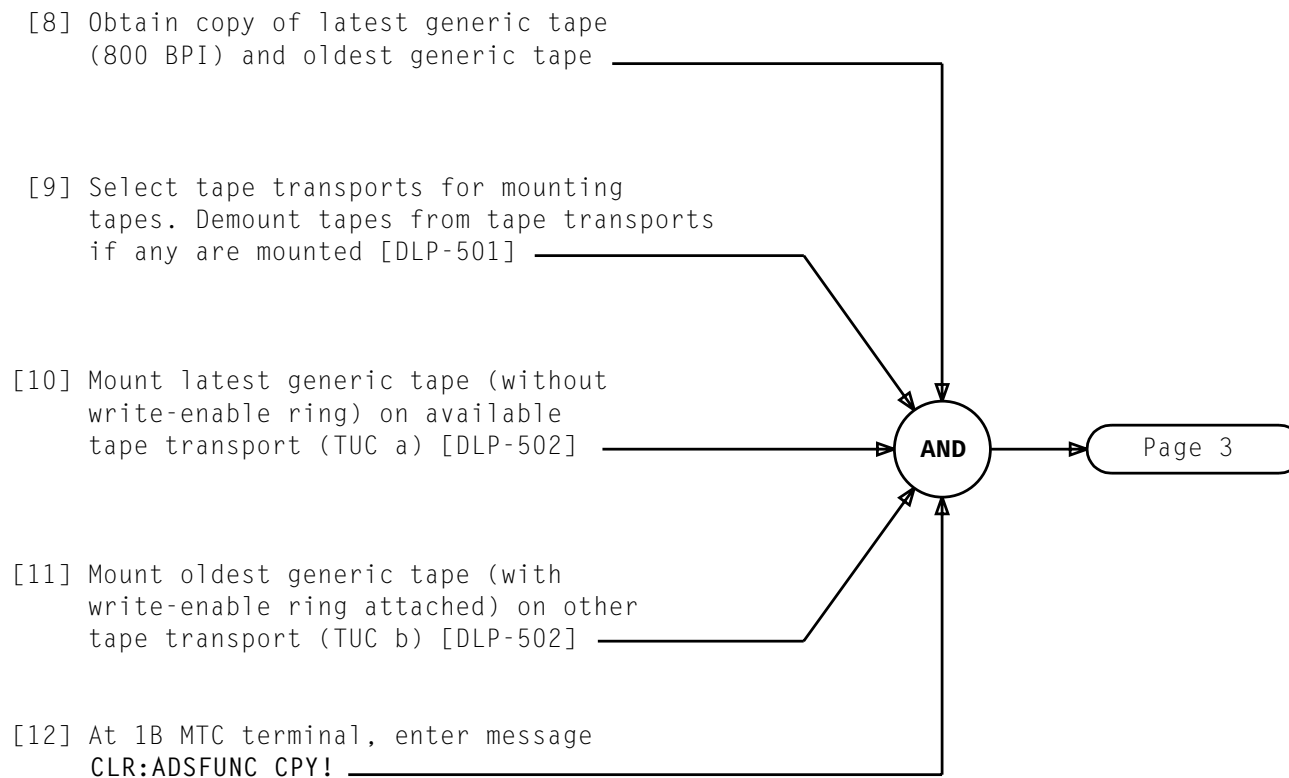
|                                                                                                            |                 |
|------------------------------------------------------------------------------------------------------------|-----------------|
| <b>WARNING 4</b><br><i>Closing tape<br/>transport door<br/>in harsh manner<br/>may upset<br/>alignment</i> |                 |
| <b>Issue 1</b>                                                                                             | <b>NOV 1994</b> |
| <b>234-160-020</b>                                                                                         | <b>DLP</b>      |
| <b>PAGE 3 of 3</b>                                                                                         | <b>502</b>      |

**MOUNT TAPE ON 1B PROCESSOR TAPE TRANSPORT**



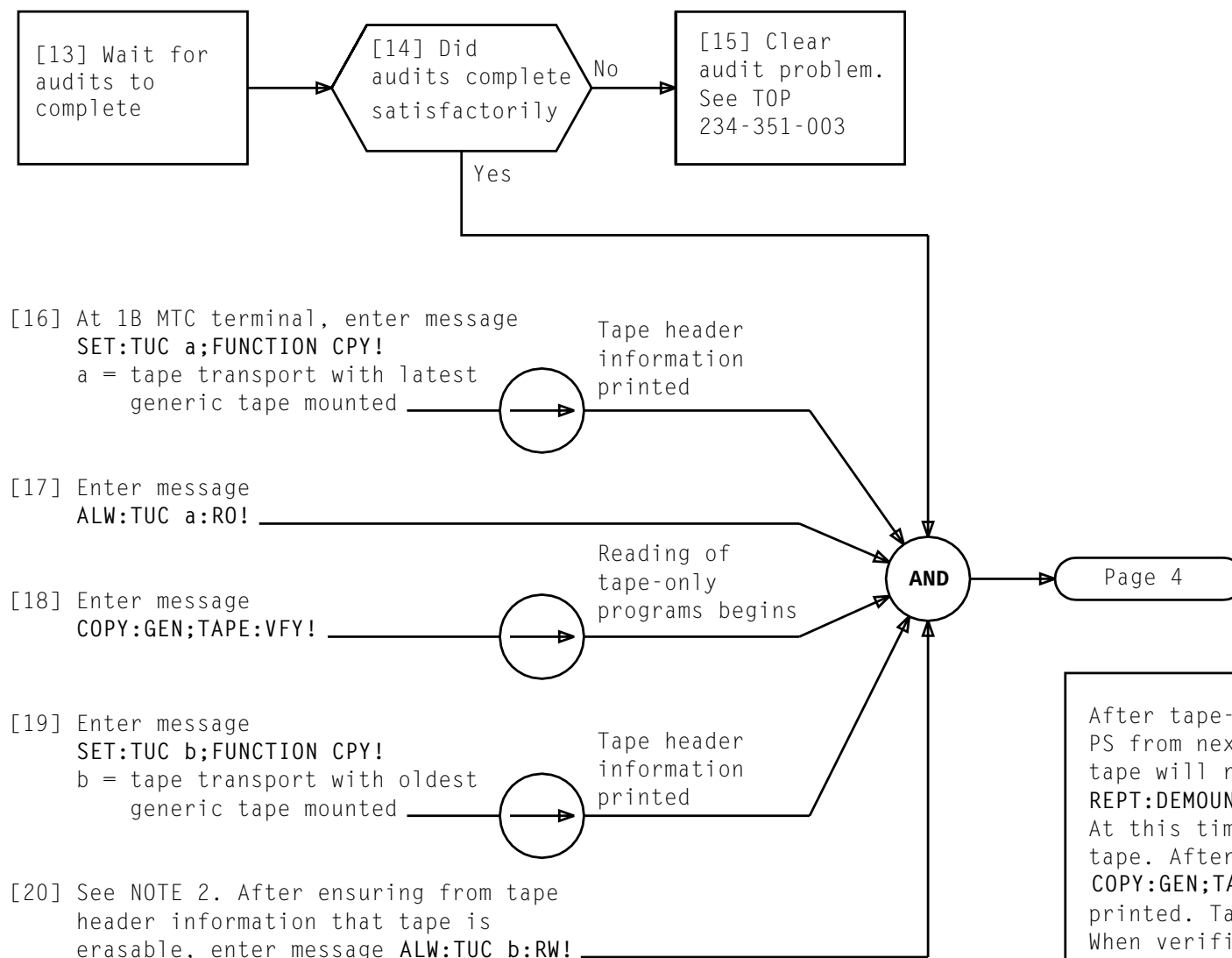
|                                                                                                                                           |          |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|
| NOTE 1<br>If necessary, AT&T Practice 234-020-010 should be referenced for tape storage requirements and procedures                       |          |
| CAUTION 1<br>Certain system audits are inhibited during tape writing; therefore, tape writing should be done during light traffic periods |          |
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**WRITE 1B PROCESSOR GENERIC TAPE(S) (TWRP WRITE - 800 BPI)**

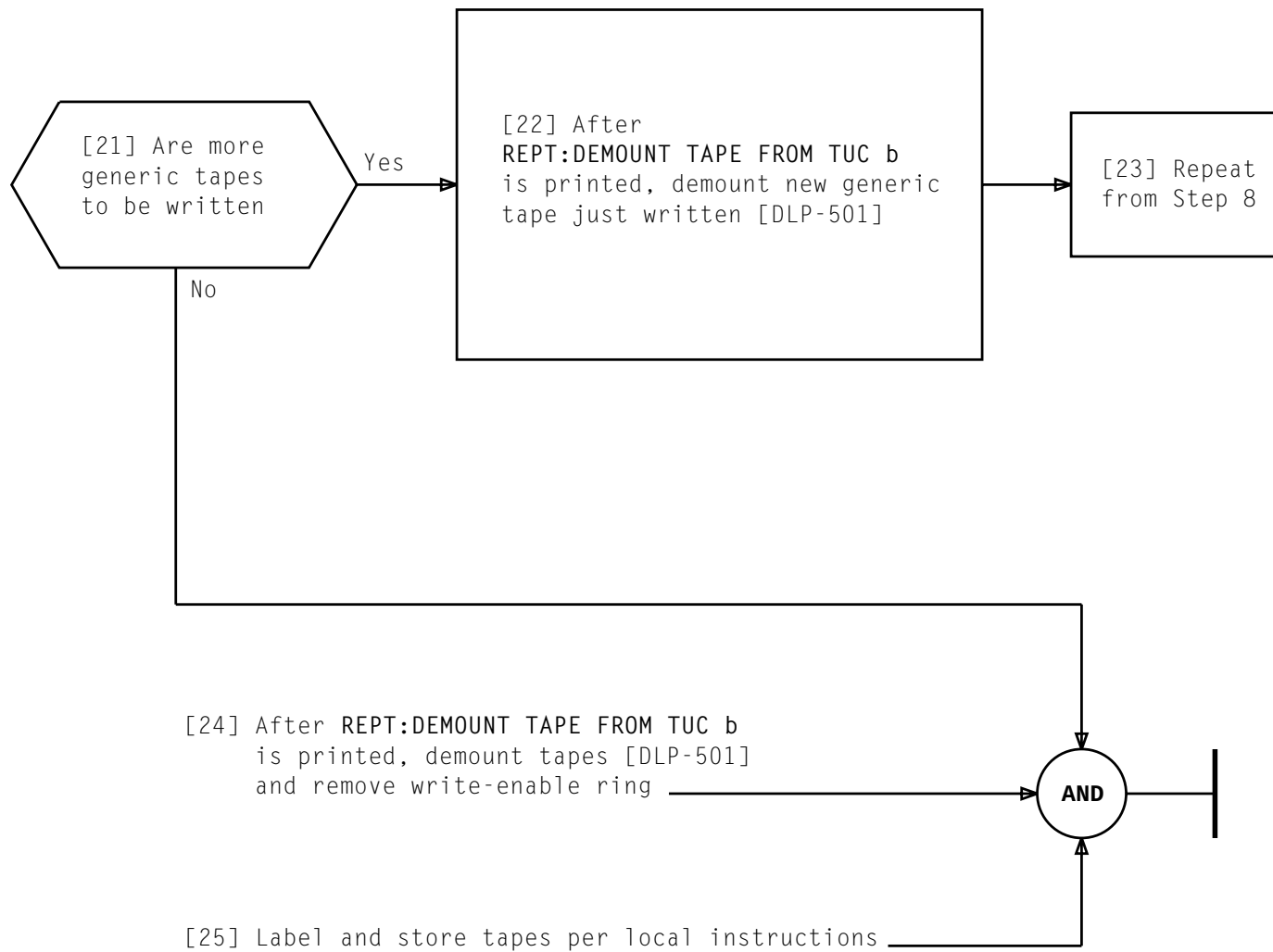


**WRITE 1B PROCESSOR GENERIC TAPE(S) (TWRP WRITE - 800 BPI)**

|             |          |
|-------------|----------|
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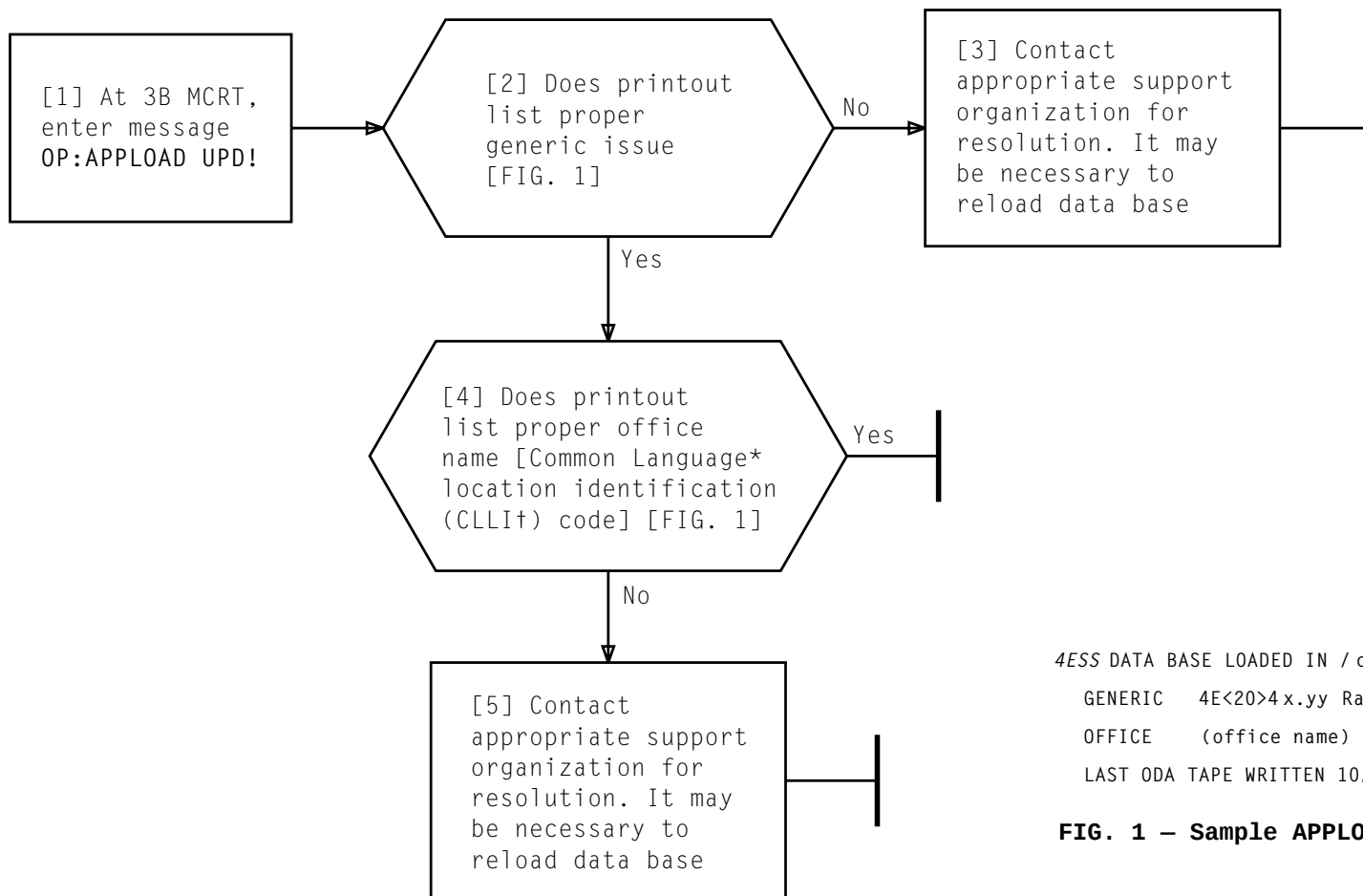


NOTE 2  
After tape-only programs are copied into PS from next to oldest generic tape, tape will rewind and REPT:DEMOUNT TAPE FROM TUC a is printed. At this time, writing starts on oldest tape. After tape is written (5-10 minutes), COPY:GEN;TAPE COMPL date and time are printed. Tape rewinds and is verified. When verification has completed (same amount of time as it took to write), COPY:VFY;TAPE COMPL is printed followed by REPT:DEMOUNT TAPE FROM TUC b



**WRITE 1B PROCESSOR GENERIC TAPE(S) (TWRP WRITE - 800 BPI)**

|             |            |
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4ESS DATA BASE LOADED IN /dev/laf1e0 IS:

GENERIC 4E<20>4x.yy Ra

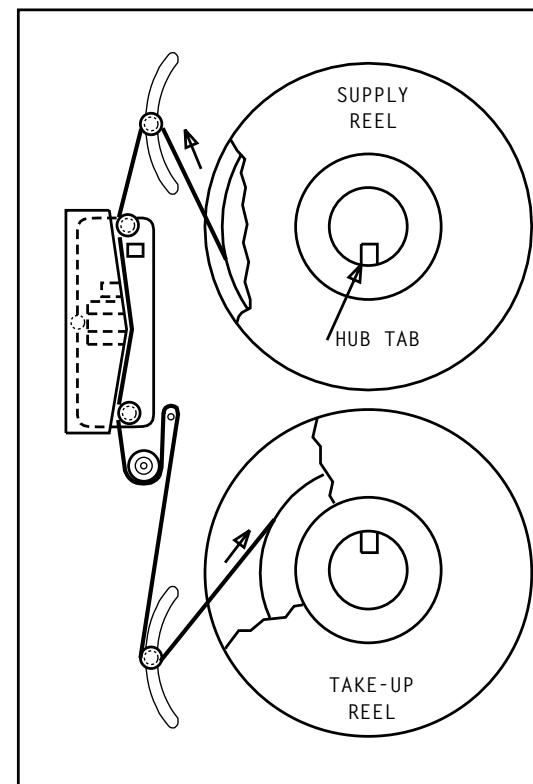
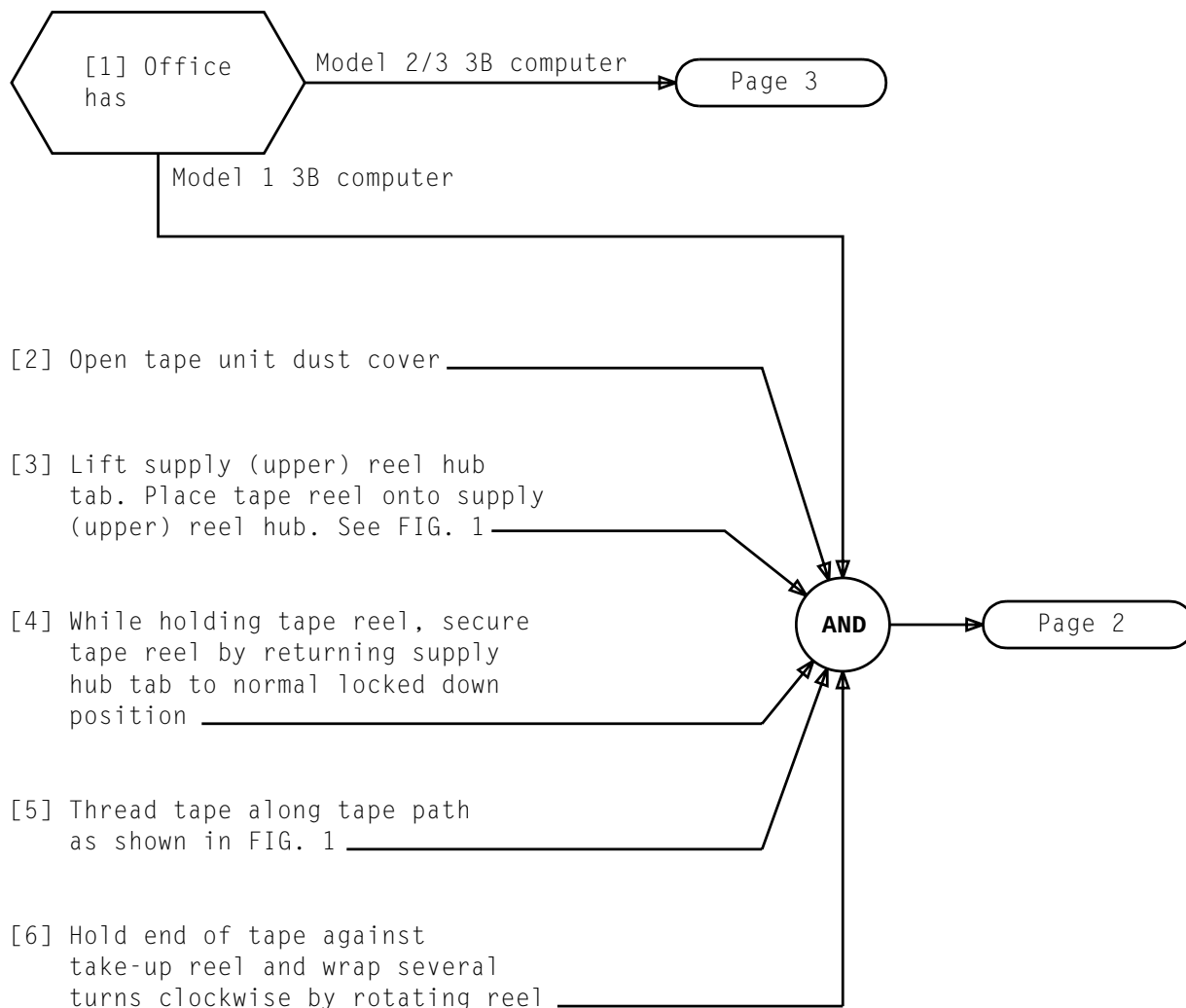
OFFICE (office name)

LAST ODA TAPE WRITTEN 10/25/94 AT 19:51

**FIG. 1 — Sample APPLoad Printout**

\* Registered trademark of Bell Communications Research, Inc.

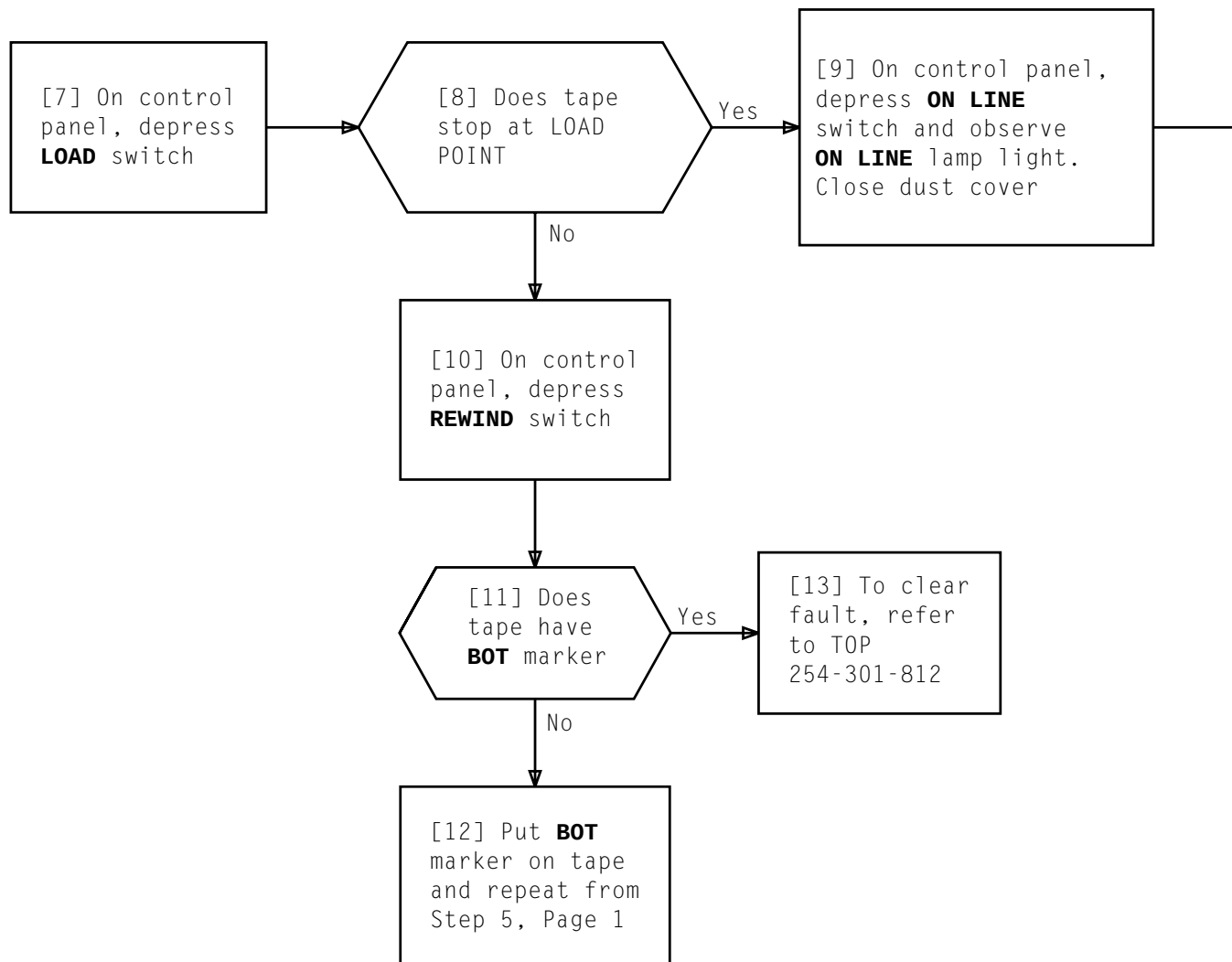
† Trademark of Bell Communications Research, Inc.



**FIG. 1**

## MOUNT TAPE ON 3B TAPE UNIT

|             |            |
|-------------|------------|
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[14] If tape is to be written, attach write enable ring on supply reel

[15] If **LOGIC OFF** LED lighted, touch **LOGIC ON** switch

[16] Open dust cover and verify circuit breaker at side 1

[17] See FIG. 2. Place supply reel on hub and depress hub latch

[18] Thread tape from bottom of supply reel along path as shown in FIG. 2

[19] Hold end of tape against take-up reel and wrap several turns clockwise by rotating reel; then close dust cover

[20] At control panel, touch **LOAD/REWIND** switch

**AND**

[21] Does tape move and stop and is **BOT** LED lighted

Yes

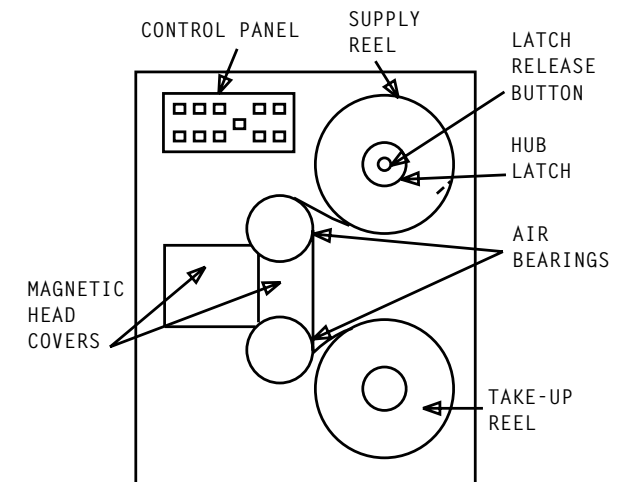
[24] Touch **ON LINE** switch

No

No

[22] Touch **RESET** switch, attach beginning of tape (BOT) marker, and repeat from Step 18

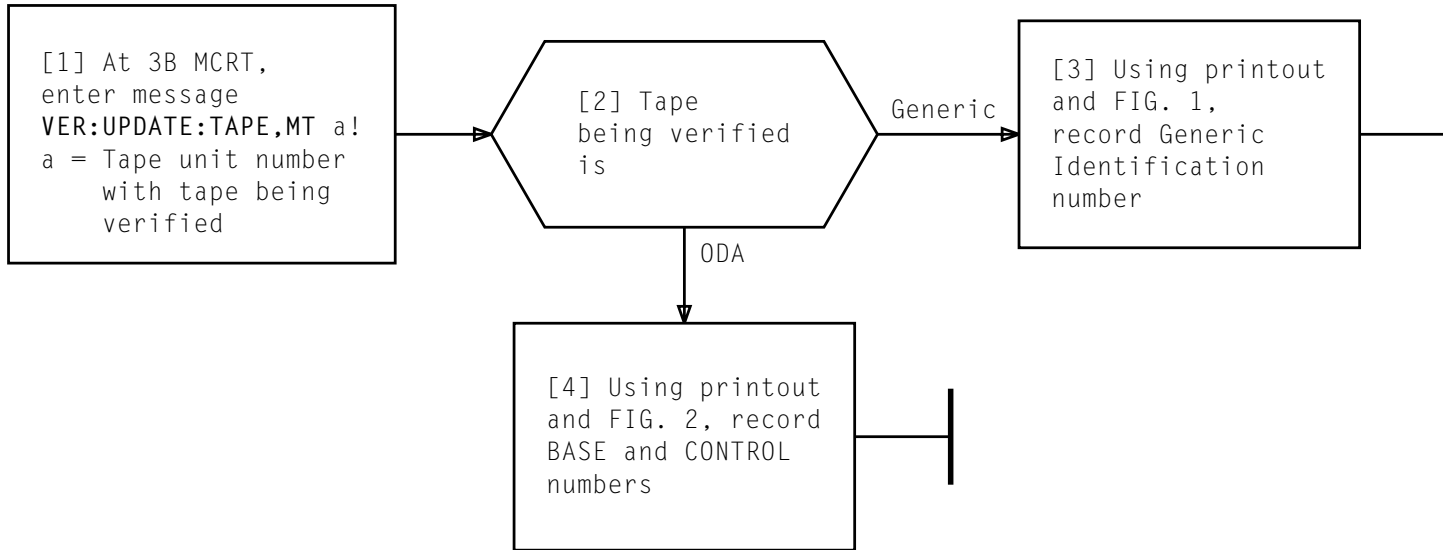
[23] To clear fault, refer to TOP 254-301-812



**FIG. 2**

## MOUNT TAPE ON 3B TAPE UNIT

|             |          |
|-------------|----------|
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TAPE TYPE: GEN  
 GENERIC 4E<20>4A.01 R1 ← Record This Value  
 MOST RECENT OFL GENERATION: YR 94,MON 10,DAY 04 AT 11:28  
 THIS TAPE WRITTEN: YR 94,MON 11,DAY 04 AT 17:19  
 FS IDS: 0000000000000010,TAPE IDS: 0000000011111111  
 PARTL UPD FLG: 0,PHASE REQD: 0001000

**FIG. 1 – Sample Generic Tape Header Printout**

TAPE TYPE: ODA  
 BASE 908F,CONTROL H0 ← Record These Values  
 ORIGINAL GENERIC 4E<G20>.4R  
 MOST RECENT OFL GENERATION: YR 94,MON 10,DAY 05 AT 16:23  
 THIS TAPE WRITTEN: YR 94,MON 11,DAY 09 AT 08:23  
 FS IDS: 0000000000001000,TAPE IDS: 0000000011110100  
 PRTL UPD FLG: 0,PHASE REQD: 0001000

**FIG. 2 – Sample ODA Tape Header Printout**

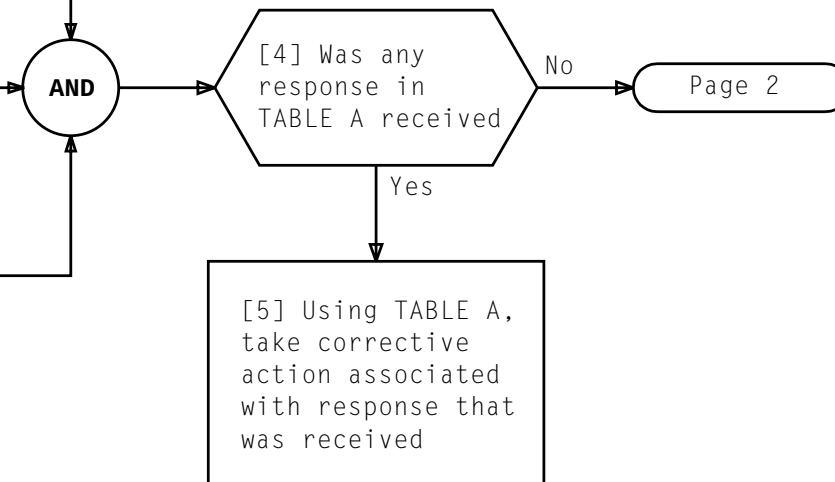
## RECORD TAPE HEADER INFORMATION

|             |          |
|-------------|----------|
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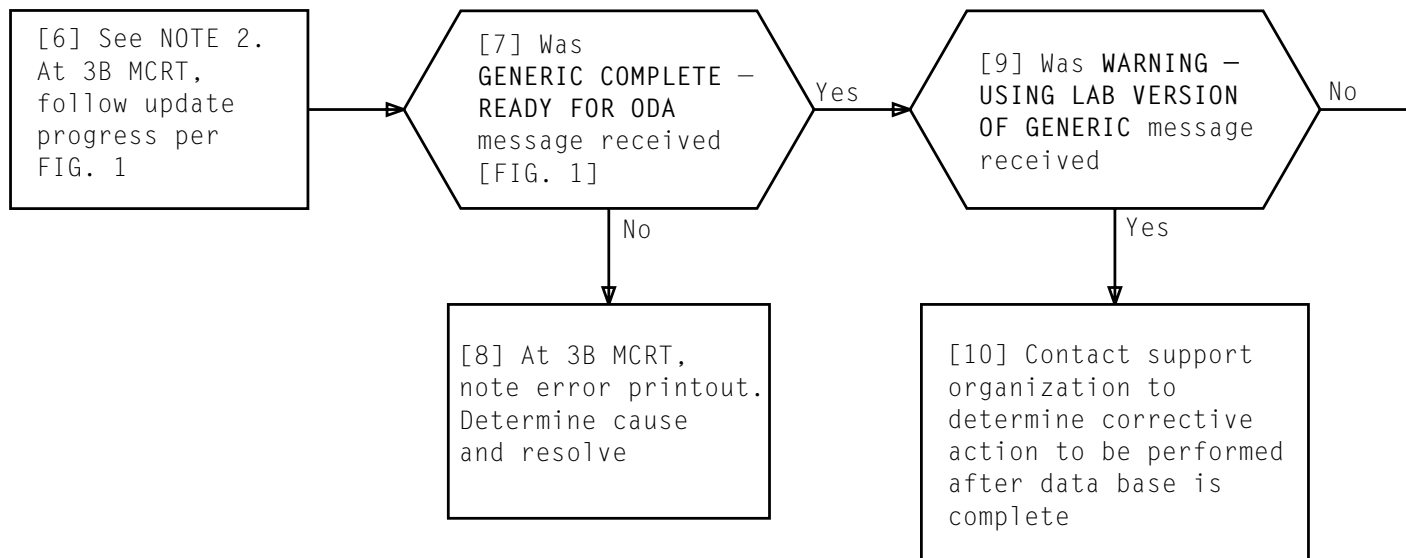
[1] Determine Generic Identification number recorded earlier

[2] At 3B MCRT, enter message  
LOAD:UPDATE:GEN "a",MT b!  
a = Generic Identification number (Step 1)  
b = Tape unit number with generic tape mounted

[3] Observe printout and determine if any TABLE A response was received



| TABLE A                                        |                                                               |
|------------------------------------------------|---------------------------------------------------------------|
| RESPONSE                                       | CORRECTIVE ACTION                                             |
| INVALID TAPE ID - ENTER AGAIN                  | Repeat from Step 2 with correct Generic Identification number |
| TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN | Correct tape drive problem and repeat from Step 2             |



GENERIC RETROFIT

TAPE HEADER

•  
•  
•

TAPE FILE 10 LOADED TO FS

TAPE FILE 20 LOADED TO FS

TAPE FILE 30 LOADED TO FS

•  
•  
•

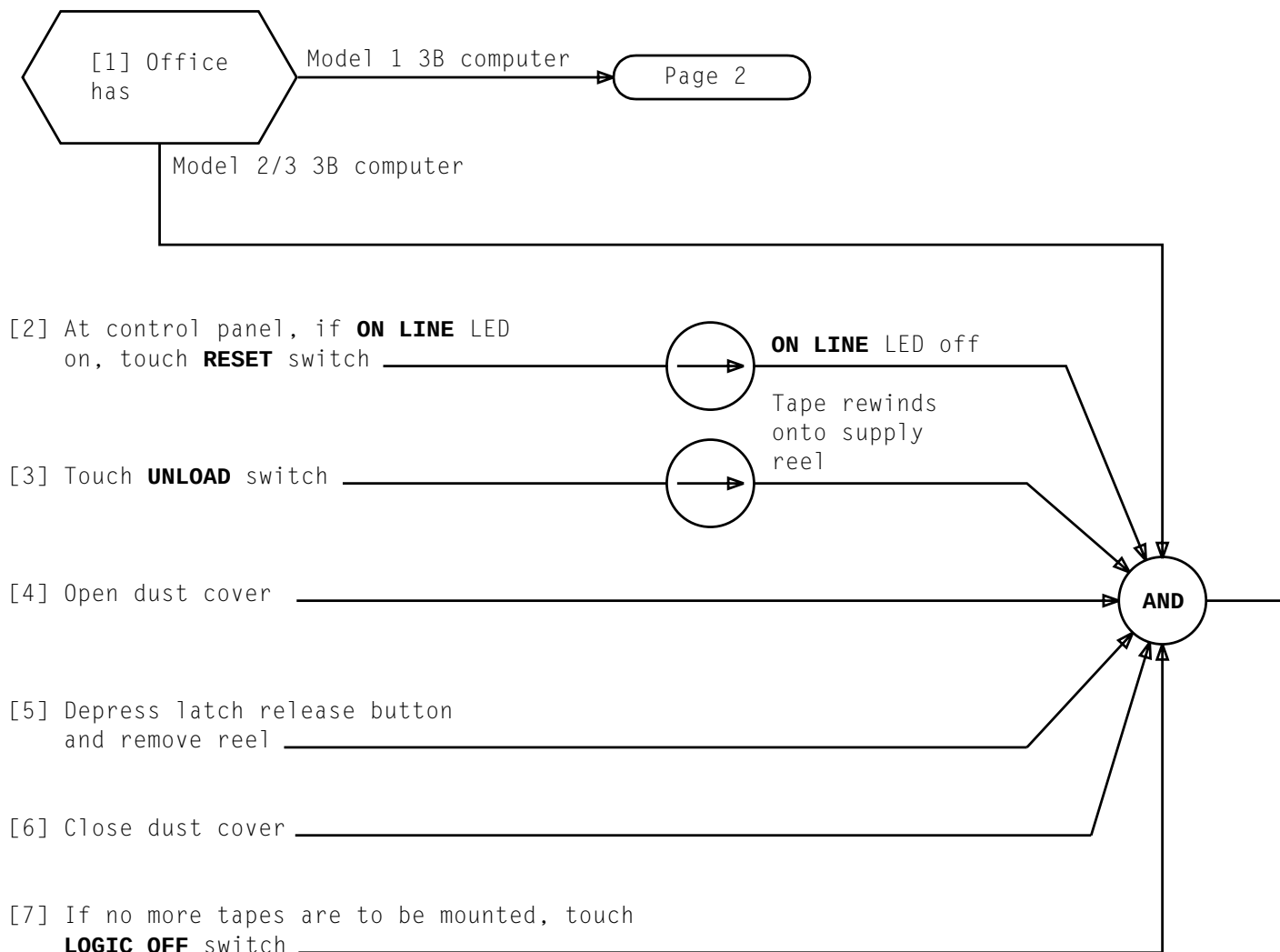
TAPE FILE n LOADED TO FS

GENERIC COMPLETE - READY FOR ODA

**FIG. 1 – Sample Generic Load  
Printout**

|                                                                                                                    |          |  |
|--------------------------------------------------------------------------------------------------------------------|----------|--|
| NOTE 2<br>WARNING – USING LAB<br>VERSION OF GENERIC<br>message may be<br>received after tape<br>header information |          |  |
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**LOAD NEW GENERIC ON DISK**



## DEMOUNT TAPE ON 3B TAPE UNIT

|             |          |
|-------------|----------|
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[8] At control panel, if **ON LINE** lamp is on, depress **ON LINE** switch

[9] If tape is not at BOT, depress **REWIND** switch

**LOAD POINT**  
LED lights

[10] Depress **REWIND** switch

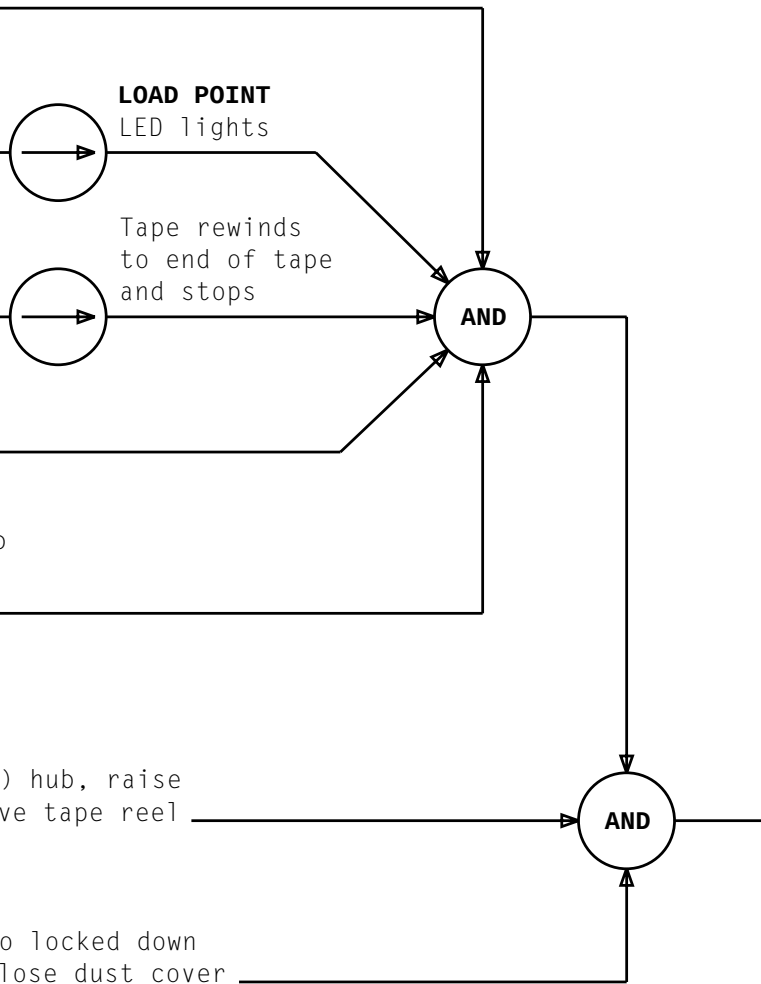
Tape rewinds  
to end of tape  
and stops

[11] On tape unit,  
open dust cover

[12] Rotate supply (upper) hub knob  
counterclockwise until all of  
tape is rewound

[13] On supply (upper) hub, raise  
hub tab and remove tape reel

[14] Return hub tab to locked down  
position, then close dust cover



## DEMOUNT TAPE ON 3B TAPE UNIT

|             |          |
|-------------|----------|
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[1] Determine BASE and CONTROL numbers recorded earlier

[2] At 3B MCRT, enter message

LOAD:UPDATE:CONT "ab",MT c!

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

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

c = Tape unit number with ODA tape mounted

[3] Observe printout and determine if any TABLE A response was received

AND

[4] Was any response in TABLE A received

No

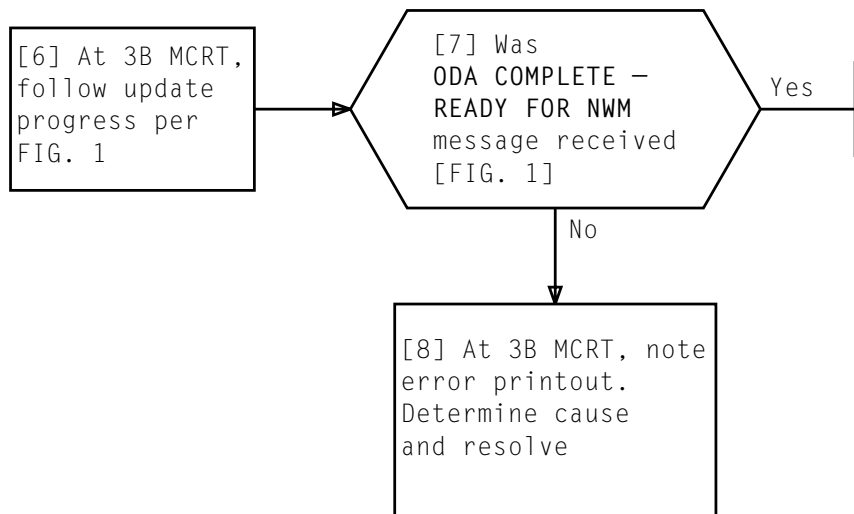
Page 2

Yes

[5] Using TABLE A, take corrective action associated with response that was received

TABLE A

| RESPONSE                                       | CORRECTIVE ACTION                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------|
| INVALID TAPE ID - ENTER AGAIN                  | Repeat from Step 2 with correct BASE and CONTROL numbers                                |
| TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN | Correct tape drive problem and repeat from Step 2                                       |
| WRONG GENERIC - CHANGE TAPE AND ENTER AGAIN    | Demount wrong ODA tape. Obtain correct tape and mount on tape drive. Repeat from Step 2 |

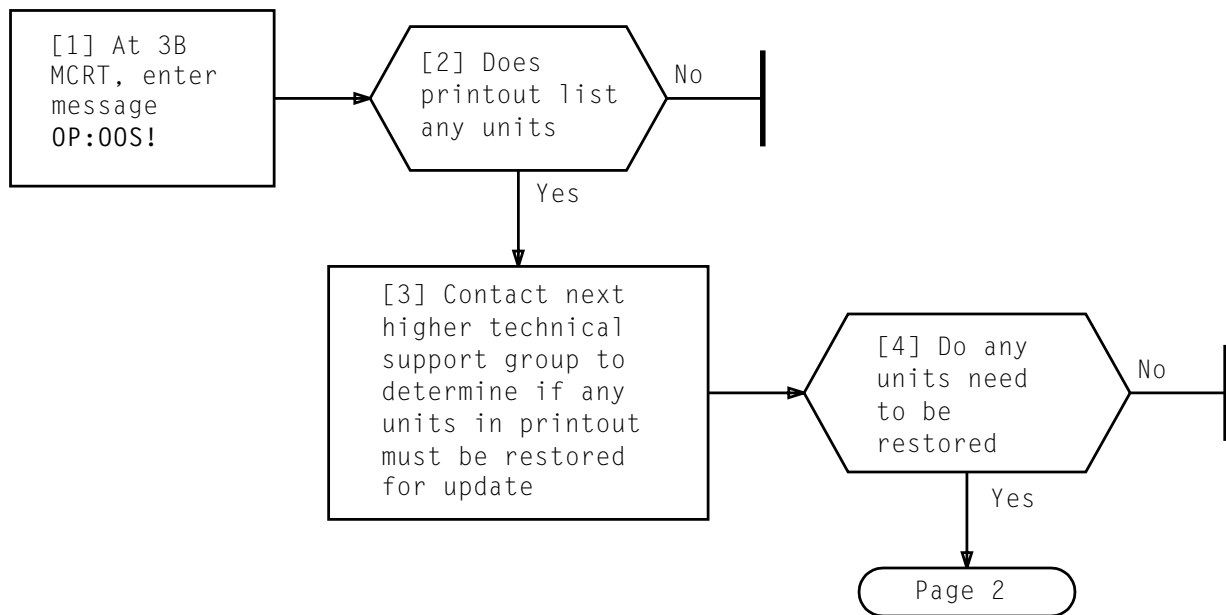


```

TAPE HEADER
.
.
.
TAPE FILE 10 LOADED TO FS
.
TAPE FILE n LOADED TO FS

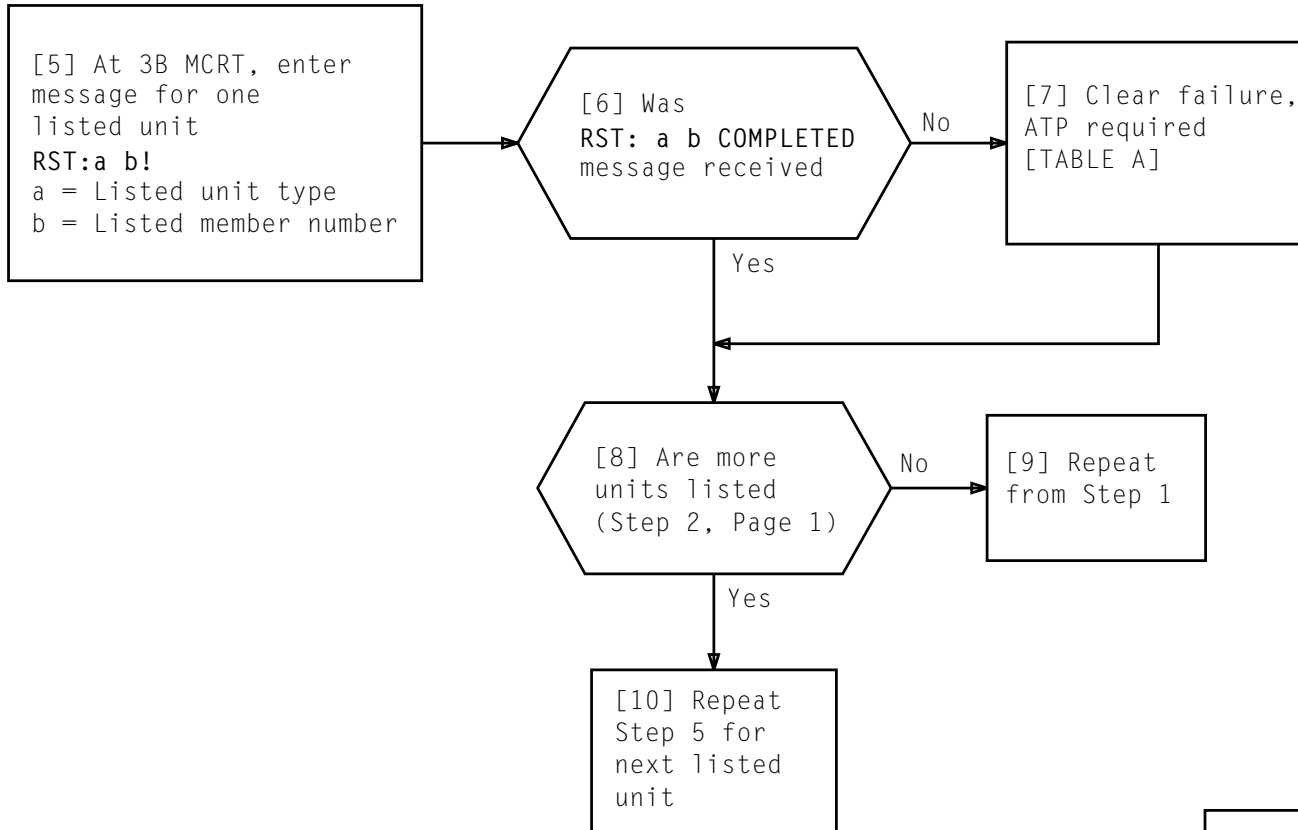
ODA COMPLETE - READY FOR NWM
  
```

**FIG. 1 – Sample ODA Load Printout**

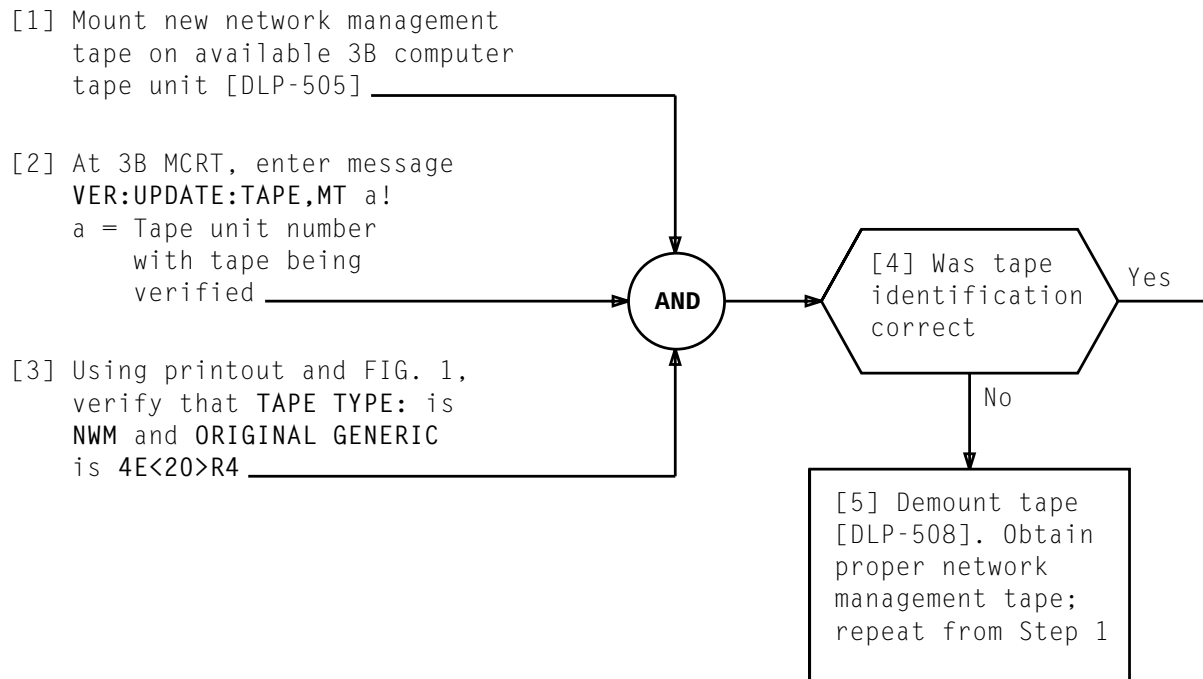


**ENSURE 3B COMPUTER UNITS ARE IN-SERVICE**

|             |            |
|-------------|------------|
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| TABLE A               |                            |
|-----------------------|----------------------------|
| UNIT TYPE             | TROUBLE-CLEARING VOLUME    |
| 3B Computer Model 1   | 254-301-812<br>254-301-813 |
| 3B Computer Model 2/3 | 254-302-812                |



TAPE TYPE: NWM  
 ORIGINAL GENERIC 4E<20>4R  
 MOST RECENT OFL GENERATION: YR 94,MON 10,DAY 06 AT 08:30  
 THIS TAPE WRITTEN: YR 94,MON 10,DAY 06 AT 12:40  
 FS IDS: 0000000010000000,TAPE IDS: 0000000011110100  
 PRTL UPD FLG: 0,PHASE REQD: 0000000

**FIG. 1 – Sample Network Management Tape Header Printout**

## VERIFY NETWORK MANAGEMENT TAPE IDENTIFICATION

|             |            |
|-------------|------------|
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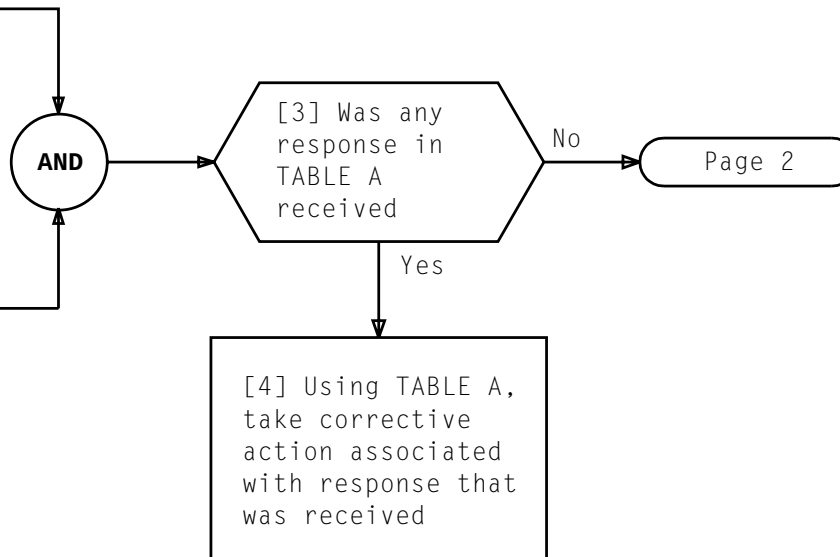
[1] See NOTES 1 and 2.

At 3B MCRT, enter message

LOAD:UPDATE:CONT NWM,MT a!

a = Tape unit number with network  
management tape mounted

[2] Observe printout and determine  
if any TABLE A response was  
received



| TABLE A                                        |                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| RESPONSE                                       | CORRECTIVE ACTION                                                                                      |
| TAPE DRIVE NOT READY – CORRECT AND ENTER AGAIN | Correct tape drive problem and repeat from Step 2                                                      |
| WRONG GENERIC – CHANGE TAPE AND ENTER AGAIN    | Demount wrong network management tape. Obtain correct tape and mount on tape drive. Repeat from Step 2 |
| INVALID COMMAND - ENTER AGAIN                  | Repeat from Step 2                                                                                     |

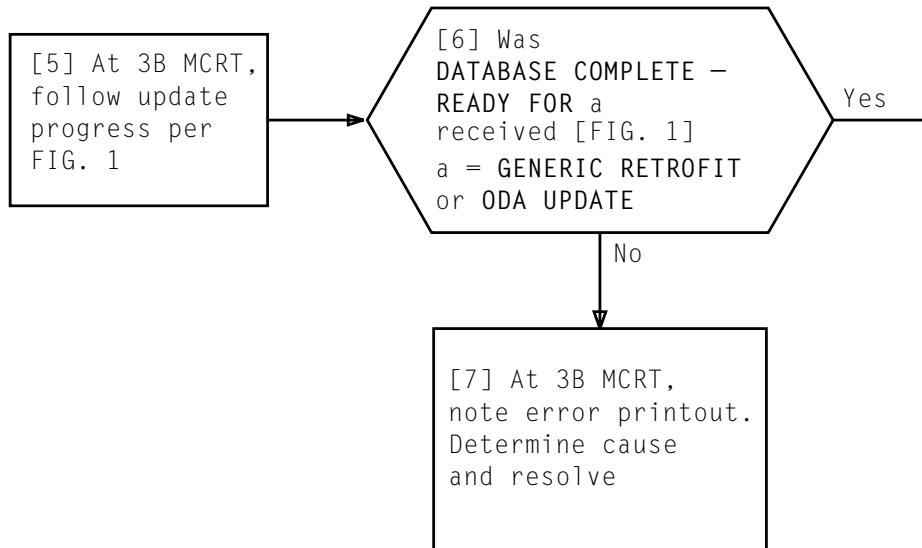
NOTES

1. When network management is loaded satisfactorily, system will complete building 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

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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 a

**FIG. 1 – Sample Network Management Load Printout**

[1] At 3B MCRT, enter message  
VER:APPFILE UPD!

[2] Read NOTE 1. Observe printout  
for 0 errors per TABLE A

AND

[3] Was completed  
with 0 errors  
message received  
[TABLE A]

Yes

No

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

TABLE A

| MESSAGE<br>NUMBER | OUTPUT MESSAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                 | VER:APPFILE STARTED, /dev/1afileX (X = 0 or 1)<br>VER:APPFILE /dev/1afileX MERGE AREA, MSG IP, 0 ERRORS DETECTED<br>VER:APPFILE /dev/1afileX ID 1, MSG IP, 0 ERRORS DETECTED (Generic Area)<br>VER:APPFILE /dev/1afileX ID 2, MSG IP, 0 ERRORS DETECTED (Library Area)<br>VER:APPFILE /dev/1afileX ID 3, MSG IP, 0 ERRORS DETECTED (ODA Area)<br>VER:APPFILE /dev/1afileX ID 7, MSG IP, 0 ERRORS DETECTED (Network Management Area)<br>VER:APPFILE /dev/1afileX ID 11, MSG IP, 0 ERRORS DETECTED (RC Rollback Area)<br>VER:APPFILE /dev/1afileX ID 12, MSG IP, 0 ERRORS DETECTED (Traffic and Plant Management Area)<br>VER:APPFILE /dev/1afileX ID 17, MSG IP, 0 ERRORS DETECTED (Paged Program Area)<br>VER:APPFILE /dev/1afileX COMPLETED, 0 ERRORS DETECTED |

NOTE 1

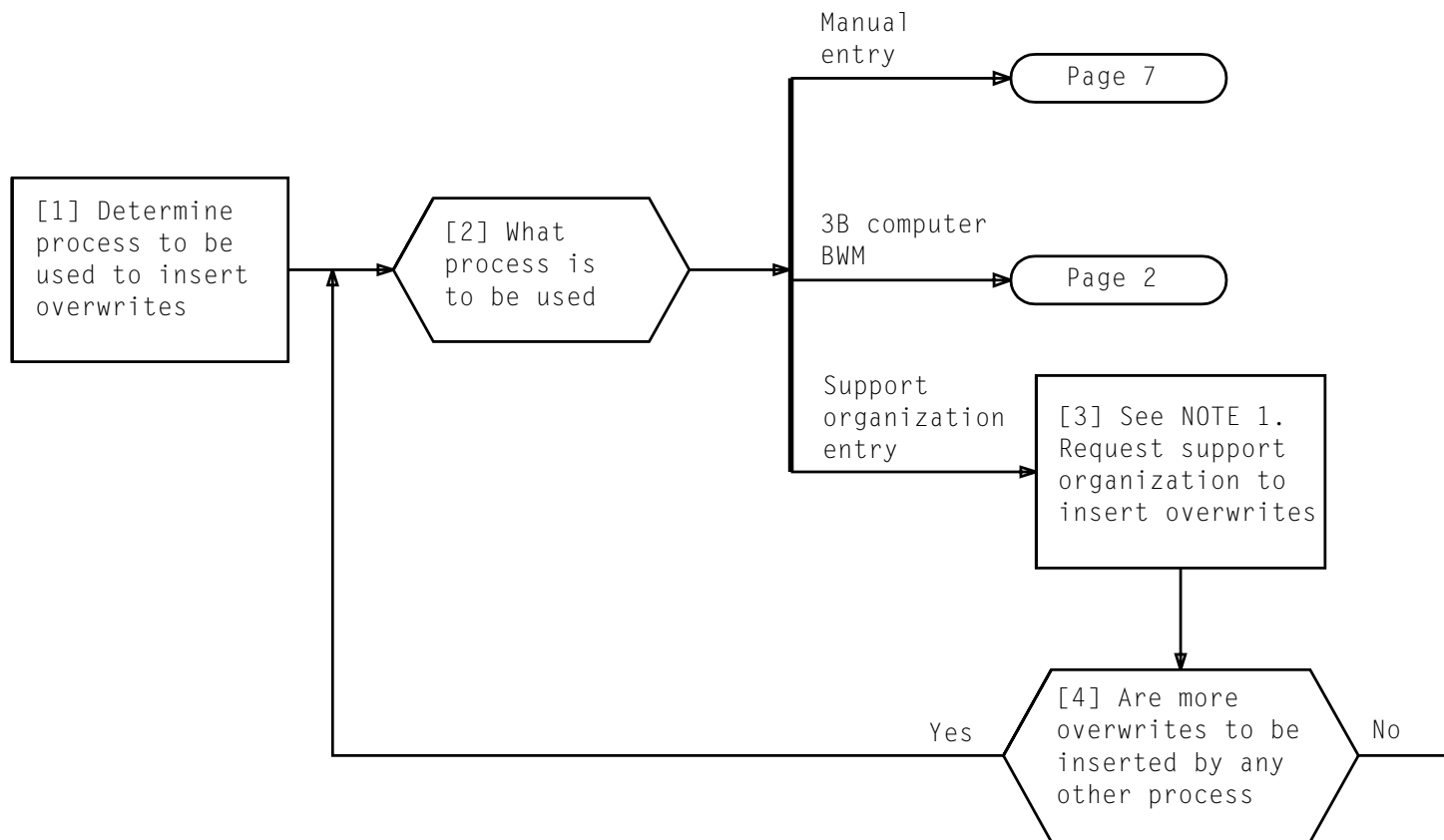
It takes  
approximately 35  
minutes for verify  
to complete

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VERIFY 1AFILE HASHED AREAS



|                                                                                              |          |  |
|----------------------------------------------------------------------------------------------|----------|--|
| NOTE 1<br>Overwrites from support organization must be in form of TABLE B or TABLE C, Page 6 |          |  |
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[5] Request support organization to  
download BWM to 3B computer disks

[6] At 3B MCRT, depress **NORM DISP (PF2)**  
key and enter **1960** in command mode  
to obtain display Page 1960

[7] Enter **9000,xxxx** to select BWM  
(xxxx = BWM number to be applied)

[8] Enter **9010** to verify BWM

[9] Enter **9110** to select and  
display APPLY section

[10] Enter **9310** to execute APPLY section

[11] Wait for EXECUTE APPLY COMPLETED: APPLY SECTION  
message to be received

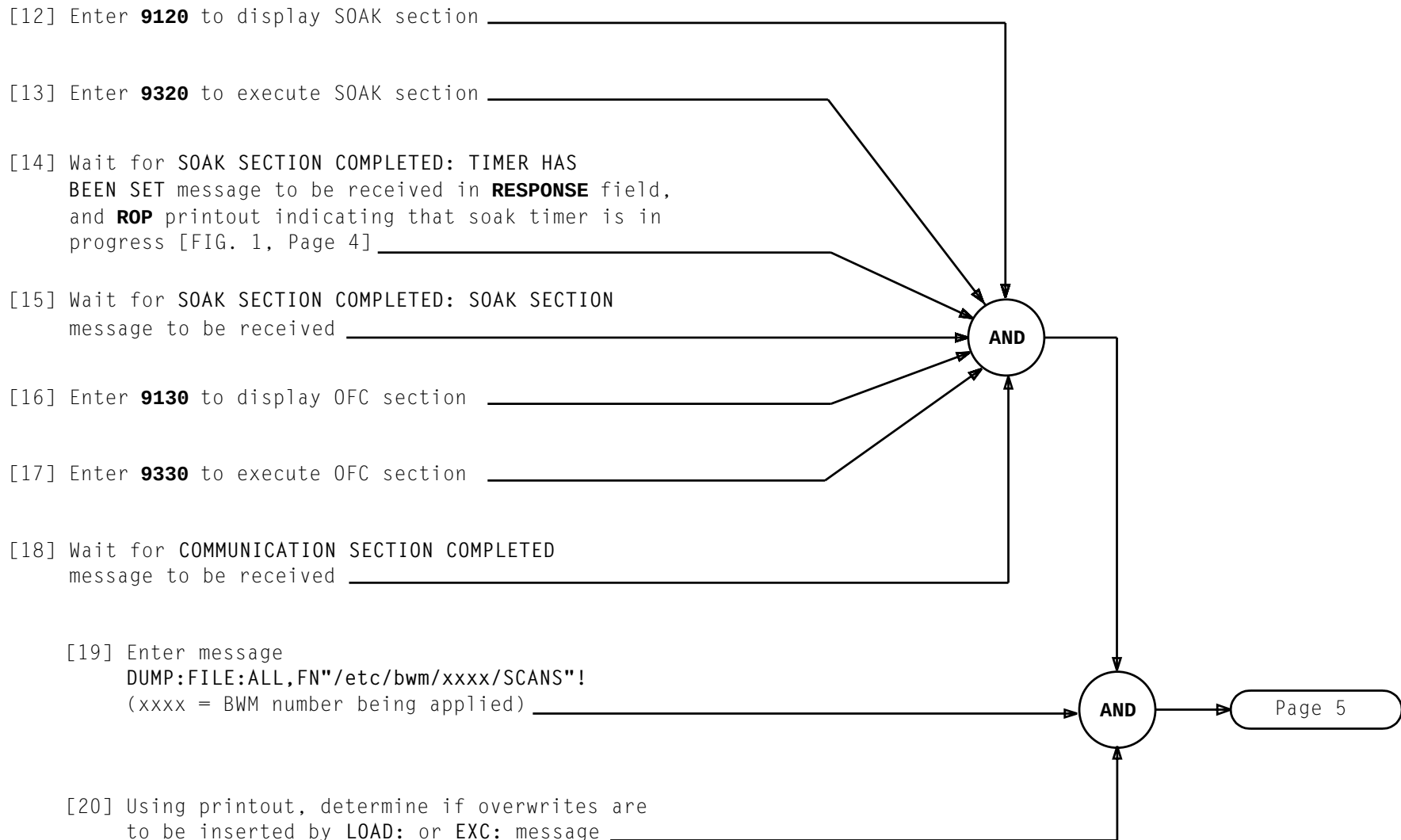
AND

AND

Page 3

**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

|              |            |
|--------------|------------|
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**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

|              |          |
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```

_____UPD PRINT SOAK TIMER IN PROGRESS _____
BWM NAME = CFT94-0165      REMAINING SOAK PERIOD = 23:59 (HH:MM)

      CURRENT SOAK TIMER
START      Wed Jul 27 23:32:54 1994
END        Thu Jul 28 23:32:54 1994
DURATION   24:0 (HH:MM)

      PREVIOUS SOAK TIMER
START      Wed Jul 27 23:32:54 1994
END        Thu Jul 28 23:32:54 1994
DURATION   24:0 (HH:MM)

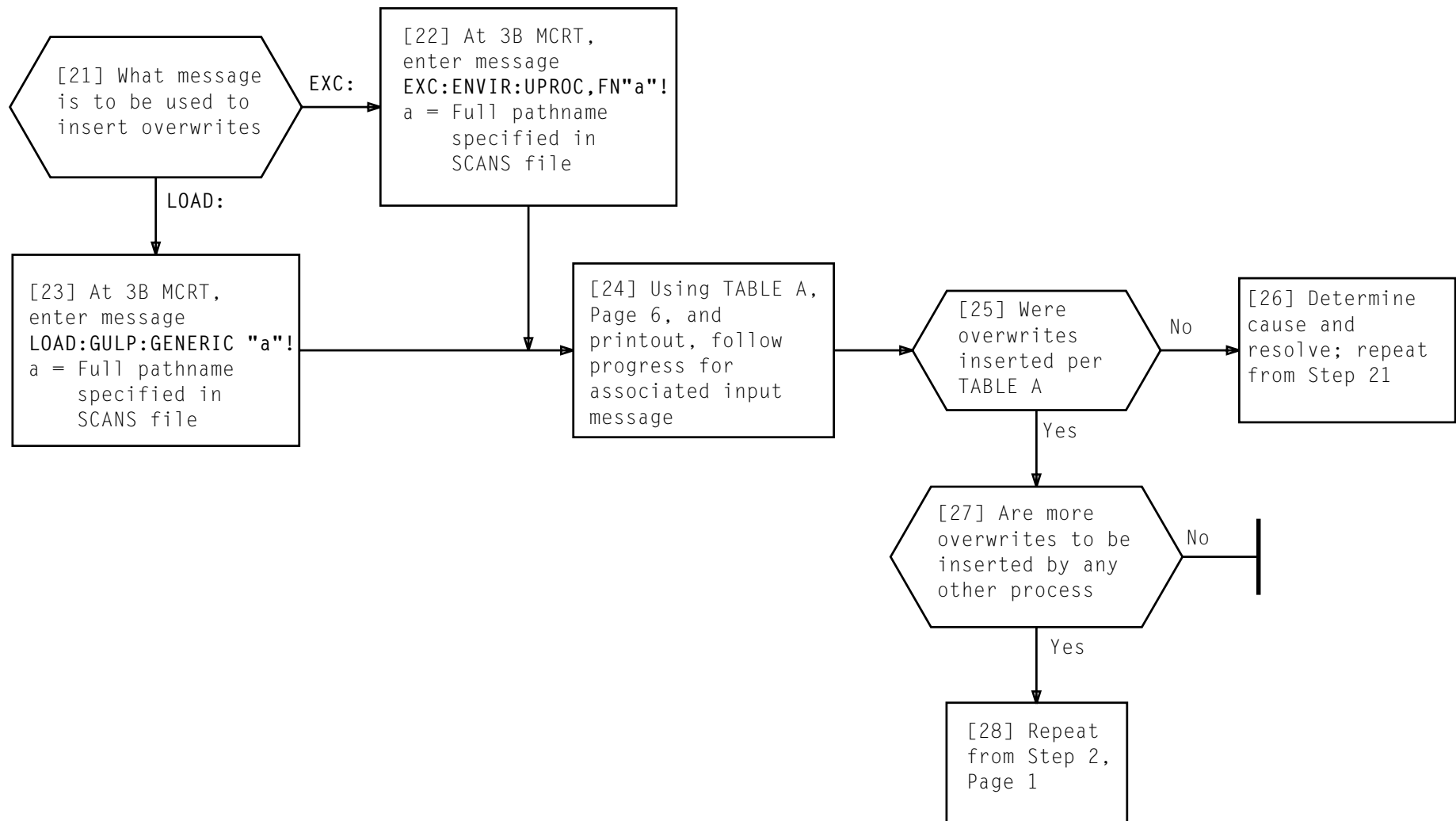
_____END OF BWM SOAK TIMER INFORMATION _____
UPD PRINT SOAK TIMER COMPLETED

```

**FIG. 1 - Sample Soak Timer Printout**

**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

|              |            |
|--------------|------------|
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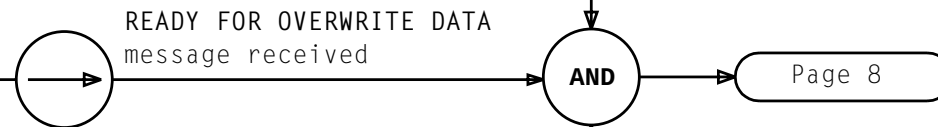
**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

|              |            |
|--------------|------------|
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| TABLE A                                                                                                                                                                                                                                                                                                                               |                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| EXC: INPUT MESSAGE                                                                                                                                                                                                                                                                                                                    | LOAD: INPUT MESSAGE                                                                                                   |
| OUTPUT MESSAGE                                                                                                                                                                                                                                                                                                                        | OUTPUT MESSAGE                                                                                                        |
| IN:OSOW:START!<br>READY FOR OVERWRITE DATA<br>IN:OSOW:a b,DATA c!<br>IN:OSOW COMPLETED<br>MM ADR      FS ADR   ID   OLD DATA   NEW DATA<br>vvvvvvvvv   wwwwwwww   xx   yyyyyyyy   zzzzzzzz<br>READY FOR OVERWRITE DATA<br>.<br>.<br>.<br>IN:OSOW:UPD[,HASHSUM d]!<br>EXC ENV UPROC COMPLETED<br>OVERWRITE DATA WRITTEN TO UPDATE FILE | BUILDING OW BUFFER — OW BLOCK 1<br>BUILDING OW BUFFER — OW BLOCK 2<br>.<br>.<br>.<br>DATABASE UPDATED WITH OVERWRITES |
| a = MMADR or FSADR<br>b = Main memory or disk address for data being changed<br>c = Data being changed<br>d = Hashsum value<br>v = Main memory address<br>w = Translated file system address<br>x = ID<br>y = Old data<br>z = New data                                                                                                |                                                                                                                       |

[29] Collect and list overwrite(s) to be inserted into 4E19 generic or ODA loaded in update file

[30] At 3B MCRT, enter message  
IN:OSOW:START! [NOTE 2]



[31] At 3B MCRT, insert overwrite(s) into buffer area using input message in TABLE B (main memory overwrite) or TABLE C (FS only overwrite) [NOTE 3]

| TABLE B        |                                                                                                                                                                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | INPUT MESSAGE                                                                                                                                                                                                                                                                                                      |
| 1              | IN:OSOW:MMADR a,DAT b[,OLDDATA c]!<br><br>a = Main memory address (octal) for data to be changed<br>b = Data (octal) to be changed, or if a list, then enclose with parentheses and separate with commas<br>c = Expected value in octal of old data; if b is a list, then c must be a list of same format and size |

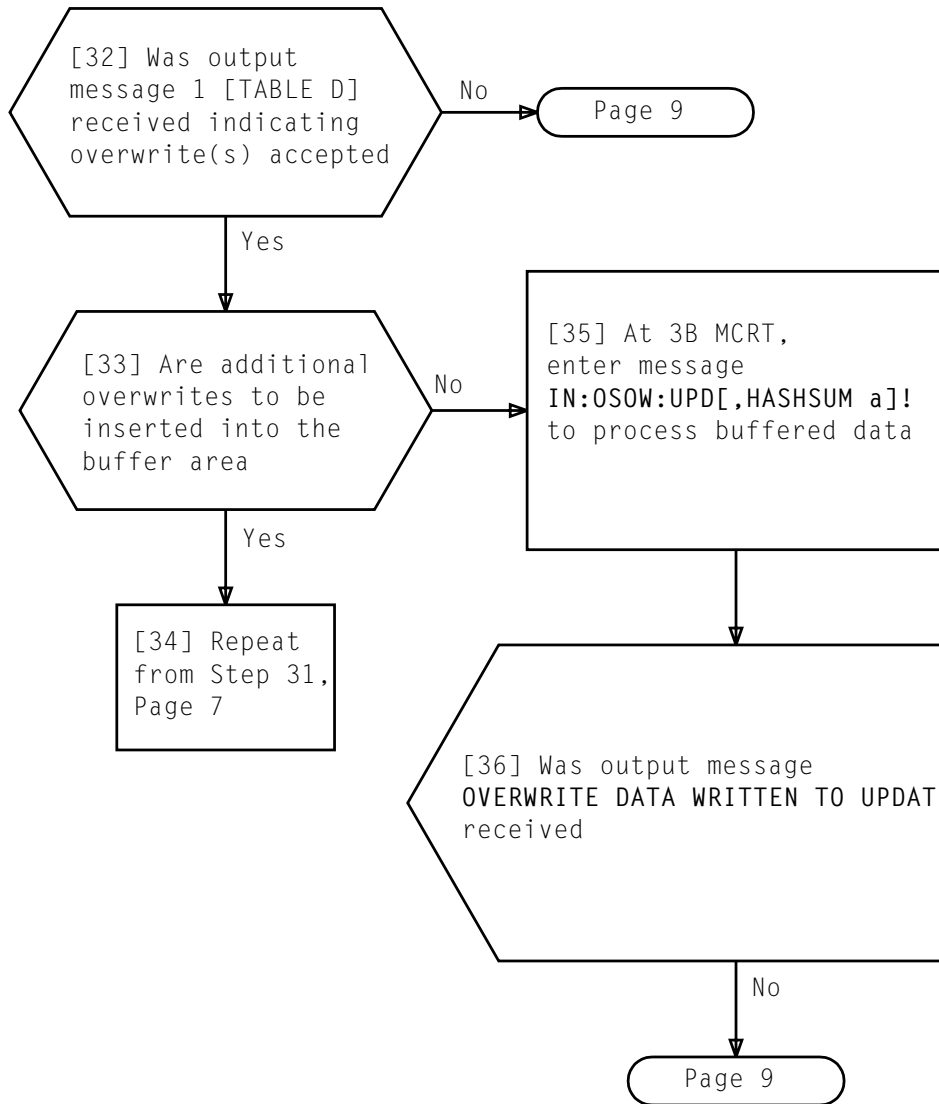
| TABLE C        |                                                                                                                                                                                                                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | INPUT MESSAGE                                                                                                                                                                                                                                                                                               |
| 1              | IN:OSOW:FSADR a,DAT b[,OLDDATA c]!<br><br>a = Disk address (octal) for data to be changed<br>b = Data (octal) to be changed, or if a list, then enclose with parentheses and separate with commas<br>c = Expected value in octal of old data; if b is a list, then c must be a list of same format and size |

#### NOTES

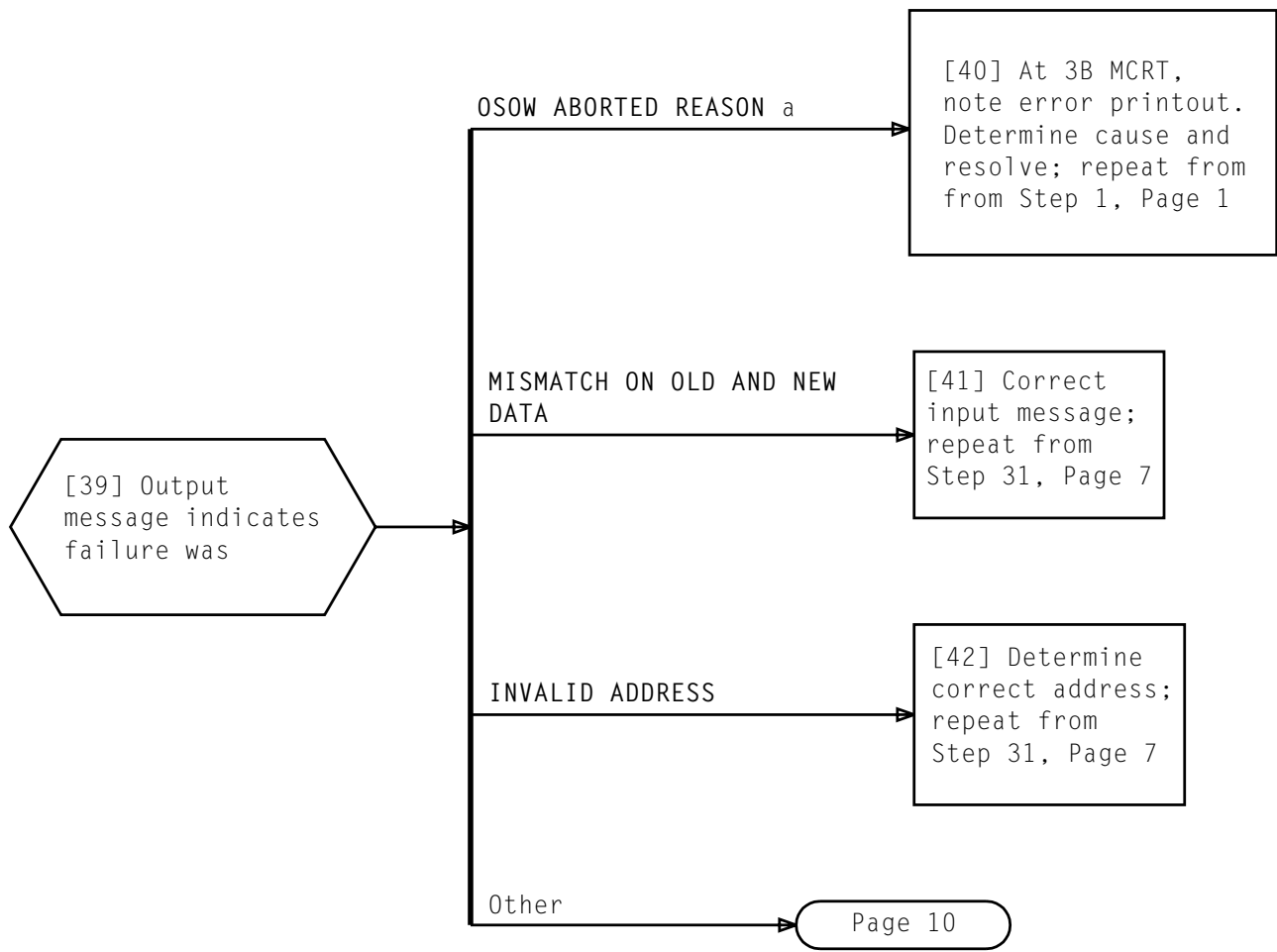
- Overwrite process will time out after 20 minutes of inactivity
- OLDDATA is not required to be inputted, but if information is available, it should be entered to ensure that right data is being changed

|              |          |
|--------------|----------|
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**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

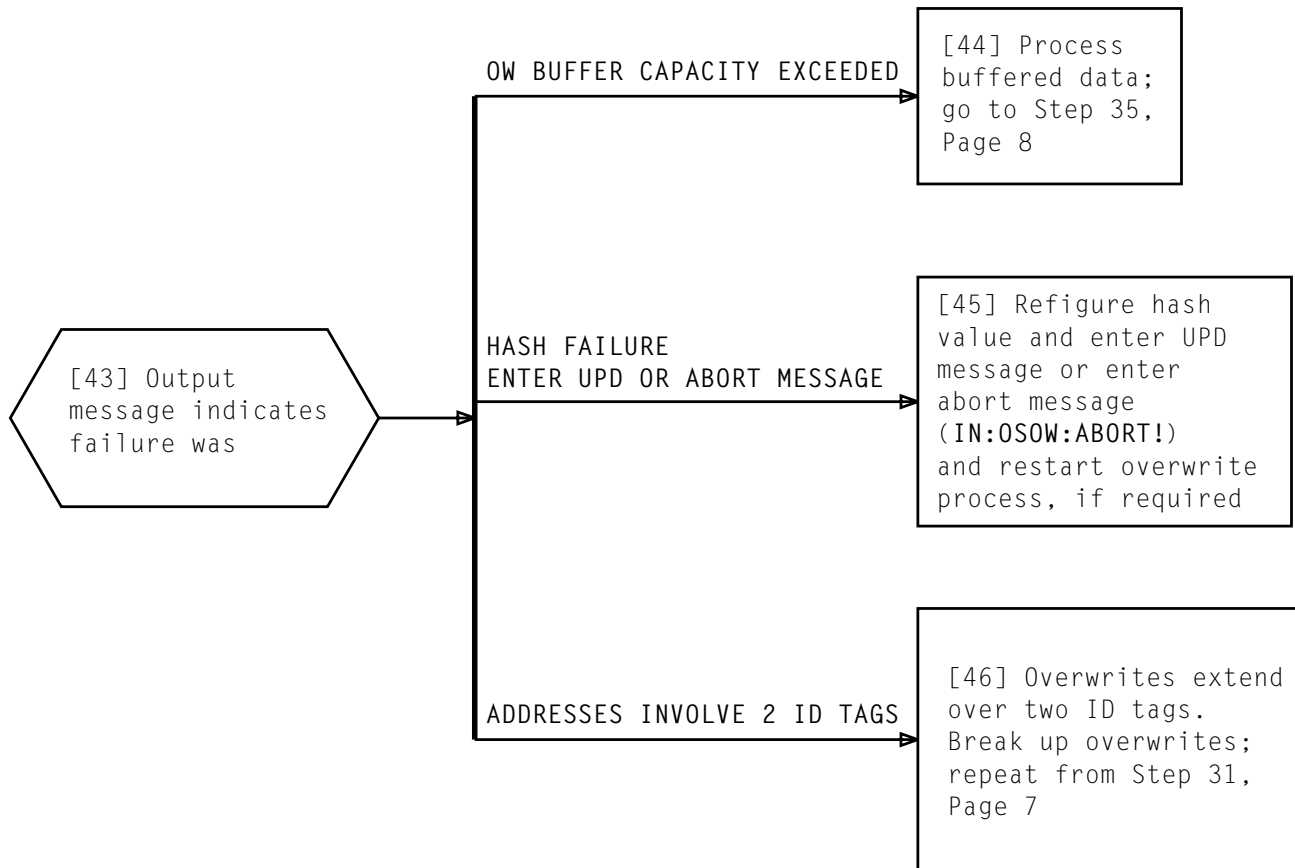


| TABLE D        |                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | OUTPUT MESSAGE                                                                                                                                                                                                                                                                                                                                                                                               |
| 1              | IN:OSOW COMPLETED<br>MM ADR FS ADR ID OLD DATA NEW DATA<br>xxxxxxxx yyyyyyyy zz aaaaaaaa bbbbbbbb<br>READY FOR OVERWRITE DATA<br>x = Main memory address of data to be changed<br>y = Translated file system address for main memory overwrite or file system address of file system only data being changed<br>z = ID (decimal)<br>a = Old data (or list of old data)<br>b = New data (or list of new data) |



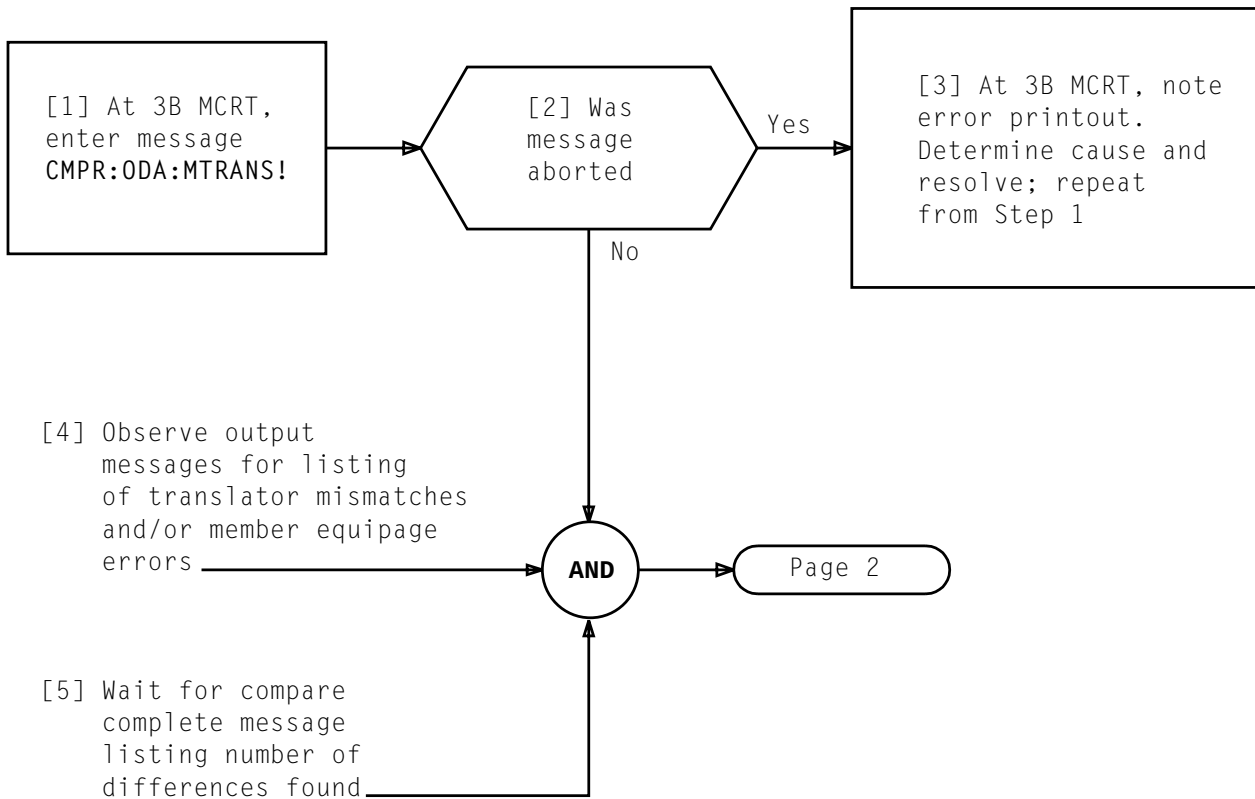
**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

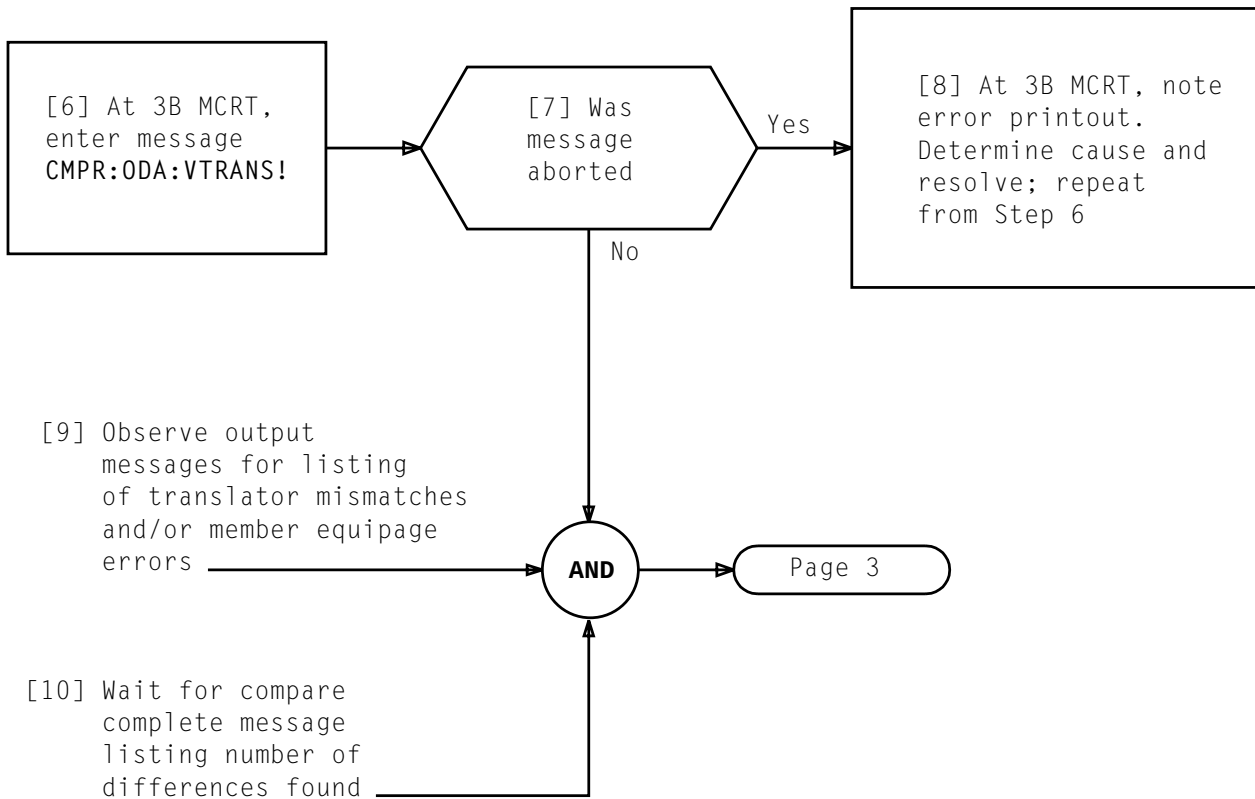
|              |            |
|--------------|------------|
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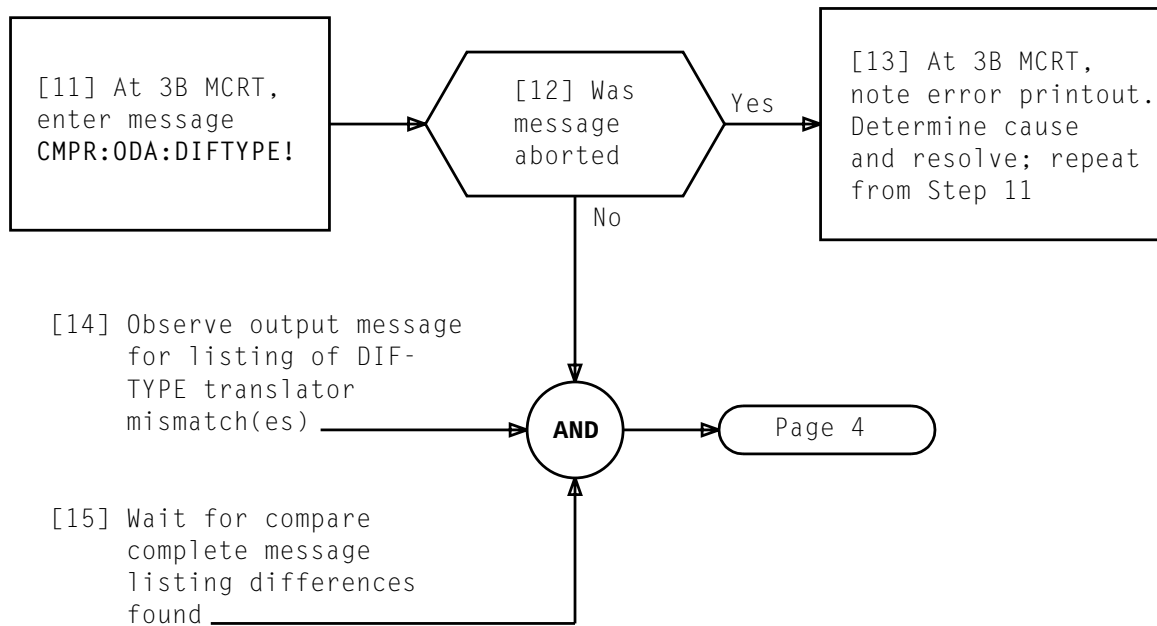


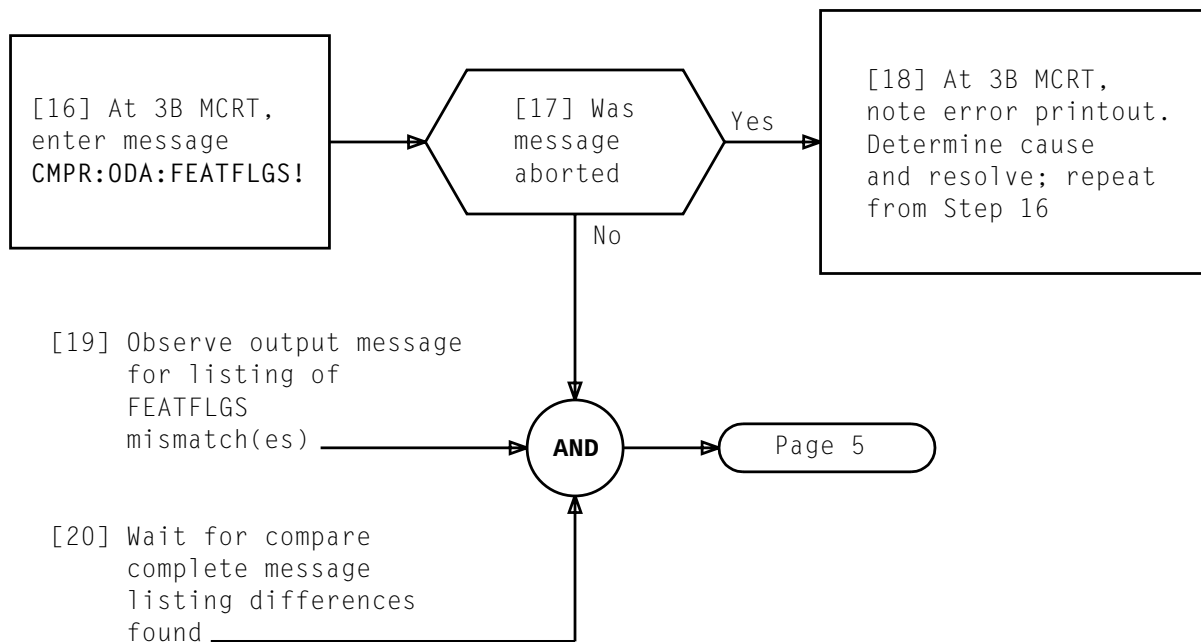
**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

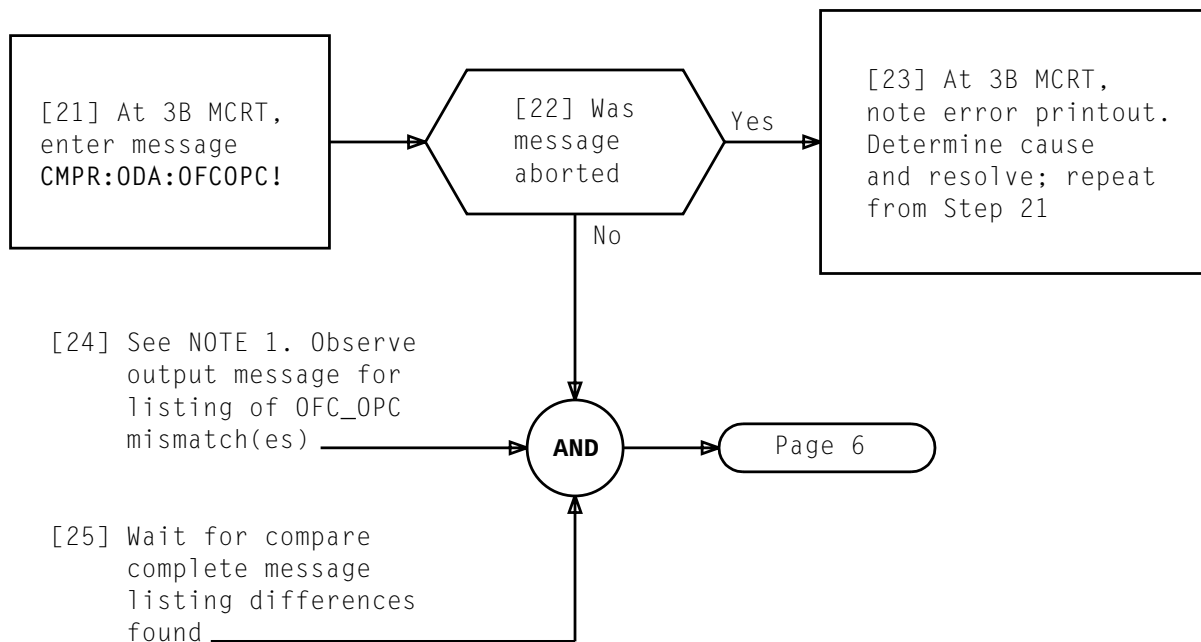
|               |            |
|---------------|------------|
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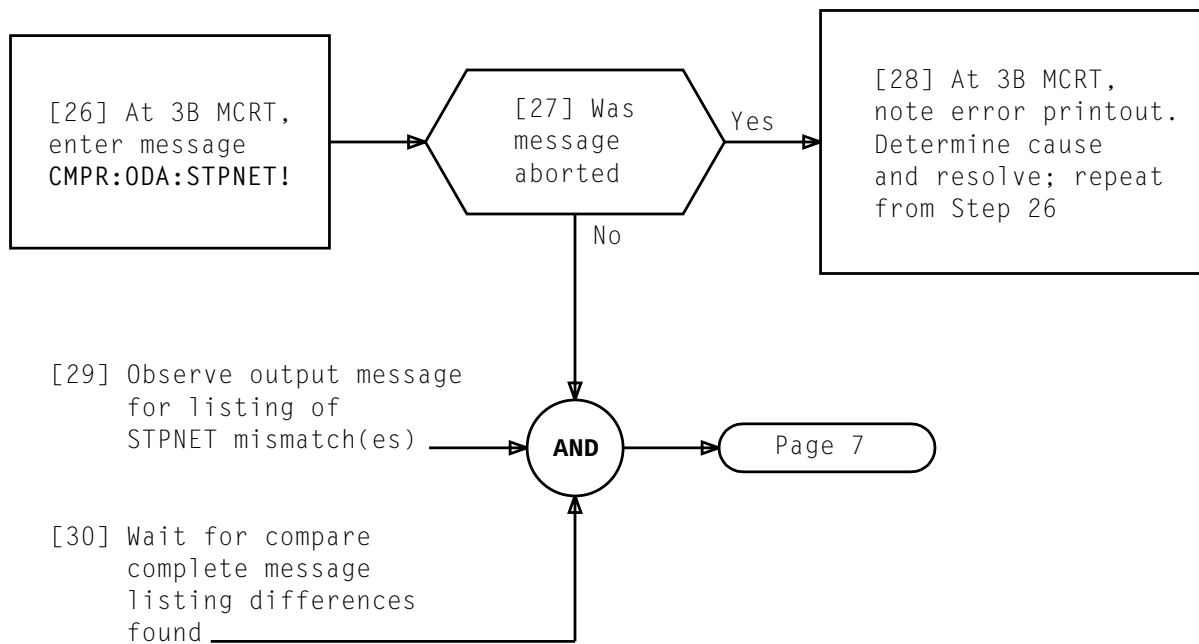


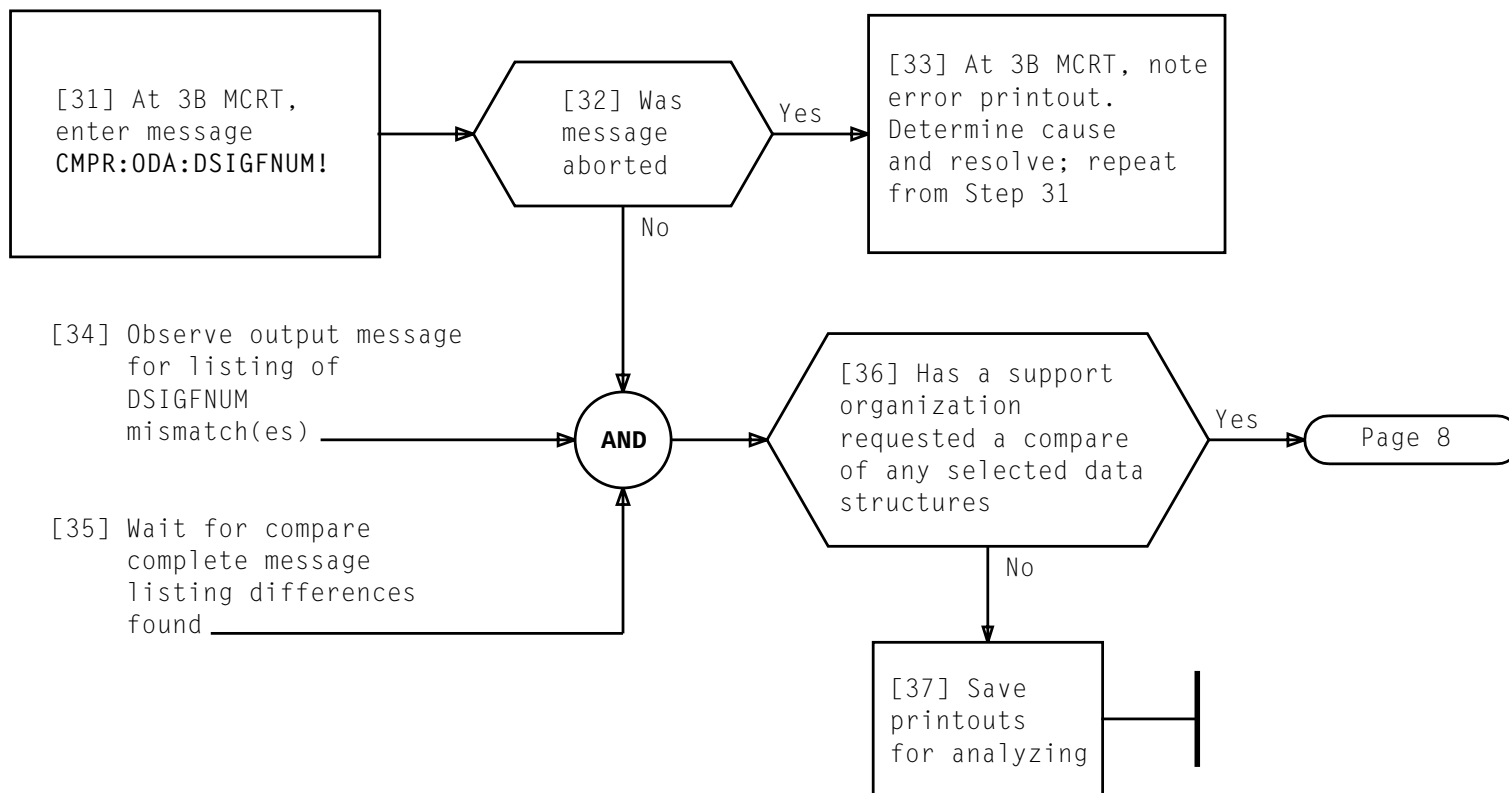




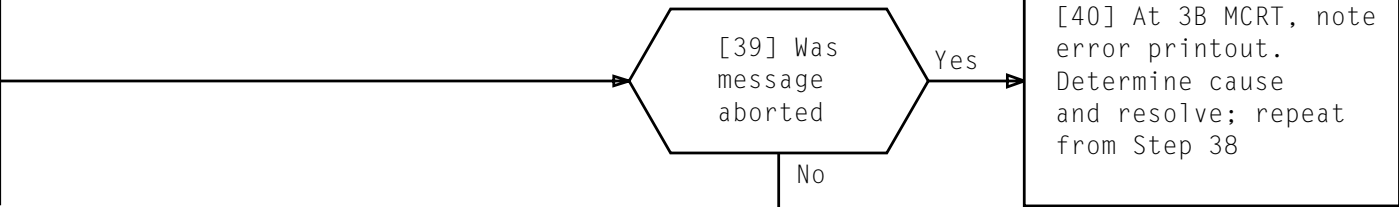


|                                                                |  |          |     |
|----------------------------------------------------------------|--|----------|-----|
| NOTE 1<br>Expect mismatch<br>if point code<br>is being changed |  |          |     |
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[38] At 3B MCRT, enter message 1 [TABLE F] for compare of selected data structure

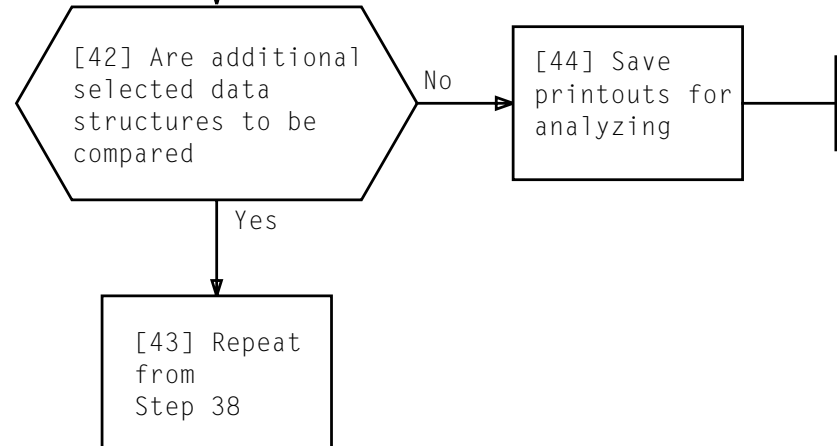


[40] At 3B MCRT, note error printout. Determine cause and resolve; repeat from Step 38

**TABLE F**

| MESSAGE NUMBER | INPUT MESSAGE                                                                                                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | CMPR:ODA:SPCL,ACTADR a,0OSADR b[,MASK c] [,L d]!<br>a = Octal address in main active memory<br>b = Octal address in main OOS memory<br>c = Octal mask of data to be compared; default is 7777777<br>d = Length in decimal; default is 1 |

[41] Observe output message 1 [TABLE G] for listing of any data mismatch(es)



[42] Are additional selected data structures to be compared

[44] Save printouts for analyzing

[43] Repeat from Step 38

**TABLE G**

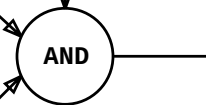
| MESSAGE NUMBER | OUTPUT MESSAGE                                                                                                                                                                                                                                                                                                                                                        |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | CMPR:ODA FOR DEMAND STRUCTURE NG<br>OLD NEW<br>ADR xxxxxxxx ADR yyyyyyyy<br>WORD# DATA WORD# DATA<br>n vvvvvvvv n wwwwww<br>. . . . .<br>. . . . .<br>n . . n . .<br>n = Translator word number (octal)<br>v = Data being compared in old ODA<br>w = Data being compared in new ODA<br>x = Address being compared in old ODA<br>y = Address being compared in new ODA |

[1] Refer to TABLE A, Page 2, for minimum hardware in-service requirements for update

[2] At 1B 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

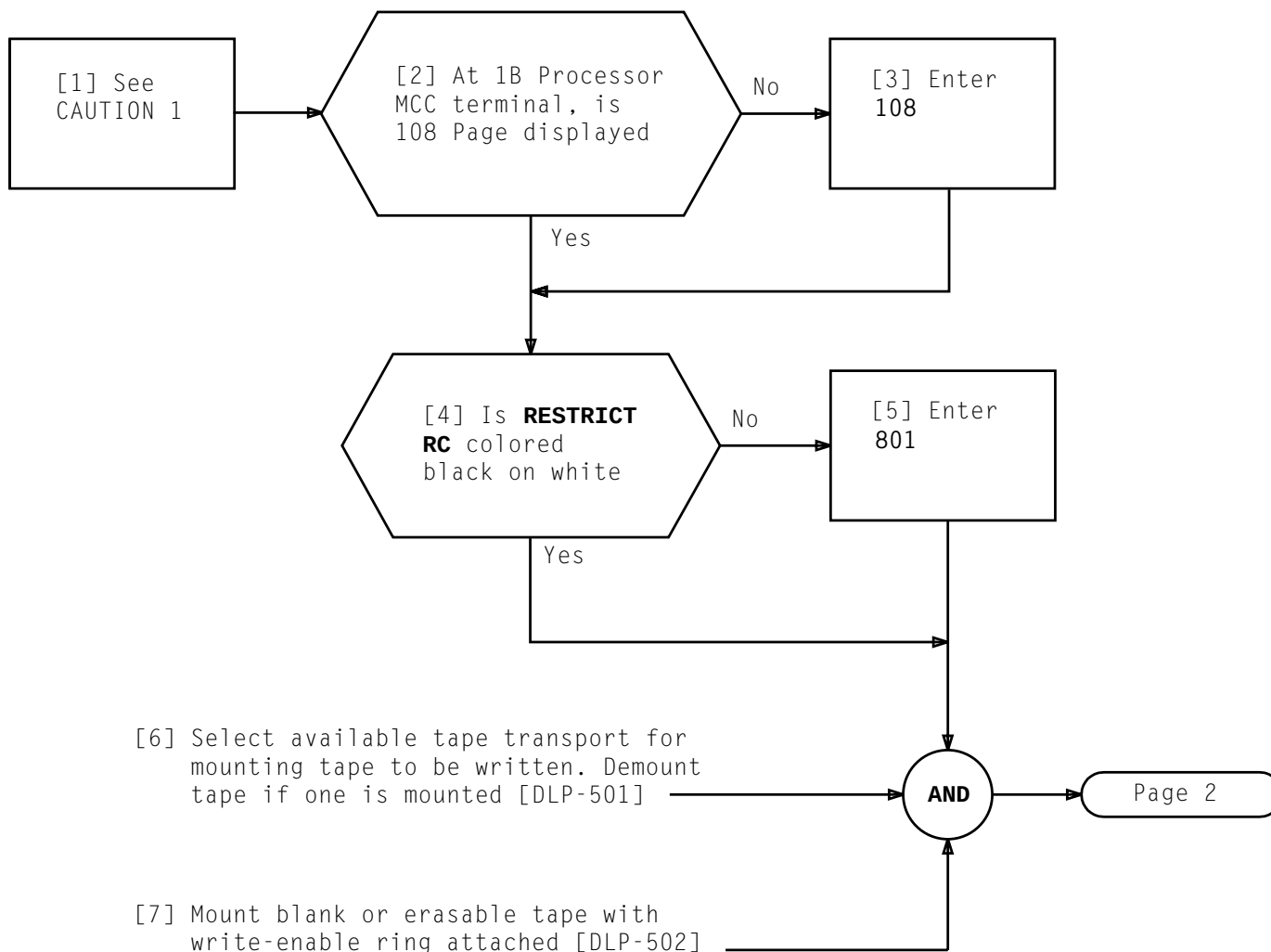
[4] See Note 1. Remove power from any operational unit which fails diagnostics



NOTE 1  
If an actual update, only remove power from units in trouble. When verifying tape compatibility, do not remove power from out-of-service units

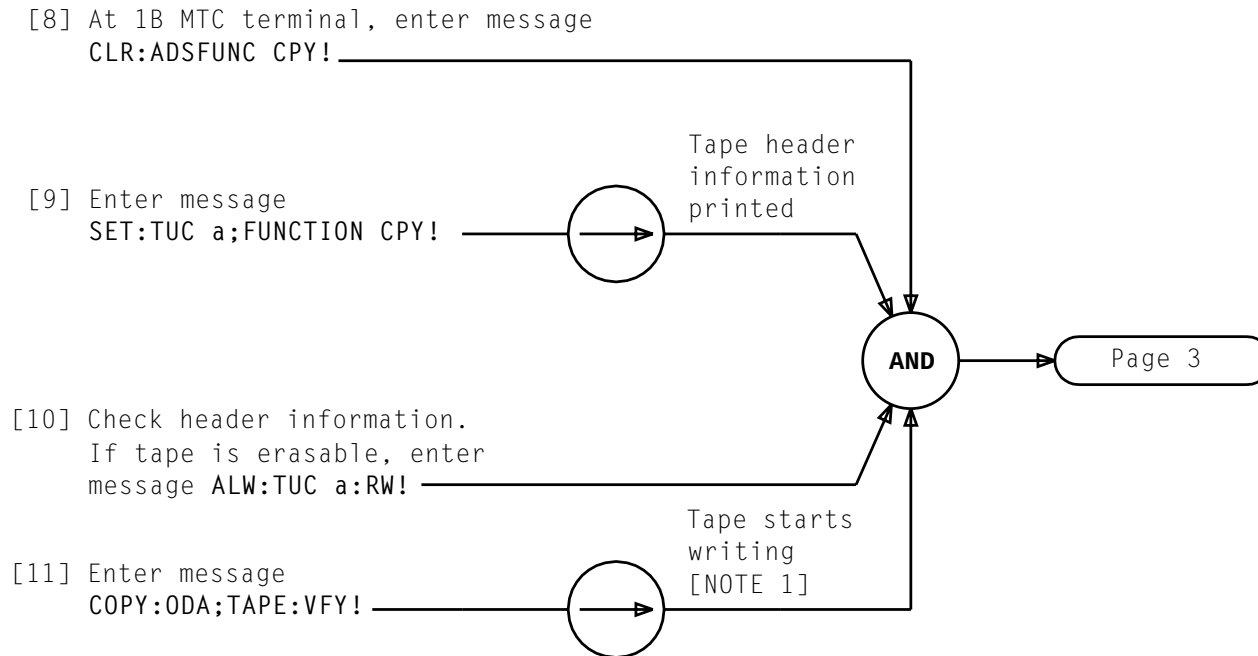
|             |          |
|-------------|----------|
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| TABLE A                                                            |                                                                                                                |                |                                                                                                                                                                 |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNIT                                                               | MINIMUM REQUIREMENTS*                                                                                          | UNIT           | MINIMUM REQUIREMENTS*                                                                                                                                           |
| 1B Processor                                                       | Operating full duplex                                                                                          | TSI            | Dedicated TSI operating duplex. All other TSIs in service with no more than one controller out of service                                                       |
| DUS                                                                | DUS 0 and 1 in service.<br>Must have run diagnostics<br>ATP including system<br>reinitialization phase         | TMS            | All in service operating in duplex                                                                                                                              |
| IOUS                                                               | All IOUSs and all essential<br>I/O channels in service                                                         | PUB            | Both peripheral unit buses in service                                                                                                                           |
| TUC                                                                | Office requirements plus two<br>available for update                                                           | NCLK           | All four clock chains in service                                                                                                                                |
| BUSES                                                              | All buses in service operating<br>in duplex                                                                    | VIF/DT/<br>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 |
| API                                                                | APIs duplex and in service                                                                                     | NM             | The network management function must be fully operational (to be used as a tool for evaluating office performance in new generic issue).                        |
| SCS                                                                | All controllers and service circuit units<br>available for service                                             | EST            | All ESTs in service and operating duplex                                                                                                                        |
| SP                                                                 | Base SPs operating full duplex. All other<br>SPs in service with no more than one<br>controller out of service | TGR            | All TGRs in service and operating duplex                                                                                                                        |
| *Any operational unit which fails diagnostics must be powered down |                                                                                                                |                |                                                                                                                                                                 |

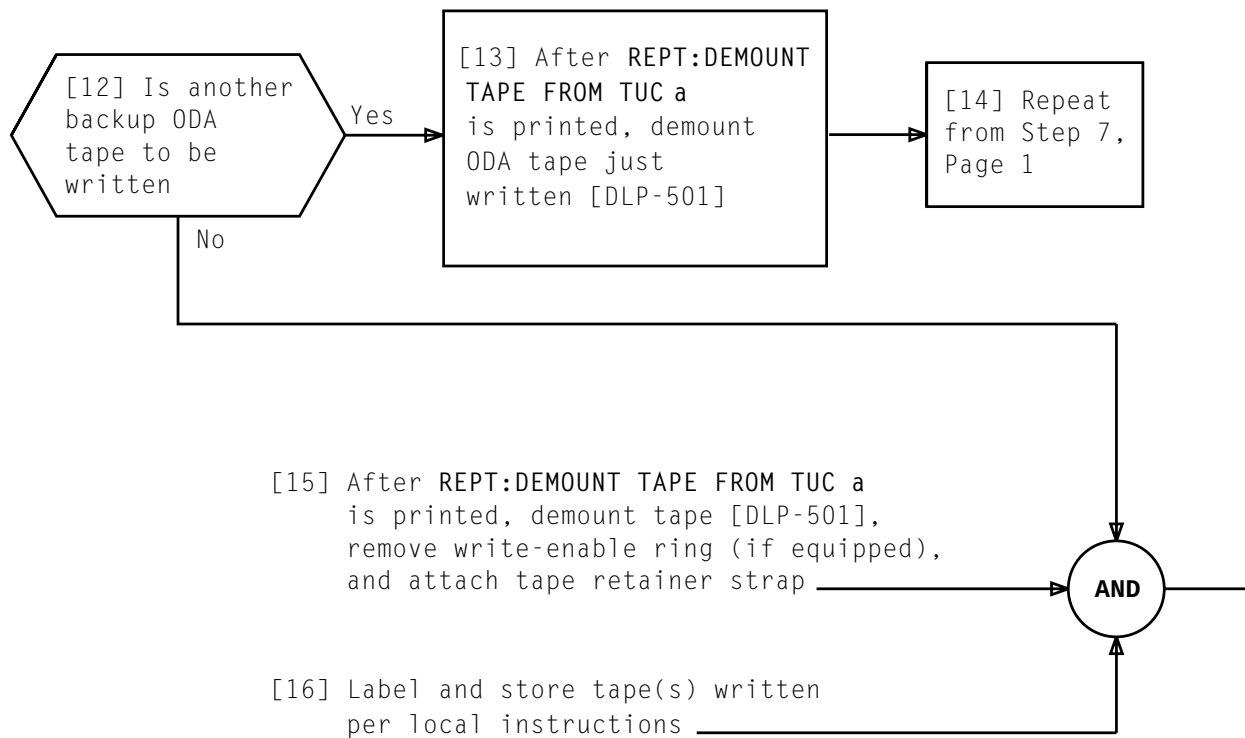


*CAUTION 1*  
*Certain system audits are inhibited during tape writing; therefore, tape writing should be done during light traffic periods*

|             |          |
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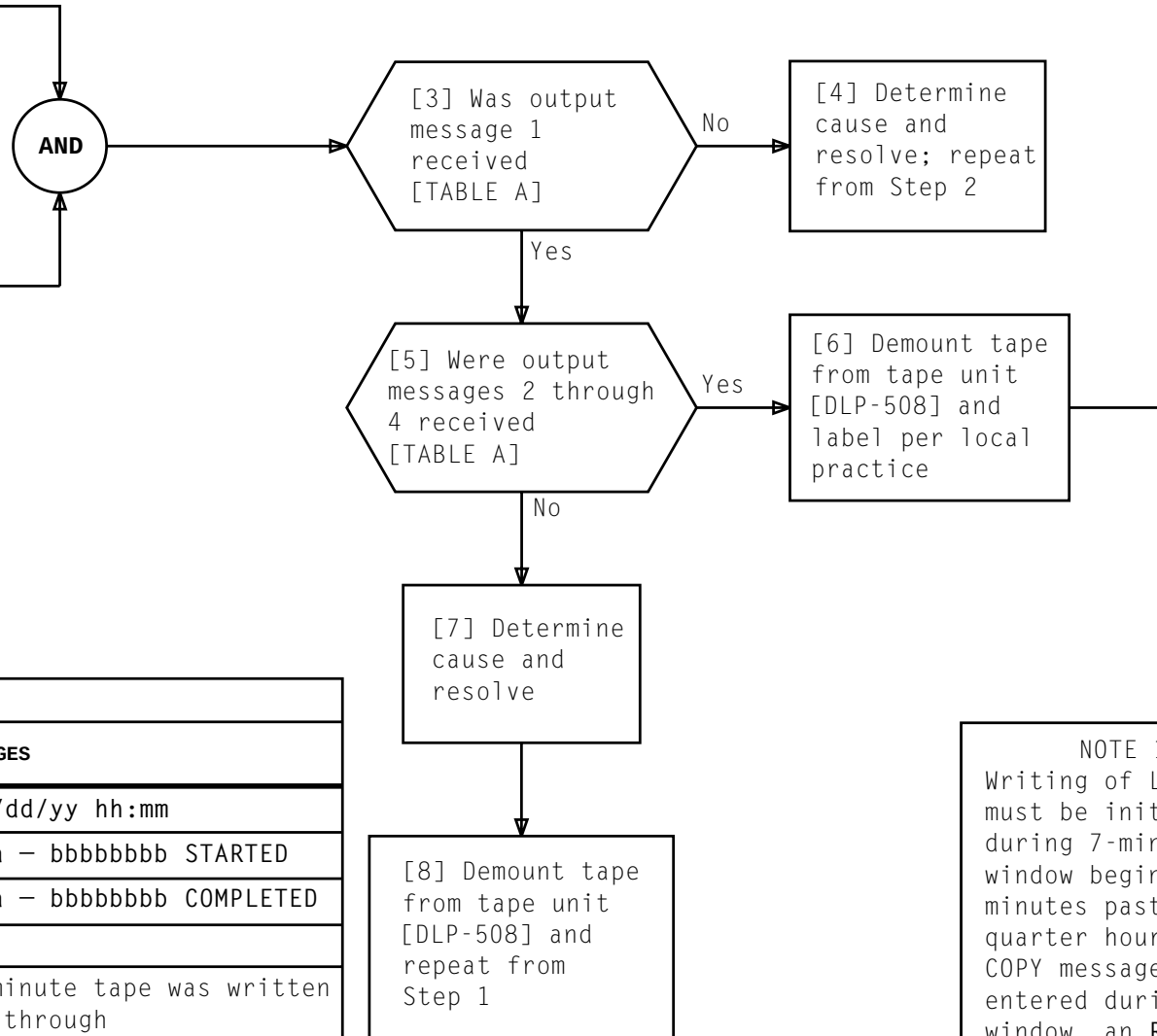


NOTE 1  
After ODA tape is written,  
COPY:ODA;TAPE COMPL date  
and time are printed.  
Tape will then rewind and  
be verified. After  
verification has been  
completed,  
COPY:VFY;TAPE COMPL  
is printed followed by  
REPT:DEMOUNT TAPE FROM  
TUC a



[1] Mount a blank or erasable tape with write enable ring attached on 3B computer tape unit [DLP-505]

[2] See NOTE 1. At 3B MCRT, enter message  
COPY:APPTAPE:LTS,MT a!  
a = tape unit number  
with tape mounted



| TABLE A                                                                                                                                        |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| MESSAGE NUMBER                                                                                                                                 | OUTPUT MESSAGES                                     |
| 1                                                                                                                                              | APPTAPE TYPE: LTS, WRITTEN mm/dd/yy hh:mm           |
| 2                                                                                                                                              | APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED   |
| 3                                                                                                                                              | APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED |
| 4                                                                                                                                              | APPTAPE COMPLETED                                   |
| mm/dd/yy hh:mm = month/day/year hour:minute tape was written<br>aaaaaaa = starting LTS address through<br>bbbbbbb = ending LTS address written |                                                     |

|                                                                                                                                                                                             |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| NOTE 1<br>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 |          |
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[1] See CAUTION 1. Inform MAC to not make any traffic scheduling changes while tape writing is in progress

[2] Select available tape transport for mounting tape to be written. Demount tape if one is mounted [DLP-501]

[3] Mount blank, or erasable, tape with write enable ring attached [DLP-502]

At 1B MTC terminal:

[4] Enter message  
CLR:ADSFUNC CPY!

[5] Enter message  
SET:TUC a;FUNCTION CPY!

[6] Check header information.  
If tape is blank or erasable,  
enter message ALW:TUC a:RW!

[7] Enter message  
COPY:TPM;TAPE:VFY!

Inhibits set  
and tape  
mounted

Tape header  
information  
printed

Tape  
writing  
started

Page 2

Writing of  
tape begins  
[NOTE 1]

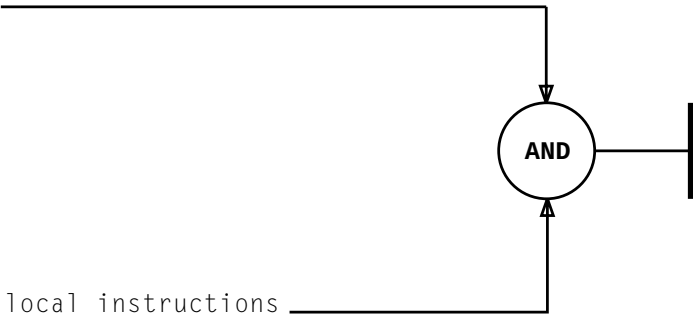
#### NOTE 1

After TPM tape is written, COPY:TPM;TAPE COMPL date and time are printed. Tape will then rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL is printed followed by REPT: DEMOUNT TAPE FROM TUC a

#### CAUTION 1

Certain system audits are inhibited during tape writing; therefore, tape writing should be done during light traffic periods

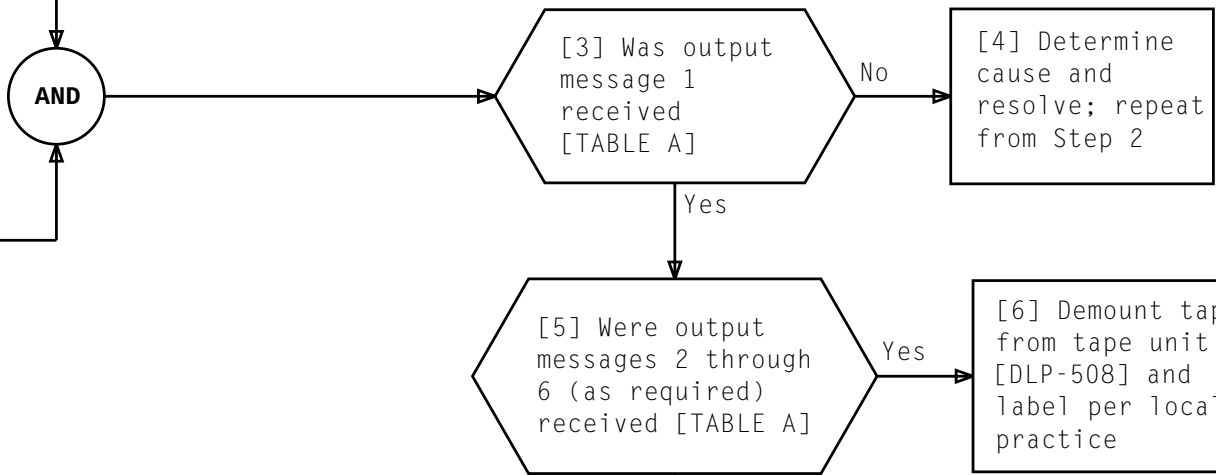
[8] After tape has been written  
and verified and REPT:DEMOUNT  
TAPE FROM TUC a is printed, demount  
tape just written [DLP-501] and  
remove write enable ring



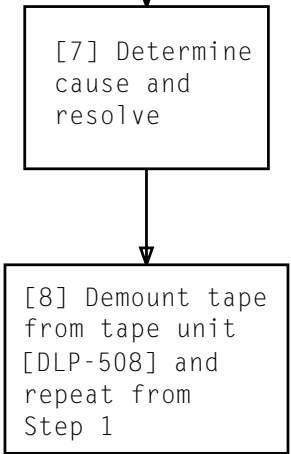
[9] Label and store tape per local instructions

[1] Mount a blank, or erasable, tape with write enable ring attached on 3B computer tape unit [DLP-505]

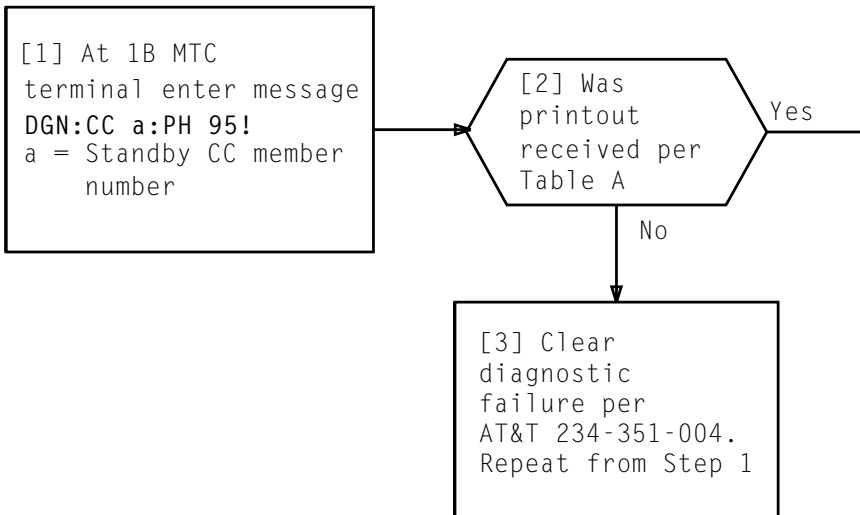
[2] At 3B MCRT, enter message  
COPY:APPTAPE:TOSL,MT a!  
a = tape unit number  
with tape mounted



| TABLE A                                                                                                                                            |                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| MESSAGE NUMBER                                                                                                                                     | OUTPUT MESSAGES                                     |
| 1                                                                                                                                                  | APPTAPE TYPE: TOSL, WRITTEN mm/dd/yy hh:mm          |
| 2                                                                                                                                                  | APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED   |
| 3                                                                                                                                                  | APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED |
| 4                                                                                                                                                  | APPTAPE COMPLETED                                   |
| mm/dd/yy hh:mm = month/day/year hour:minute tape was written<br>aaaaaaaa = starting TOSL address through<br>bbbbbbbb = ending TOSL address written |                                                     |



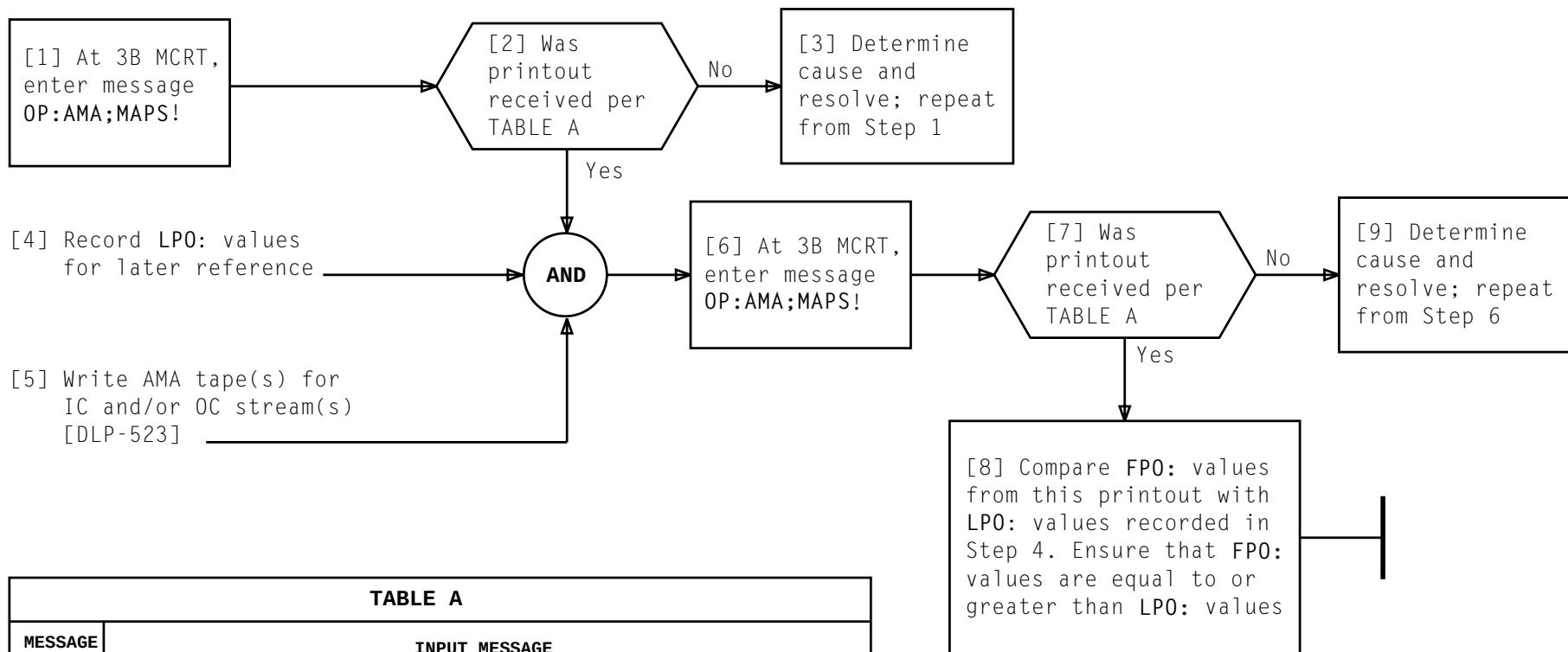
**WRITE BACKUP TRUNK OUT-OF-SERVICE LIST (TOSL) TAPE**



| TABLE A           |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| MESSAGE<br>NUMBER | OUTPUT MESSAGES                                                             |
| 1                 | DGN:CC a PH 95 ATP<br>DGN:CC a COMPLETED ATP MSG COMPL<br>TEST:CC a DFR ATP |

**RUN 1B PROCESSOR CC DIAGNOSTIC PHASE 95 TO TEST PC FUNCTION**

|             |            |
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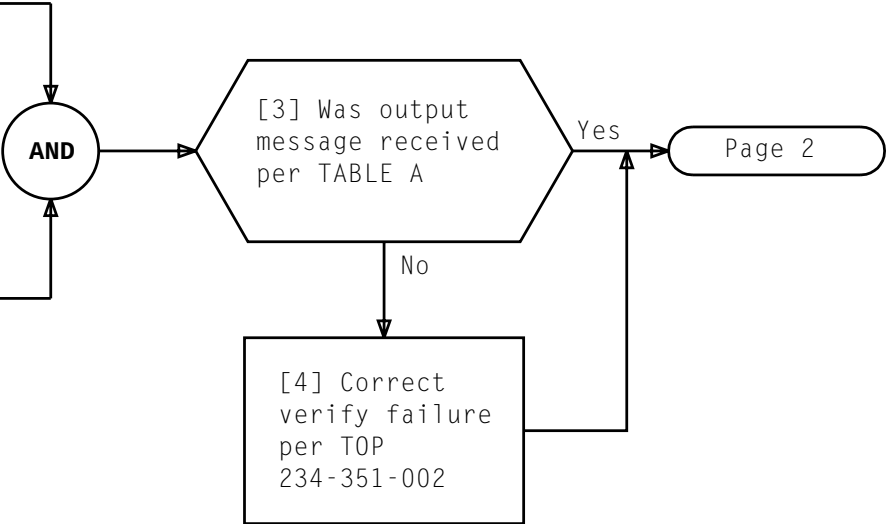
| TABLE A        |                                                                                                                                                                                                                                                                                                               |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | INPUT MESSAGE                                                                                                                                                                                                                                                                                                 |
| 1              | REPT AMA DISK MAPS<br>WRITE PARTITION a READ PARTITION<br>a = Partition number AMA data being written                                                                                                                                                                                                         |
| 2              | PARTITION b DISK MAP:<br>FPO: c      LPO: d      FPS: _____ LPS: _____<br>FS0: _____ LS0: _____ FSS: _____ LSS: _____<br>FB0: _____ LB0: _____ FBS: _____ LBS: _____<br><br>b = Equipped partition number<br>c = Read value to be recorded after AMA write<br>d = Write value to be recorded before AMA write |
| 3              | Message 2 is repeated for each equipped partition                                                                                                                                                                                                                                                             |

**SAVE PRIMARY AMA DATA ON TAPE**

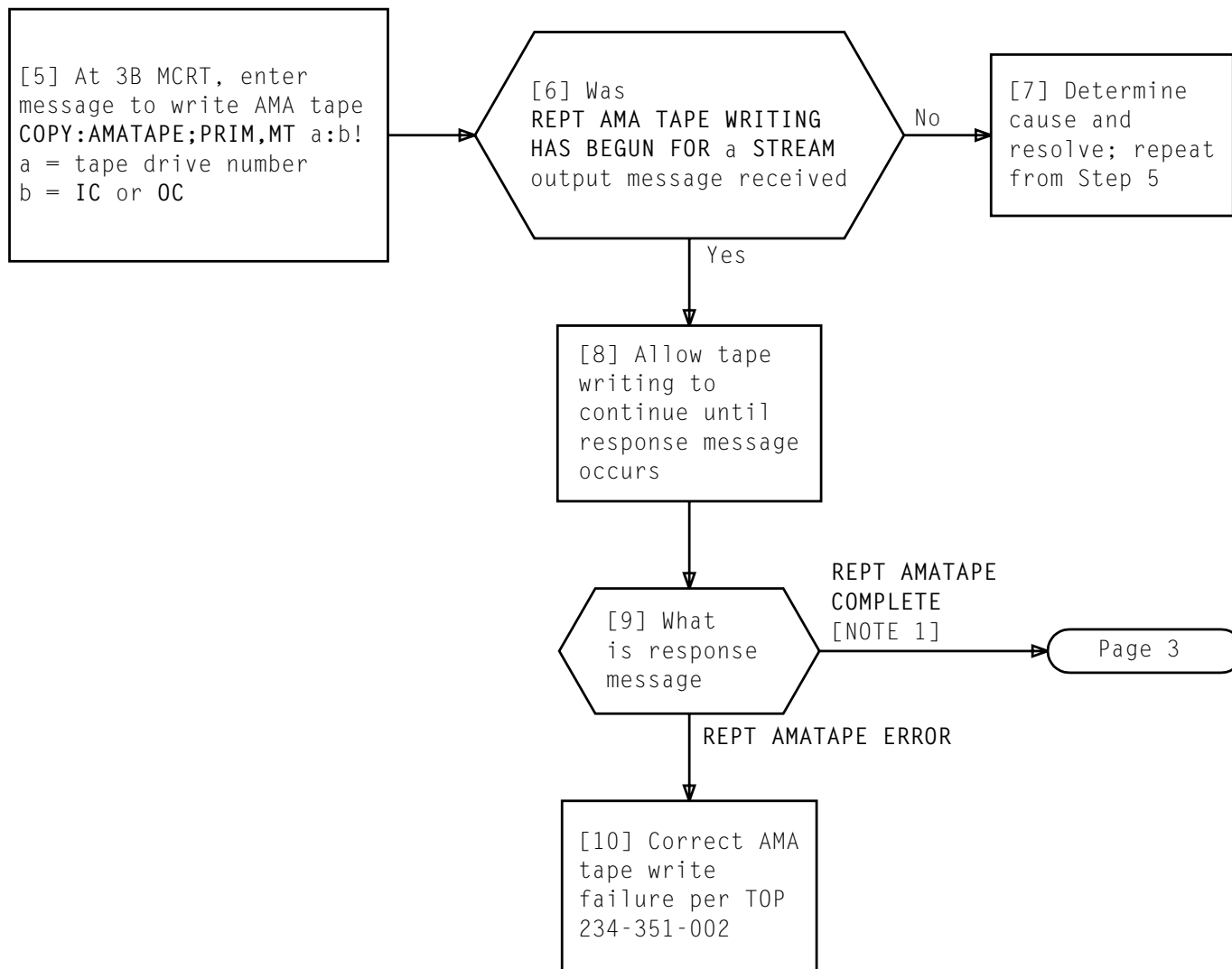
|             |          |
|-------------|----------|
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[1] Mount AMA tape, supplied by RA0, with write ring attached on in-service 3B computer tape drive [DLP-505]

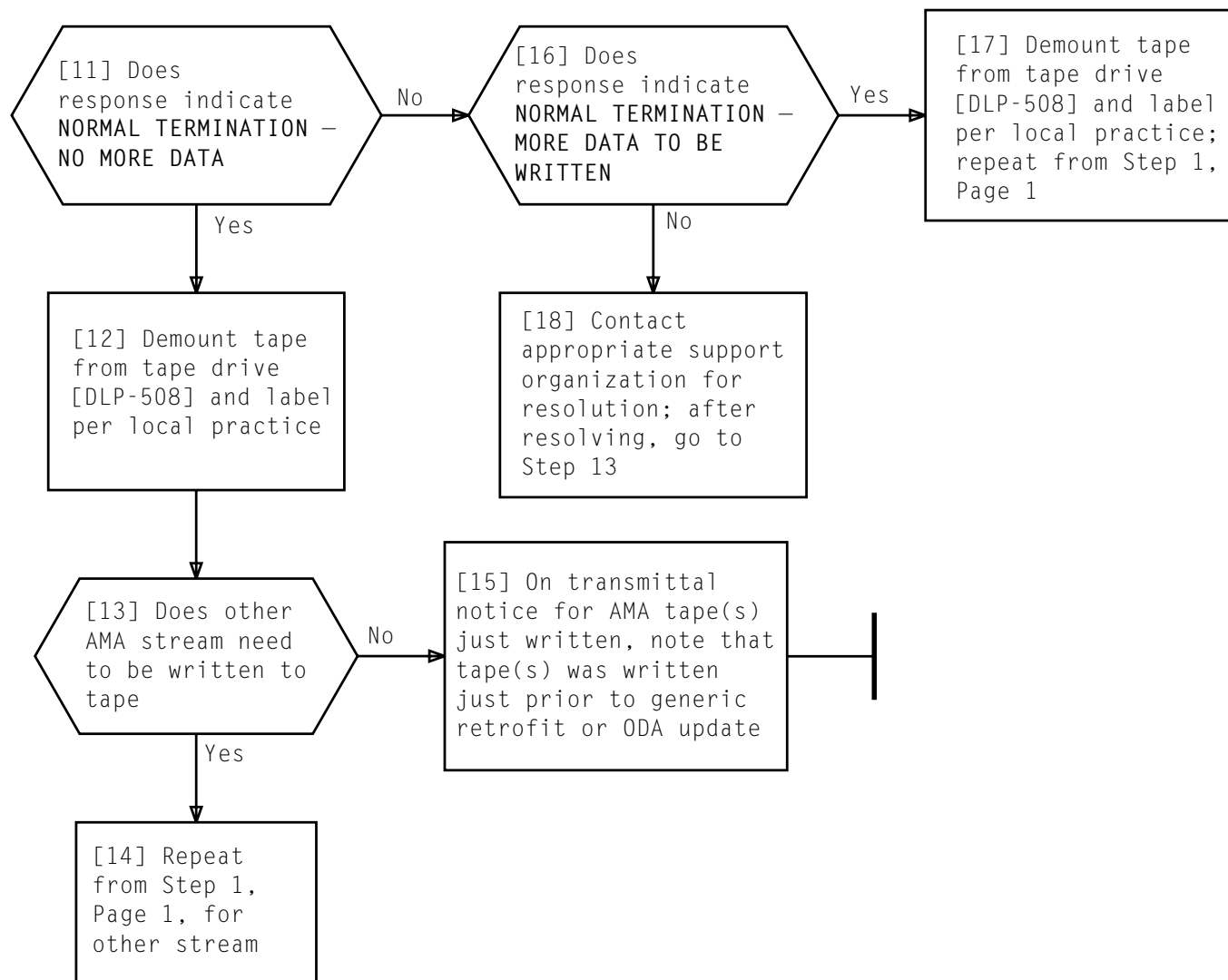
[2] At 3B MCRT, enter message for appropriate stream  
VER:AMATAPE;MT a:b!  
a = Tape drive number  
b = IC or OC



| TABLE A        |                                                                                                                                                                                                                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | OUTPUT MESSAGE                                                                                                                                                                                                                                                                                                                    |
| 1              | <p>REPT AMATAPE VERIFY FOR a STREAM<br/>VOL SER NUMBER b<br/>DATA SET ID c<br/>EXPIRATION DATE d-e<br/>TAPE DRIVE NUMBER f<br/>AMA TAPE CAN BE WRITTEN</p> <p>a = IC or OC<br/>b = Tape serial number<br/>c = Data set ID<br/>d = Year of expiration date<br/>e = Day of expiration (1 through 365)<br/>f = Tape drive number</p> |



|                                                             |          |
|-------------------------------------------------------------|----------|
| NOTE 1<br>Output message contains detailed data of AMA tape |          |
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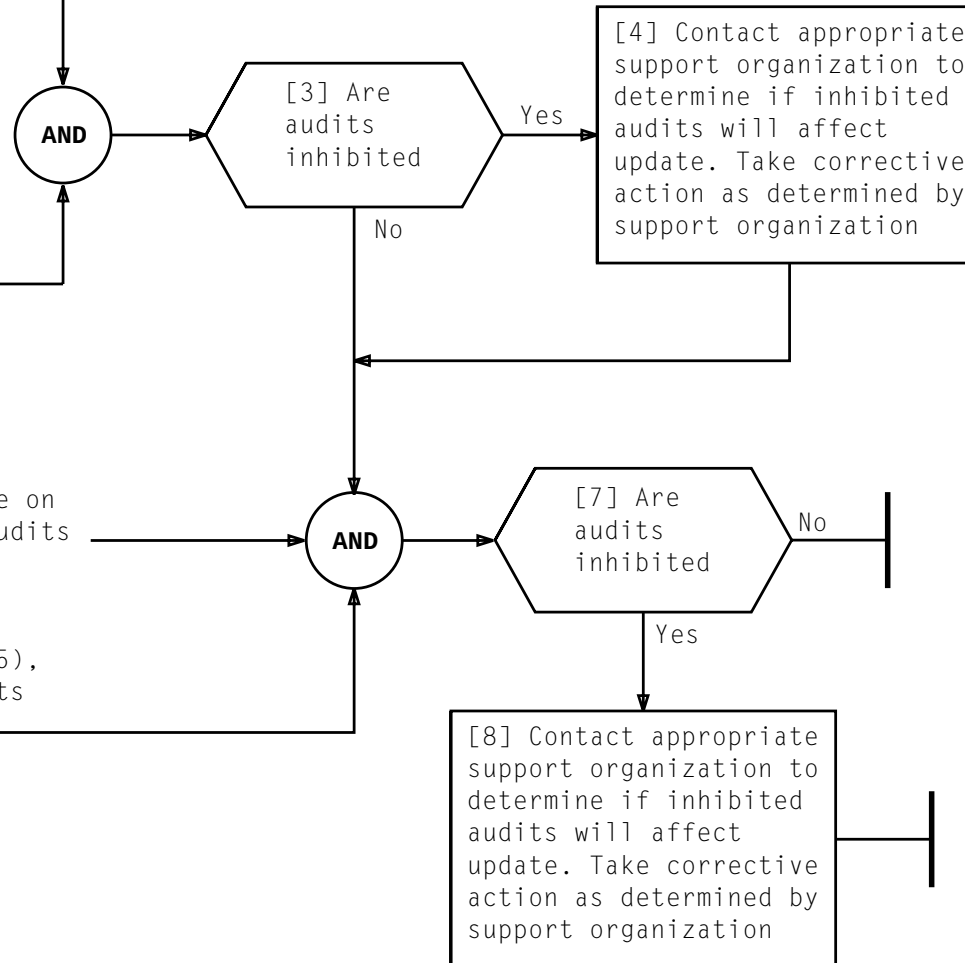


[1] At 1B MTC terminal, enter  
message OP:AUDSTAT!

[2] Using printout (Step 1),  
determine if any audits  
are inhibited

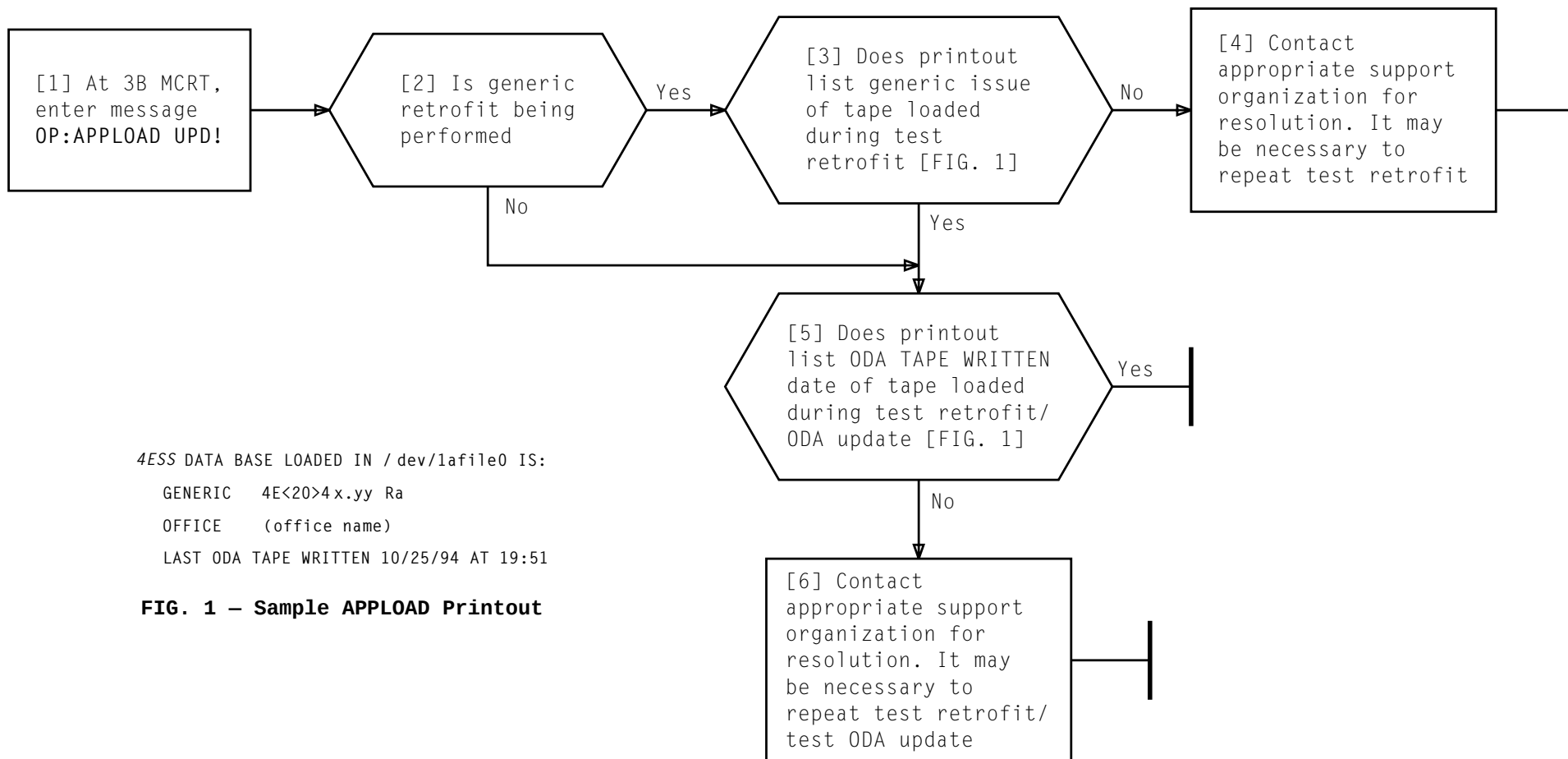
[5] At 3B MCRT ROP, locate on  
printout, status of audits

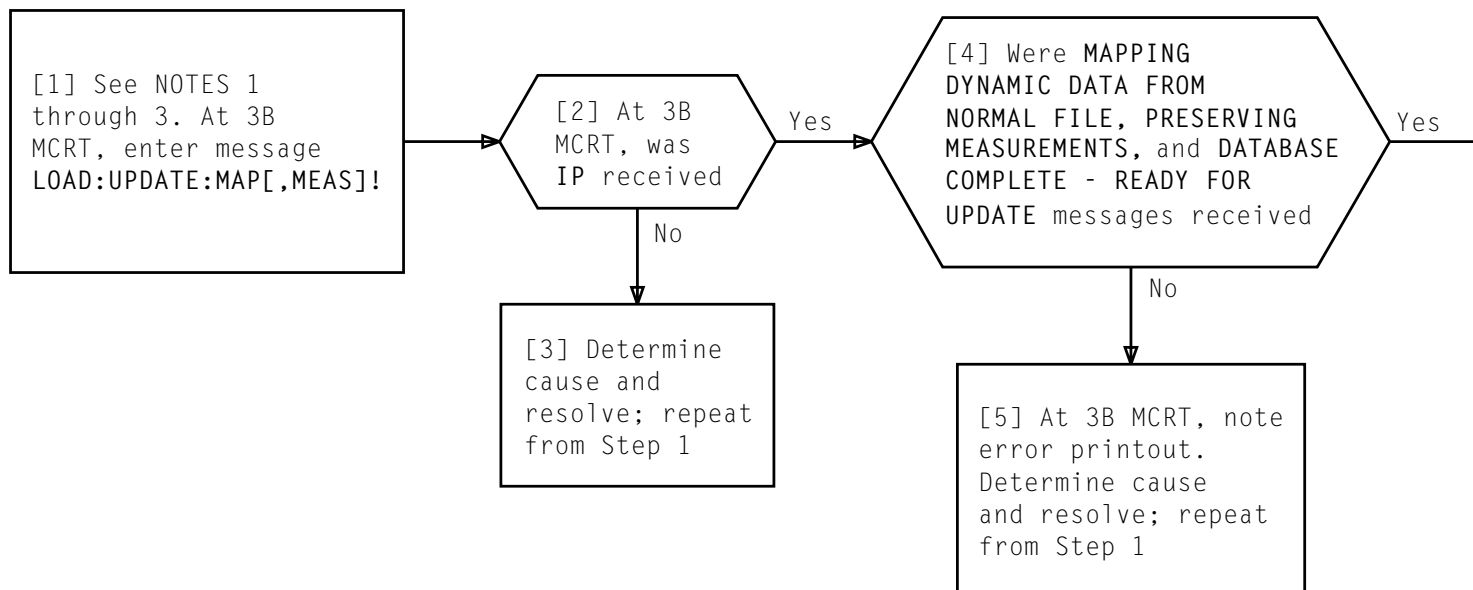
[6] Using printout (Step 5),  
determine if any audits  
are inhibited



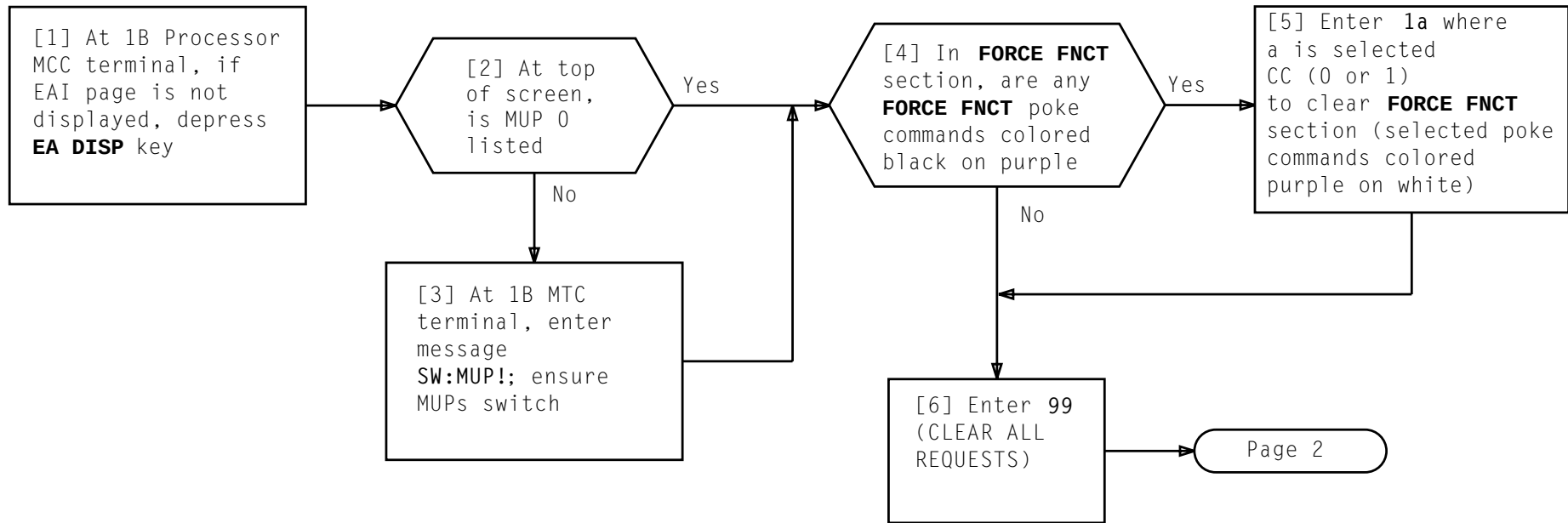
**VERIFY NO AUDITS INHIBITED**

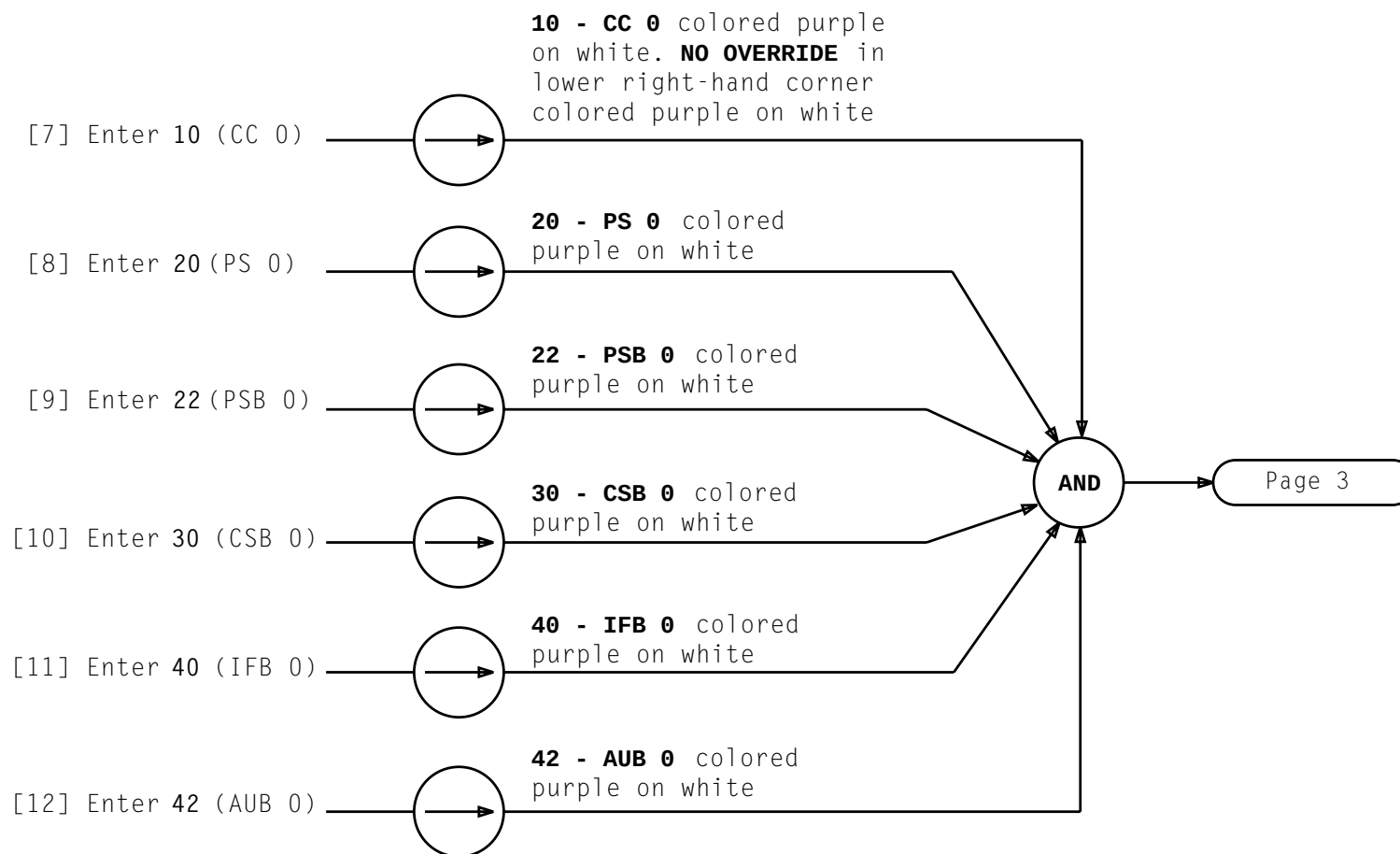
|             |          |
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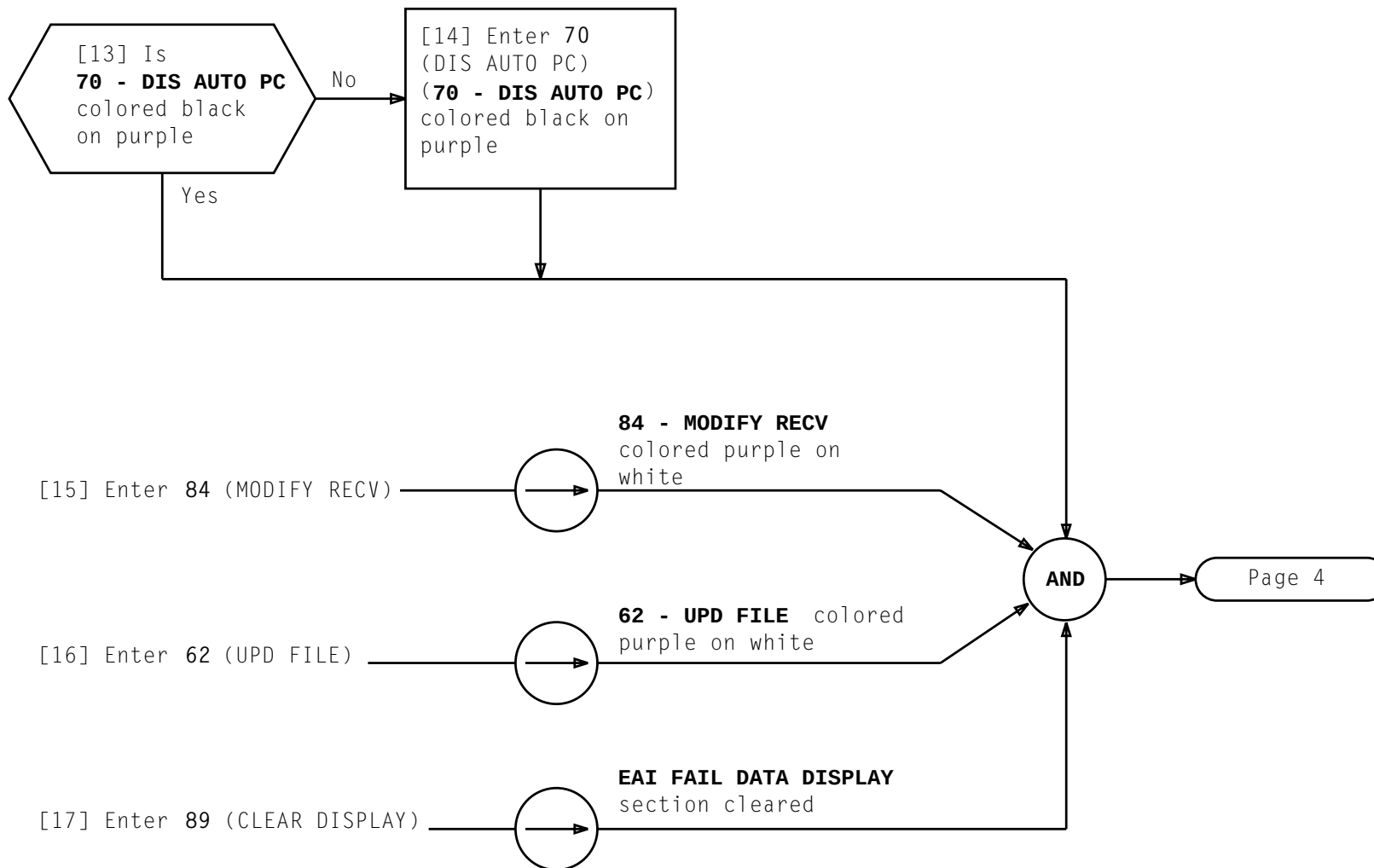
| NOTES                                                                                                                                                                 |          |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| 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                                                                                                            |          |  |
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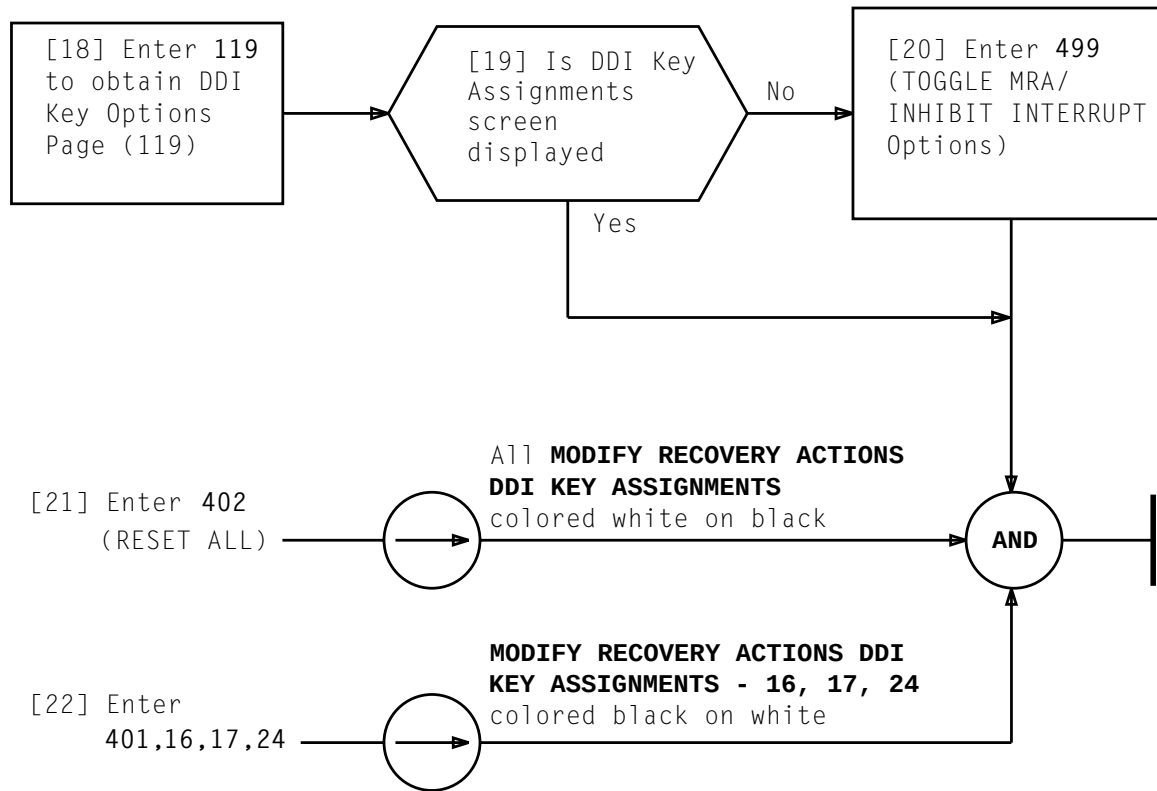




**PREPARE 1B PROCESSOR FOR MANUAL RECOVERY - PRIOR TO UPDATE**

|             |            |
|-------------|------------|
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[1] At 1B Processor MCC terminal,  
if EAI Page is not displayed,  
depress **EA DISP** key

[2] Enter **01** (HARD A).  
Start timing the  
update

All **FORCE FNCT**  
selections colored  
black on purple

AND

[3] In **EAI FAIL DATA DISPLAY** section,  
observe **86 - CODE** field

[4] Did **86 - CODE**  
field start  
counting

Yes

Page 2

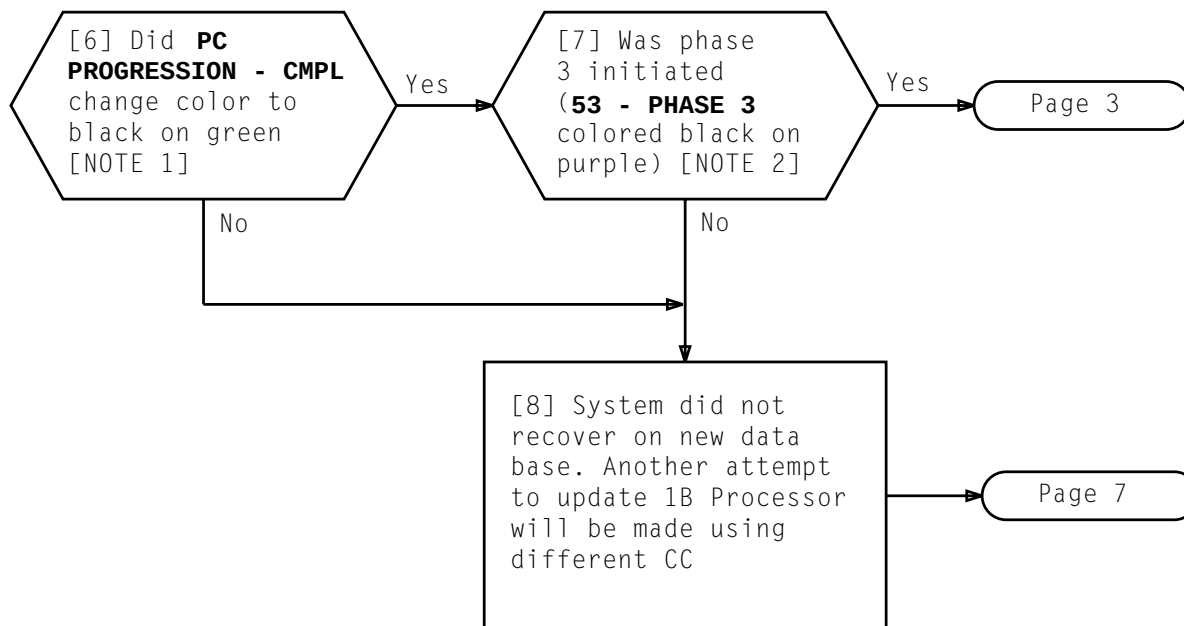
No

[5] 1B Processor is in  
unknown state. Another  
attempt to update 1B  
Processor will be made  
using different CC

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**PERFORM UPDATE**

|              |          |
|--------------|----------|
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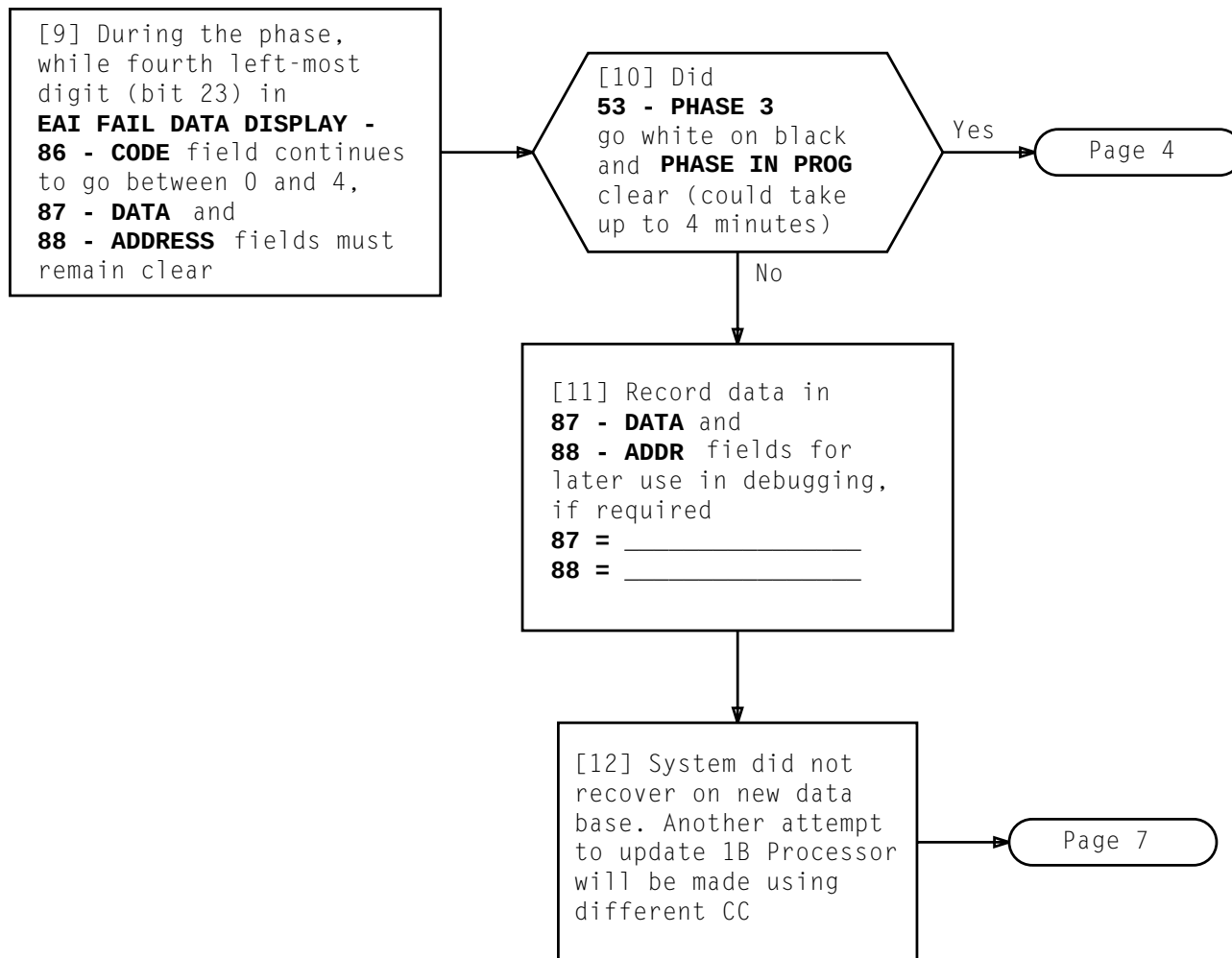


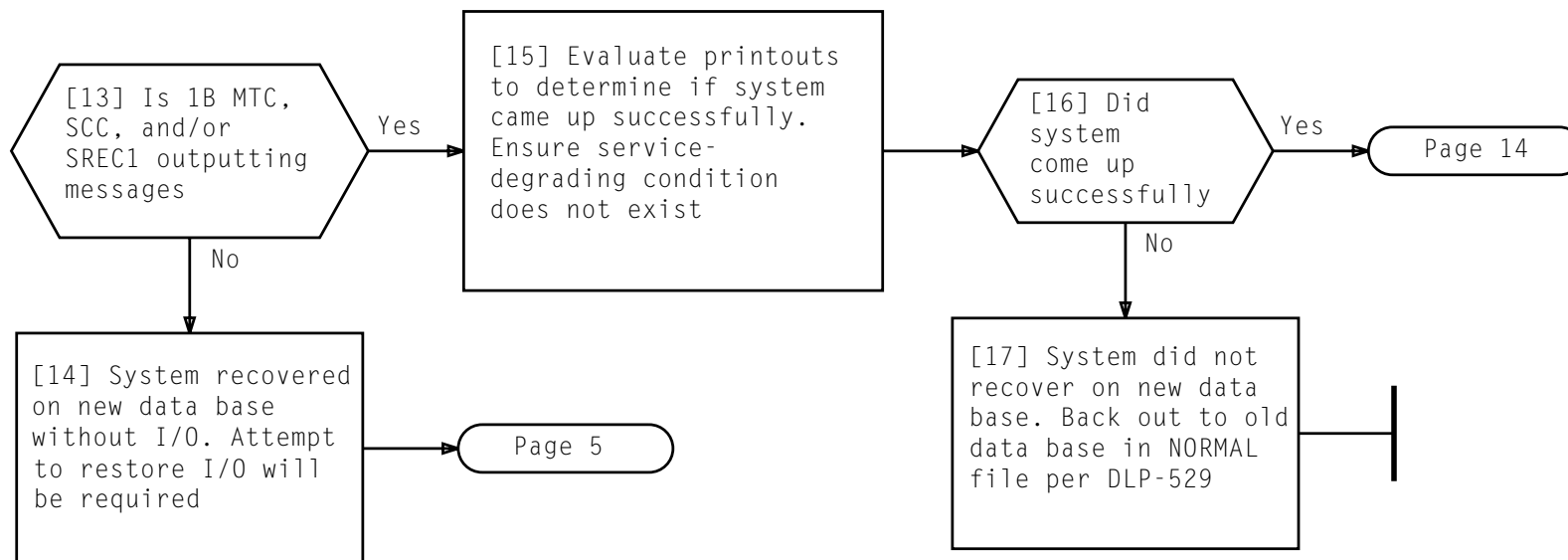
86 - CODE: 0'000aaabbbb  
 87 - DATA:  
 88 - ADDR:

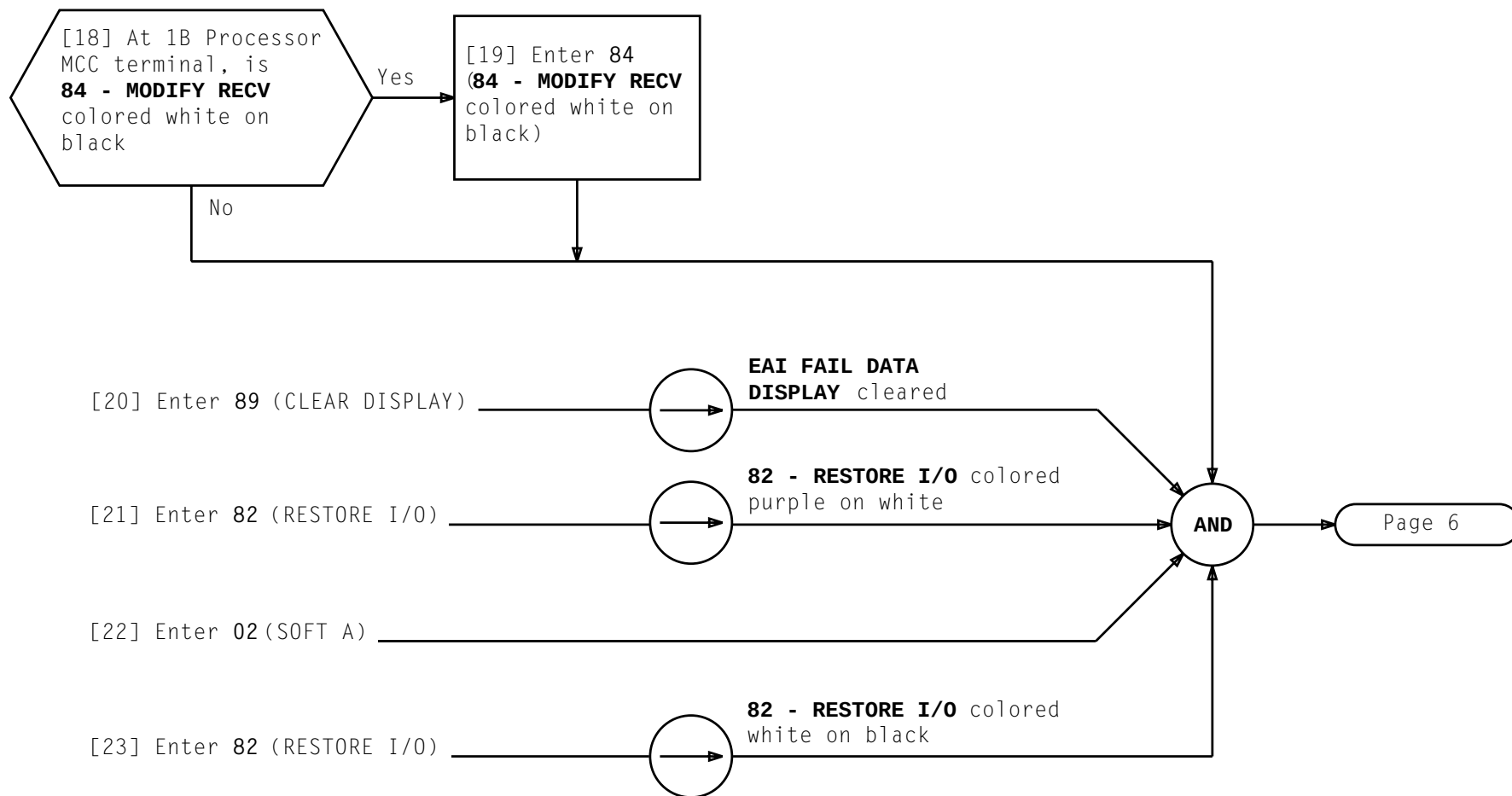
FIG. 1 - 86 - CODE Field Layout

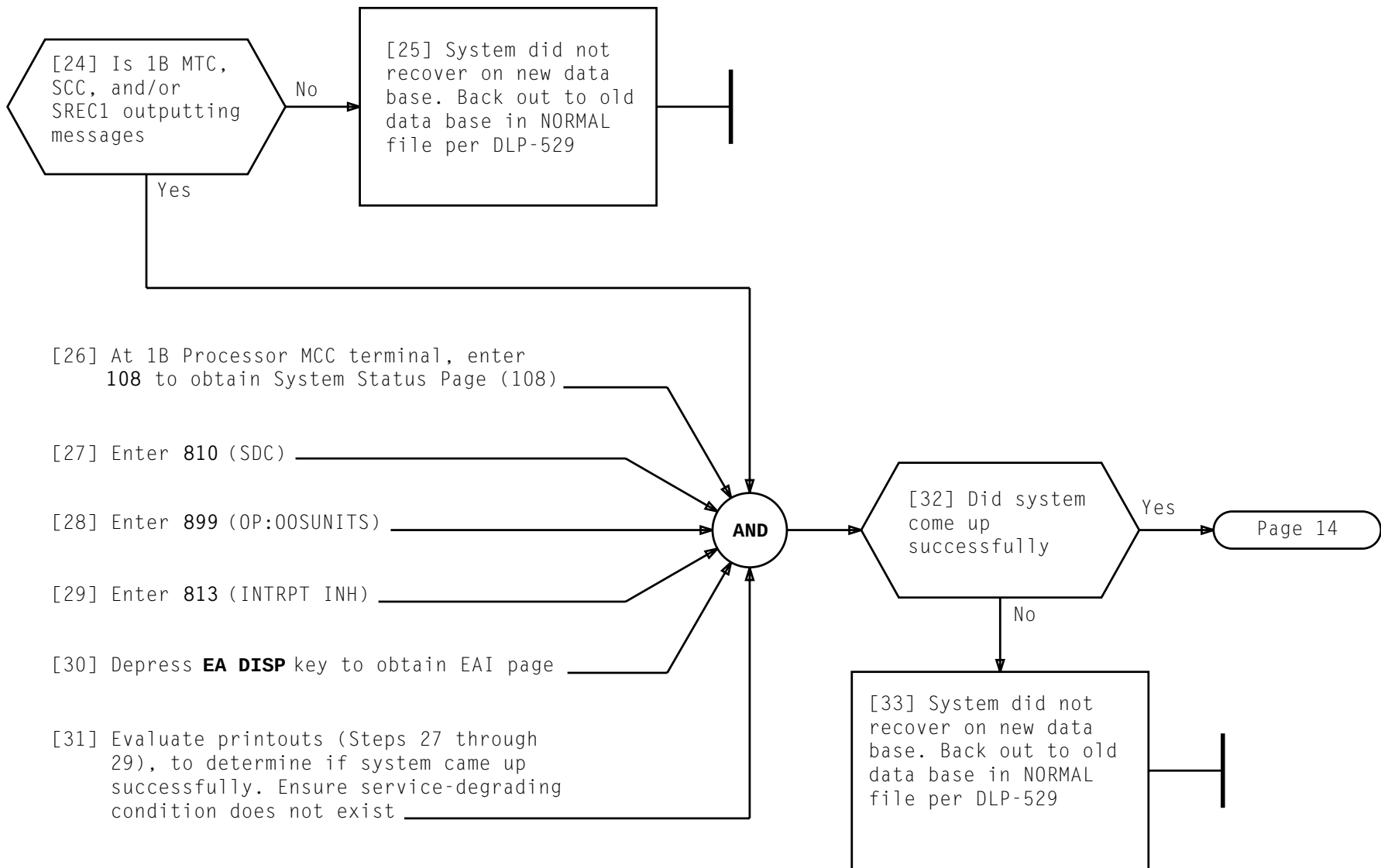
# NOTES

- During Step 6, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 1] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** color 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 **87 - DATA** field, this is a failure
- When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4. **53 - PHASE 3** colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green



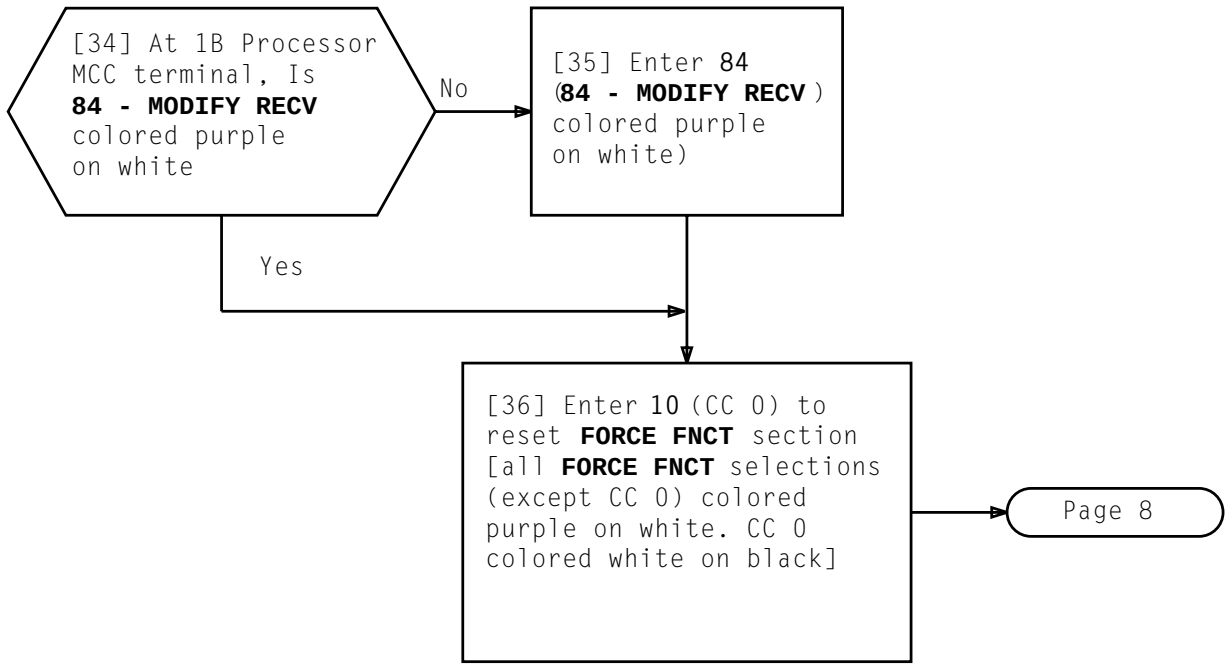


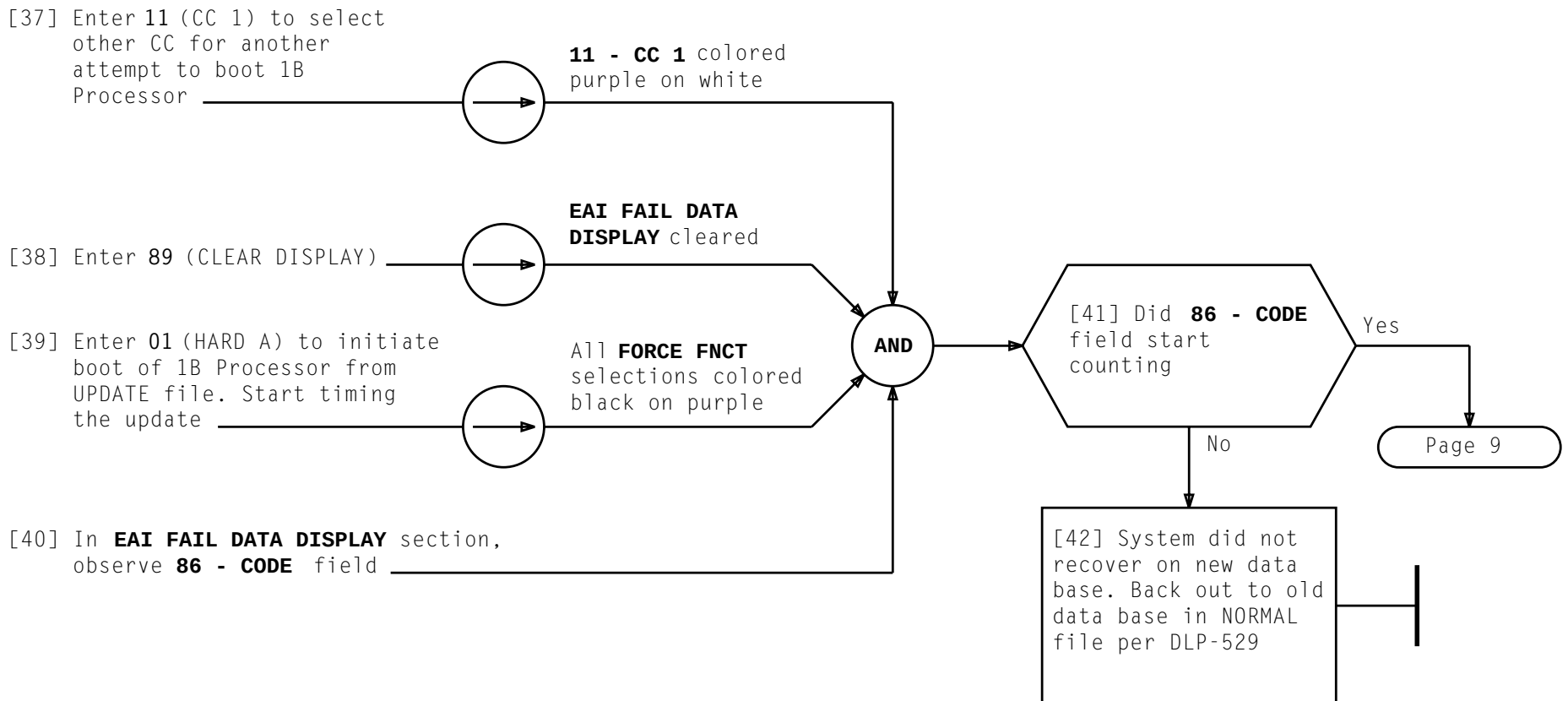




## PERFORM UPDATE

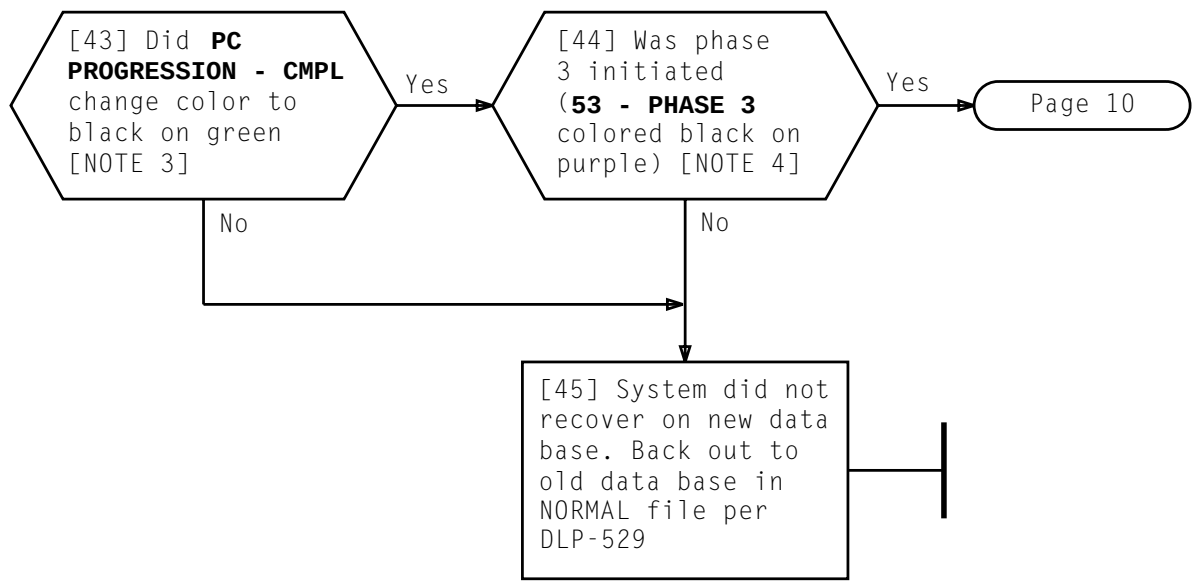
|              |          |
|--------------|----------|
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86 - CODE: 0'000aaabbbb  
 87 - DATA:  
 88 - ADDR:

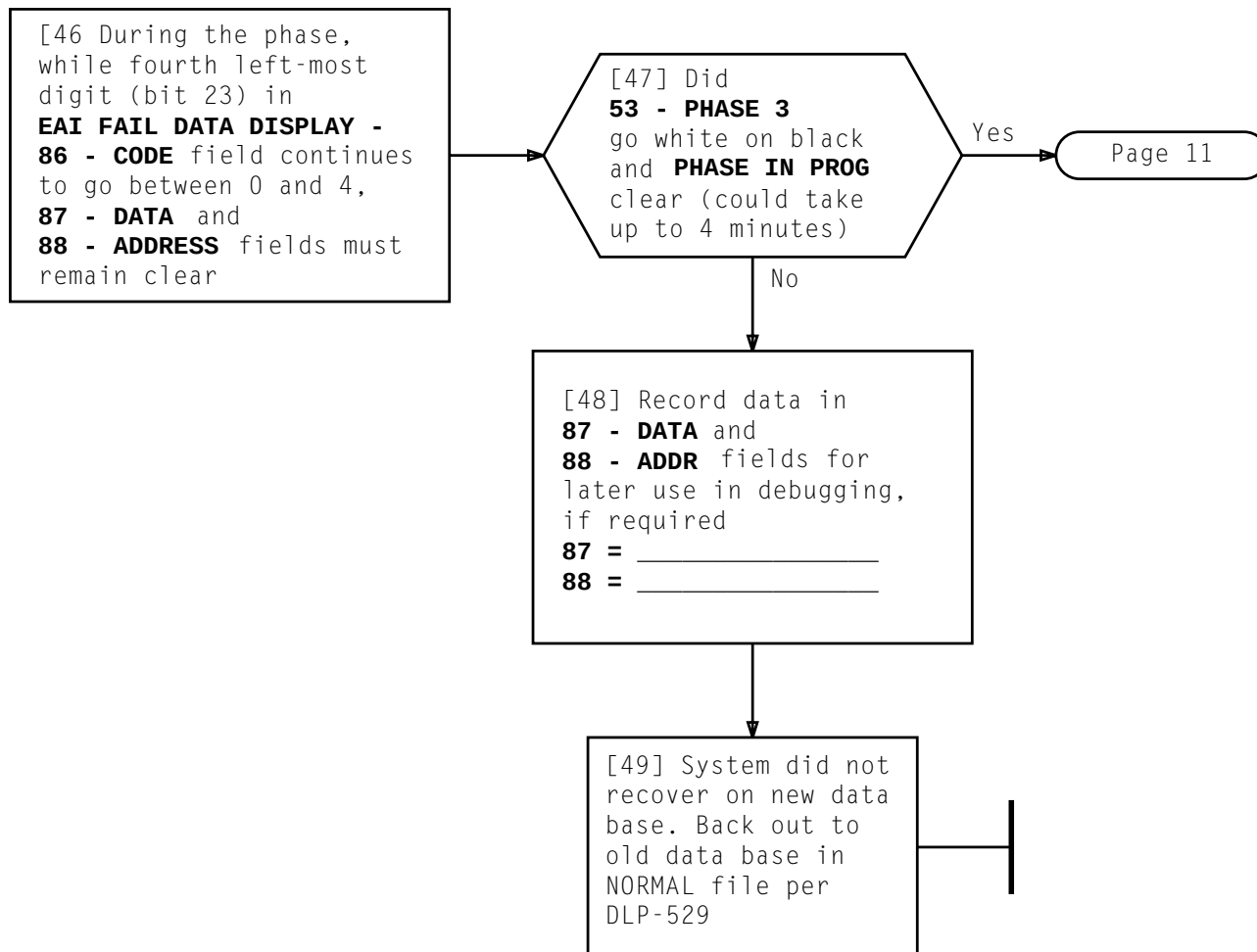
FIG. 2 - 86 - CODE Field Layout

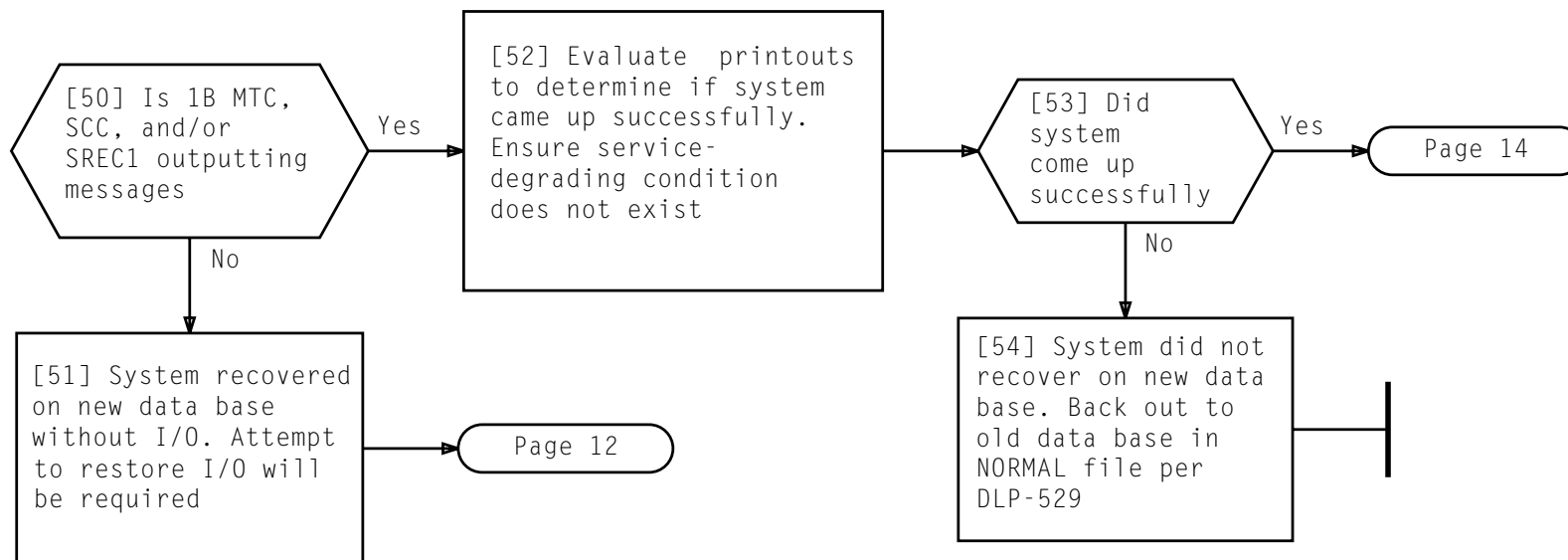
NOTES

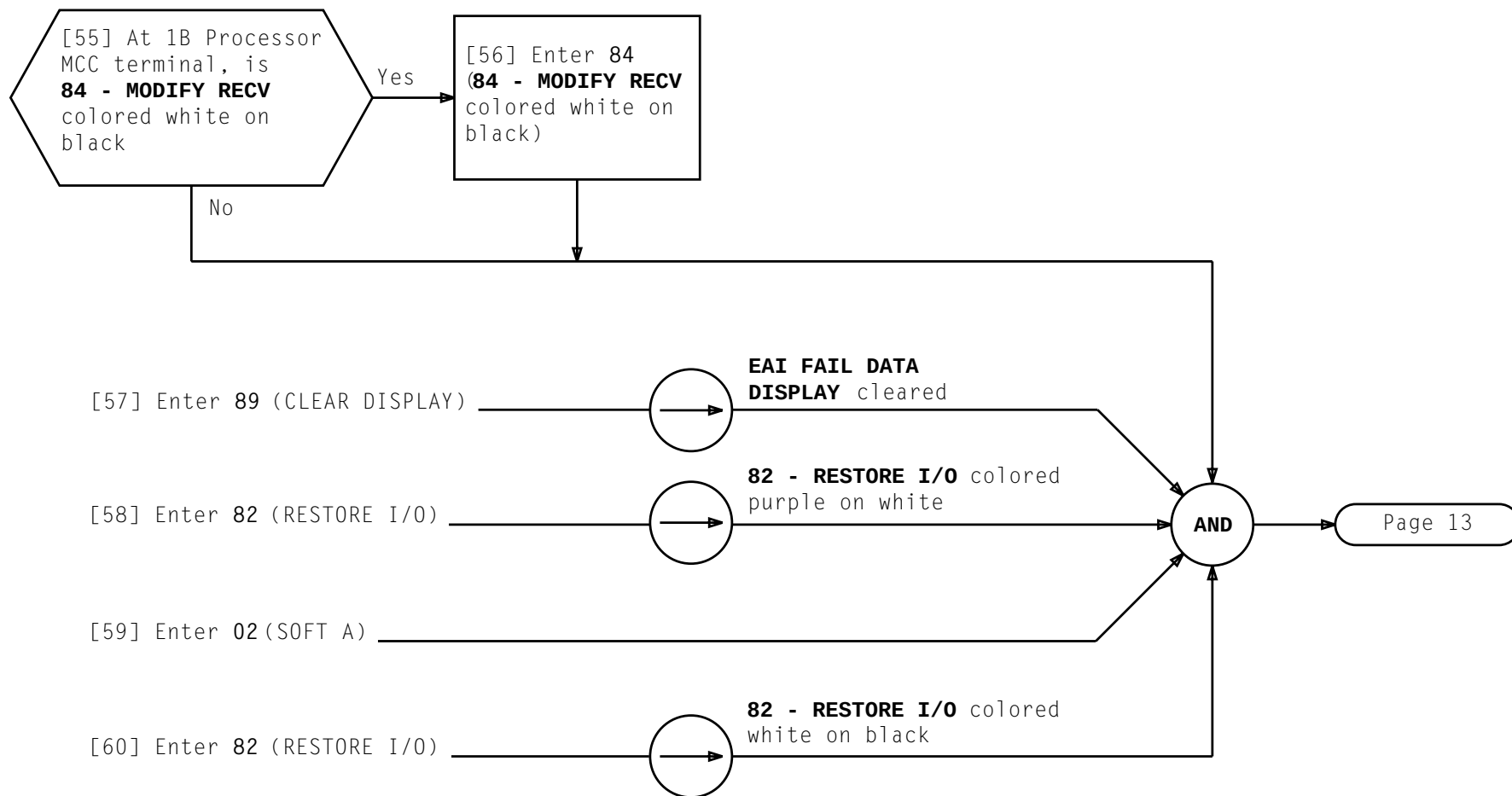
3. During Step 43, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 2] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** color 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 **87 - DATA** field, this is a failure

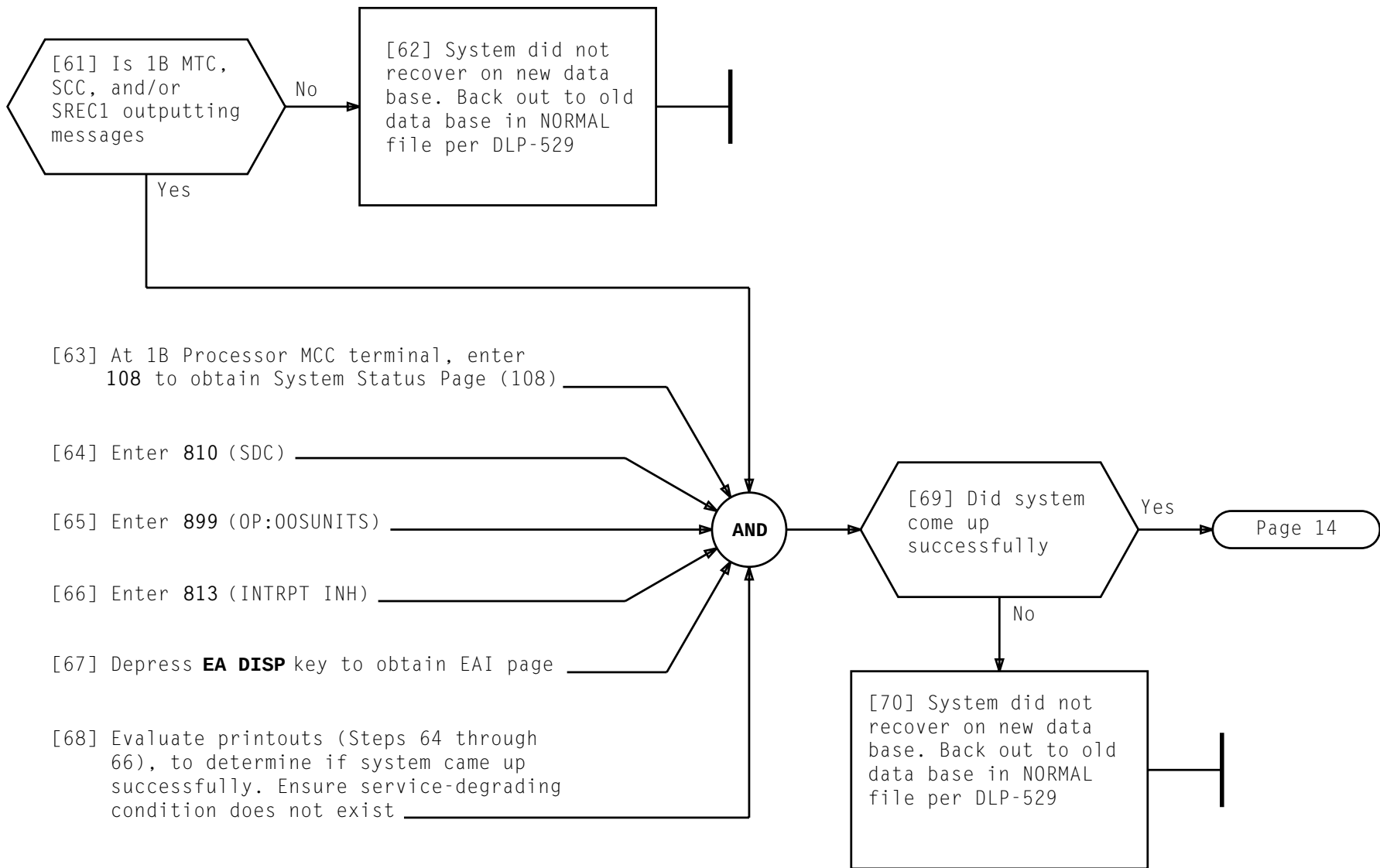
4. When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23).

**53 - PHASE 3** colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green



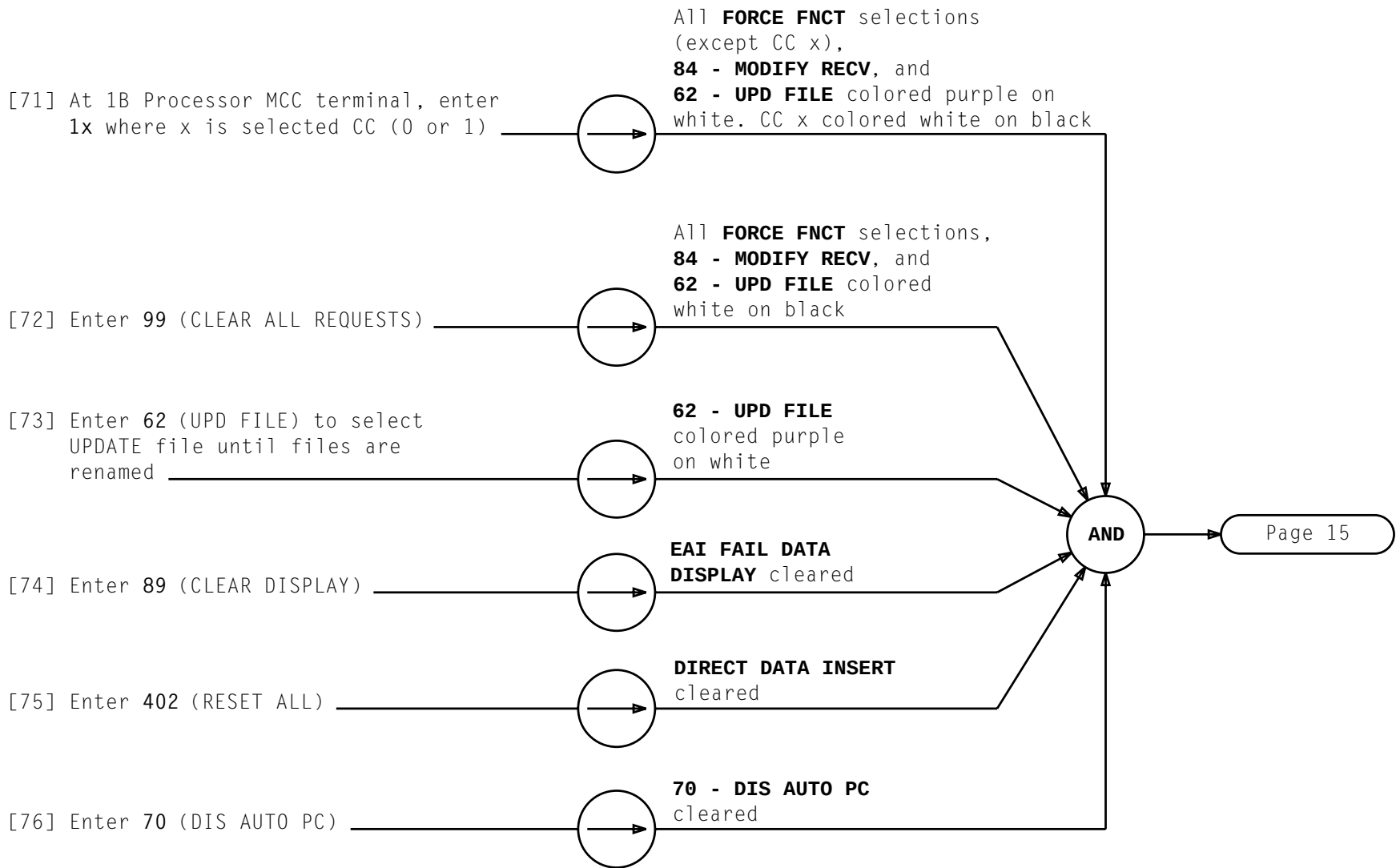






## PERFORM UPDATE

|               |          |
|---------------|----------|
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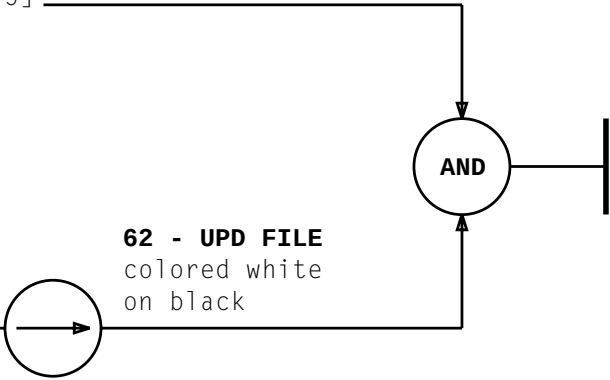


**PERFORM UPDATE**

|               |          |
|---------------|----------|
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[77] At 1B MTC terminal, enter message  
UPD:COMMIT;UPDFILE! to rename  
UPDATE file to NORMAL file [NOTE 5]

[78] At 1B Processor MCC terminal,  
enter 62 (UPD FILE)



**62 - UPD FILE**  
colored white  
on black

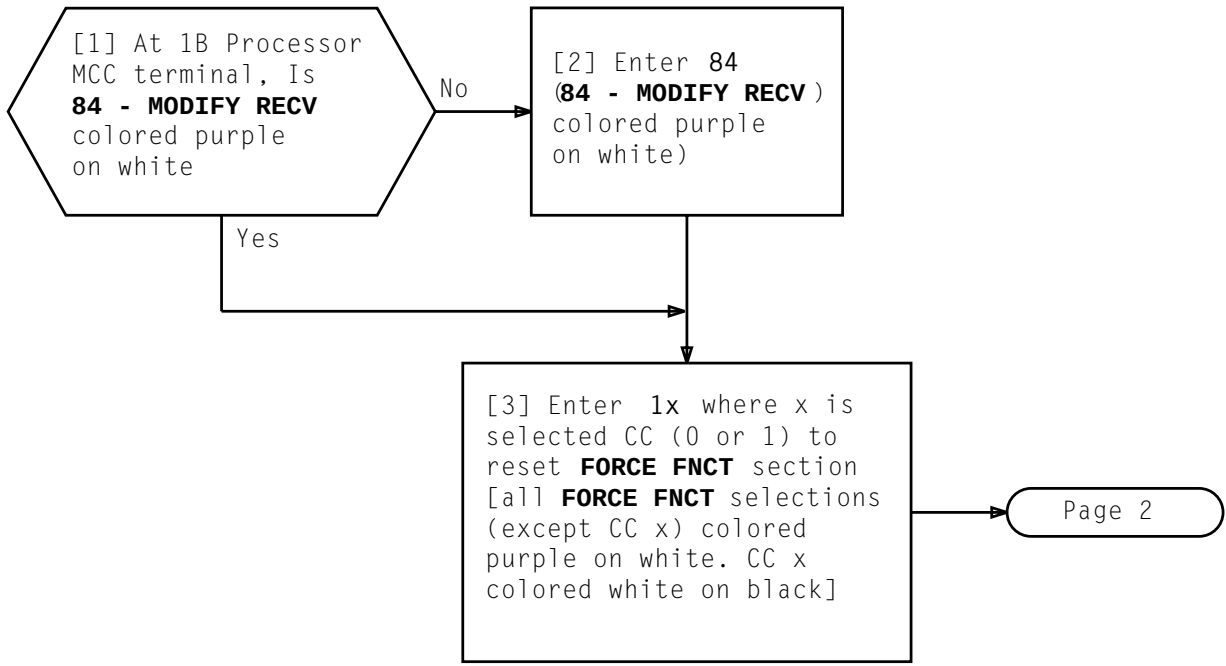
NOTE 5

Step 77 is being performed to rename UPDATE file to NORMAL file and preceeds the actual commitment to 1B Processor

|         |          |
|---------|----------|
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|---------|----------|

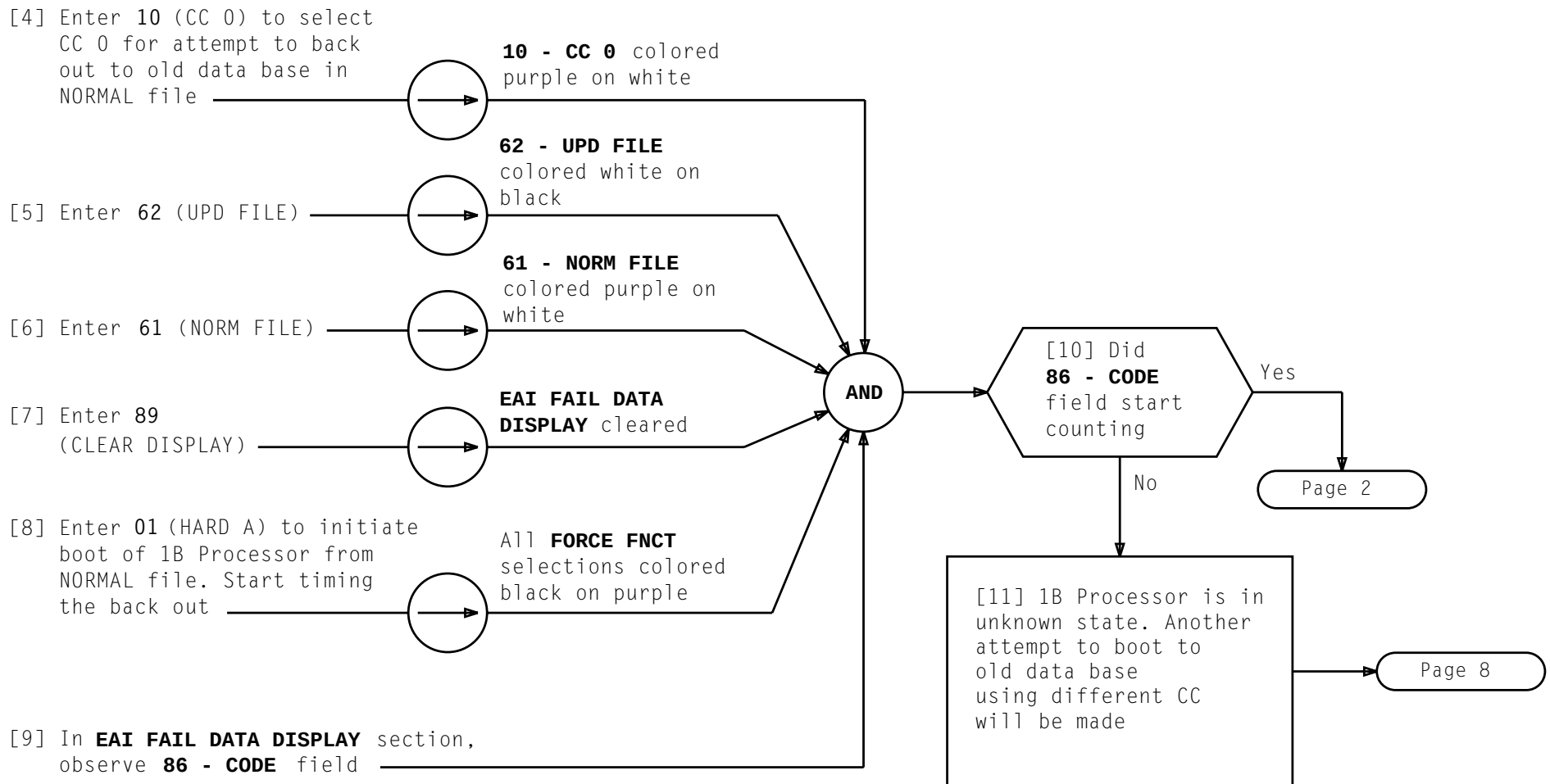
|             |     |
|-------------|-----|
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|-------------|-----|

|               |     |
|---------------|-----|
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|---------------|-----|



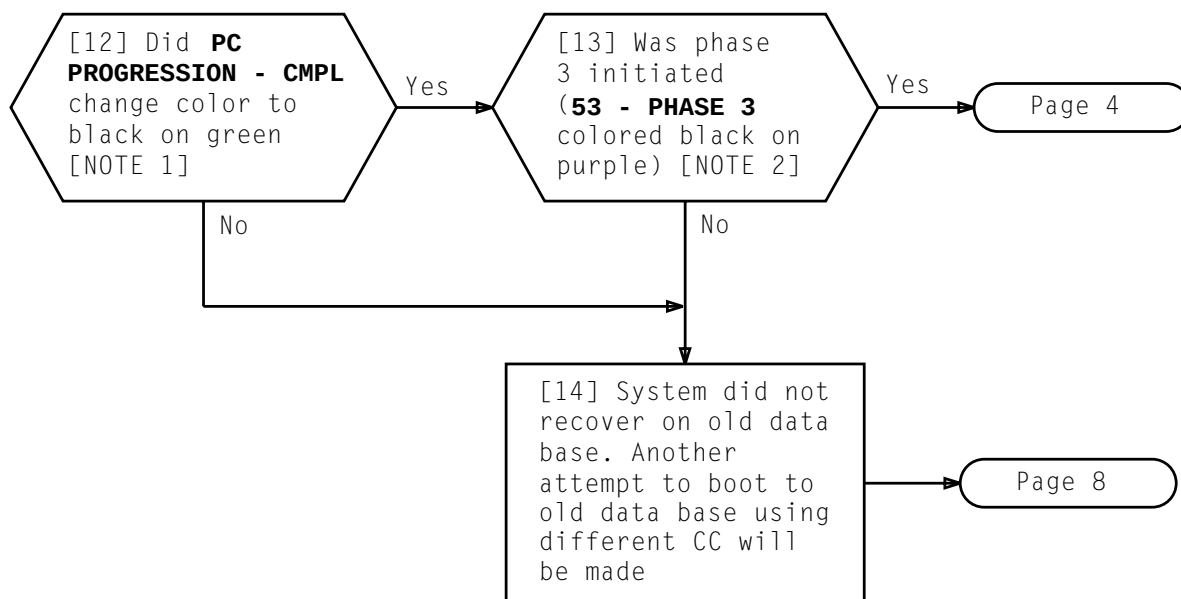
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |            |
|--------------|------------|
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**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |          |
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86 - CODE: 0'000aaabbbb  
 87 - DATA:  
 88 - ADDR:

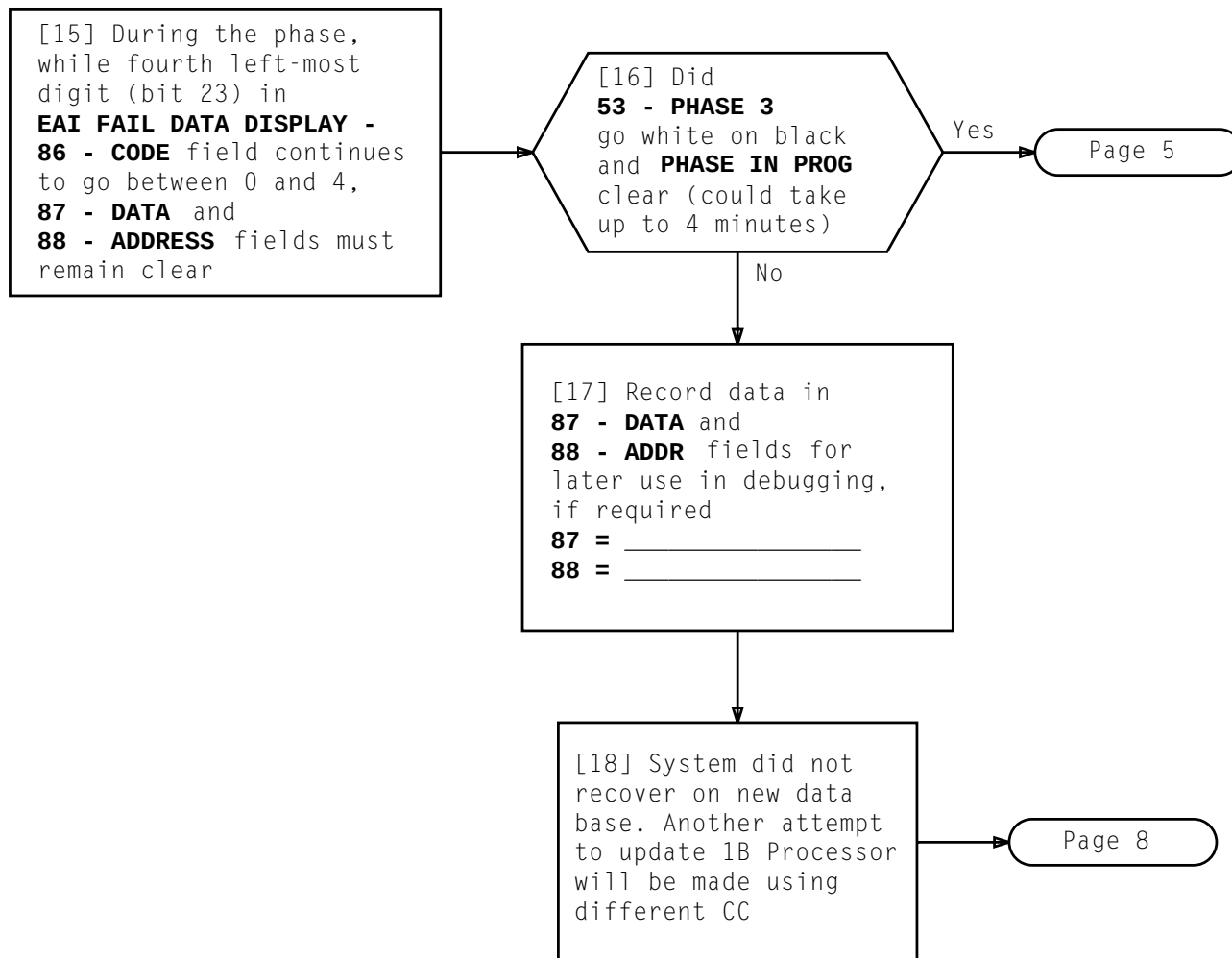
FIG. 1 - 86 - CODE Field Layout

#### NOTES

1. During Step 12, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 1] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** color 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 **87 - DATA** field, this is a failure.
2. When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23).  
**53 - PHASE 3** colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green.

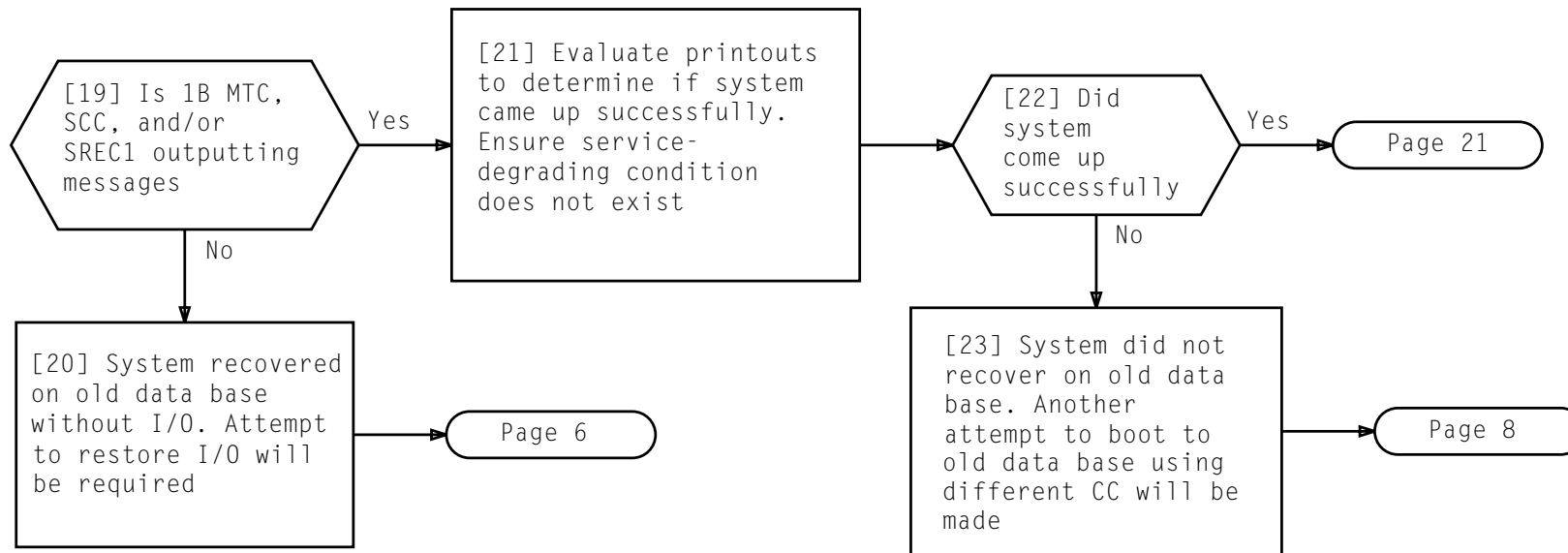
BACK OUT TO OLD DATA BASE IN NORMAL FILE

|              |          |
|--------------|----------|
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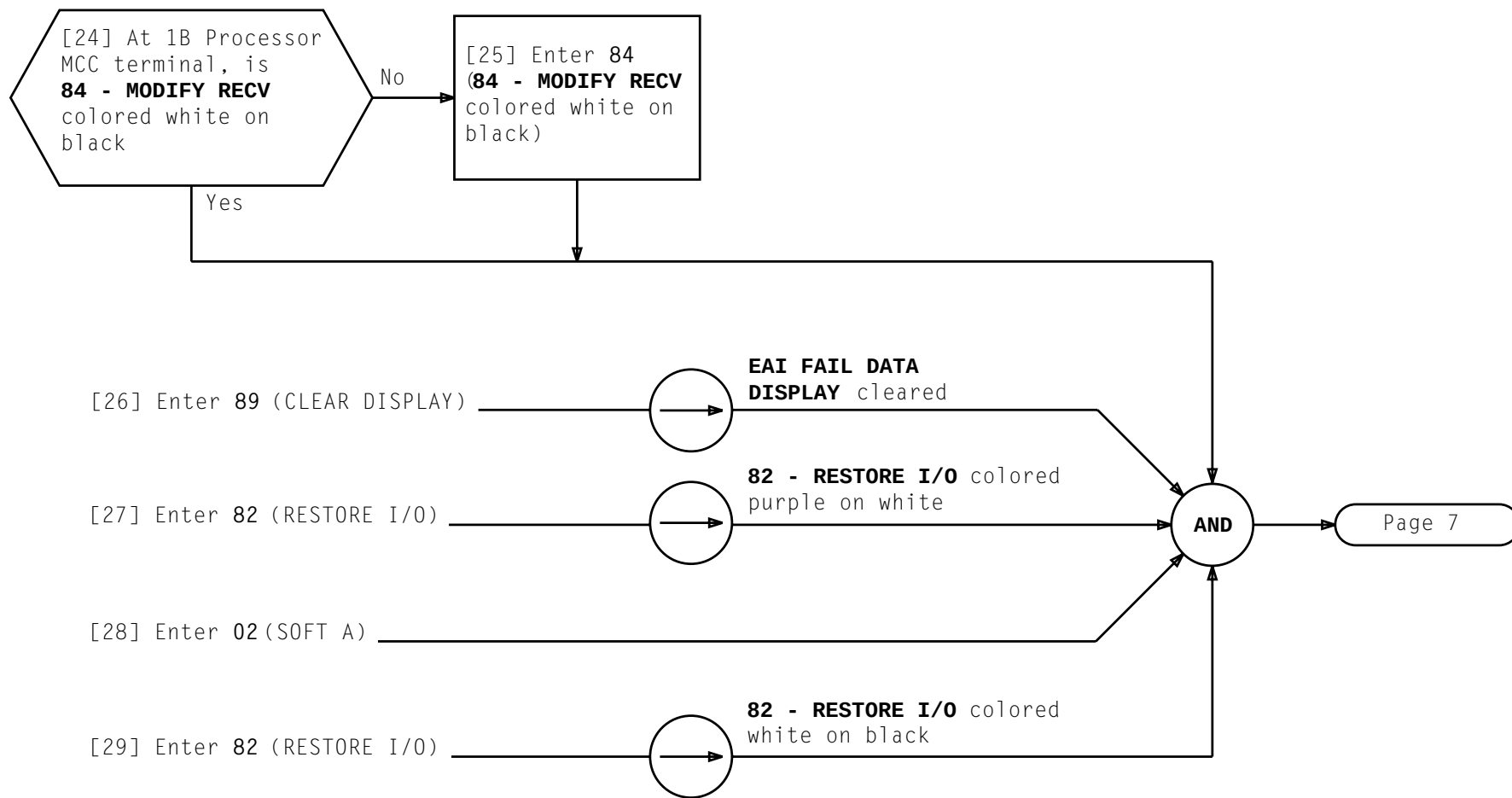
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |          |
|--------------|----------|
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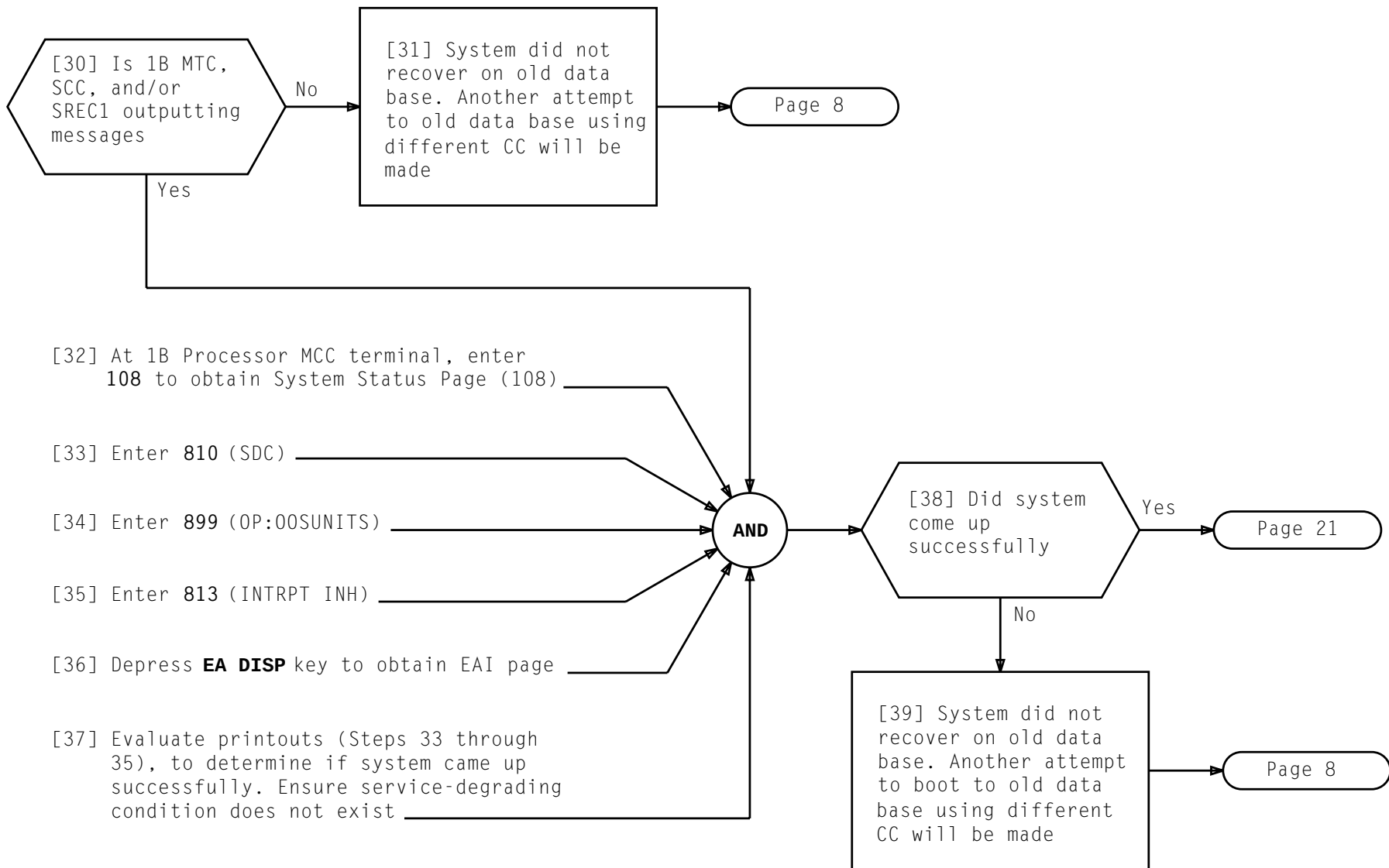
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |            |
|--------------|------------|
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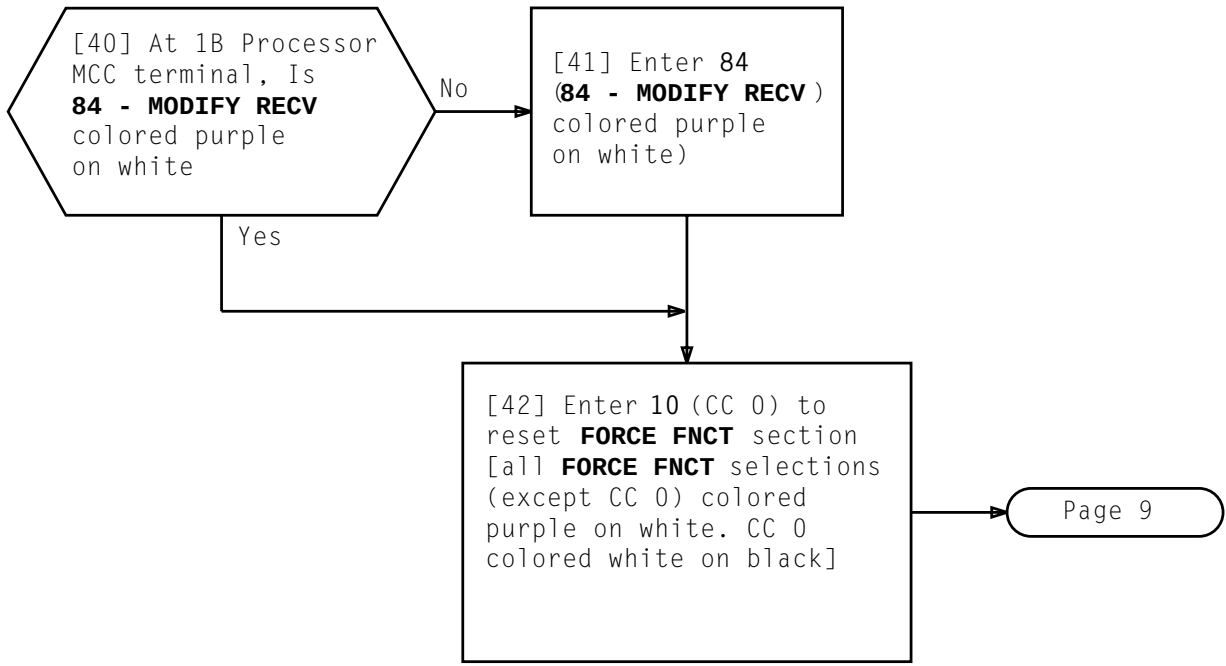
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |            |
|--------------|------------|
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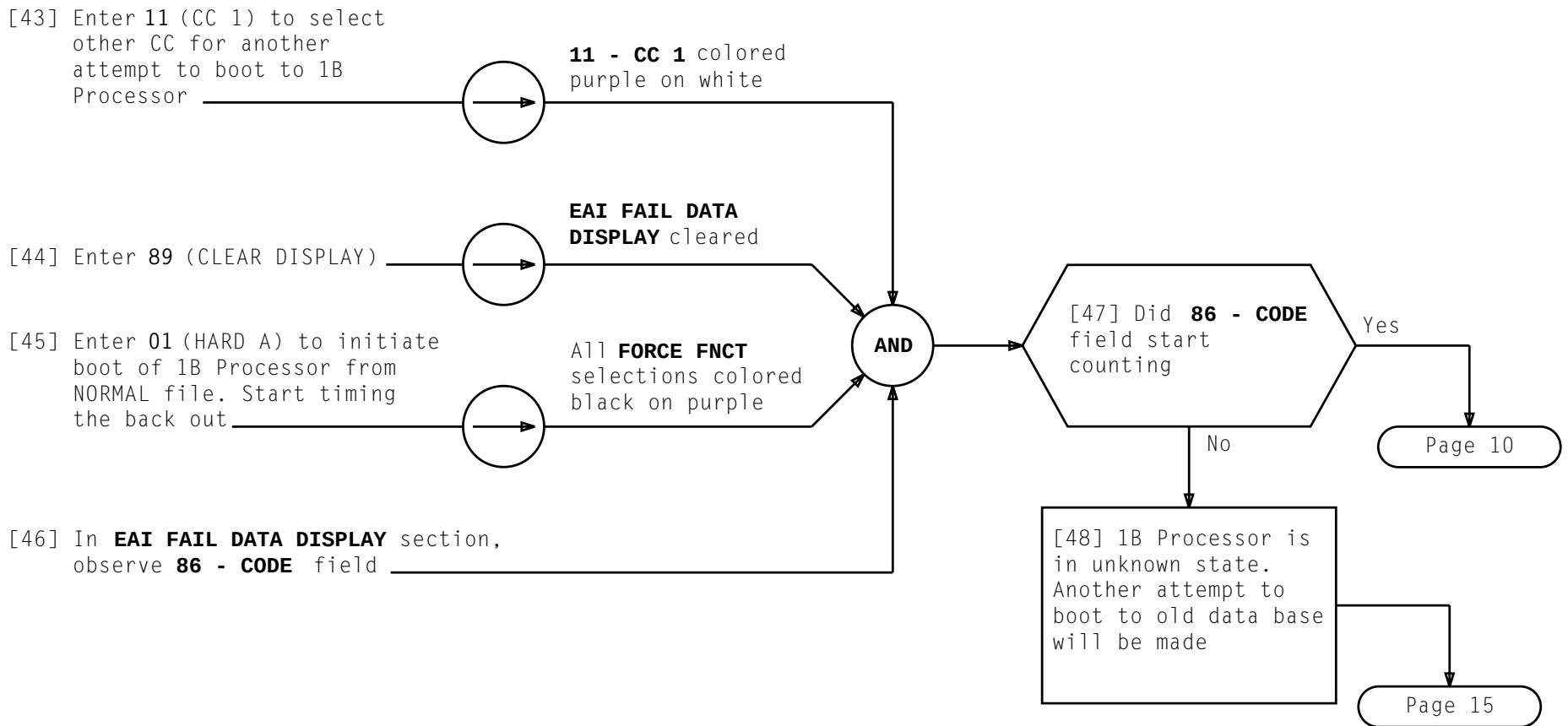
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |          |
|--------------|----------|
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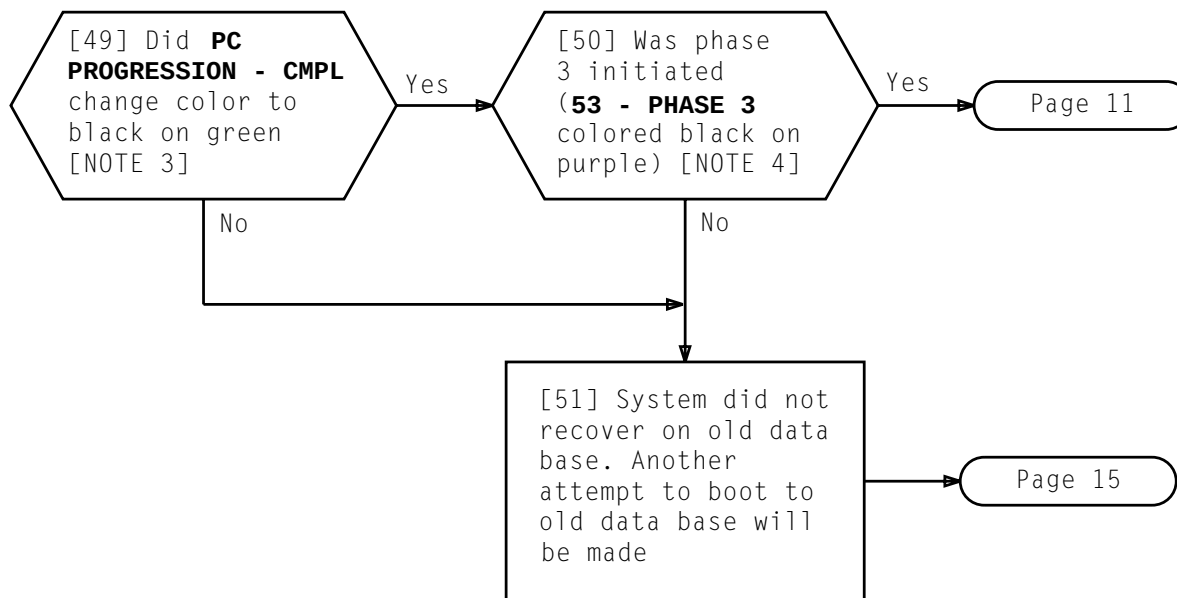
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |            |
|--------------|------------|
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**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|              |            |
|--------------|------------|
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86 - CODE: 0'000aaabbbb  
 87 - DATA:  
 88 - ADDR:

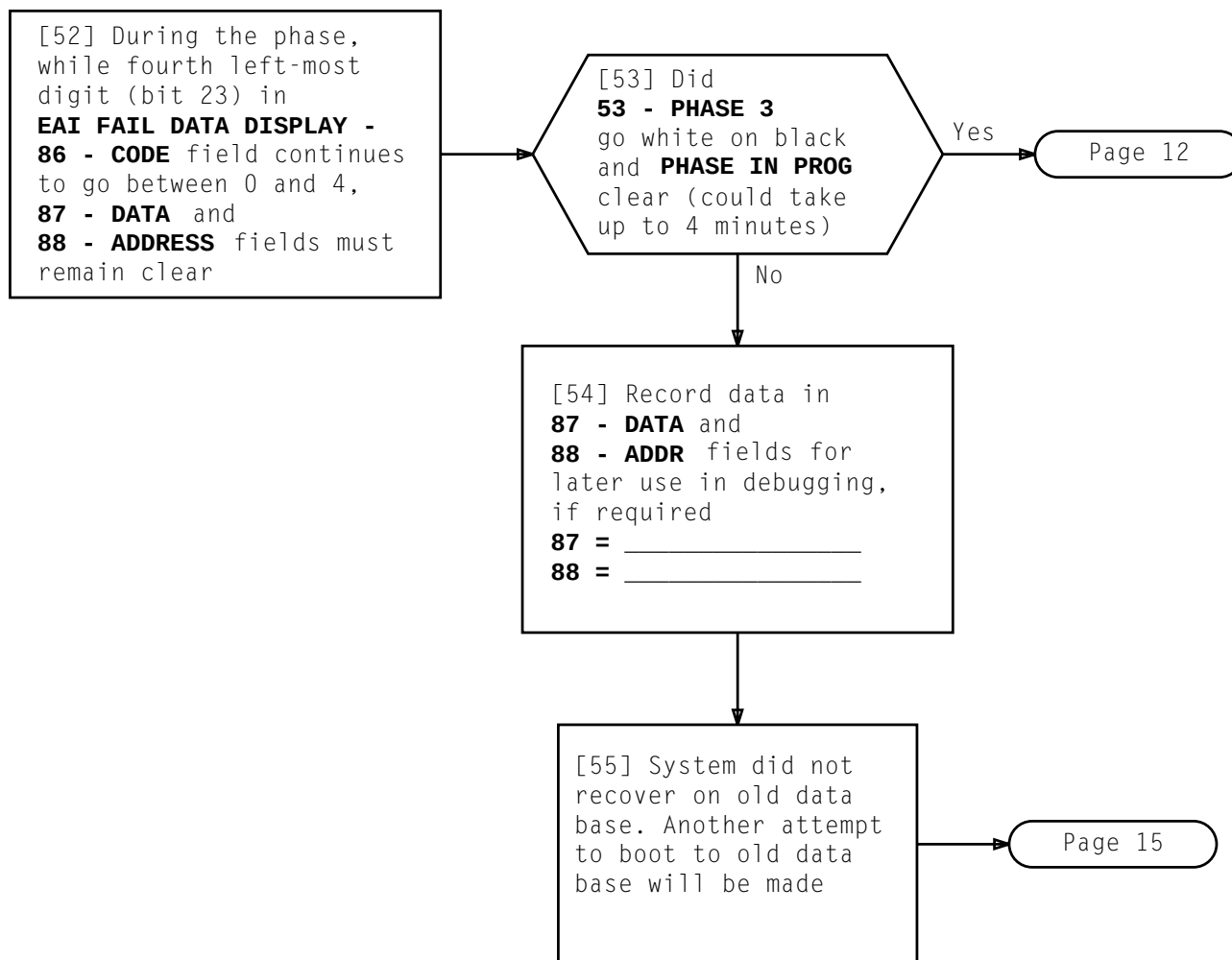
FIG. 2 - 86 - CODE Field Layout

# NOTES

- During Step 49, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 2] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** color 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 **87 - DATA** field, this is a failure
- When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23).  
**53 - PHASE 3** colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green

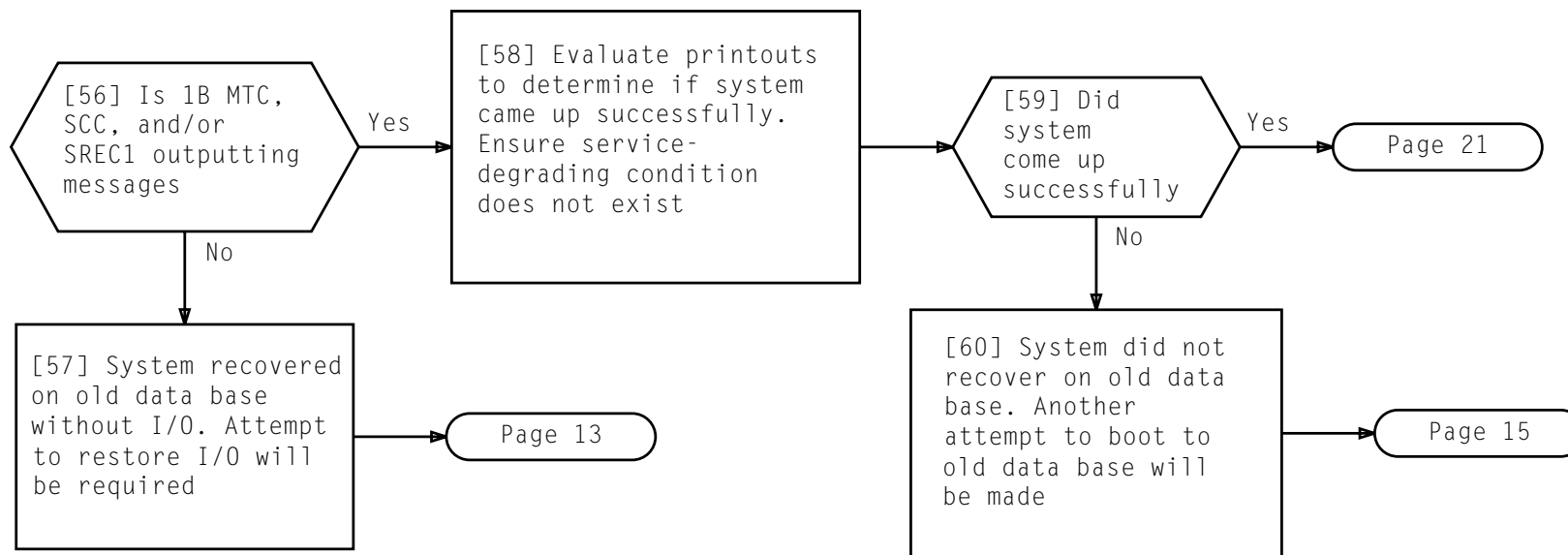
BACK OUT TO OLD DATA BASE IN NORMAL FILE

|               |          |
|---------------|----------|
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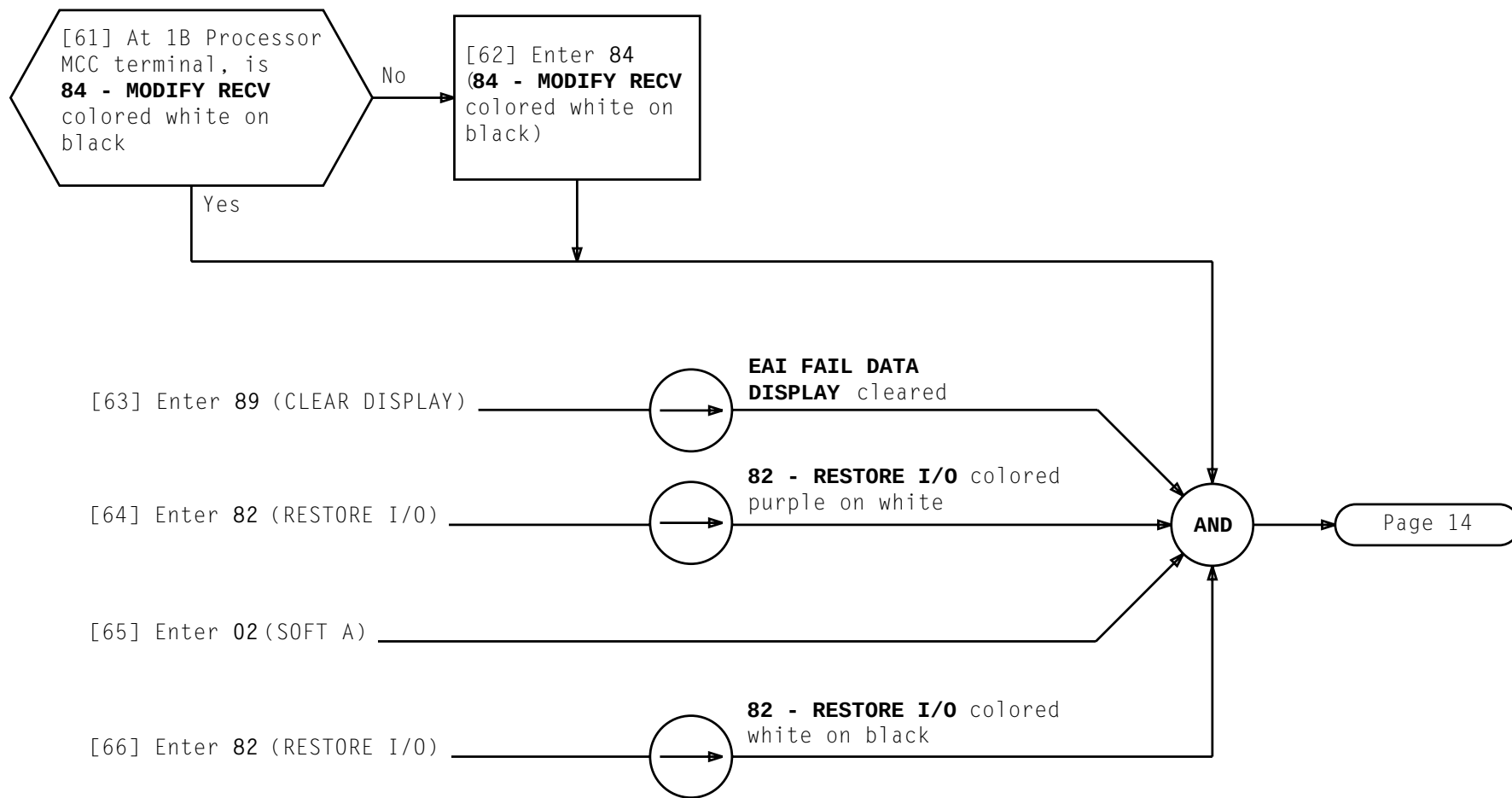
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |          |
|---------------|----------|
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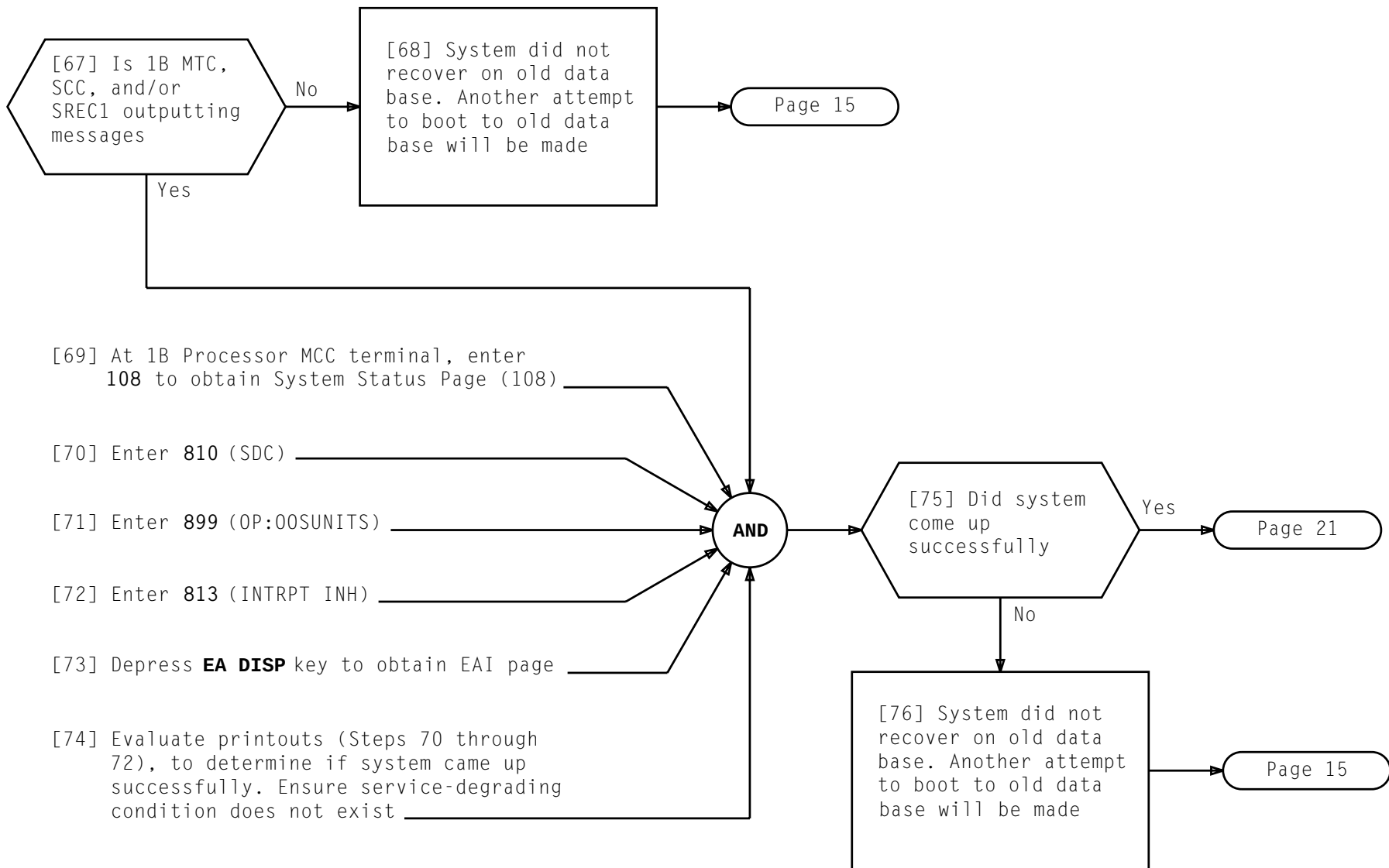
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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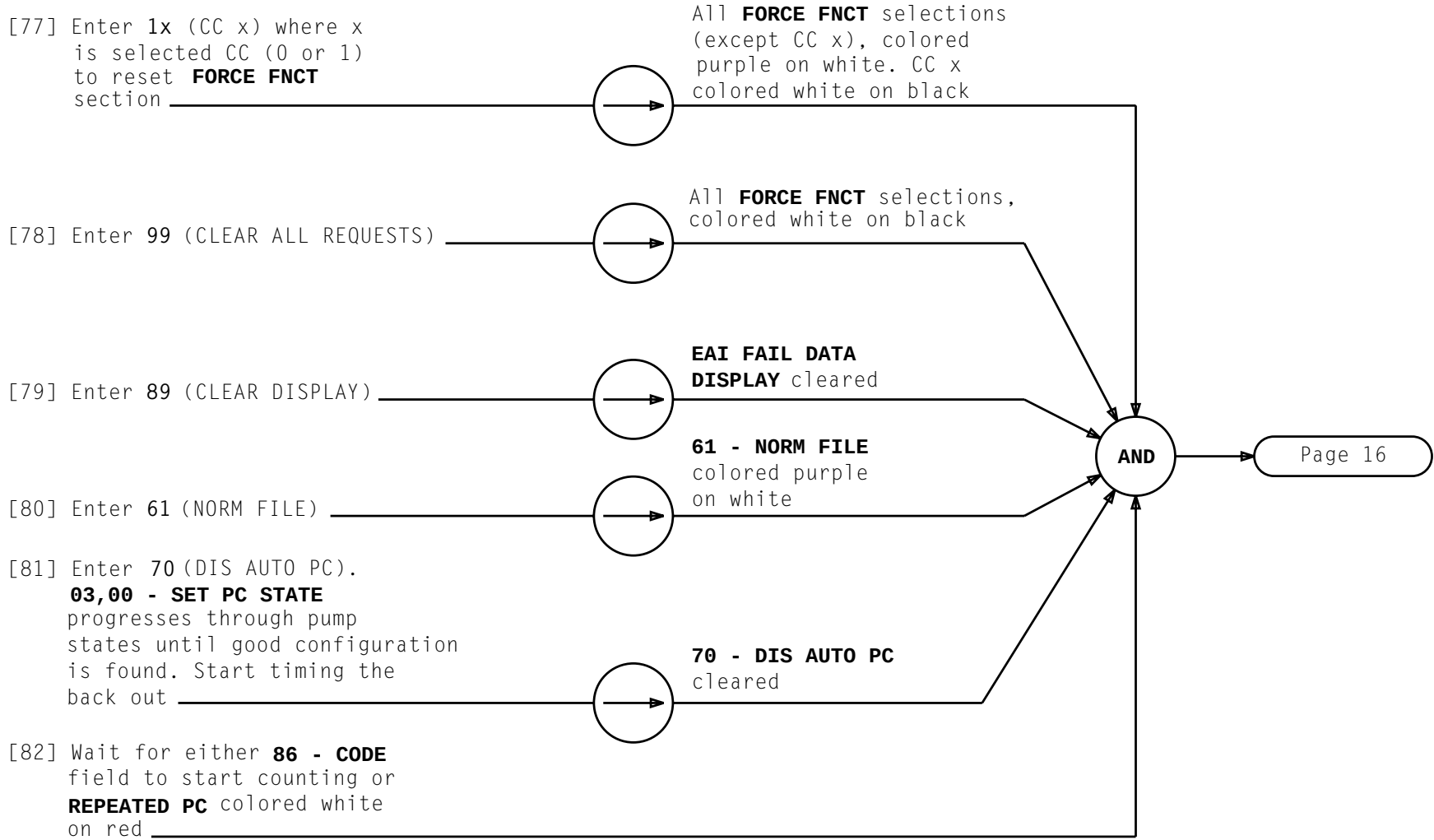
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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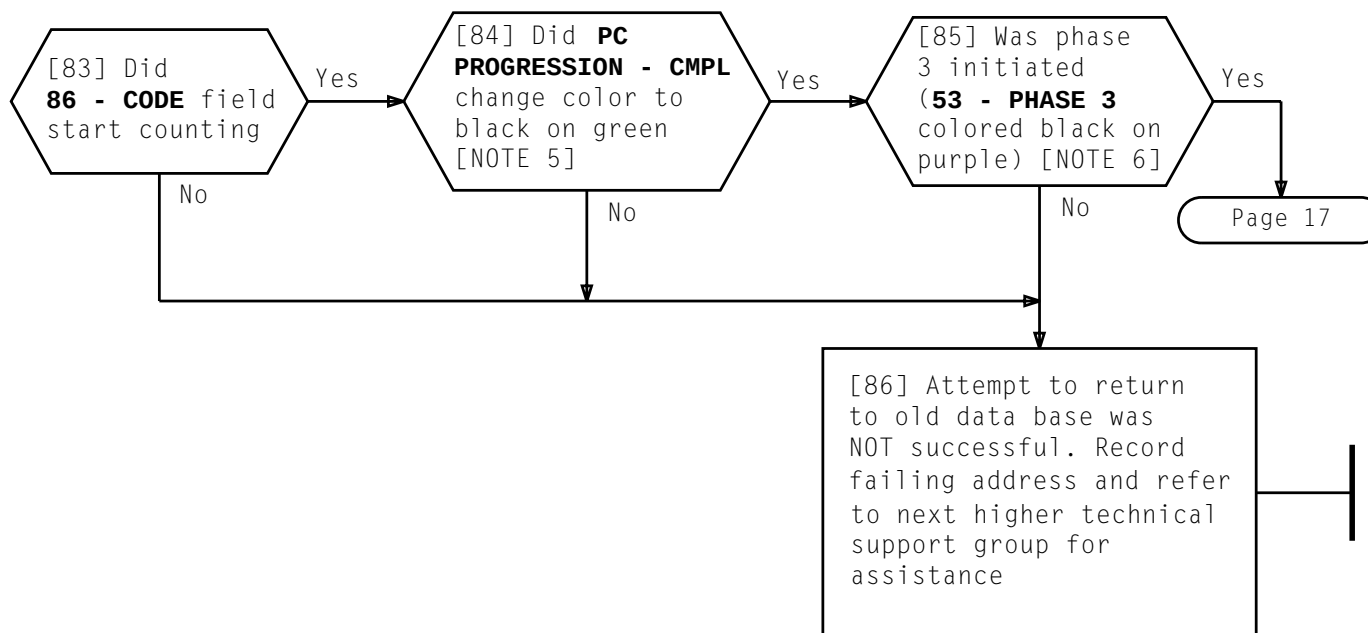
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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BACK OUT TO OLD DATA BASE IN NORMAL FILE

|               |          |
|---------------|----------|
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86 - CODE: 0'000aaabbbb  
 87 - DATA:  
 88 - ADDR:

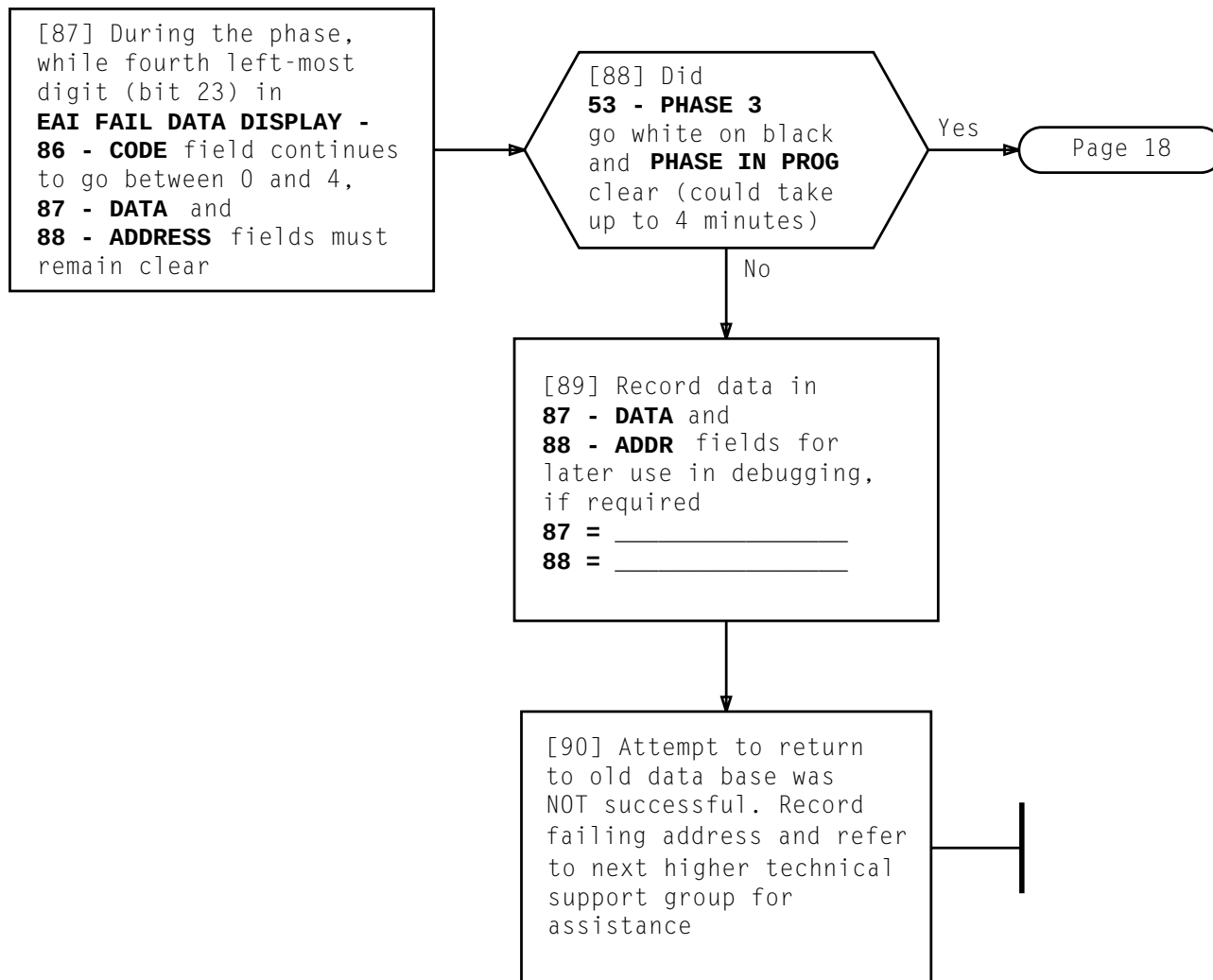
FIG. 3 - 86 - CODE Field Layout

#### NOTES

- During Step 83, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 3] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** color 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 **87 - DATA** field, this is a failure
- When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23).  
**53 - PHASE 3** colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green

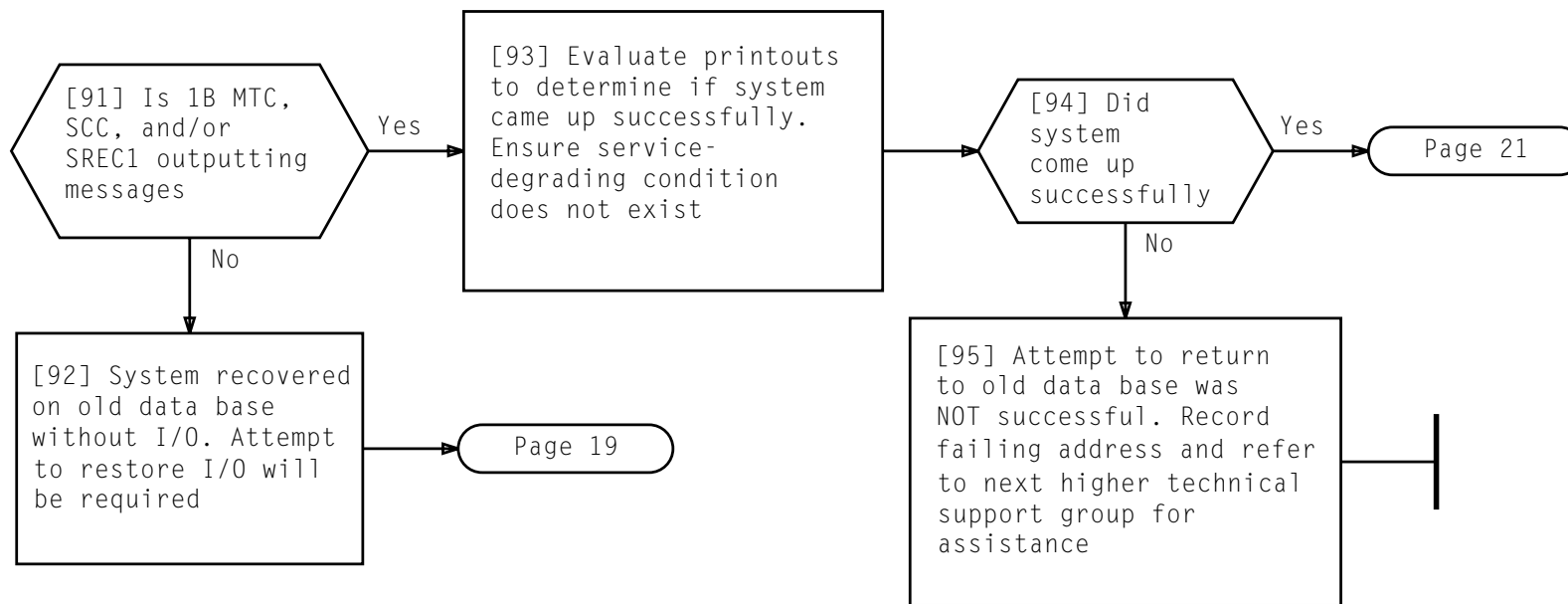
BACK OUT TO OLD DATA BASE IN NORMAL FILE

|               |          |
|---------------|----------|
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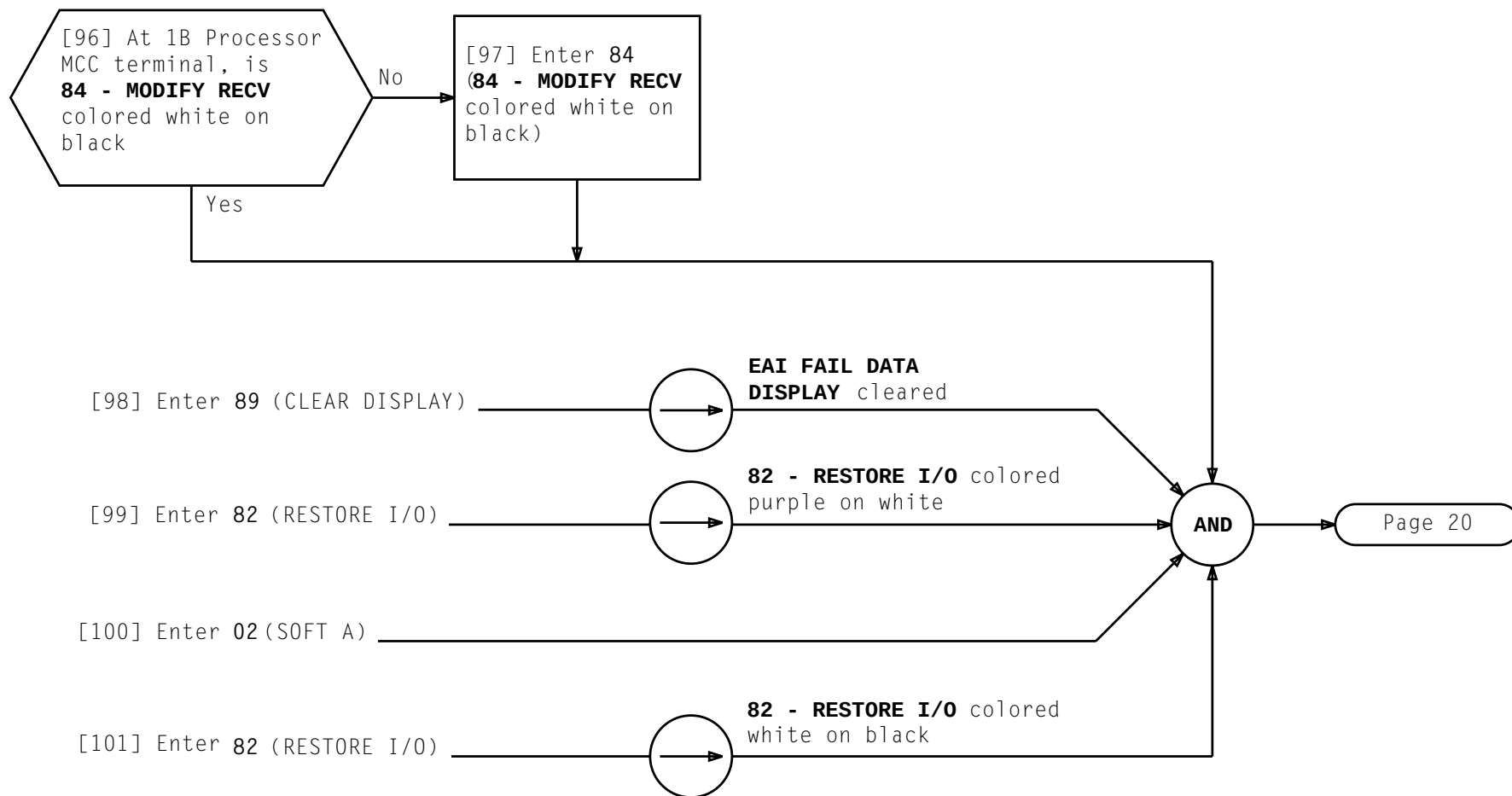
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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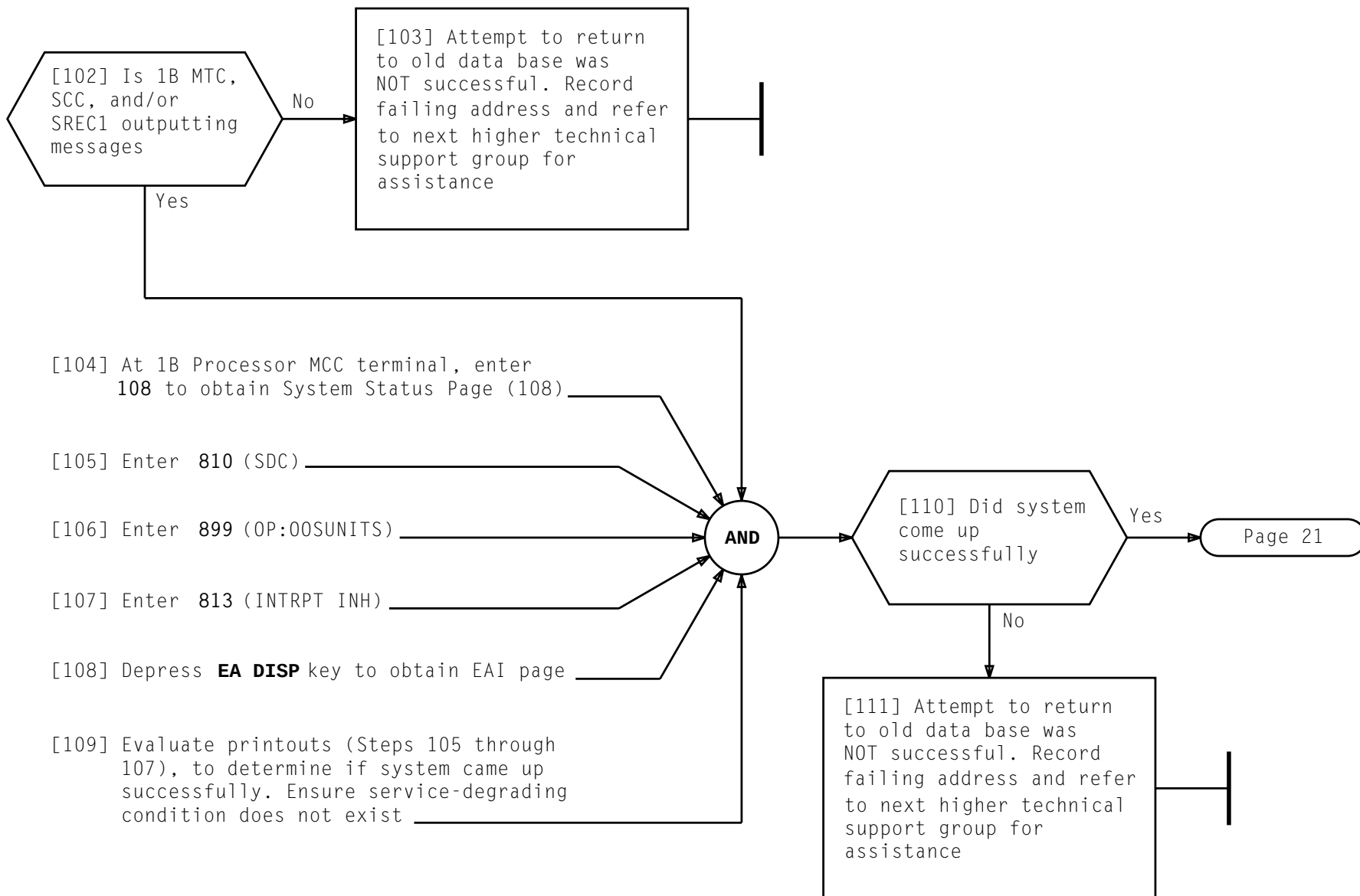
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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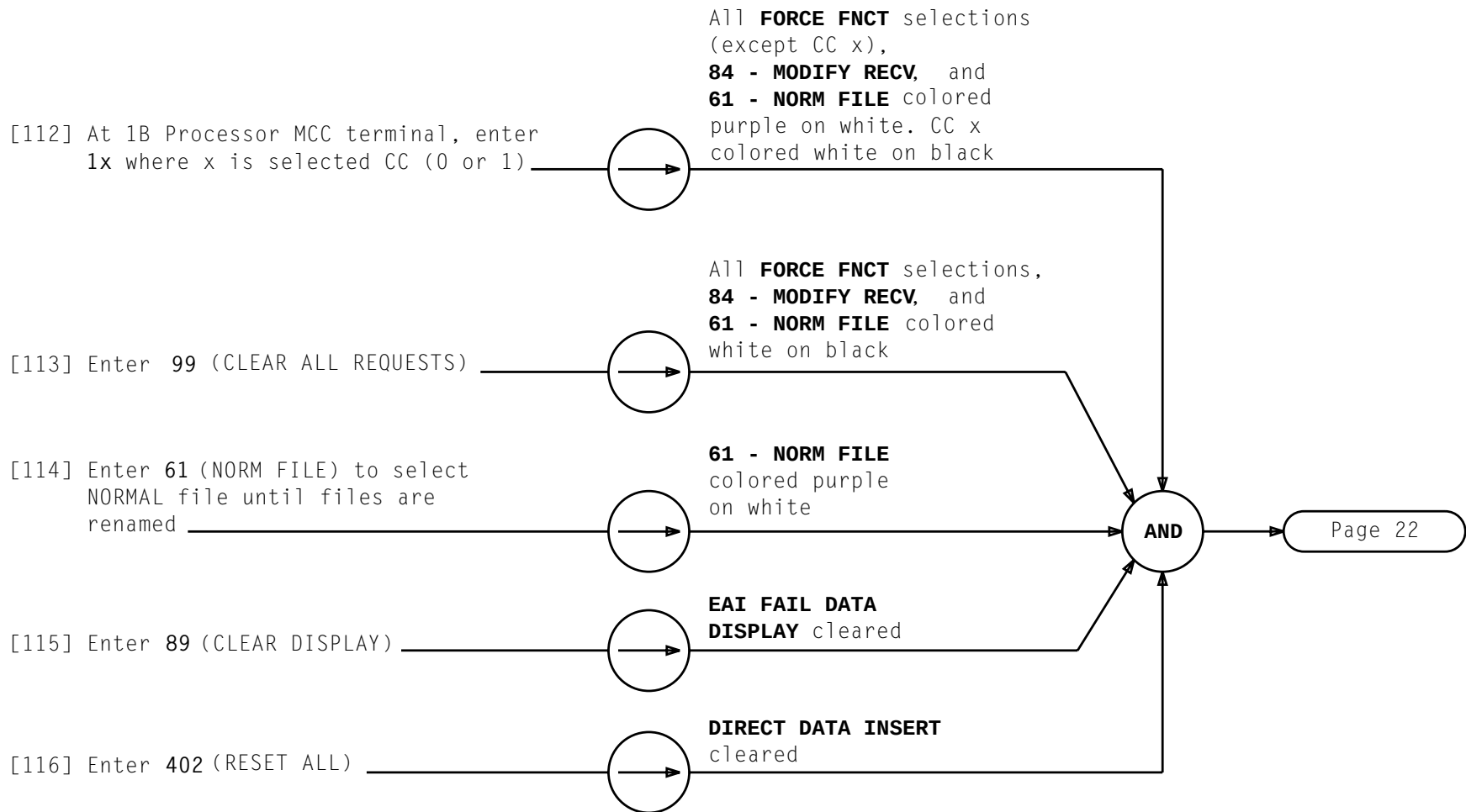
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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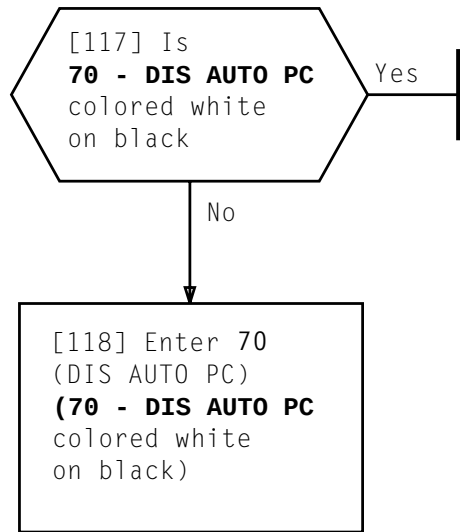
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |            |
|---------------|------------|
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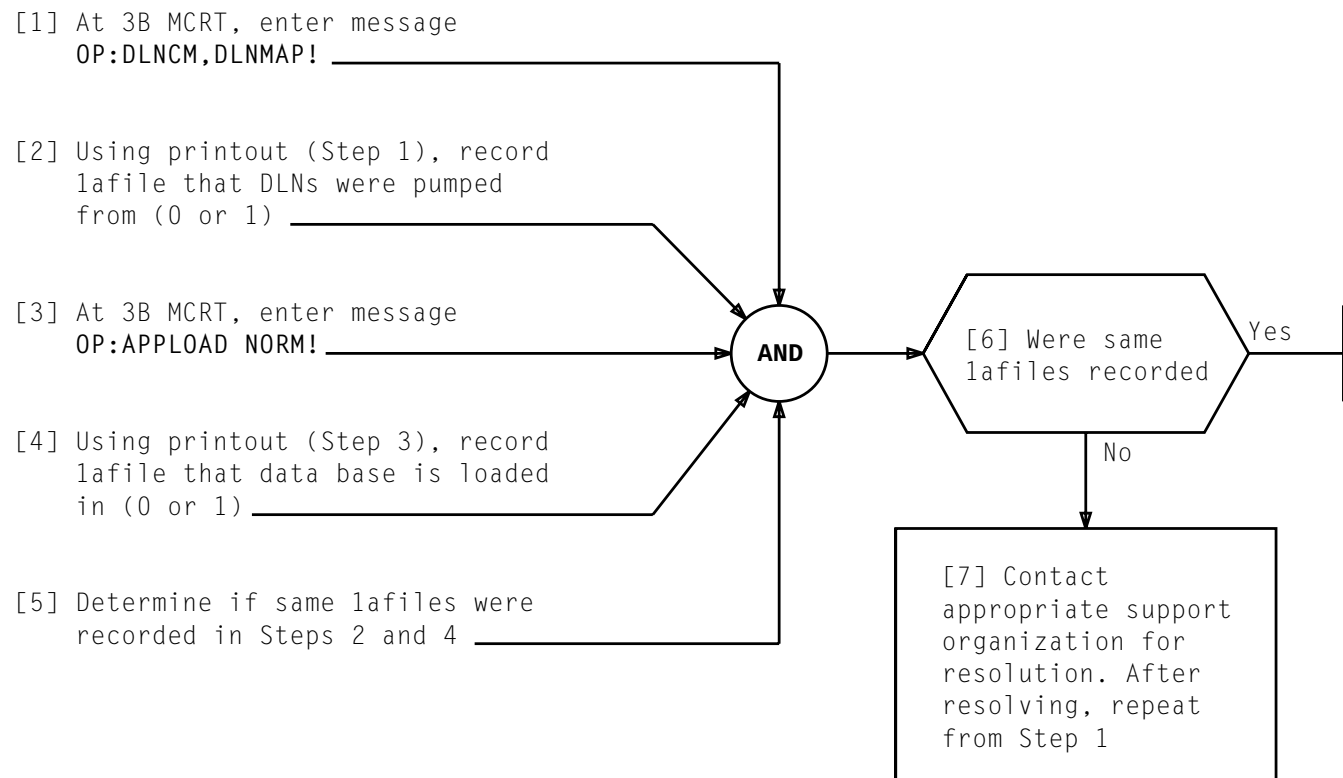
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

|               |          |
|---------------|----------|
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**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

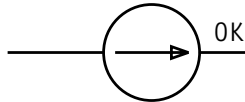
|               |            |
|---------------|------------|
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## VERIFY DLNs PUMPED FROM PROPER 1AFILE

|             |          |
|-------------|----------|
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[1] At 1B MTC terminal, type, but do not send,  
partially completed message  
**SET:CLK:DAY a,DATE b,TIME ccdd!**  
(Complete everything except minutes and seconds)  
a = day (SUN, MON, TUE, etc.)  
b = date (6-digit number - mmddyy)  
cc = hour  
dd = minute

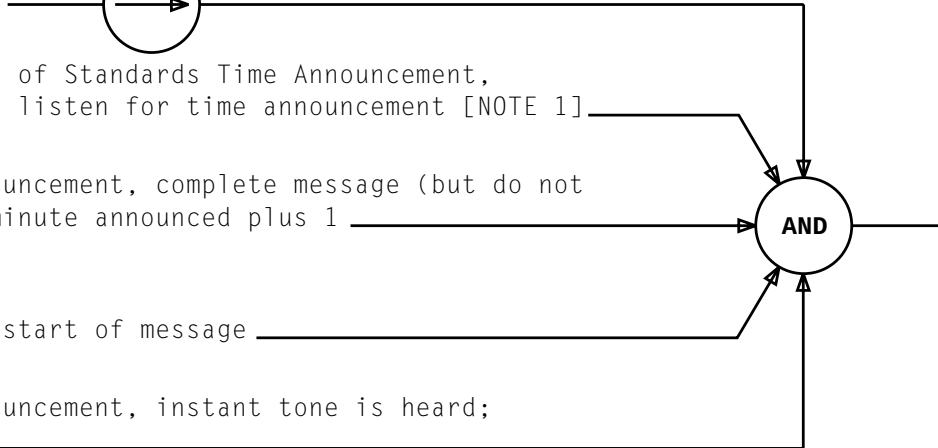


[2] Call U. S. Bureau of Standards Time Announcement,  
303-499-7111, and listen for time announcement [NOTE 1]

[3] At next time announcement, complete message (but do not  
send) by adding minute announced plus 1

[4] Return cursor to start of message

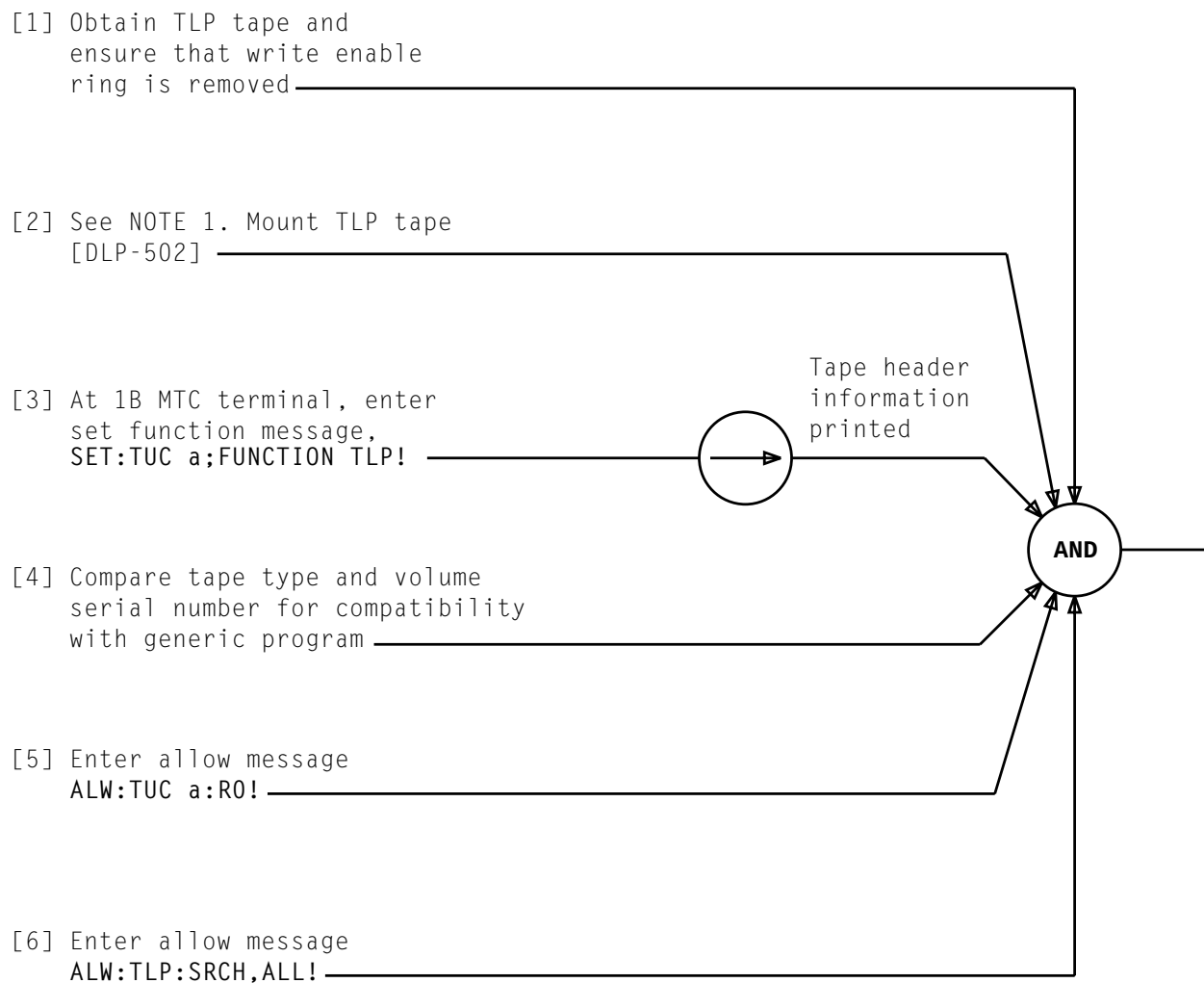
[5] At next time announcement, instant tone is heard;  
depress **SEND** key



#### NOTE 1

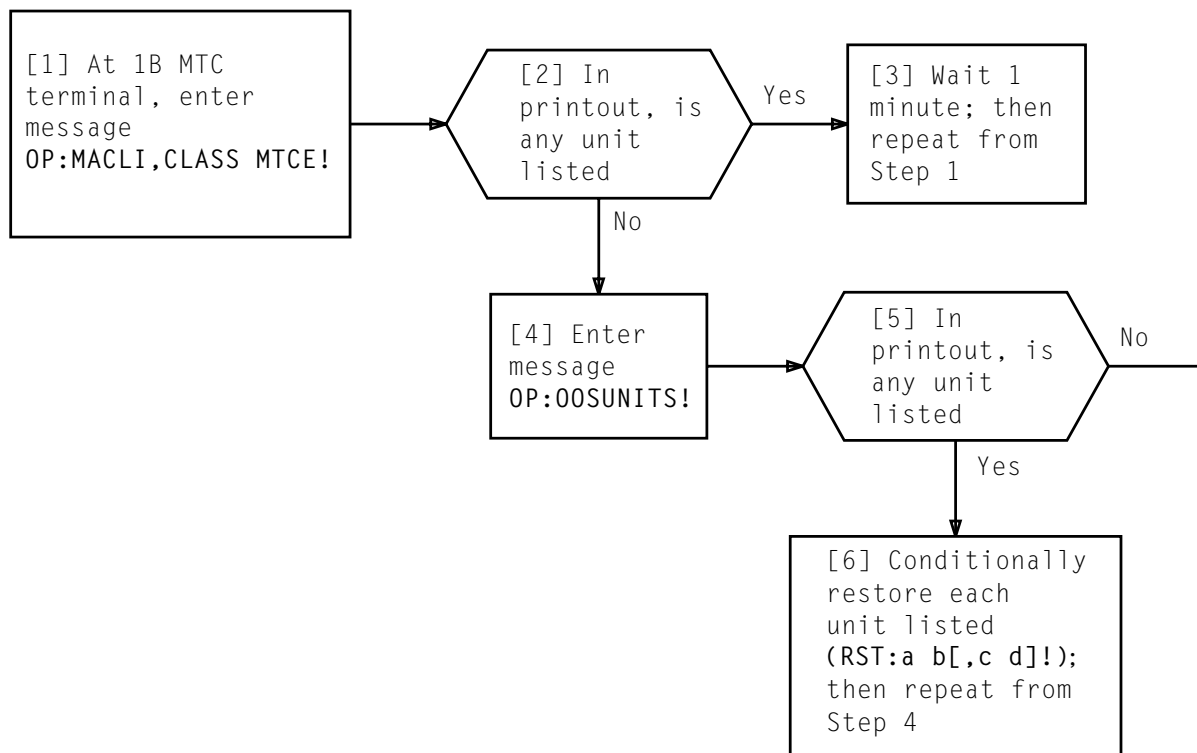
Time announcements  
are made every  
minute on the minute.  
Hours announced are  
in Greenwich Mean  
Time

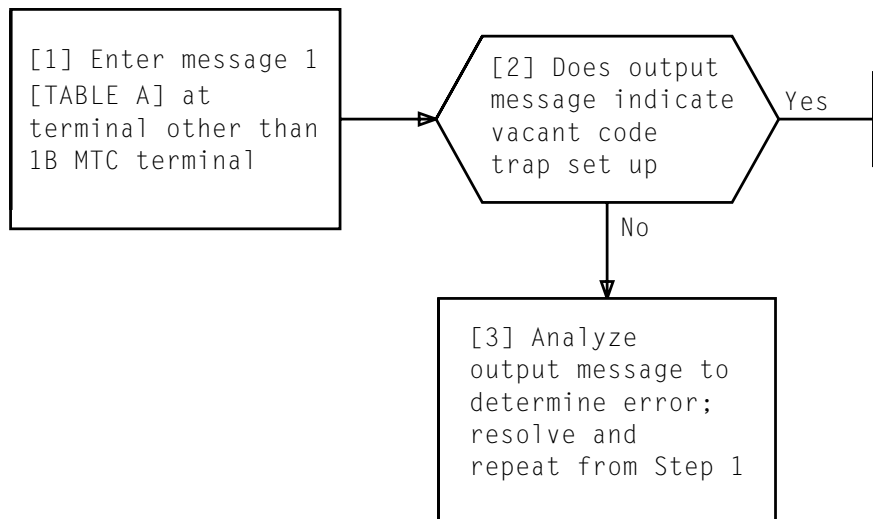
|                    |                 |
|--------------------|-----------------|
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| <b>234-160-020</b> | <b>DLP</b>      |
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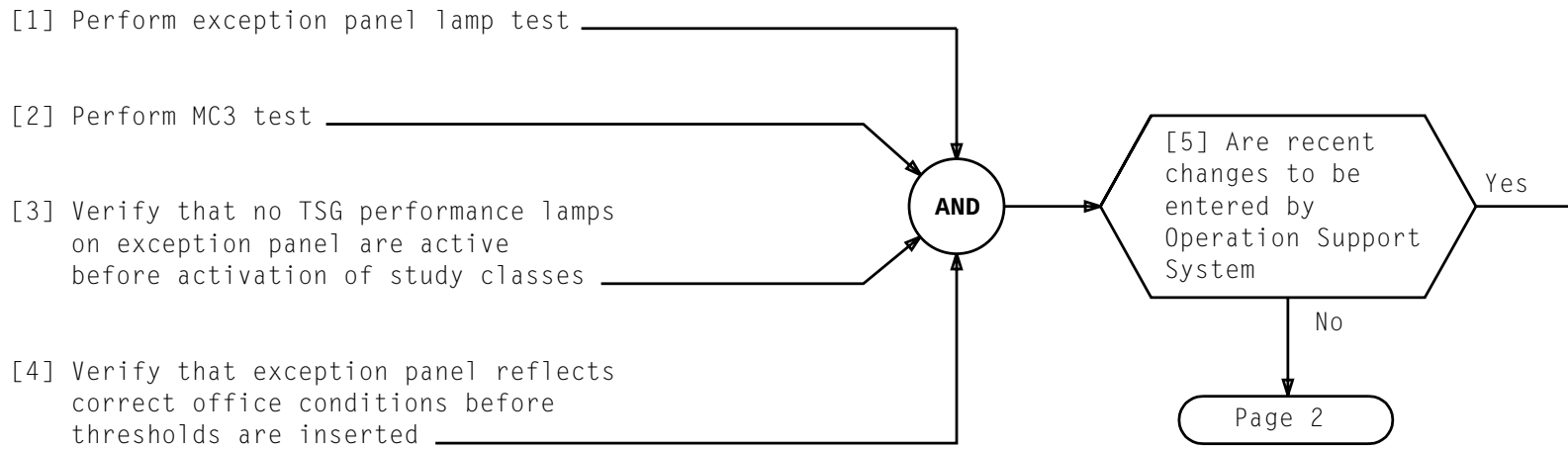
**PLACE TLP TAPE IN SERVICE**

|                                                                           |          |  |
|---------------------------------------------------------------------------|----------|--|
| NOTE 1                                                                    |          |  |
| Local procedures will dictate tape units on which TLP tape can be mounted |          |  |
| Issue 1                                                                   | NOV 1994 |  |
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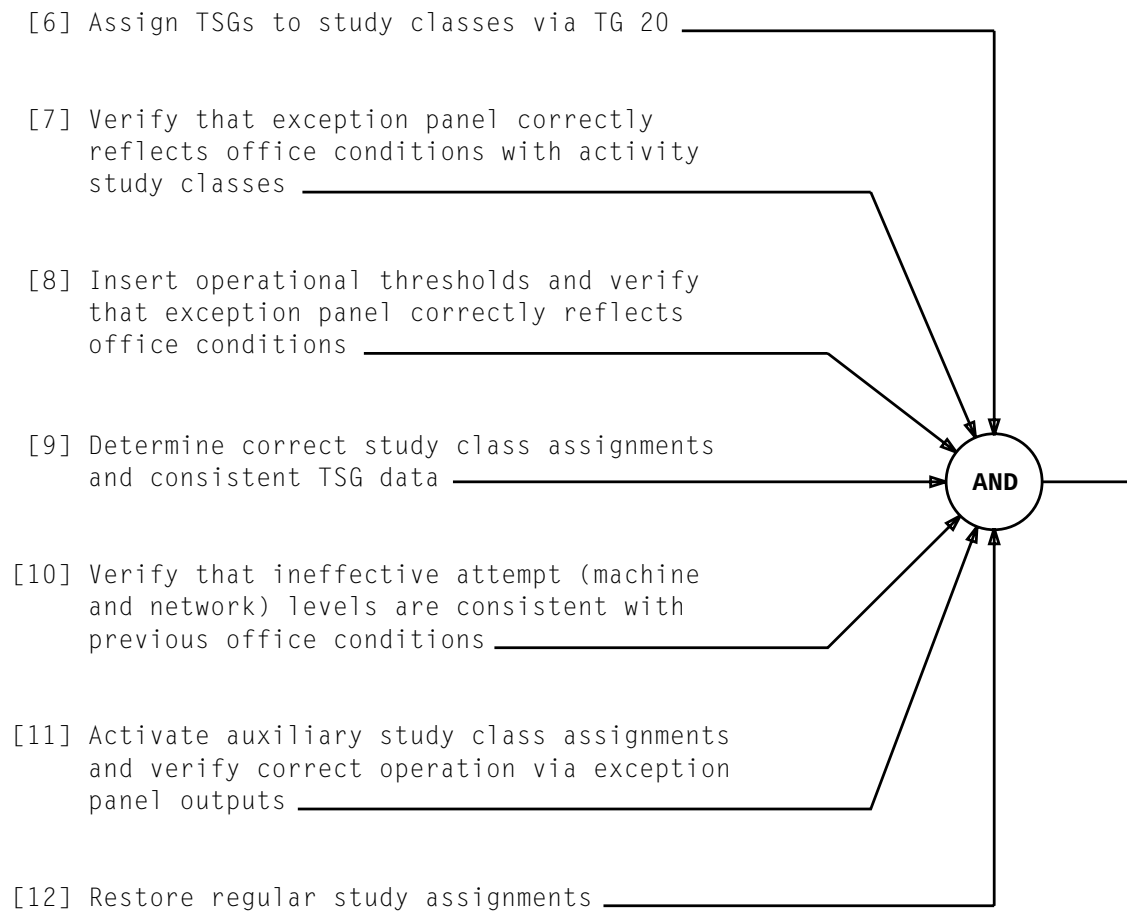


| TABLE A        |                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | INPUT MESSAGE                                                                                                                                                  |
| 1              | MON:IAOFC,NEW;ADD:IA (VCA,NCA,PDA,PER),TIMEON hhmm,COUT!<br>hhmm = Hour (00 to 23) and minute (00 to 59) which specifies time trap is to start collecting data |



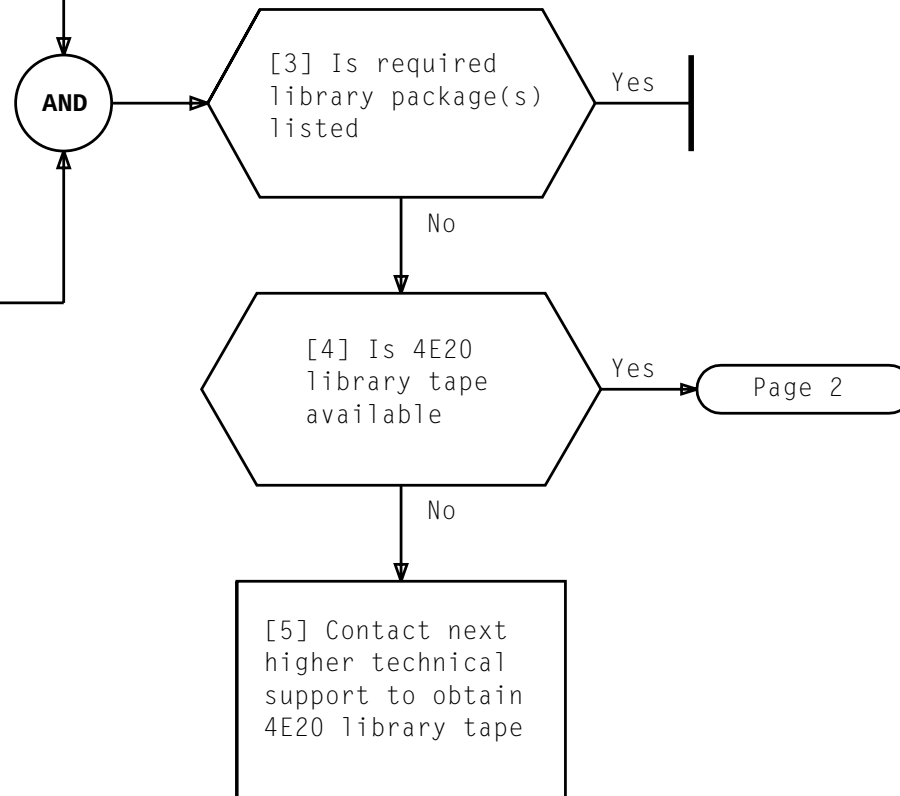
**CHECK OUT NETWORK MANAGEMENT SYSTEM**

|             |          |
|-------------|----------|
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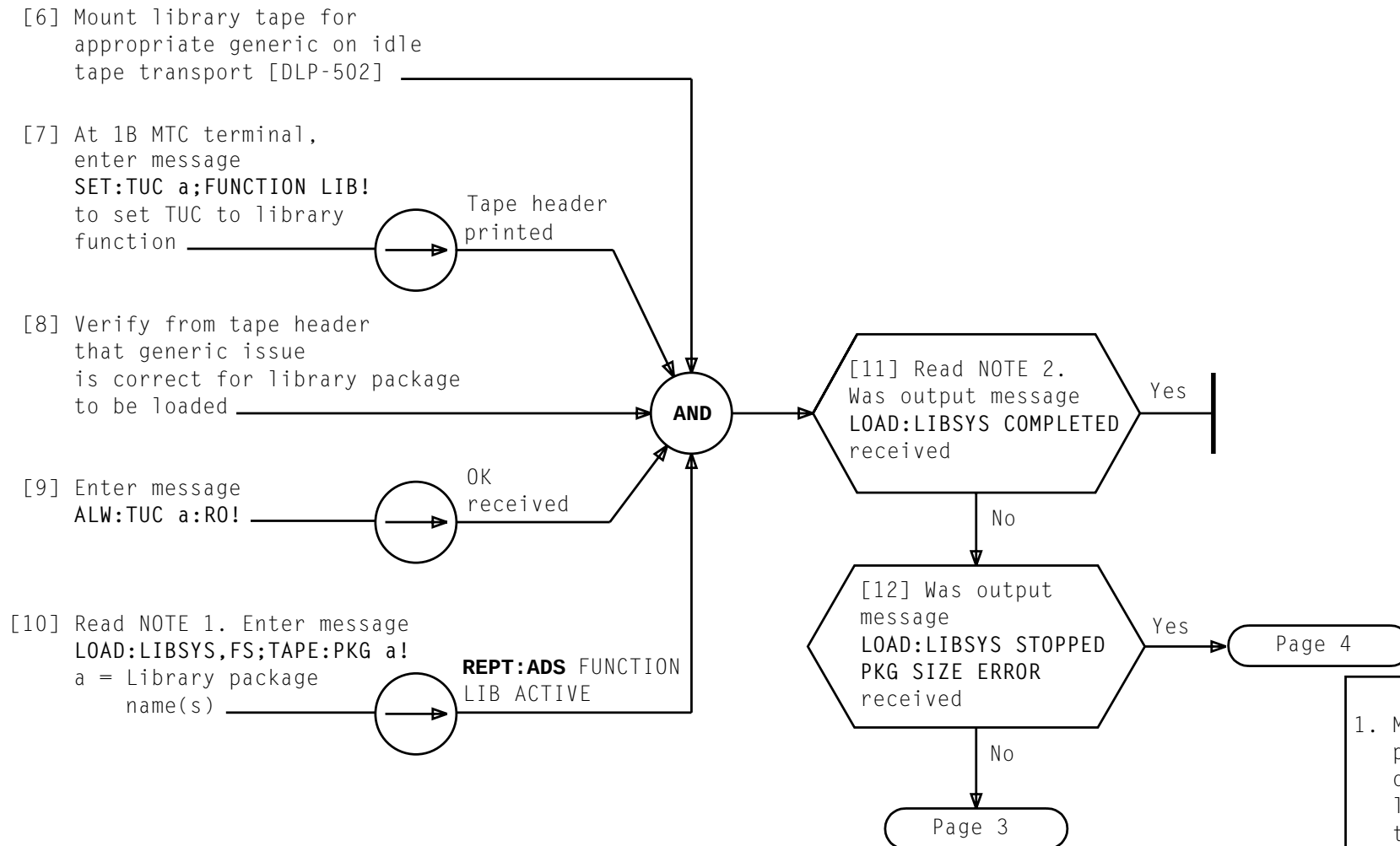
[1] At 1B MTC terminal,  
enter message  
OP:LIBSTAT,FS!

[2] Using printout,  
determine if  
required library  
package(s) is  
listed



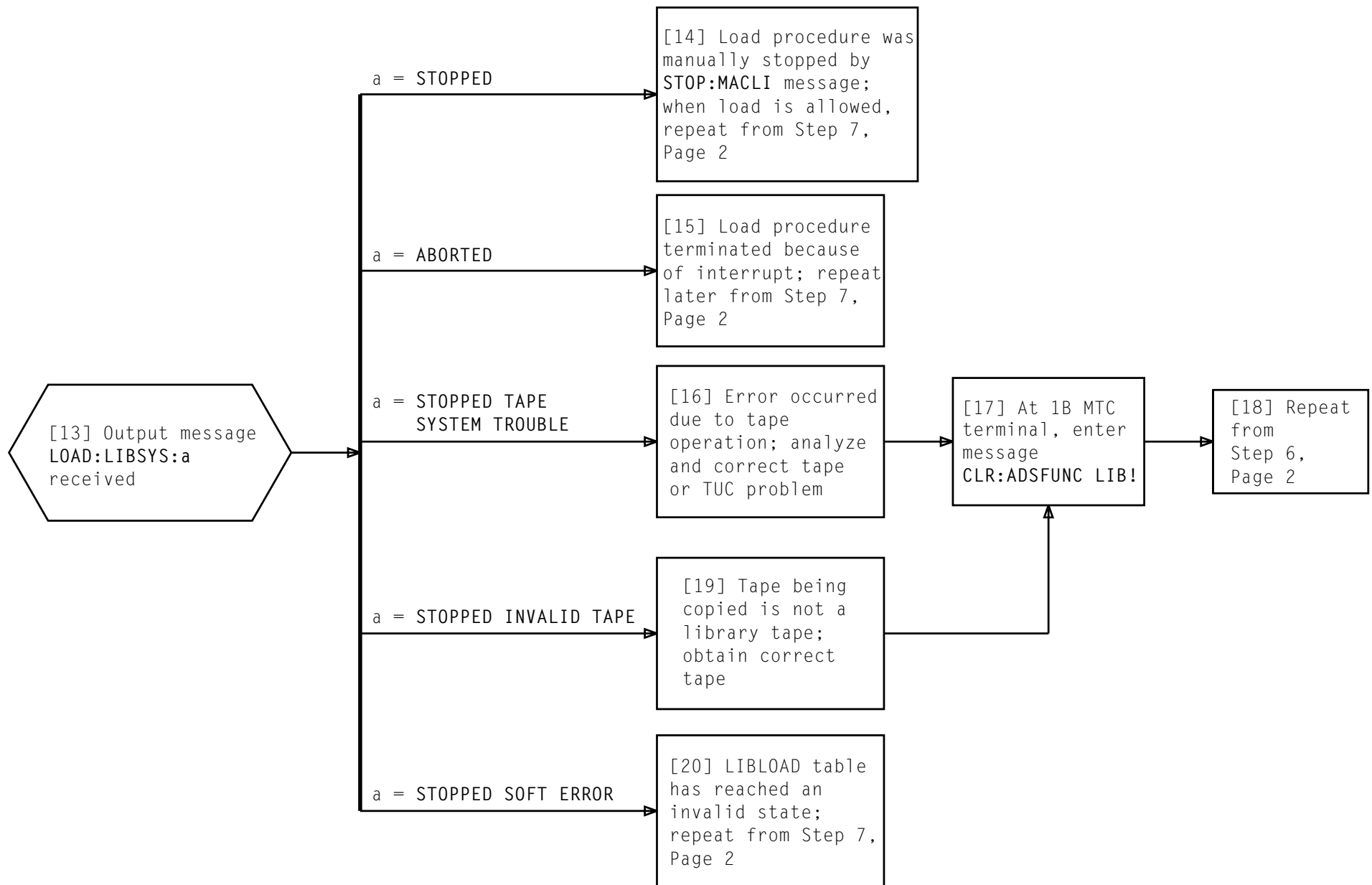
## LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK

|             |          |
|-------------|----------|
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| NOTES                                                                                                                        |          |  |
|------------------------------------------------------------------------------------------------------------------------------|----------|--|
| 1. Multiple library packages (maximum of 4) may be loaded at one time by separating with commas and enclosing in parentheses |          |  |
| 2. System will not respond COMPLETED until tape is loaded                                                                    |          |  |
| Issue 1                                                                                                                      | NOV 1994 |  |
| 234-160-020                                                                                                                  | DLP      |  |
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# **LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK**



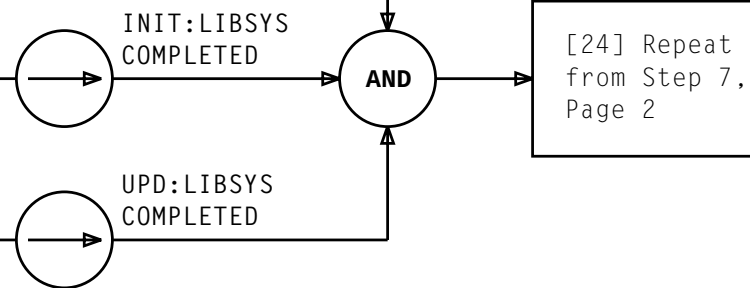
## LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK

|             |          |
|-------------|----------|
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[21] At 1B MTC terminal, enter  
message **OP:LIBSTAT,FS!** and  
identify library packages that  
will not be required for retrofit  
or ODA update processes

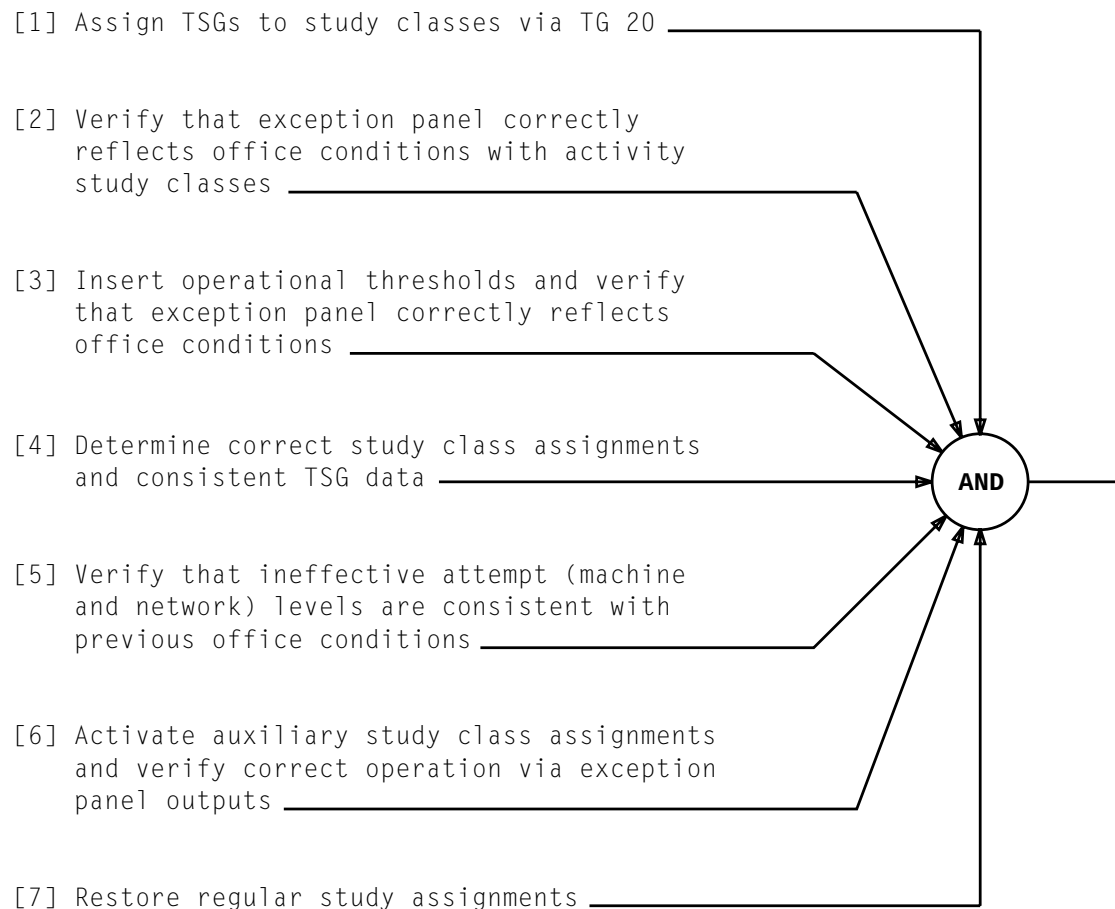
[22] Enter message  
**INIT:LIBSYS,PKG a!**  
to remove a library package  
a = library package identified  
in previous step

[23] Enter message  
**UPD:LIBSYS!**  
to repack library packages



**LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK**

|             |          |
|-------------|----------|
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[1] See CAUTION 1. Inform Network Management Center not to make any changes to the NWM data base via Page CN20 while tape writing is in progress

[2] Select available tape transport for mounting tape to be written. Demount tape if one is mounted [DLP-501]

[3] Mount blank, or erasable, tape with write-enable ring attached [DLP-502]

At 1B MTC terminal:

[4] Enter message  
CLR:ADSFUNC CPY!

[5] Enter message  
SET:TUC a;FUNCTION CPY!

[6] Check header information.  
If tape is blank or erasable,  
enter message ALW:TUC a:RW!

[7] Enter message  
COPY: NWM;TAPE:VFY!

Inhibits set  
and tape  
mounted

Tape header  
information  
printed

Tape  
writing  
started

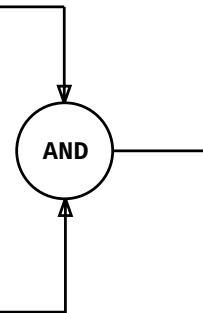
Page 2

Writing of  
tape begins  
[NOTE 1]

NOTE 1  
After network management tape is written, COPY:NWM;TAPE COMPL date and time are printed. Tape will then rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL is printed followed by REPT:DEMOUNT TAPE FROM TUC a

CAUTION 1  
Certain system audits are inhibited during tape writing. Therefore, tape writing should be done during light traffic periods

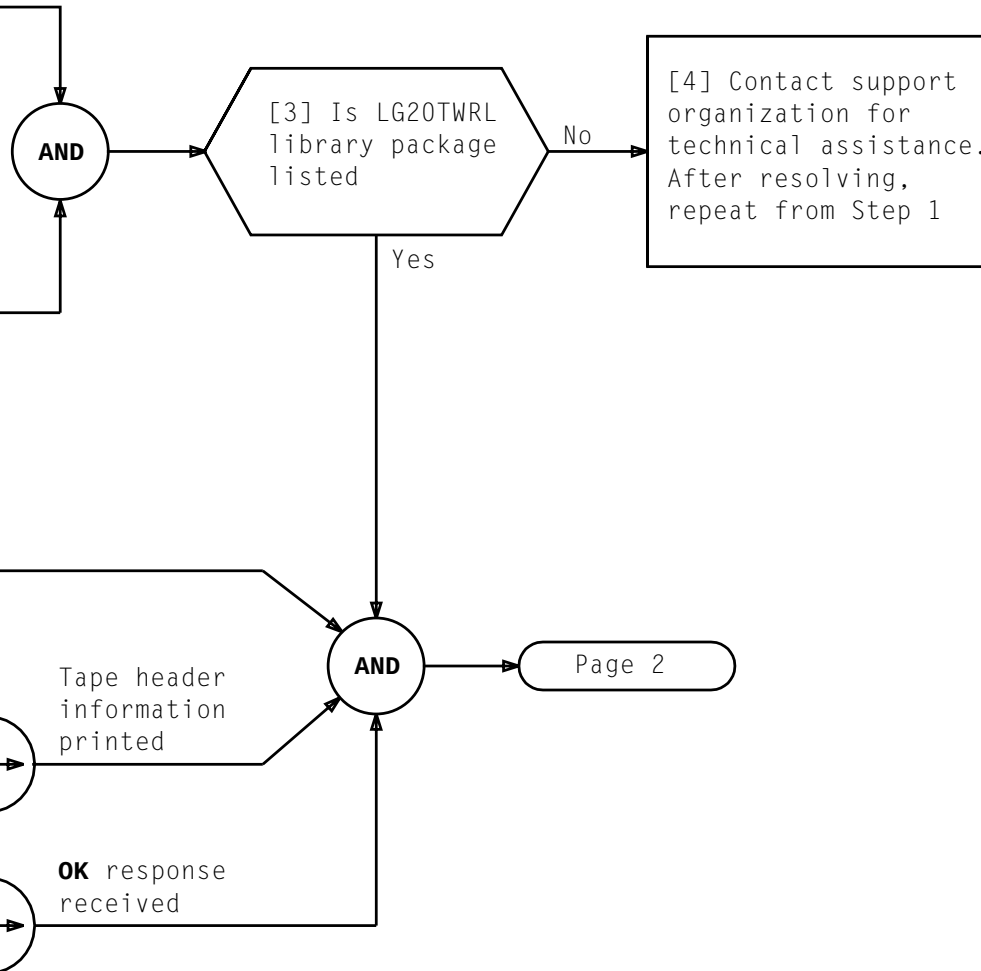
[8] After tape has been written  
and verified and REPT:DEMOUNT  
TAPE FROM TUC a is printed, demount  
tape just written [DLP-501] and  
remove write-enable ring



[9] Label and store tape per  
local instructions

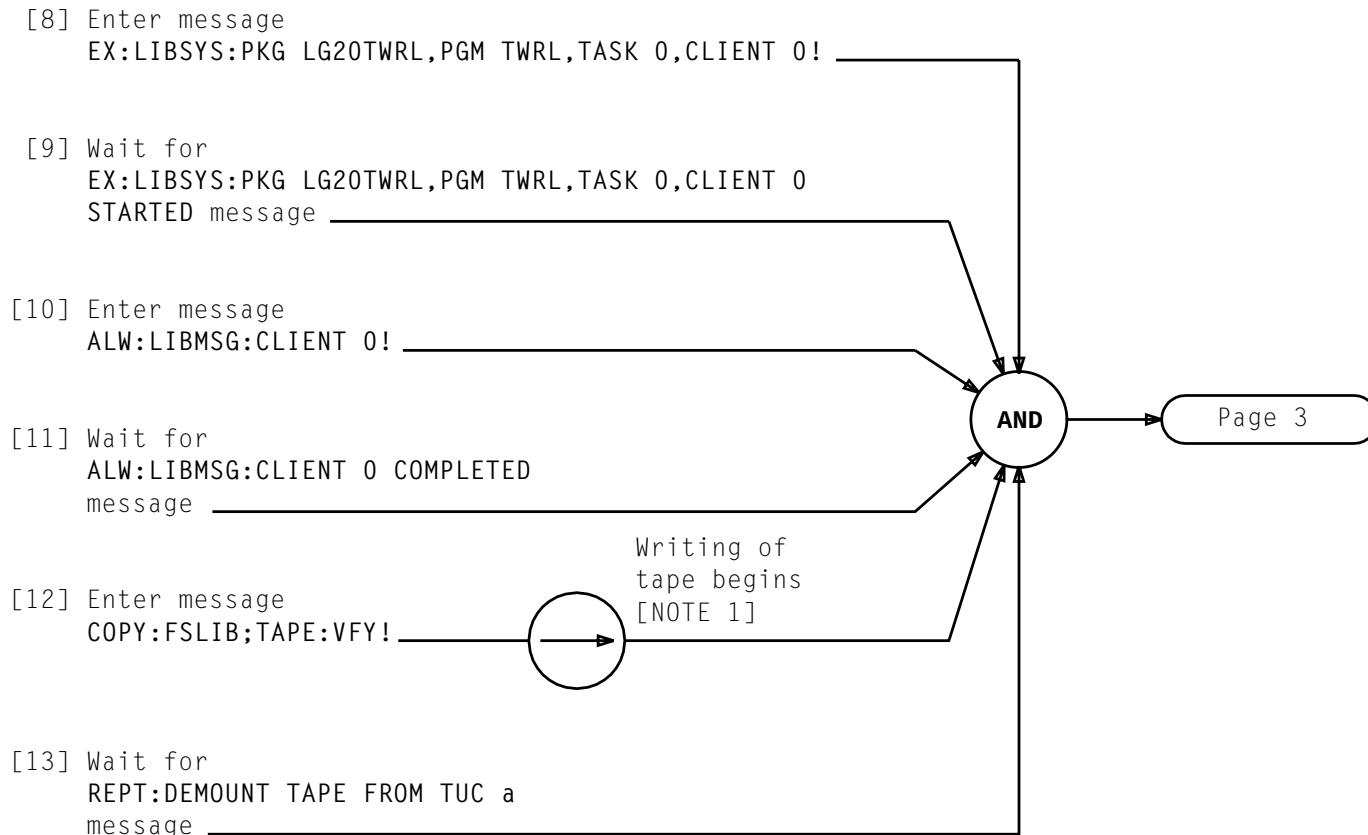
[1] At 1B MTC terminal, enter message  
OP:LIBSTAT,FS!

[2] Using printout, determine  
if LG20TWRL library  
package is listed



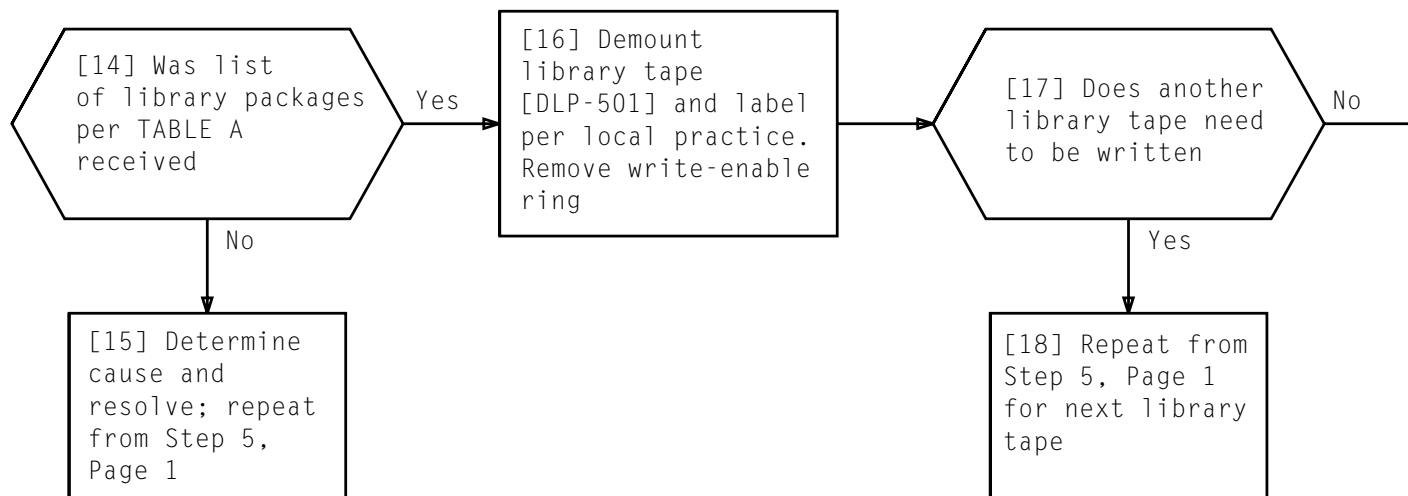
## WRITE 4E20 LIBRARY TAPE(S) USING TWRL LIBRARY PROGRAM

|             |          |
|-------------|----------|
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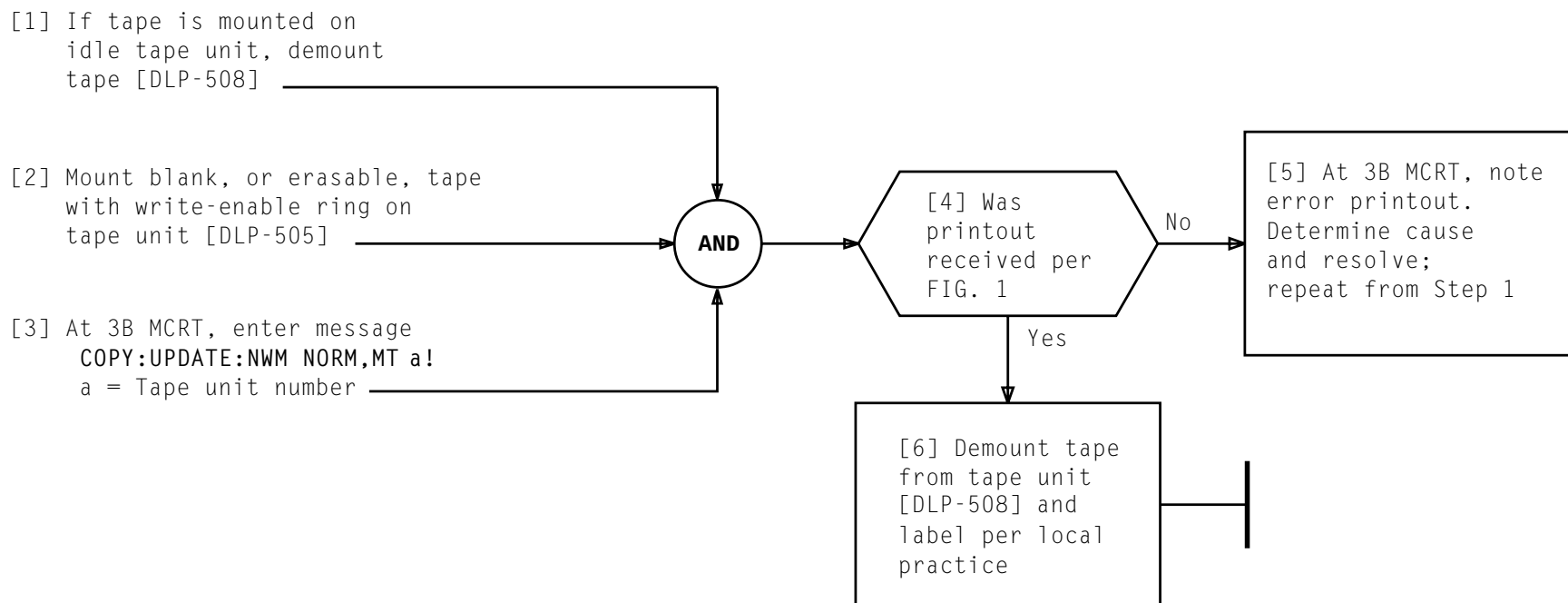


|                                                                                                                                                                                                                                                                                              |          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| NOTE 1<br>After library tape is written, tape will rewind and be verified. After verification has been completed, COPY:FSLIB COMPLETED with date and time are printed. Library program COMPLETED message and list of library packages are received followed by REPT: DEMOUNT TAPE FROM TUC a |          |  |
| Issue 1                                                                                                                                                                                                                                                                                      | NOV 1994 |  |
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**WRITE 4E20 LIBRARY TAPE(S) USING TWRL LIBRARY PROGRAM**



| TABLE A          |          |
|------------------|----------|
| LIBRARY PACKAGES |          |
| LG20TPAD         | LG20PKG1 |
| LG20FLDS         | LG20RCUA |
| LG20NETX         | LG20TMSG |
| LG20PGRO         | LG20TWRL |



COPY NWM FROM NORMAL FILE

TAPE FILE 10 WRITTEN FROM FS\*

NWM TAPE WRITTEN

\* MAY NOT BE RECEIVED

**FIG. 1 — Sample NWM Tape  
Write Printout**

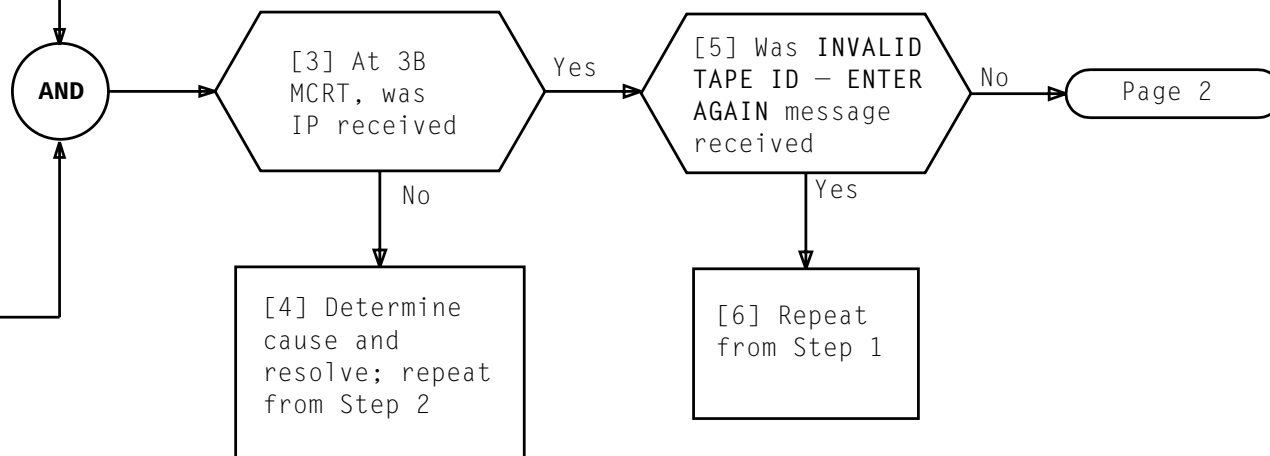
[1] Determine BASE and CONTROL numbers recorded earlier

[2] See NOTE 1. At 3B MCRT, enter message  
LOAD:UPDATE:ODA "ab",MT c!

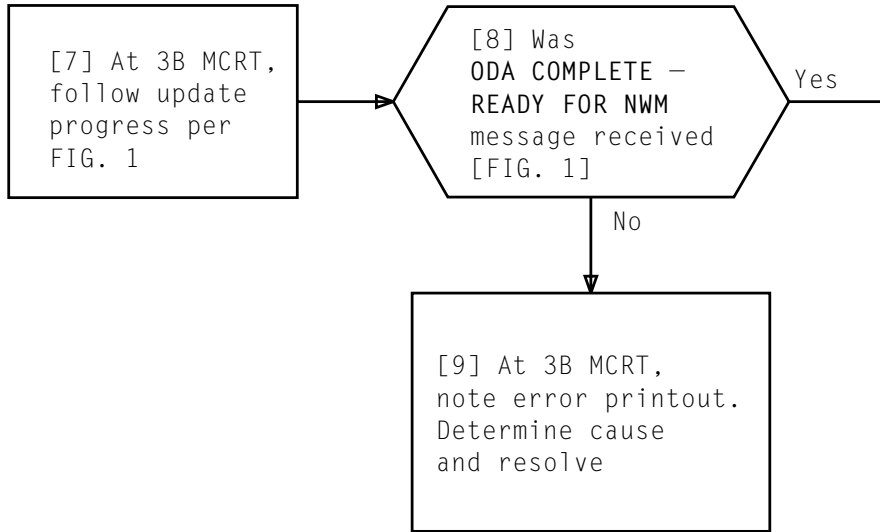
a = BASE number (Step 1). Must be 4 characters long. Spaces are used after base number if not 4 characters long

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

c = Tape unit number with ODA tape mounted



NOTE 1  
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

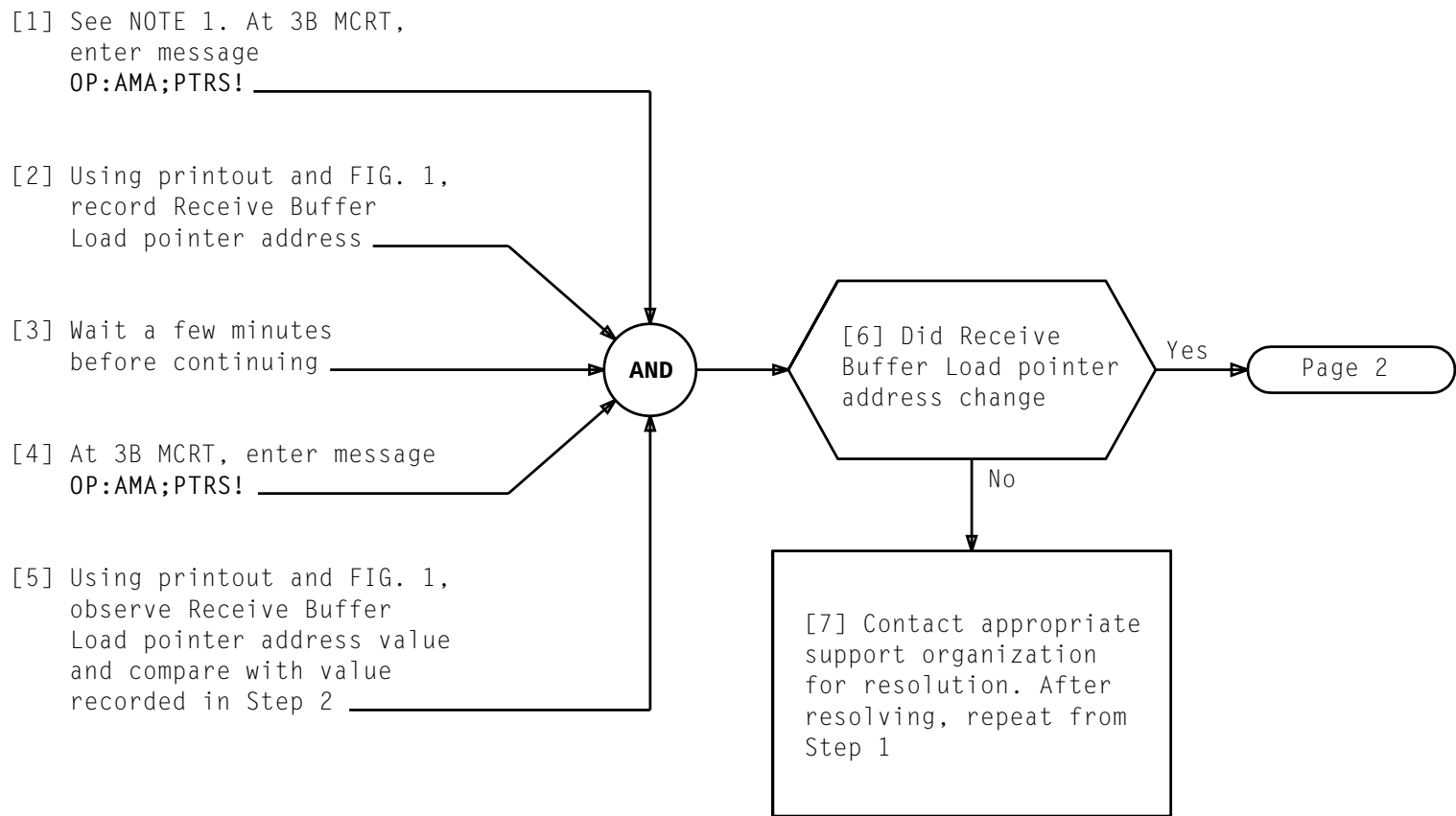


```

ODA UPDATE
TAPE HEADER
•
•
•

/etc/vcp /dev/1afileX /dev/1afileY 131072 > /dev/null
TAPE FILE 10 LOADED TO FS
•
TAPE FILE n LOADED TO FS
ODA COMPLETE - READY FOR NWM
  
```

**FIG. 1 – Sample ODA Load Printout**



REPT AMA POINTERS INFORMATION  
 Receive Buffer Unload pointer:  
 DMAnum 0 offset 52284 address 508988  
 Receive Buffer Load pointer:  
 DMAnum 0 offset 50008 address 506712

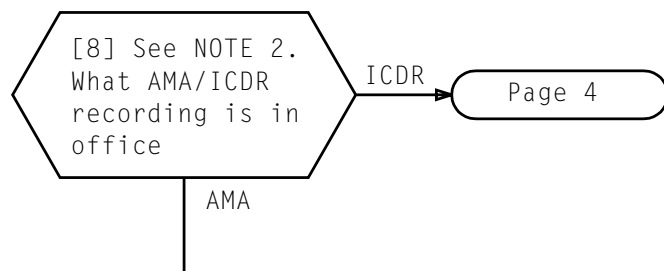
•  
•

Record This Value

FIG. 1 – Sample Output Message

## CHECK CAMA AND/OR ICDR OPERATION

|                                                                                                                                                                               |          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| NOTE 1<br>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 |          |  |
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[9] At 3B 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 \_\_\_\_\_

**AND**

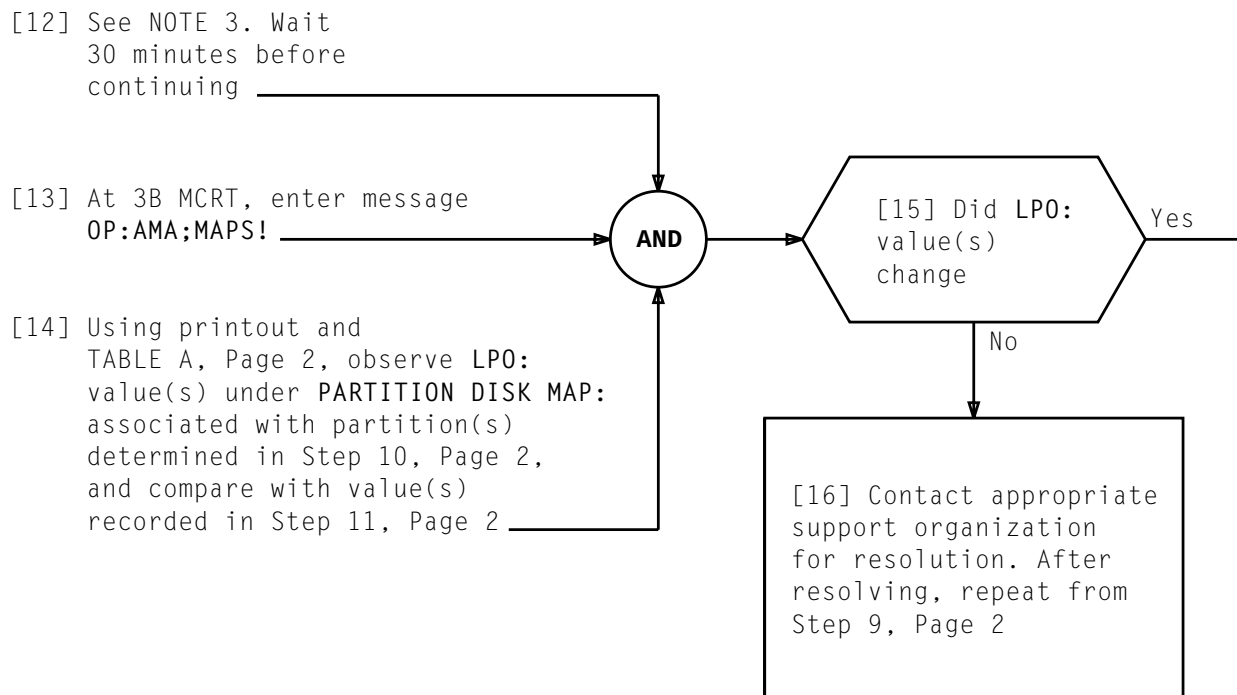
Page 3

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

NOTE 2  
If AMA and ICDR data is being recorded, Steps 9 through 16 and Steps 17 through 24 can be performed simultaneously

|             |          |
|-------------|----------|
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**CHECK CAMA AND/OR ICDR OPERATION**



#### NOTE 3

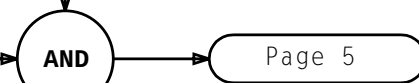
Data accumulates in a big buffer before it is split and written to disk. If only tracer records are being recorded, it would take approximately 2 hours before LPO: value would change. If a lot of AMA data is recorded, 30-minute wait may not be necessary. Other post retrofit activities can be performed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

|                    |                 |
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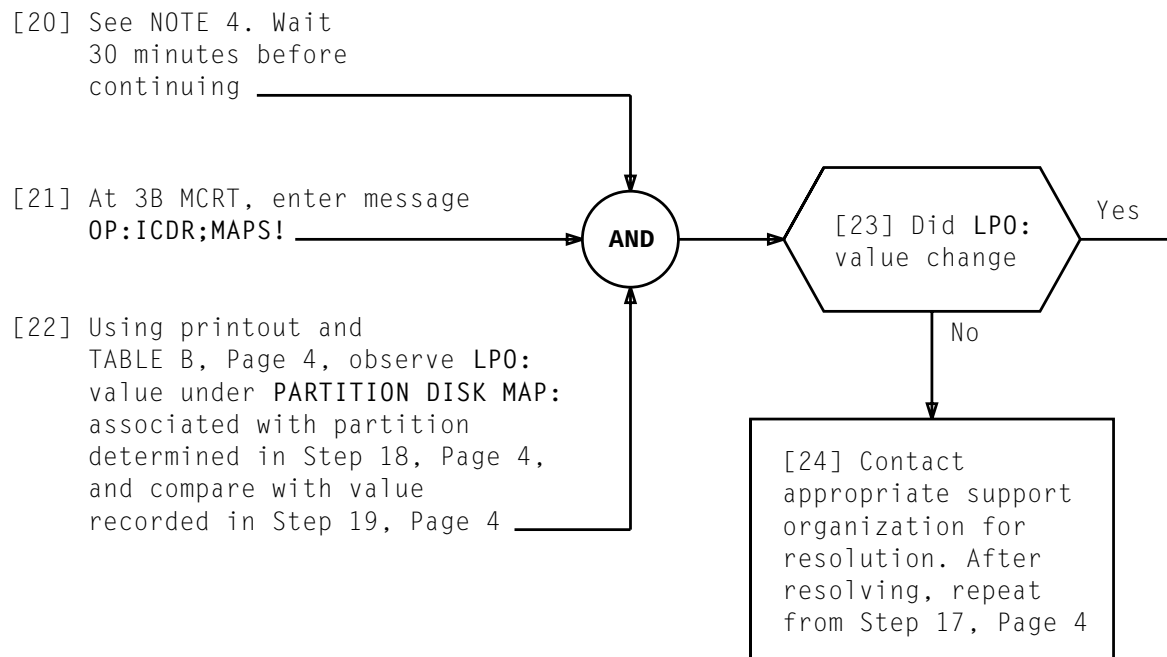
[17] At 3B MCRT, enter message  
OP:ICDR;MAPS! \_\_\_\_\_

[18] Using printout and  
TABLE A, Page 2,  
determine partition  
number associated with  
WRITE PARTITION \_\_\_\_\_

[19] Using printout and  
TABLE B, record LPO:  
value under  
PARTITION DISK MAP:  
associated with  
partition determined  
in Step 18 \_\_\_\_\_



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



**NOTE 4**

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

[1] At 1B MTC terminal,  
 enter execute message  
 EX:LIBSYS:PKG LG2ORCUA,PGM RCLI,TASK 3,CLIENT 0!

[2] Verify that output messages 1, 2, and 3  
 [TABLE A] are received

[3] See NOTE 1. When output message number 3  
 [TABLE A] is received, enter message to  
 start processing  
 IN:LIBSYS:CLIENT 0,ASC nnnnnn!  
 nnnnnn = first RC order number on tape  
 (6-digit number)

AND

[4] Does  
 printout indicate  
 recent changes  
 being performed

Yes

Page 2

No

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

**TABLE A**

| MESSAGE<br>NUMBER | OUTPUT MESSAGE                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| 1                 | EX:LIBSYS:PKG LG2ORCUA,PGM RCLI,TASK 3,CLIENT 0<br>STARTED                                                       |
| 2                 | REPT:RCLI,PROCESSING INPUT FILE RCLIMnyymmddhhmm<br>n = 1 or 2<br>yymmddhhmm = Date and time Task 3 Tape created |
| 3                 | REPT:RCLI,ENTER MSG FOR TASK 3 - ORNU TO START PROCESSING                                                        |

**NOTE 1**

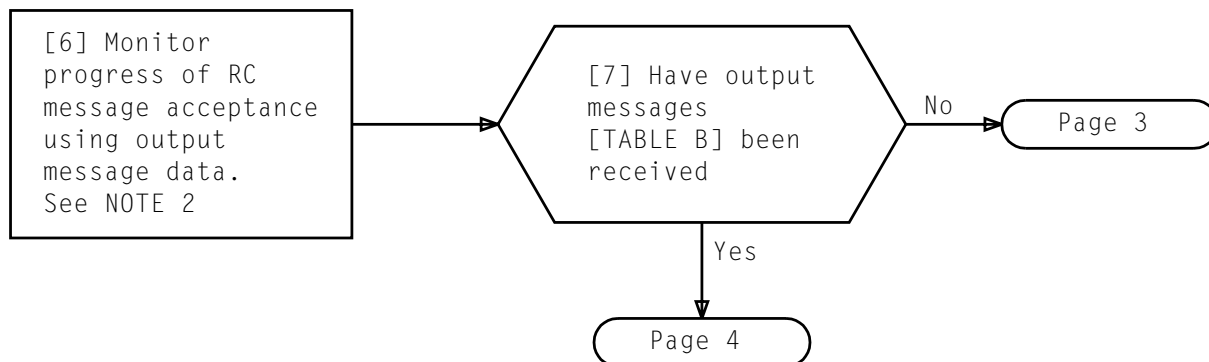
All Large Scale  
 Nailup Capability  
 is mapped over  
 during update. RCLI  
 will not process  
 associated 205 and  
 206 forms entered  
 after final ODA  
 TWRP (deleted  
 during Task 0  
 processing)

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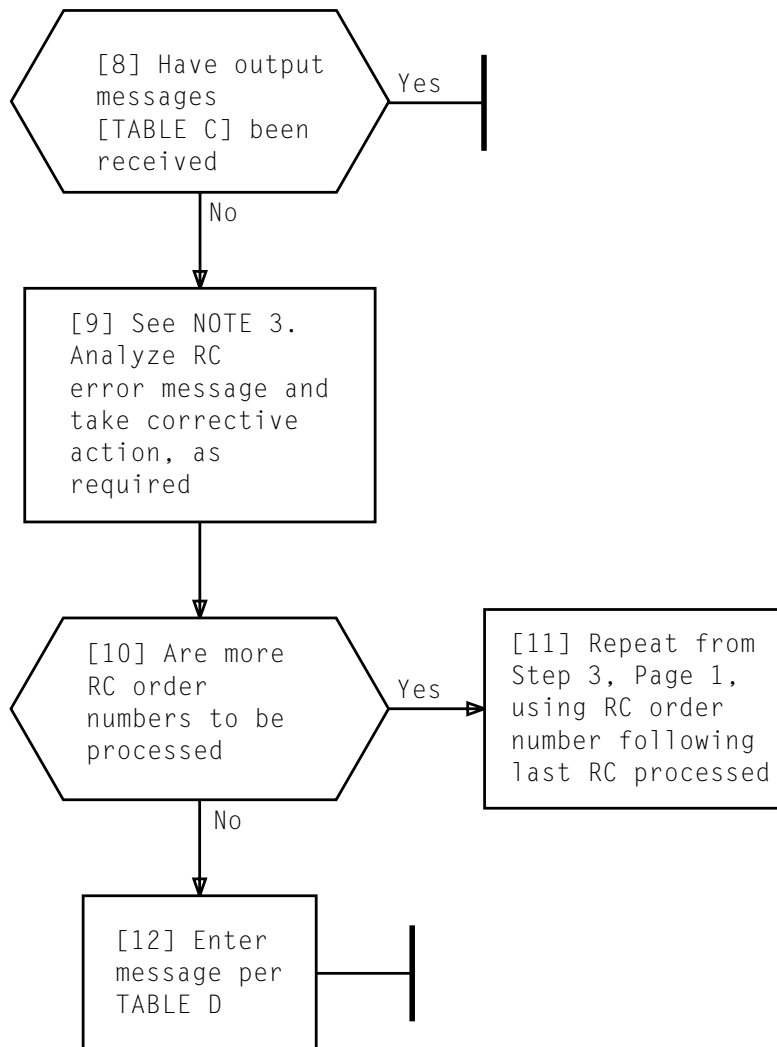
**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT  
 CHANGES INTO SYSTEM**



| TABLE B        |                                                                     |
|----------------|---------------------------------------------------------------------|
| MESSAGE NUMBER | OUTPUT MESSAGE                                                      |
| 1              | REPT:RCLI,RC ROLLBACK AREA 90% FULL,ORNU nnnnnn LAST ORNU PROCESSED |
| 2              | REPT:RCLI, ENTER MSG FOR TASK 3-ABORT OR OVERWRITE ROLLBACK AREA    |

|                                                                                                                                                                                                                         |          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| NOTE 2<br>If error is detected during processing, normal RC error messages will be received and normal RC processing will take over. Library Program will be in wait mode and will abort in 30 minutes if not restarted |          |  |
| Issue 1                                                                                                                                                                                                                 | NOV 1994 |  |
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**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**

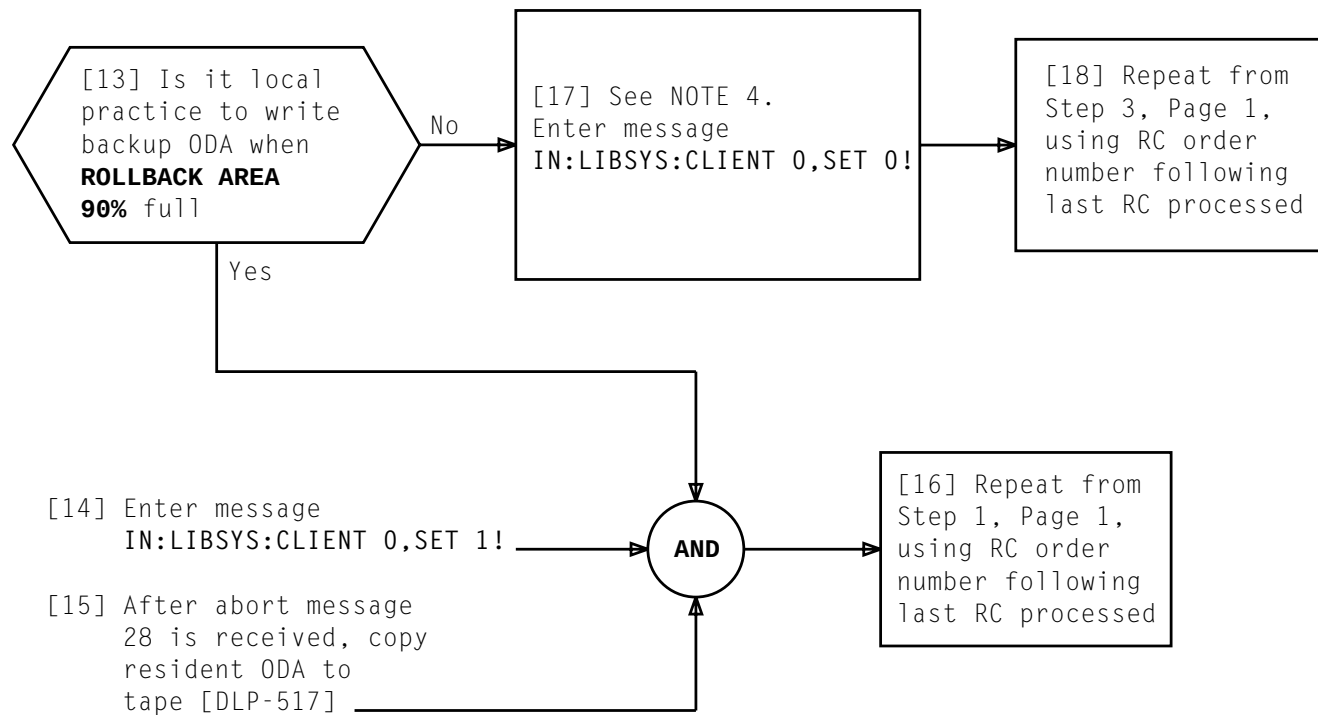


| TABLE C        |                                                                                                                                                                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | OUTPUT MESSAGE                                                                                                                                                                                                                                                                    |
| 1              | REPT:RCLI CONTROL REPORT<br>TASK NUMBER 3<br>COUNT OF RCDM MESSAGES ON INPUT TAPE (RCLIMnyymmddhhmm):nnnn<br>COUNT OF RCDM MESSAGES SENT TO RC GENERIC PGM:nnnn<br>COUNT OF UNIT TYPE MESSAGES ACTIVATED:nnnn<br>nnnn = Number of messages<br>nyymmddhhmm = Part of Tape filename |
| 2              | REPT:RCLI,TASK COMPLETED SUCCESSFULLY                                                                                                                                                                                                                                             |
| 3              | EX:LIBSYS:PKG LG2ORCUA,PGM RCLI,TASK 3,CLIENT 0<br>COMPLETED<br>REPT:DEMOUNT TAPE FROM TUC a                                                                                                                                                                                      |

| TABLE D        |                                                    |
|----------------|----------------------------------------------------|
| OUTPUT MESSAGE | INPUT MESSAGE                                      |
| 1              | STOP:LIBSYS:PKG LG2ORCUA,PGM RCLI,TASK 3,CLIENT 0! |

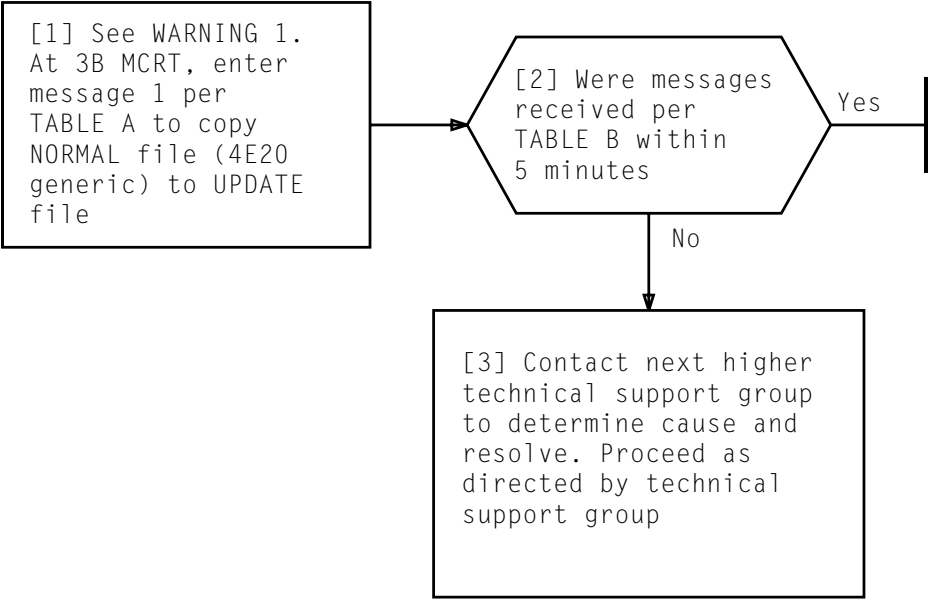
**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**

|                                                                        |            |
|------------------------------------------------------------------------|------------|
| NOTE 3<br>Recent change in error must be entered manually, if required |            |
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|                                                                            |          |  |
|----------------------------------------------------------------------------|----------|--|
| NOTE 4<br>SET message will cause recent changes to overwrite rollback area |          |  |
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**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**



| TABLE A        |                        |
|----------------|------------------------|
| MESSAGE NUMBER | OUTPUT MESSAGES        |
| 1              | COPY:APPFILE NORM;UCL! |

| TABLE B        |                                                                                           |
|----------------|-------------------------------------------------------------------------------------------|
| MESSAGE NUMBER | OUTPUT MESSAGES                                                                           |
| 1              | /etc/vcp /dev/lafileX /dev/lafileY 65536 >/dev/null STARTED<br><br>COPY:APPFILE COMPLETED |

|                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------|----------|
| <i>WARNING 1</i><br><i>Care must be taken to ensure proper message is entered to prevent service interruption</i> |          |
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| ITEM                                                                       | ISSUE | ITEM      | ISSUE | ITEM | ISSUE | ITEM | ISSUE | ITEM | ISSUE   | ITEM        | ISSUE |
|----------------------------------------------------------------------------|-------|-----------|-------|------|-------|------|-------|------|---------|-------------|-------|
| IXL-001                                                                    |       | DLP-527   |       |      |       |      |       |      |         |             |       |
| NTP-002                                                                    |       | DLP-528   |       |      |       |      |       |      |         |             |       |
| NTP-003                                                                    |       | DLP-529   |       |      |       |      |       |      |         |             |       |
| NTP-004                                                                    |       | DLP-530   |       |      |       |      |       |      |         |             |       |
| NTP-005                                                                    |       | DLP-531   |       |      |       |      |       |      |         |             |       |
| • NTP-006                                                                  |       | DLP-532   |       |      |       |      |       |      |         |             |       |
| NTP-007                                                                    |       | DLP-533   |       |      |       |      |       |      |         |             |       |
| NTP-008                                                                    |       | DLP-534   |       |      |       |      |       |      |         |             |       |
| DLP-500                                                                    |       | DLP-535   |       |      |       |      |       |      |         |             |       |
| DLP-501                                                                    |       | DLP-536   |       |      |       |      |       |      |         |             |       |
| DLP-502                                                                    |       | DLP-537   |       |      |       |      |       |      |         |             |       |
| DLP-503                                                                    |       | DLP-538   |       |      |       |      |       |      |         |             |       |
| DLP-504                                                                    |       | DLP-539   |       |      |       |      |       |      |         |             |       |
| DLP-505                                                                    |       | DLP-540   |       |      |       |      |       |      |         |             |       |
| DLP-506                                                                    |       | DLP-541   |       |      |       |      |       |      |         |             |       |
| DLP-507                                                                    |       | DLP-542   |       |      |       |      |       |      |         |             |       |
| DLP-508                                                                    |       | DLP-543   |       |      |       |      |       |      |         |             |       |
| DLP-509                                                                    |       | DLP-544   |       |      |       |      |       |      |         |             |       |
| DLP-510                                                                    |       | • CKL-891 |       |      |       |      |       |      |         |             |       |
| DLP-511                                                                    |       | TNG-893   |       |      |       |      |       |      |         |             |       |
| 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                                                                    |       |           |       |      |       |      |       |      |         |             |       |
| <div> <div>• REVISED OR ADDED ITEM</div> <div>☐ CANCELED ITEM</div> </div> |       |           |       |      |       |      |       |      | Issue 1 | MAR 1995    |       |
| CHECKLIST                                                                  |       |           |       |      |       |      |       |      | Revised | 234-160-020 | CKL   |
|                                                                            |       |           |       |      |       |      |       |      |         | PAGE 1 of 1 | 891   |