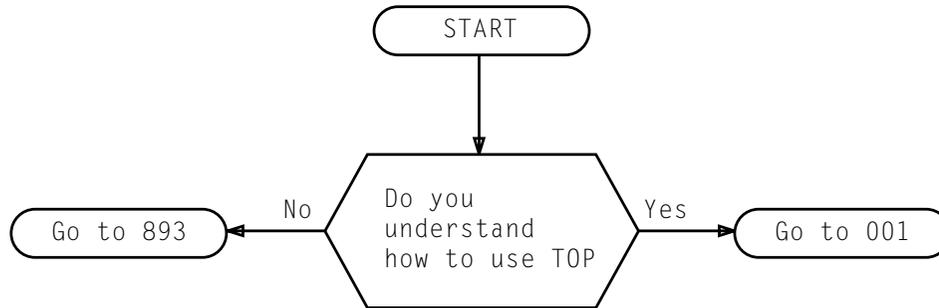




Task Oriented Practice (TOP)

# 4ESS™ Switch With 1B Processor 4E21 To 4E22 Generic Retrofit And 4E22 ODA Update



**TOP Comments Hot Line:**

Monday through Friday  
8:00 a.m. - 4:00 p.m. (Eastern)  
Call: 1-800-334-0404  
Or FAX to: 1-910-727-3043

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**4ESS™** Switch Customer Information Development Manager  
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**Developed by:**

Lucent Technologies Network Systems TSVS Information Development

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

Acceptance . . . . . NTP-002

**NOTE:** The tasks listed below for 4E21 to 4E22 Generic Retrofit or 4E22 ODA Update, must be performed at the interval with respect to retrofit or update date

**4E21 TO 4E22 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

**4E22 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**

**4E21 TO 4E22 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

**4E22 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
1	Notify National AMA Control Center and/or Revenue Accounting Office (RAO), Whichever Processes AMA Data, of Expected Date and Time of Generic Retrofit or ODA Update	-			
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 LEC Office Is Being Updated and 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 4E22 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 4E22 Generic Overwrites and if 4E22 Generic Overwrites Are Required, Save Per Local Practice. These Overwrites Will Be Inserted Into System After Office Is Running Successfully on 4E22 Generic	-			

**ARRANGE FOR AMA DATA COLLECTION AND CHECK SCANS FOR OVERWRITES**

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

			DATE	TIME	SIGNATURE
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 (1600 BPI), Write Backup Generic Tape	DLP-539			
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<22>5x.yy Ra and Proper Office Name Is Listed (OP:APLOAD UPD!)	DLP-500			
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 4E22 Generic Tape (Step 9)	-			
	2. Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E22 ODA Tape (Step 9)	-			

**TEST RETROFIT PROCESS**

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

			DATE	TIME	SIGNATURE
11 (Contd)	3. Mount Generic Tape on MT 0 and ODA Tape on MT 1	DLP-501			
	4. At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT 0! and Record Generic Identification Number (4E<22>5x.yy Ra) for Later Use in LOAD Message	DLP-502			
	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-502			
	B. If Only One 3B Tape Unit Is Available for Update				
	1. Verify That Tape Identification Data Is Correct for 4E22 Generic Tape (Step 9)	-			
	2. At Idle Tape Unit, Mount Generic Tape	DLP-501			
	3. At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT a! (a = Tape Unit Number) and Record Generic Identification Number (4E<22>5x.yy Ra) for Later Use	DLP-502			
12	Load New Generic on Disk (LOAD:UPDATE:GEN "4E<22>5x.yy Ra",MT a!)	DLP-503			
	<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 11, Perform Items 15 Through 18; Otherwise, Go to Item 19	-			
15	At Tape Unit Containing Generic Tape, Demount Tape After Tape Rewinds	DLP-504			
16	Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E22 ODA Tape (Step 9)	-			
17	At Tape Unit Just Idled, Mount ODA Tape	DLP-501			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
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-502			
19	Load New ODA on Disk (LOAD:UPDATE:CONT "aaaabb",MT c!)  <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>	DLP-505			
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-504			
22	At 3B MCRT, Enter Message OP:OOS! and Ensure That All Units Are in Service	DLP-506			
23	Repeat From Item 11 Using Another Copy of Tape That Failed	—			
24	Demount Tape on Idle Tape Unit	DLP-504			
25	Mount New Network Management Tape on Tape Unit and Verify That Tape Identification Is Correct for 4E22 Update (VER:UPDATE:TAPE,MT a!) a = Tape Unit Number	DLP-507			
26	Load New Network Management on Disk and Complete Data Base (LOAD:UPDATE:CONT NWM,MT a!)  <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 2. After receiving DATABASE COMPLETE — READY FOR GENERIC RETROFIT output message, loading process is complete	DLP-508			
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-504			

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

			DATE	TIME	SIGNATURE
29	At 3B MCRT, Enter Message OP:00S! and Ensure That All Units Are in Service	DLP-506			
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-509			
34	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-510			
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-511			
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 44; Otherwise, Go to Item 45	-			
41	Demount Tape(s) From Tape Unit(s)	DLP-504			

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

			DATE	TIME	SIGNATURE
42	If REX Was Inhibited in Item 10				
	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	-			
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	Notify NSC Provisioning of Expected Date and Time of Generic Retrofit	-			

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

			DATE	TIME	SIGNATURE
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 OP:OOSUNITS! and Ensure That Required Units Are in Service	DLP-512			
4	At 3B MCRT, Enter Message OP:OOS! and Ensure That Required 3B Computer Units Are in Service	DLP-506			
5	At 1B Processor MCC Terminal, Enter 108 To Obtain 108 Page	-			
6	Enter 801 (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:APPFILE NORM message after ODA tape has been written</i>				
7	Write Backup ODA Tape (1600-BPI Tape)	DLP-538			
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-513			
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-542			
12	Write Backup Trunk Out-of-Service List (TOSL) Tape	DLP-515			
13	Save Tapes Just Written Until New Data Base Is Finally Committed	-			
	(Continued on Page 2)				

Revised

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**PREPARE FOR UPDATE**

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

			DATE	TIME	SIGNATURE
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> 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-516			
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-516			
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-517			
	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**

			DATE	TIME	SIGNATURE
22 (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> (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-517			
	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 4E22 Informational BWM Concerning Incident Data Set Overwrites From SCANS. Overwrites Are To Be Applied After System Is Running on 4E22 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**

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**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-519			
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 810 on 108 Page and Verify There Is No Service-Degrading Condition. If There Is, Contact Next Higher Technical Support Group	-			
	<b>NOTE:</b> When TLP tape is loaded, expect following messages: REPT FILESYS WARNING OVERFLOW /t1p REPT AIMCHK - FILE SYSTEM OVERFLOW WARNING: (LOWER CASE) /t1p				
35	Load TLP From Tape Onto Disk	DLP-527			

**PREPARE FOR UPDATE**

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

		RESPONSIBILITY	
	<b>NOTE:</b> In Responsibility column, NCC is Network Control Center and OSWF is on-site workforce - office technician		
1	Place Check Mark Beside Item or Subitem When Completed, or If Not Required	NCC/OSWF	—
2	Before Starting, Review and Become Familiar With DLP-523	NCC/OSWF	—
3	At 1B MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	NCC	—
4	Enter Message OP:TSGSTAT;SUM:ALL! To Obtain Trunk Subgroup Status Summary; Save Printout in a File for Trunk Circuit Recovery Verification	NCC	—
5	Enter Message OP:00SUNITS! and Ensure That Required Units Are in Service	NCC	DLP-512
6	At 3B MCRT, Enter Message INH:DMQ;SRC REX! To Inhibit REX	NCC	—
7	Enter Message OP:00S! and Ensure That Required 3B Computer Units Are in Service	NCC	DLP-506
8	Verify Data Base To Ensure That Generic Is 4E<22>5x.yy Ra and Proper Office Is Listed (OP:APPLOAD UPD!)	NCC	DLP-520
9	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	NCC	DLP-510
	<b>NOTE:</b> If schedules that are entered by 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]!)	NCC	DLP-521
11	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFILE UPD!)	NCC	DLP-509
12	Enter Message COPY:LSNC TOSL! To Update TOSL in UPDATE File; Ensure REPT LSNC: LSNC MAPPING COMPLETE Message Is Received	NCC	—
13	Do NOT Proceed Until Instructed by NOC. Safe Point to Temporarily Stop This Procedure	NCC	—
14	Prepare 1B Processor MCC Terminal for Manual Recovery	NCC	DLP-522
15	Manually Update 1B Processor	NCC	DLP-523
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 4E21 Data Base	NCC	—
	(Continued on Page 2)		

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

17	<b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E21 OCCURRED.</b> At 1B MTC Terminal, Enter Message UPD:COMMIT;NORMFILE!	NCC	—
18	At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress <b>EA DISP</b> Key	NCC	—
19	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed	NCC	—
20	After Consulting With Support Organization, Select Option A or B; and Proceed as Directed		
	A. If Update Is To Be Discontinued, It is End of Procedure. Ensure System Is Operating Properly and Restore All Out-of-Service Equipment	NCC	—
	B. If Update Is To Be Continued, Proceed as Directed by Next Higher Technical Support Group	NCC	—
21	<b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> Perform Items 22 Through 26 To Restore 1B Processor Complex Units	NCC	—
22	At 1B MTC Terminal, Enter Message OP:MACLI,CLASS MTCE!	NCC	—
23	If 1B Processor Complex Unit(s) Is Listed in Printout, Go to Item 26; Otherwise, Perform Items 24 Through 26	NCC	—
24	At 1B MTC Terminal, Enter Message OP:00SUNITS!	NCC	—
	<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 Each Unit Listed	NCC	—
	<b>NOTE:</b> It is important to get 1B Processor units restored to service as soon as possible while the remainder of the retrofit procedure is being performed		
26	Periodically Repeat From Item 22 While Continuing To Perform Succeeding Steps in This NTP Until 1B Processor Complex Units Are Restored	NCC	—
	<i>CAUTION: If office contains a teleconferencing NSCX, overwrites will be required to be entered. When inputting the overwrites, calls to NSCX will be blocked. Therefore, overwrites must be entered during low traffic period</i>		
	<b>NOTE:</b> If Item 27 is performed and backout of NSCX overwrites is required, DLP-541 must be used		
27	If Office Contains an Operational Teleconferencing NSCX, Input Overwrites To Strip Home NPA From DDD Calls on Host 4E	NCC	DLP-540

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

28	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	NCC	DLP-525
29	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>	NCC	—
30	When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock	NCC	DLP-526
31	At 1B MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX	NCC	—
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 33. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Technical Support Group for Resolution	NCC	—
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)	NCC	—
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)	NCC	—
35	Run Audits 43, 44, 45, 66, and 72 (Items 36 Through 39)	NCC	—
36	At 1B MTC Terminal, Enter Message <b>AUD:NUM (43,44,45,66,72)!</b>	NCC	—
37	While Audits Are Running, Continue To Perform Succeeding Items	NCC	—
38	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	NCC	—
39	During Execution of Audits 43 and 66, Scan Output Messages Periodically for Abort Message	NCC	—
40	At 1B MTC Terminal, Restore Out-of-Service Units	NCC	DLP-528
41	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106	NCC	—
42	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Link Node	NCC	—
43	Enter 1107 in Command Mode To Obtain Display Page 1107	NCC	—

**PERFORM UPDATE (FOR AT&T OFFICES ONLY)**

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

44	Ensure One Direct Link Node Is Assigned <b>1WAY IN</b> and One Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes Must Have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If Four Direct Link Nodes Are Listed, <b>HDWR STATE</b> Must be <b>ACT</b> and <b>APPL STATE</b> Must Be <b>STBY</b> for Direct Link Nodes Not Assigned <b>1WAY IN</b> or <b>1WAY OUT</b> .	NCC	—
45	Enter <b>1108</b> in Command Mode To Obtain Display Page 1108	NCC	—
46	Ensure <b>LINK STATE</b> Is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> Is <b>ACT</b> for Each Equipped Signaling Link	NCC	—
47	At 1B MTC Terminal, Enter Message <b>OP:MSGRCDF,FS!</b> To Clear Recorded Message Area on Disk	NCC	—
48	At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, as Required	NCC	DLP-529
49	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	NCC	—
50	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	NCC	—
51	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	NCC	—
52	Notify Network Management Center To Begin Checkout of Network Management System	NCC	DLP-530
53	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	NCC	—
54	Compare Count of Ineffective Machine Attempts With Preupdate Level	NCC	—
55	At 1B MTC Terminal, Enter Message <b>INIT:PUXINIT!</b>	NCC	—
56	Request RNOC To Verify That Manually Placed Calls and System Placed Test Calls Complete Successfully	NCC/OSWF	—
57	Request RNOC To Enter Security Call Traps That Existed Prior to Update (if any)	NCC	—
58	At 1B MTC Terminal, Enter Message <b>ALW:MACLI,CLASS MTCE!</b> To Allow REX	NCC	—
59	At 3B MCRT, Enter Message <b>ALW:DMQ;SRC REX!</b> To Allow REX	NCC	—
60	At 1B Processor MCC Terminal, Enter <b>108</b> To Obtain System Status Page (108)	NCC	—
	(Continued on Page 5)		

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

61	If <b>801 - RESTRICT RC</b> Is Colored Black on White, Enter 801	NCC	—
62	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		
	1. Notify CMAC To Perform Update	NCC	—
	2. Wait Until Update Is Complete Before Continuing	NCC	—
	3. Notify IRAS To Update Office Data Base. Request IRAS To Notify TCC When Data Base Is Complete	NCC	—
	4. Do Not Write Any Backup Tapes Until IRAS Completes Update	OSWF	—
5. Notify Network Management Center To Complete Network Management System Checkout	NCC	DLP-532	
63	Load Library Program Packages From Tape Onto Disk, if Necessary	OSWF	DLP-531
64	At 1B MTC Terminal, Enter Message <b>AUD:NUM (43,44,45,66,72)!</b> ; Do Not Continue Until Audits Have Completed With 0 Errors	OSWF	—
	<b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour		
65	Write Backup Long-Term Storage (LTS) Tape	OSWF	DLP-513
66	Write Updated Traffic and Plant Measurement (TPM) Schedule Tape	OSWF	DLP-514
67	If Any 4E22 Overwrites Are To Be Installed, Install per Local Practice	NCC	—
68	Write Backup TOSL Tape (1600 BPI)	OSWF	DLP-515
69	Write Backup Library (LIB) Tape (1600 BPI)	OSWF	DLP-533
70	Write Backup Network Management (NWM) Tape (1600 BPI)	OSWF	DLP-534
71	Write Backup 1B Processor ODA Tapes (1600 BPI), if Required	OSWF	DLP-538
	(Continued on Page 6)		

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

72	Write Backup 1B Processor Generic Tapes (1600 BPI), if Required	OSWF	DLP-539
73	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	NCC	-
<i>WARNING: Item 74 will delete any reference to 4E21 generic in NORMAL and UPDATE files. In order to go back to 4E21 generic, a System Reinitialization (SR) will be required</i>			
74	Commit to 4E22 Generic	NCC	DLP-537

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

			DATE	TIME	SIGNATURE
1	<b>Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required</b>	-			
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:APLOAD UPD!</b> )	DLP-500			
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-534			
9	Mount New 1600-BPI ODA Tape on Idle Tape Unit	DLP-501			
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-502			
11	Load New ODA on Disk ( <b>LOAD:UPDATE:ODA "aaaabb",MT c!</b> )	DLP-535			
	<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-504			
14	At 3B MCRT, Enter Message <b>OP:OOS!</b> and Ensure That All Units Are in Service	-			

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

			DATE	TIME	SIGNATURE
15	Repeat From Item 9 Using Another ODA Tape	-			
16	If Only One Tape Unit Is Available, Demount ODA Tape After Tape Rewinds	DLP-504			
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-507			
19	Load New Network Management on Disk and Complete Data Base	DLP-508			
	<p><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</p> <p>2. After receiving <b>DATABASE COMPLETE - READY FOR ODA UPDATE</b> output message, loading process is complete</p>				
20	If Loading of Network Management 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-504			
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:APPFIL UPD!</b> )	DLP-509			
27	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-510			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
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-511			
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-504			
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	Notify NSC Provisioning of Expected Date and Time of ODA Update	-			

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

			DATE	TIME	SIGNATURE
1	<b>Enter Date, Time, and Signature or Place Check Mark Beside Item or Subitem When Completed, or If Not Required</b>	—			
2	Before Starting, Review and Become Familiar With DLP-523	—			
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:00SUNITS! and Ensure That Required Units Are in Service	DLP-512			
6	At 3B MCRT, Enter Message INH:DMQ;SRC REX! To Inhibit REX	—			
7	Enter Message OP:00S! and Ensure That Required 3B Computer Units Are in Service	DLP-506			
8	Verify Data Base To Ensure That Generic Is <b>4E&lt;22&gt;5x.yy Ra</b> and Proper Office Is Listed (OP:APPLOAD UPD!)	DLP-520			
9	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-510			
	<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-521			
11	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFILE UPD!)	DLP-509			
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-522			
14	Manually Update 1B Processor	DLP-523			
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 4E20 Data Base	—			
16	<b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E21 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-525			
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-526			

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

			DATE	TIME	SIGNATURE
29	Set Up MC 3, MC 4, and/or MC 8 Schedule(s). At 1B Terminal, Enter Message SCHED:TDASMC a;ADD:MSC bb! 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 INH:MACLI,CLASS MTCE;REX! To Inhibit REX	-			
31	Enter Message OP:SVCSTAT! 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 OP:TANTOTAN! 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 VER:NAILUP;ALL! 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, 45, 66, and 72 (Items 35 Through 38)	-			
35	At 1B MTC Terminal, Enter Message AUD:NUM (43,44,45,66,72)!	-			
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 Audits 43 and 66, Scan Output Messages Periodically for Abort Message	-			
39	At 1B MTC Terminal, Restore Out-of-Service Units	DLP-528			
40	If Office Is Arranged for CAMA, Check CAMA Operation	DLP-536			
	(Continued on Page 4)				

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

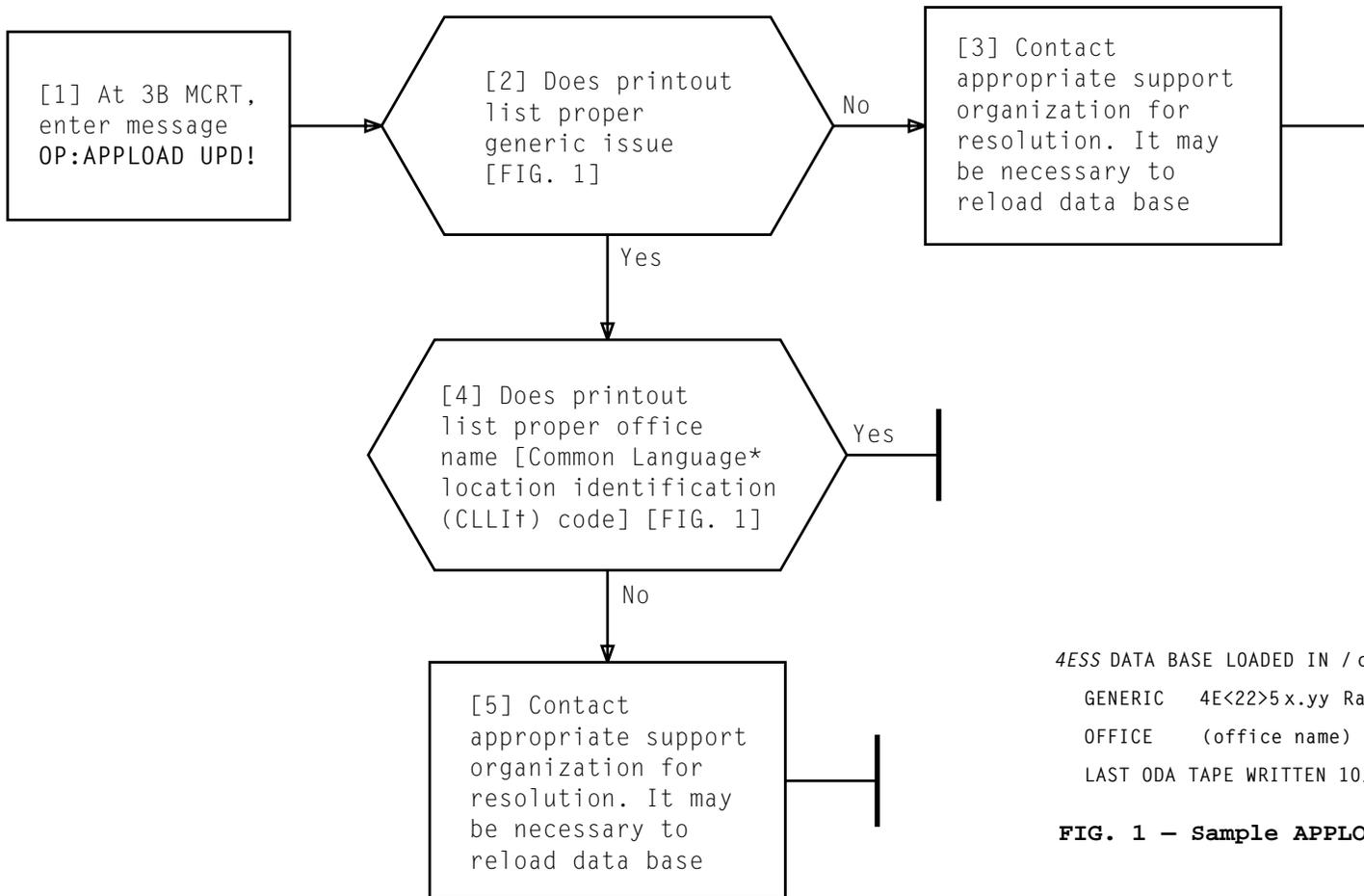
			DATE	TIME	SIGNATURE
41	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106	-			
42	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Link Node	-			
43	Enter 1107 in Command Mode To Obtain Display Page 1107	-			
44	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>	-			
45	Enter 1108 in Command Mode To Obtain Display Page 1108	-			
46	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	-			
47	At 1B MTC Terminal, Enter Message <b>OP:MSGRCDF,FS!</b> To Clear Recorded Message Area on Disk ( <b>NG</b> Is Proper Response - No Messages To Clear on Disk)	-			
48	At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, as Required	DLP-529			
49	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	-			
50	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	-			
51	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	-			
52	Notify Network Management Center To Begin Checkout of Network Management System	DLP-530			
53	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	-			
54	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
55	If Office Provides CAMA Service, Monitor CAMA Call Activity; Compare With Expected Level	-			
56	Determine That Manually Placed Calls and System-Placed Test Calls Complete Successfully	-			
57	At 1B MTC Terminal, Enter Message INIT:PUXINIT!	-			
58	If Security Call Traps Existed Prior to Update, Request Network Management To Enter Security Call Traps per Local Practice	-			
59	At 1B MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX	-			
60	At 3B MCRT, Enter Message ALW:DMQ;SRC REX! To Allow REX	-			
61	At 1B Processor MCC Terminal, Enter 108 To Obtain System Status Page (108)	-			
62	If <b>801 - RESTRICT RC</b> Is Colored Black on White, Enter 801	-			
63	Reenter Recent Change Data				
	A. If Reentering Recent Change Data at Office, Reenter per Local Practice	-			
	B. Request MAC To Enter New Recent Change Data, as Required, Into System	-			
	C. 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 Network Management Center To Complete Network Management System Checkout	DLP-532			
64	If Office Is CAMA Equipped, Install Any Special CAMA Data per Local Practice, as Required	-			
65	Load Library Package(s) From Tape onto Disk	DLP-531			
	(Continued on Page 6)				

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

			DATE	TIME	SIGNATURE
66	At 1B MTC Terminal, Enter Message AUD:NUM (43,44,45,66,72)!; Do Not Continue Until Audits Have Completed With 0 Errors	-			
	<b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour				
67	Write Backup Long-Term Storage (LTS) Tape	DLP-513			
68	Write Updated Traffic and Plant Measurement (TPM) Schedule Tape	DLP-514			
69	If Any 4E22 Overwrites Are To Be Installed, Install per Local Practice	-			
70	Write Backup TOSL Tape (1600 BPI)	DLP-515			
71	Write Backup Library (LIB) Tape (1600 BPI)	DLP-533			
72	Write Backup Network Management (NWM) Tape (1600 BPI)	DLP-534			
73	Write Backup 1B ODA Tapes (1600 BPI), if Required	DLP-538			
74	Write Backup 1B Generic Tapes (1600 BPI), if Required	DLP-539			
75	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	-			
	<i>WARNING: Item 76 will delete any reference to 4E21 generic in NORMAL and UPDATE files. In order to go back to 4E21 generic, a System Reinitialization (SR) will be required</i>				
76	Commit to 4E22 Generic	DLP-537			



```

4ESS DATA BASE LOADED IN / dev/1afile0 IS:
  GENERIC  4E<22>5 x.yy Ra
  OFFICE   (office name)
  LAST ODA TAPE WRITTEN 10/25/96 AT 19:51
  
```

**FIG. 1 — Sample APPLOAD Printout**

\* Registered trademark of Bell Communications Research, Inc.

† Trademark of Bell Communications Research, Inc.

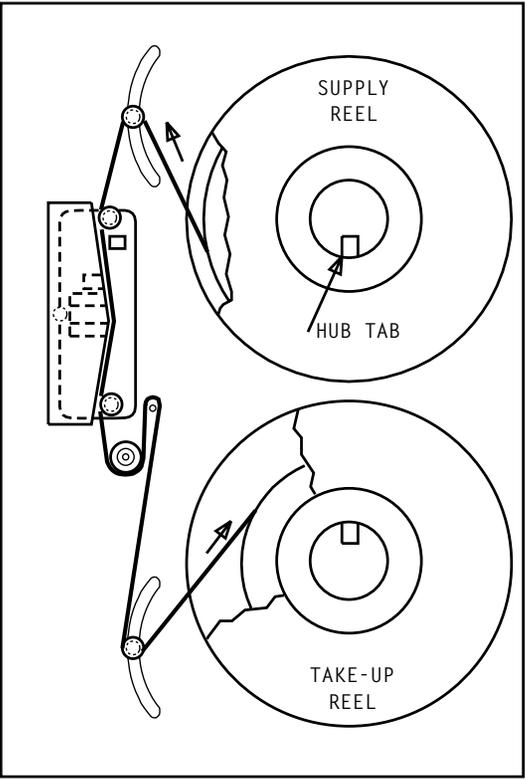
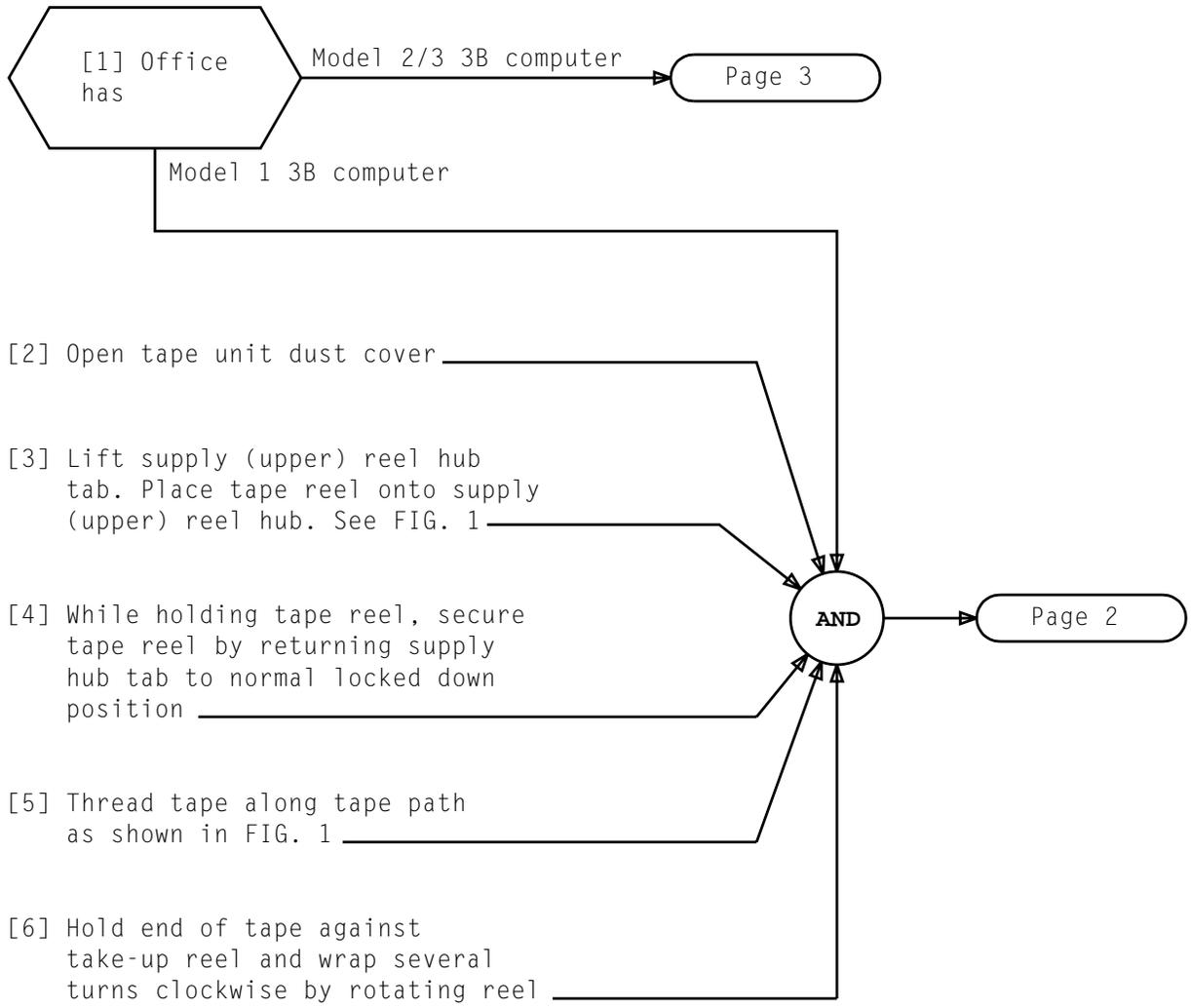
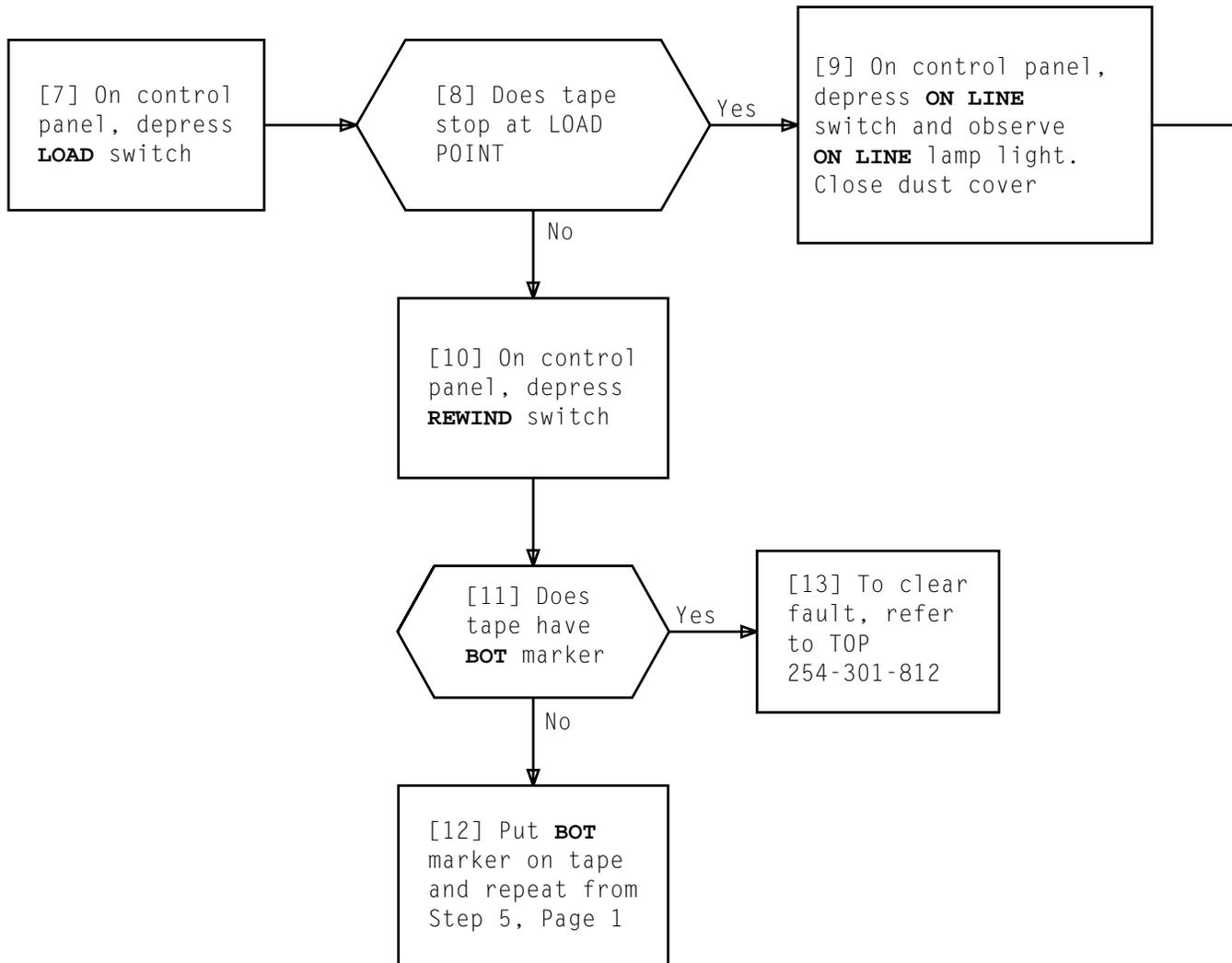


FIG. 1

**MOUNT TAPE ON 3B TAPE UNIT**

Issue 1	DEC 1996
234-160-022	DLP
PAGE 1 of 3	<b>501</b>



**MOUNT TAPE ON 3B TAPE UNIT**

Issue 1	DEC 1996
234-160-022	DLP
PAGE 2 of 3	<b>501</b>

[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

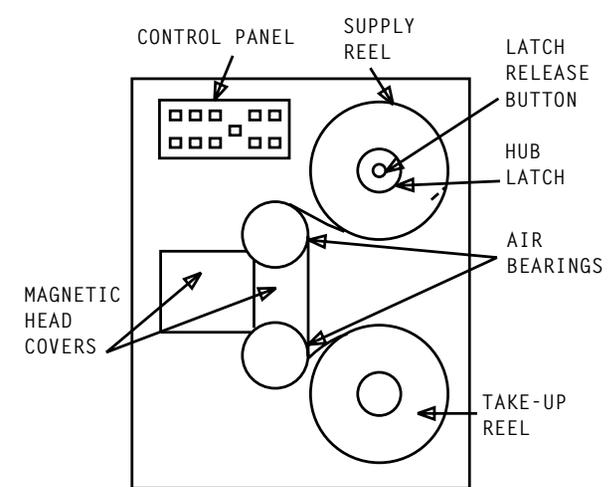
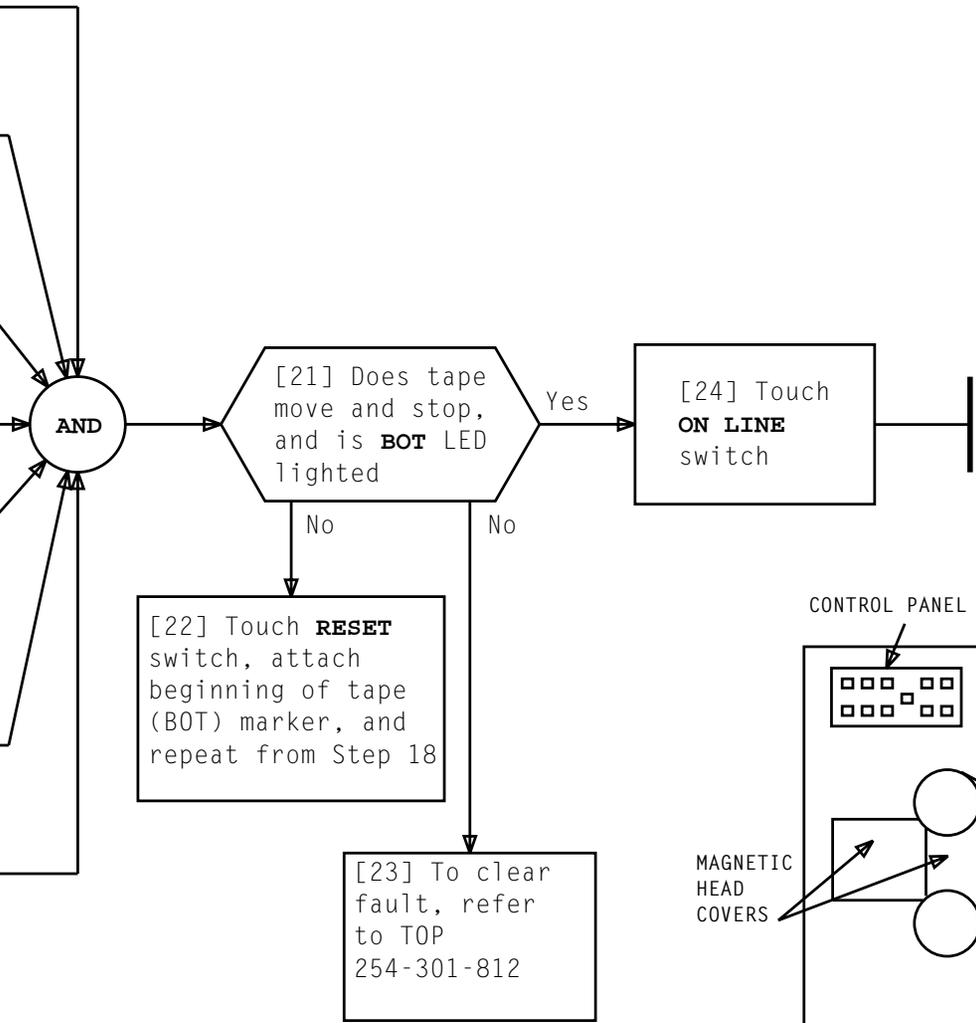
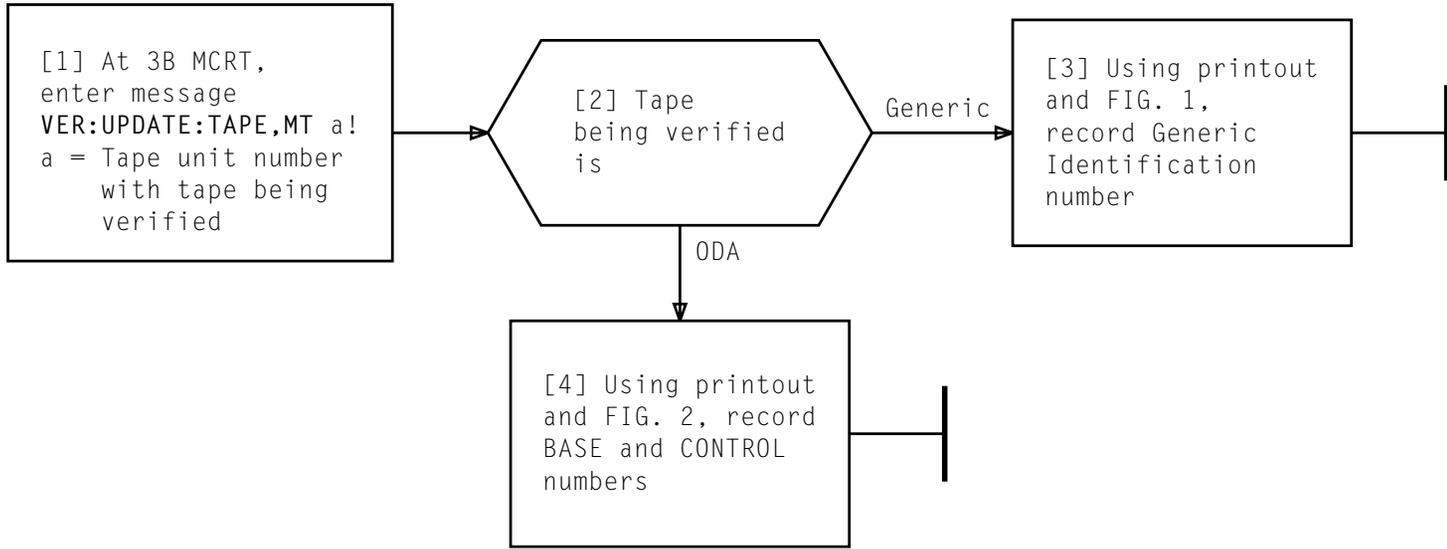


FIG. 2

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TAPE TYPE: GEN  
 GENERIC 4E<22>5A.01 R1 ← Record This Value  
 MOST RECENT OFL GENERATION: YR 96,MON 10,DAY 04 AT 11:28  
 THIS TAPE WRITTEN: YR 96,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<G22>.4R  
 MOST RECENT OFL GENERATION: YR 96,MON 10,DAY 05 AT 16:23  
 THIS TAPE WRITTEN: YR 96,MON 11,DAY 09 AT 08:23  
 FS IDS: 0000000000001000,TAPE IDS: 0000000011110100  
 PARTL UPD FLG: 0,PHASE REQD: 0001000

FIG. 2 – Sample ODA Tape Header Printout

[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

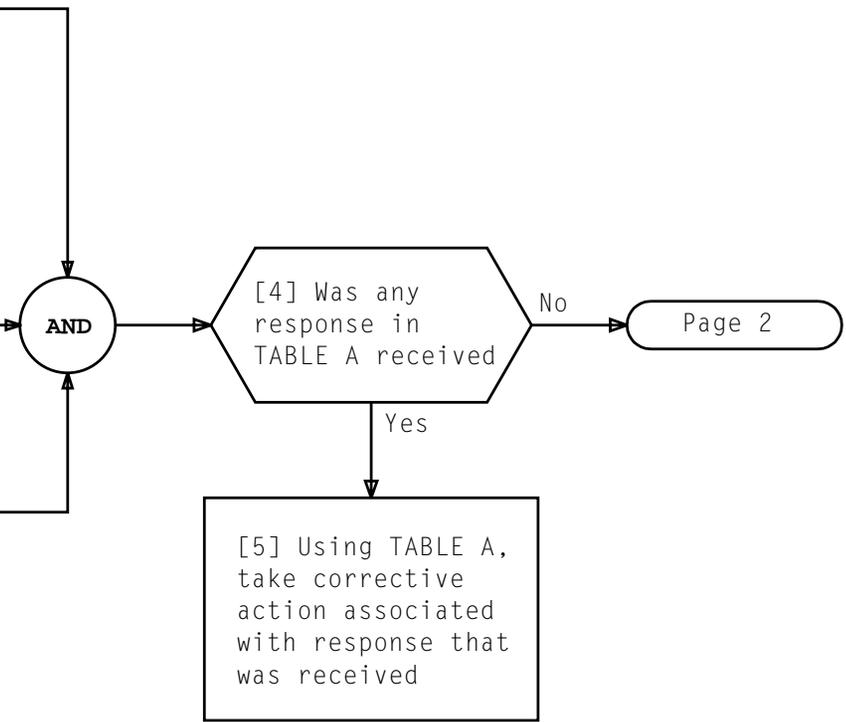
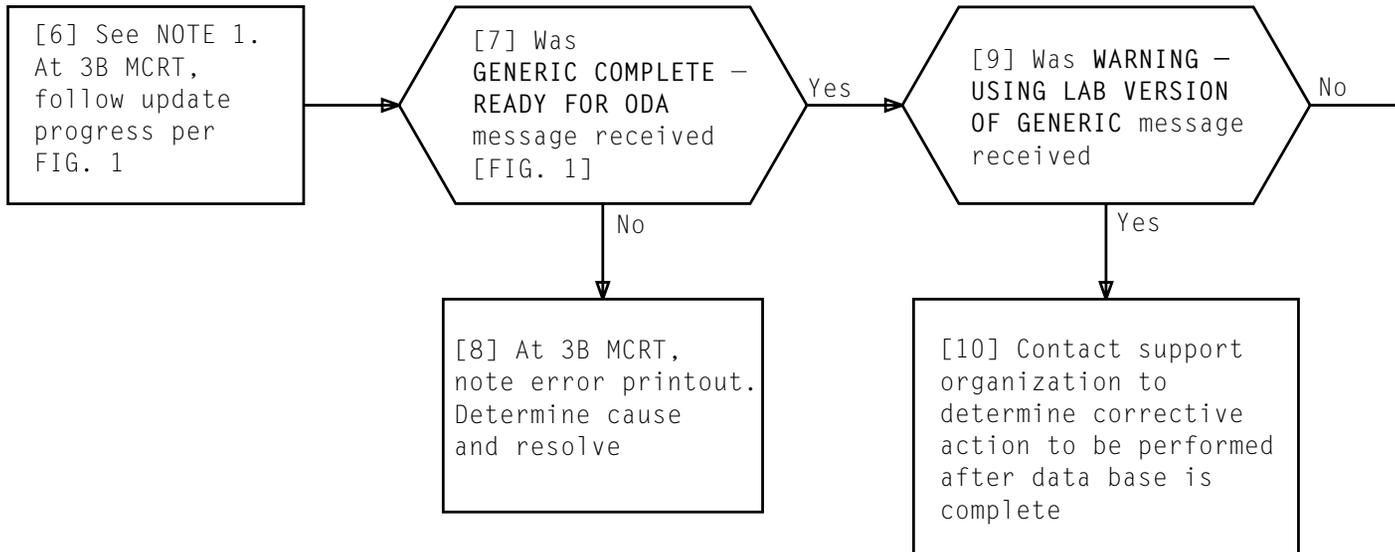


TABLE A	
RESPONSE	CORRECTIVE ACTION
INVALID TAPE ID - ENTER AGAIN	Repeat from Step 2 with correct Generic Identification number
TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN	Correct tape drive problem and repeat from Step 2

**LOAD NEW GENERIC ON DISK**



GENERIC RETROFIT

TAPE HEADER

·  
·  
·

TAPE FILE 10 LOADED TO FS

TAPE FILE 20 LOADED TO FS

TAPE FILE 30 LOADED TO FS

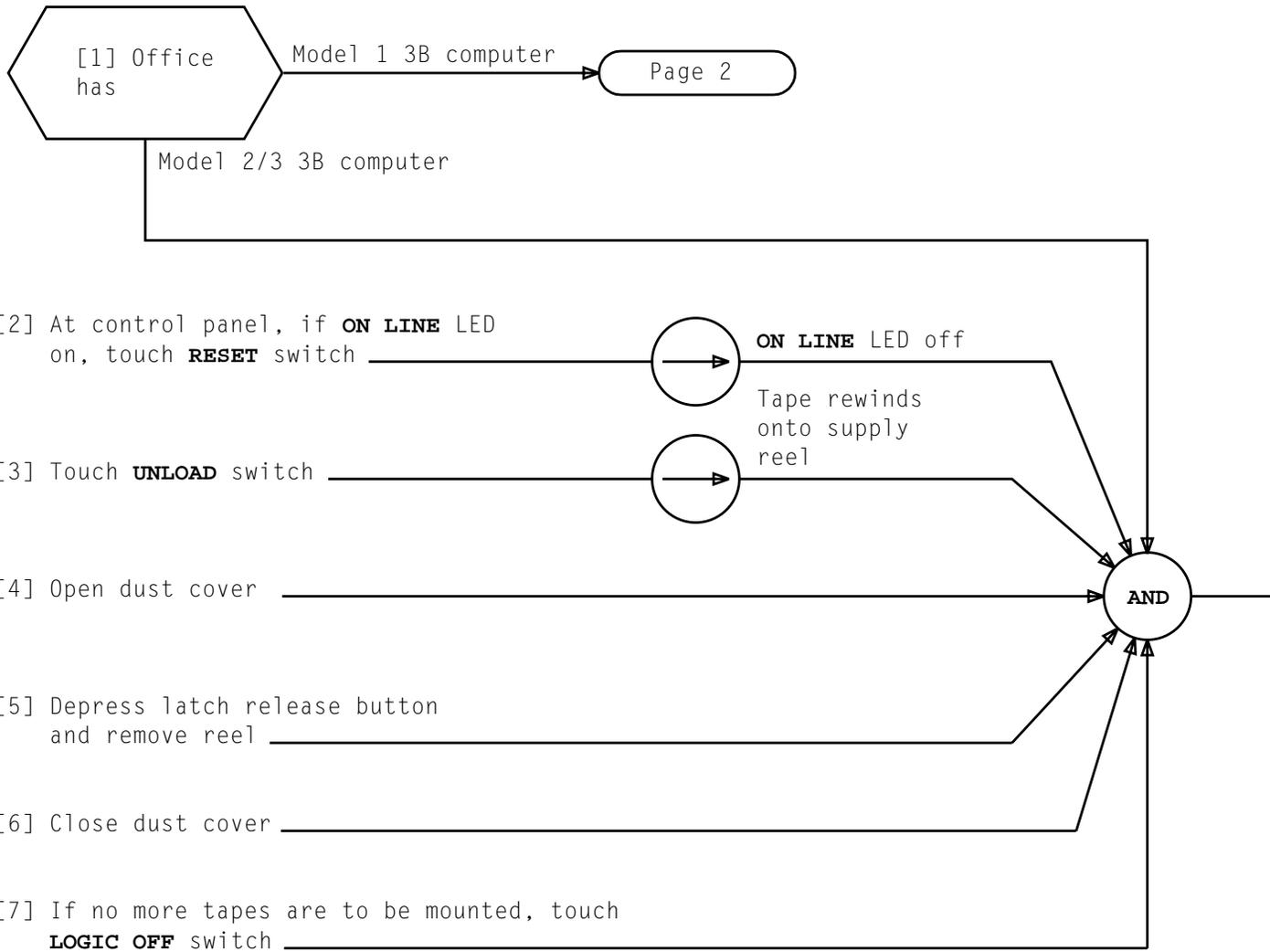
·  
·  
·

TAPE FILE n LOADED TO FS

GENERIC COMPLETE - READY FOR ODA

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

NOTE 1 WARNING - USING LAB VERSION OF GENERIC message may be received after tape header information	
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**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

Tape rewinds  
to end of tape  
and stops

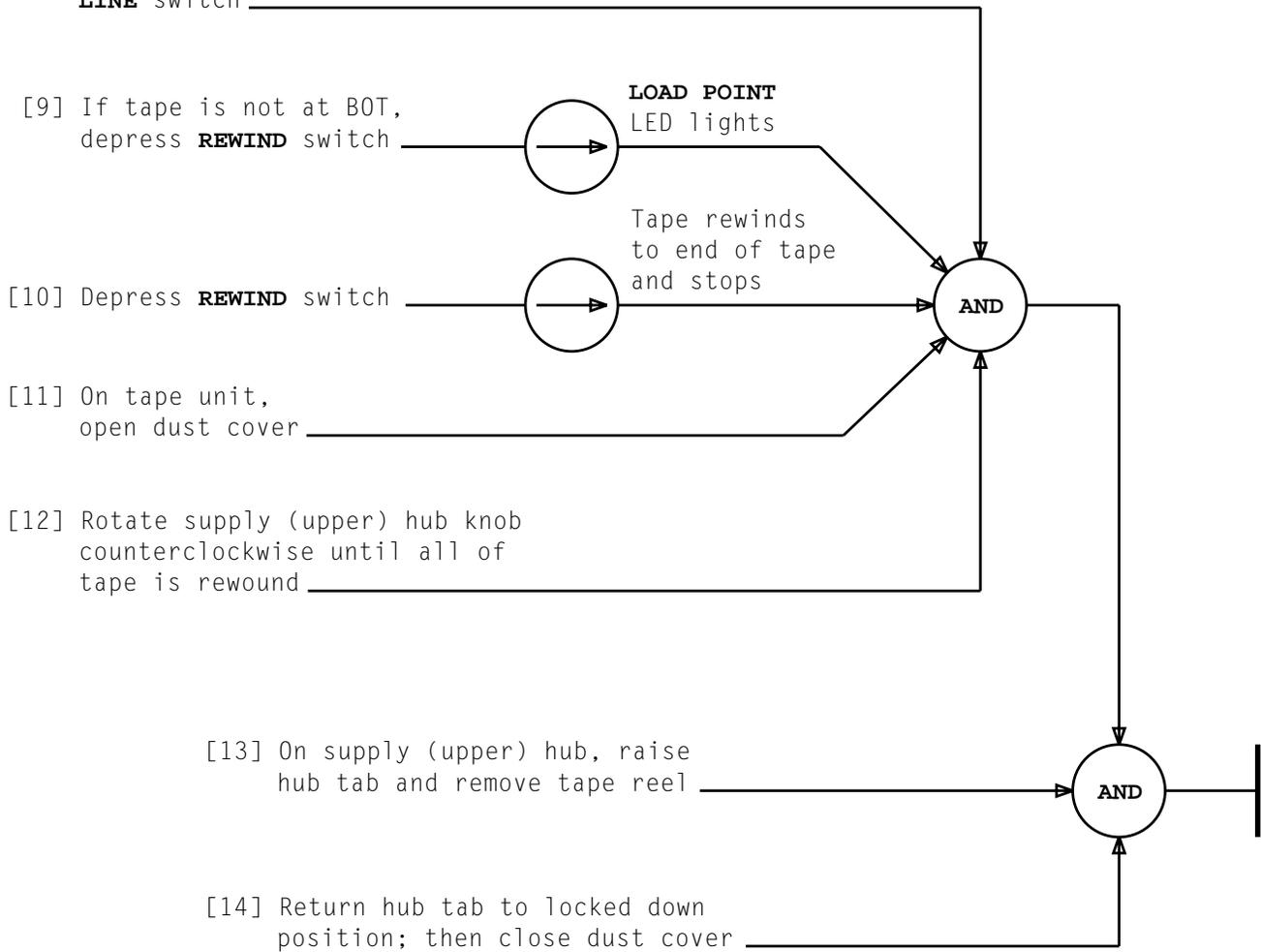
[10] Depress **REWIND** switch

[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

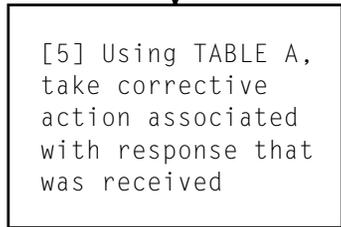
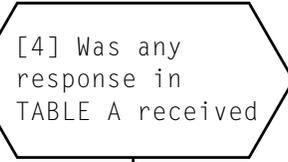
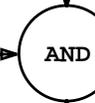
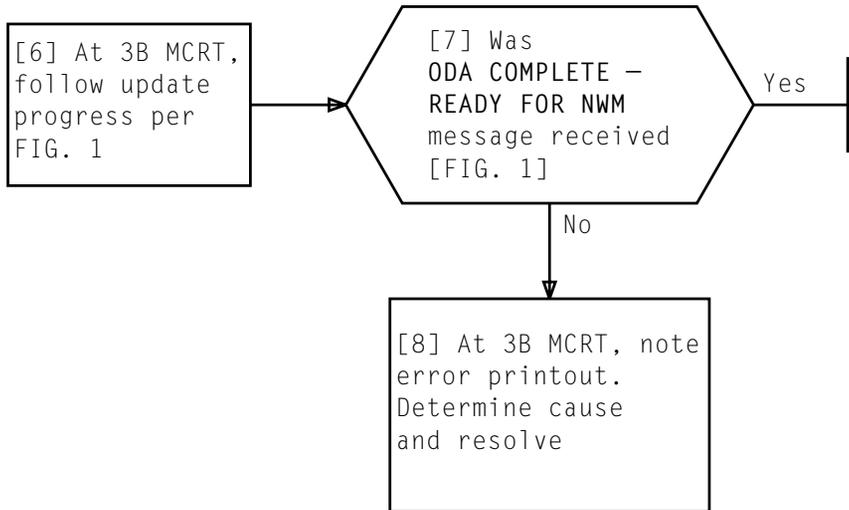


TABLE A	
RESPONSE	CORRECTIVE ACTION
INVALID TAPE ID - ENTER AGAIN	Repeat from Step 2 with correct BASE and CONTROL numbers
TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN	Correct tape drive problem and repeat from Step 2
WRONG GENERIC - CHANGE TAPE AND ENTER AGAIN	Demount wrong ODA tape. Obtain correct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

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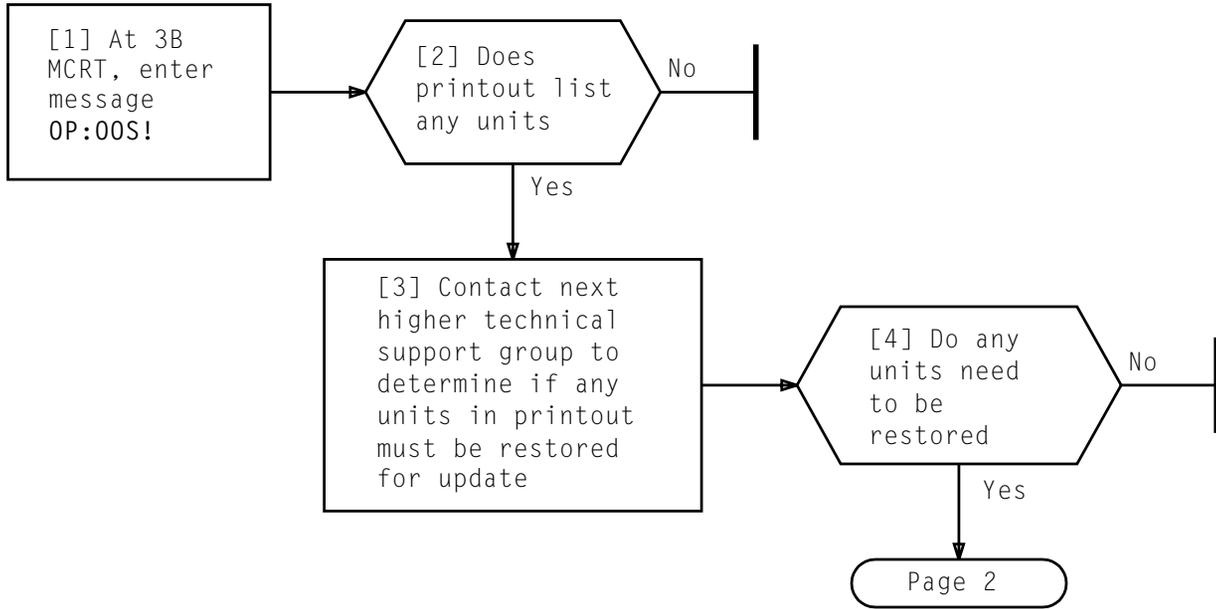
```

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**

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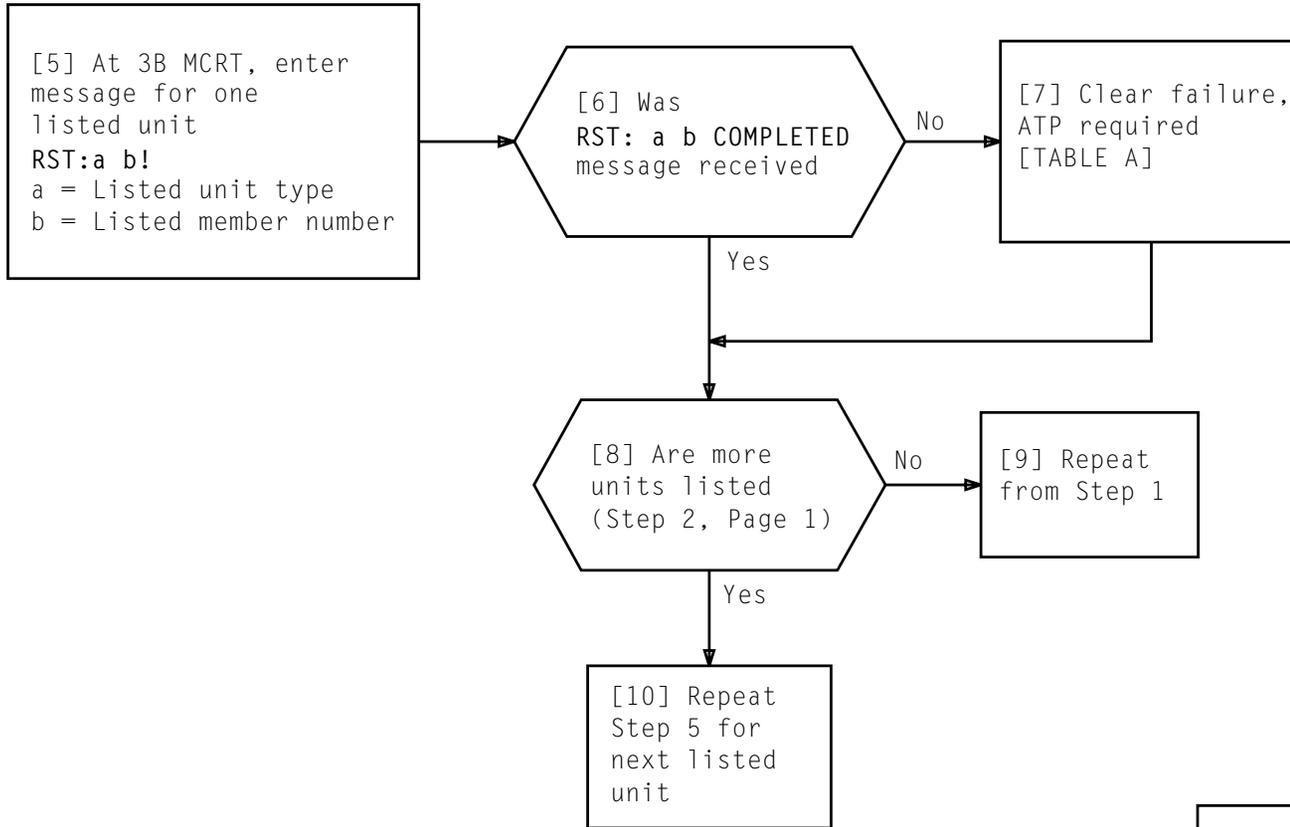
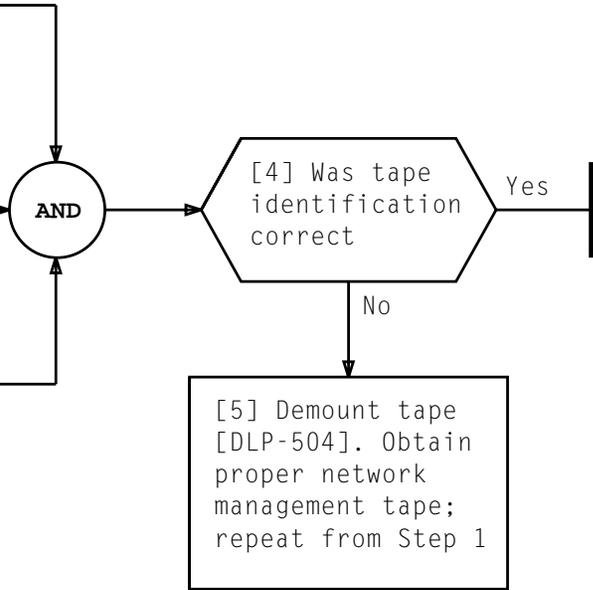


TABLE A	
UNIT TYPE	TROUBLE-CLEARING VOLUME
3B Computer Model 1	254-301-812 254-301-813
3B Computer Model 2/3	254-302-812

[1] Mount new network management tape on available 3B computer tape unit [DLP-501]

[2] At 3B MCRT, enter message  
**VER:UPDATE:TAPE,MT a!**  
 a = Tape unit number with tape being verified

[3] Using printout and FIG. 1, verify that TAPE TYPE: is NWM and ORIGINAL GENERIC is 4E<22>R1



```

TAPE TYPE: NWM
ORIGINAL GENERIC 4E<22>R1
MOST RECENT OFL GENERATION: YR 96,MON 10,DAY 06 AT 08:30
THIS TAPE WRITTEN: YR 96,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

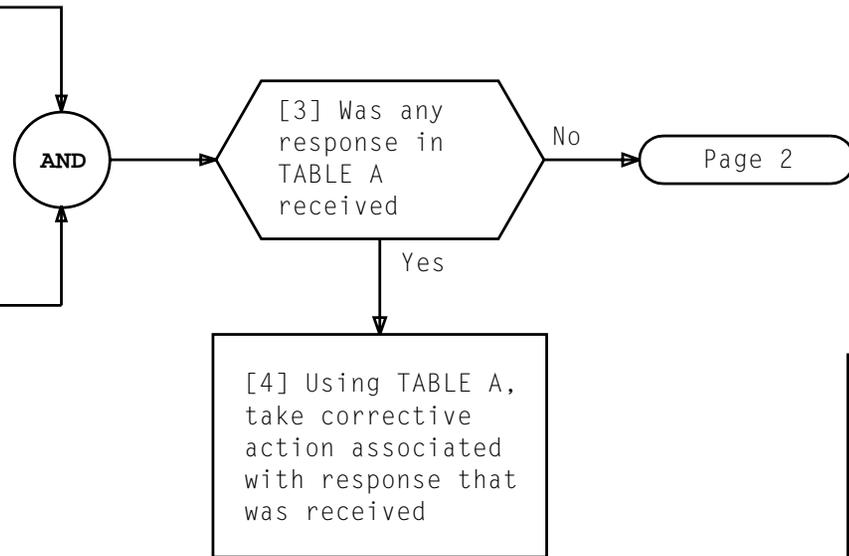
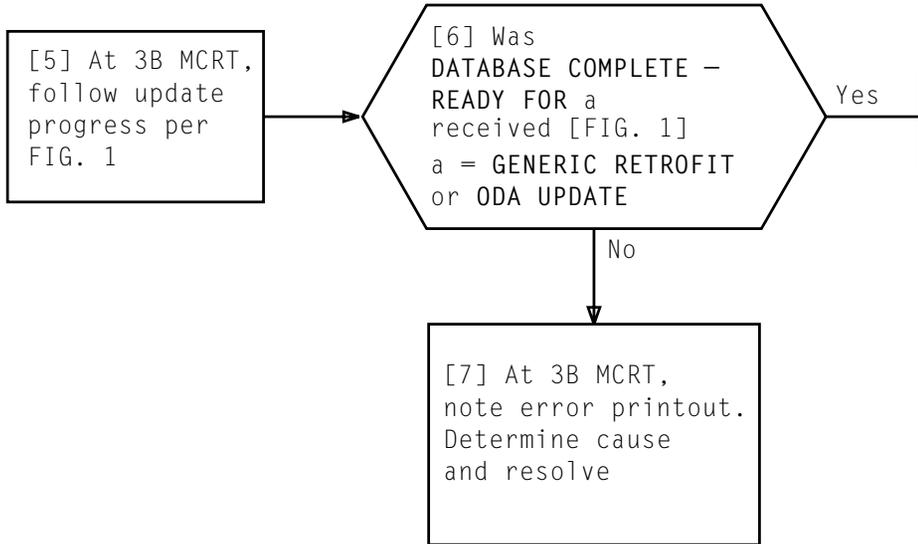


TABLE A	
RESPONSE	CORRECTIVE ACTION
TAPE DRIVE NOT READY – CORRECT AND ENTER AGAIN	Correct tape drive problem and repeat from Step 2
WRONG GENERIC – CHANGE TAPE AND ENTER AGAIN	Demount wrong network management tape. Obtain correct tape and mount on tape drive. Repeat from Step 2
INVALID COMMAND - ENTER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

NOTES

- When network management is loaded satisfactorily, system will complete building data base
- 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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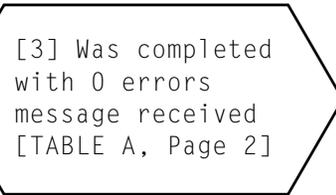
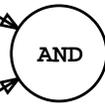
```

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**

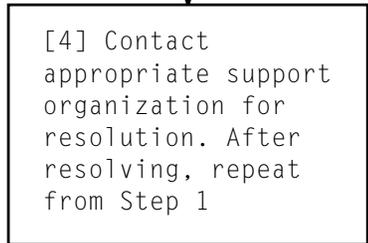
[1] At 3B MCRT, enter message  
VER:APPFILE UPD!

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



Yes

No



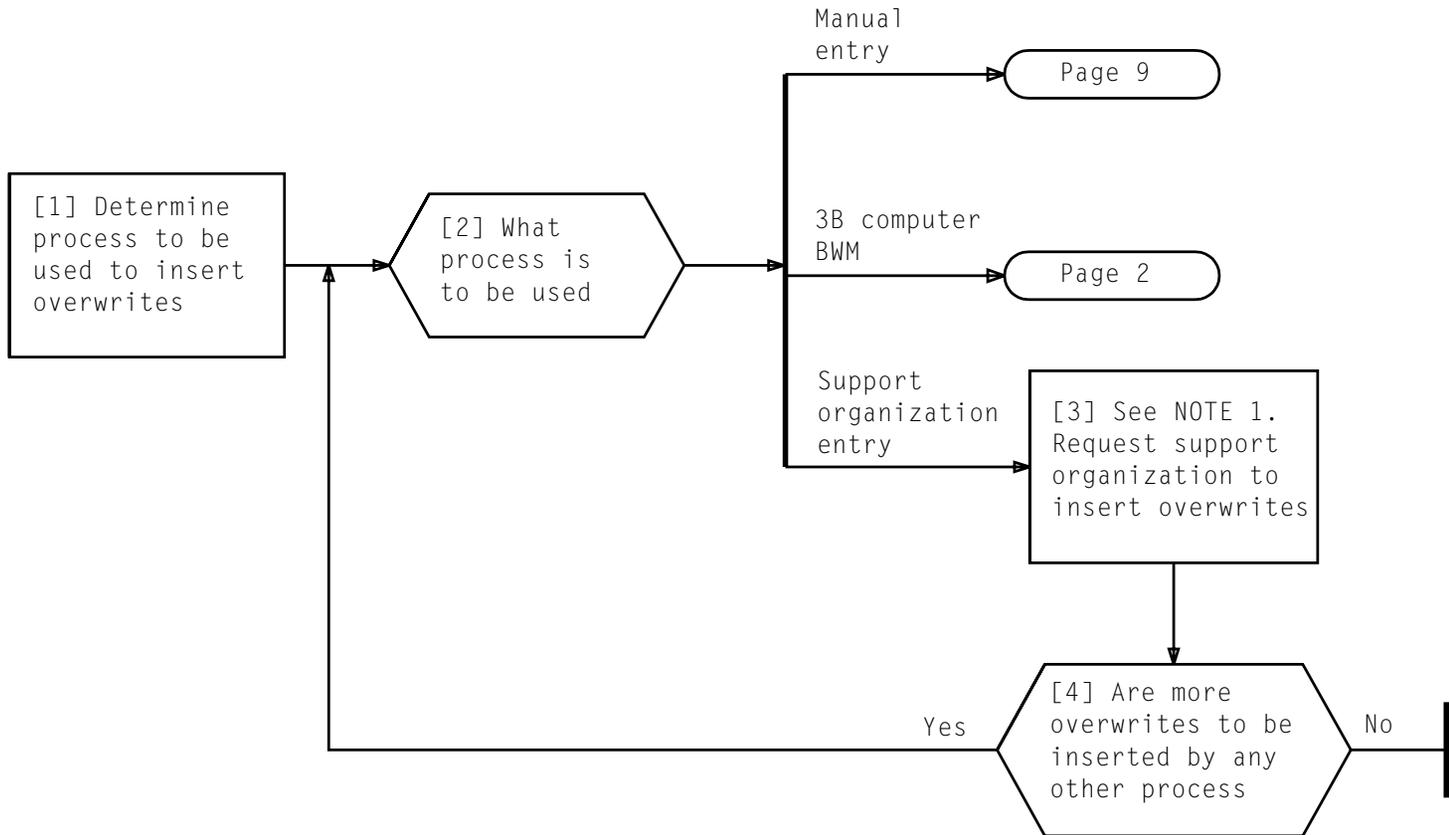
NOTE 1	
It takes approximately 35 minutes for verify to complete	
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**VERIFY 1AFILE HASHED AREAS**

TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	VER:APPFILE STARTED, /dev/lafileX (X = 0 or 1) VER:APPFILE /dev/lafileX MERGE AREA, MSG IP, 0 ERRORS DETECTED VER:APPFILE /dev/lafileX ID 1, MSG IP, 0 ERRORS DETECTED (Generic Area) VER:APPFILE /dev/lafileX ID 2, MSG IP, 0 ERRORS DETECTED (Library Area) VER:APPFILE /dev/lafileX ID 3, MSG IP, 0 ERRORS DETECTED (ODA Area) VER:APPFILE /dev/lafileX ID 7, MSG IP, 0 ERRORS DETECTED (Network Management Area) VER:APPFILE /dev/lafileX ID 11, MSG IP, 0 ERRORS DETECTED (RC Rollback Area) VER:APPFILE /dev/lafileX ID 12, MSG IP, 0 ERRORS DETECTED (Traffic and Plant Management Area) VER:APPFILE /dev/lafileX ID 17, MSG IP, 0 ERRORS DETECTED (Paged Program Area) VER:APPFILE /dev/lafileX ID 20, MSG IP, 0 ERRORS DETECTED (ODA Translations and Parameters in File Segment 1 With TWRP) VER:APPFILE /dev/lafileX ID 21, MSG IP, 0 ERRORS DETECTED (ODA Translations and Parameters in File Segment 2 With TWRP) VER:APPFILE /dev/lafileX COMPLETED, 0 ERRORS DETECTED

**VERIFY 1AFILE HASHED AREAS**

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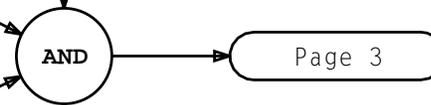
NOTE 1	
Overwrites from support organization must be in form of TABLE E or TABLE F, Page 9	
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[5] At 3B MCRT, press **NORM DISP (PF2)** key  
and enter **1960** in command mode to obtain  
display page 1960

[6] Enter **9000**, AAxx-xxxx in command  
mode to select BWM  
AAxx-xxxx = BWM number to be  
installed

[7] At 3B MCRT, enter **9260,SCANS**  
in command mode to obtain printout  
of SCANS file

[8] Using printout, determine if special instructions  
are required for this BWM. Save printout for later  
use if special procedures required after BWM  
is applied



**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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[9] If back out is necessary during this procedure, contact next higher technical support group IMMEDIATELY

[10] At 3B MCRT, enter 9010 in command mode to verify BWM

[11] Wait for COMPLETED message to be received in **RESPONSE** field

AND

[12] Was UPD VFY COMPLETED message displayed in **RESPONSE** field

Yes

Page 4

No

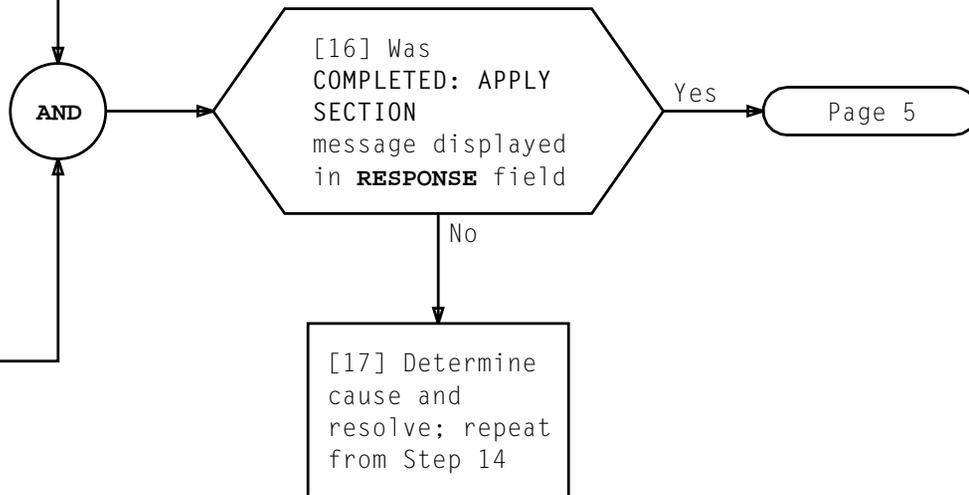
[13] Determine cause and resolve; repeat from Step 9

INSERT CRITICAL OVERWRITES INTO UPDATE FILE

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[14] At 3B MCRT, enter 9310 in command mode to execute APPLY section

[15] Wait for COMPLETED message to be received in **RESPONSE** field



INSERT CRITICAL OVERWRITES INTO UPDATE FILE

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[18] At 3B MCRT, enter 9320 in command mode to execute SOAK section

[19] Wait for printout per FIG. 1, Page 6 to be received before continuing

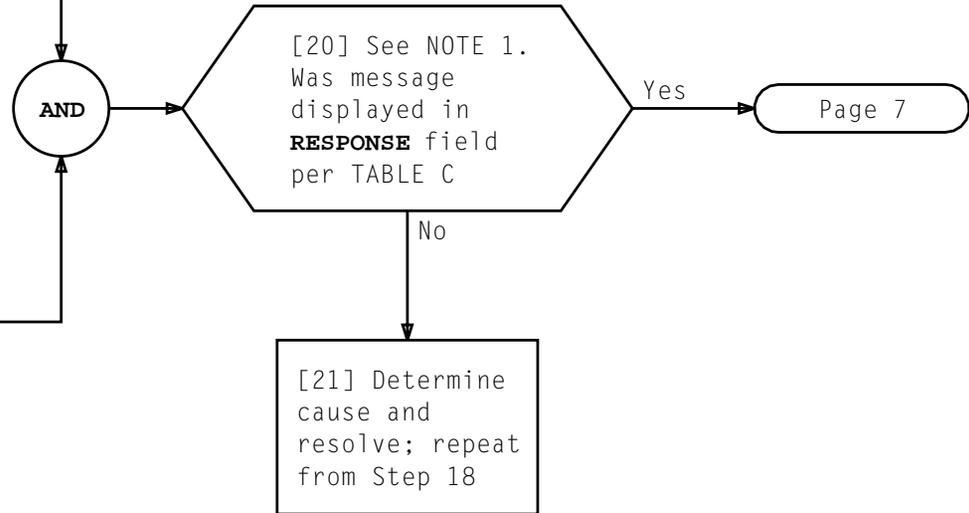


TABLE C	
MESSAGE NUMBER	OUTPUT MESSAGE
1	SOAK PERIOD COMPLETED: SOAK SECTION

NOTE 1	
The END field under CURRENT SOAK TIMER section (FIG. 1, Page 6) indicates the time response should be received	
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INSERT CRITICAL OVERWRITES INTO UPDATE FILE

```

-----UPD PRINT SOAK TIMER IN PROGRESS-----
BWM NAME = AAaxx-xxxx          REMAINING SOAK PERIOD = (HH:MM)

      CURRENT SOAK TIMER
START      (DD MM dd hh:mm:ss YY)
END        (DD MM dd hh:mm:ss YY)
DURATION   (HH:MM)

      PREVIOUS SOAK TIMER
START      (DD MM dd hh:mm:ss YY)
END        (DD MM dd hh:mm:ss YY)
DURATION   (HH:MM)
-----END OF BWM SOAK TIMER INFORMATION-----
UPD PRINT SOAK TIMER COMPLETED

```

**FIG. 1 – System Update Soak Printout**

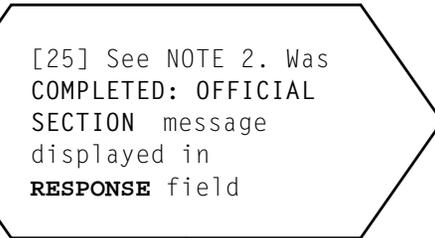
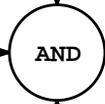
**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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[22] Obtain printout saved in Step 7, Page 2 and determine if special instructions are required to be performed before executing OFC section

[23] At 3B MCRT, enter 9330 in command mode to execute OFC section

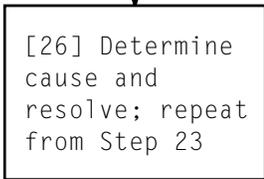
[24] Wait for COMPLETED message to be received in **RESPONSE** field



Yes



No



NOTE 2	
Time to finish OFC section is dependent on BWM size	
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INSERT CRITICAL OVERWRITES INTO UPDATE FILE

[27] At 3B MCRT,  
 enter message  
 LOAD:GULP:GENERIC "a"!  
 a = Full pathname  
 specified in  
 SCANS file

[28] Using TABLE D,  
 and printout, follow  
 progress for  
 associated input  
 message

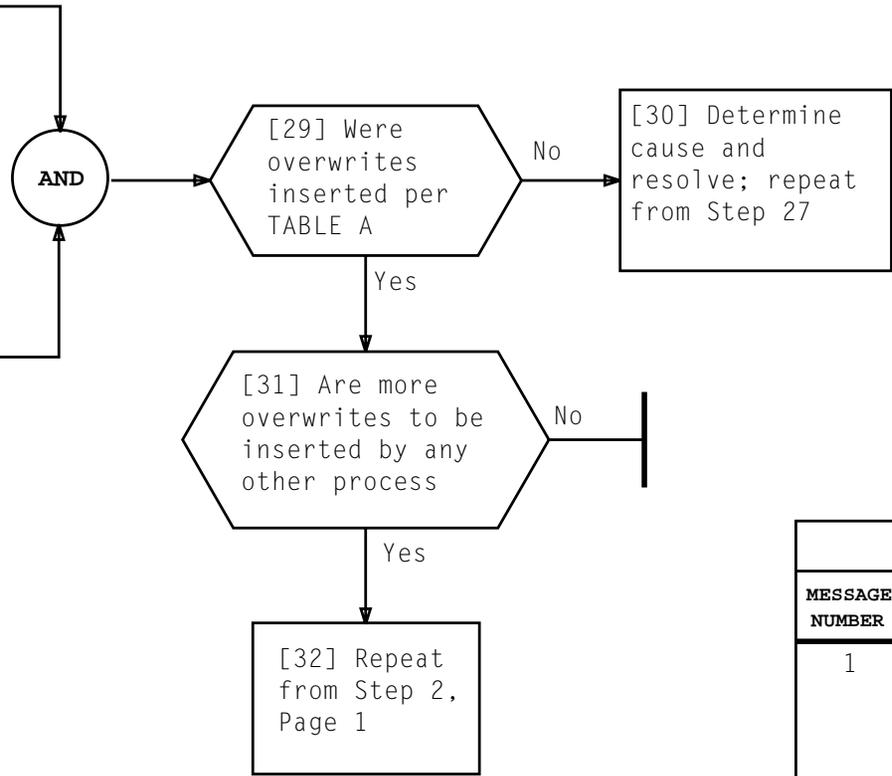
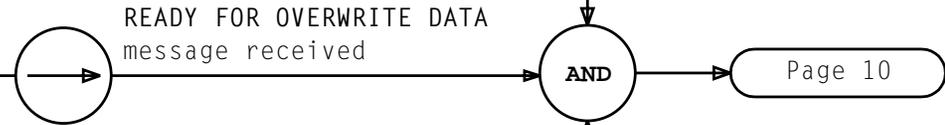


TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGE
1	BUILDING OW BUFFER - OW BLOCK 1
	BUILDING OW BUFFER - OW BLOCK 2
	.
	.
	.
	DATABASE UPDATED WITH OVERWRITES

**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

[33] Collect and list overwrite(s) to be inserted into 4E22 generic or ODA loaded in update file

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



[35] At 3B MCRT, insert overwrite(s) into buffer area using input message in TABLE E (main memory overwrite) or TABLE F (FS only overwrite) [NOTE 4]

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

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

NOTES

3. Overwrite process will time out after 20 minutes of inactivity
4. 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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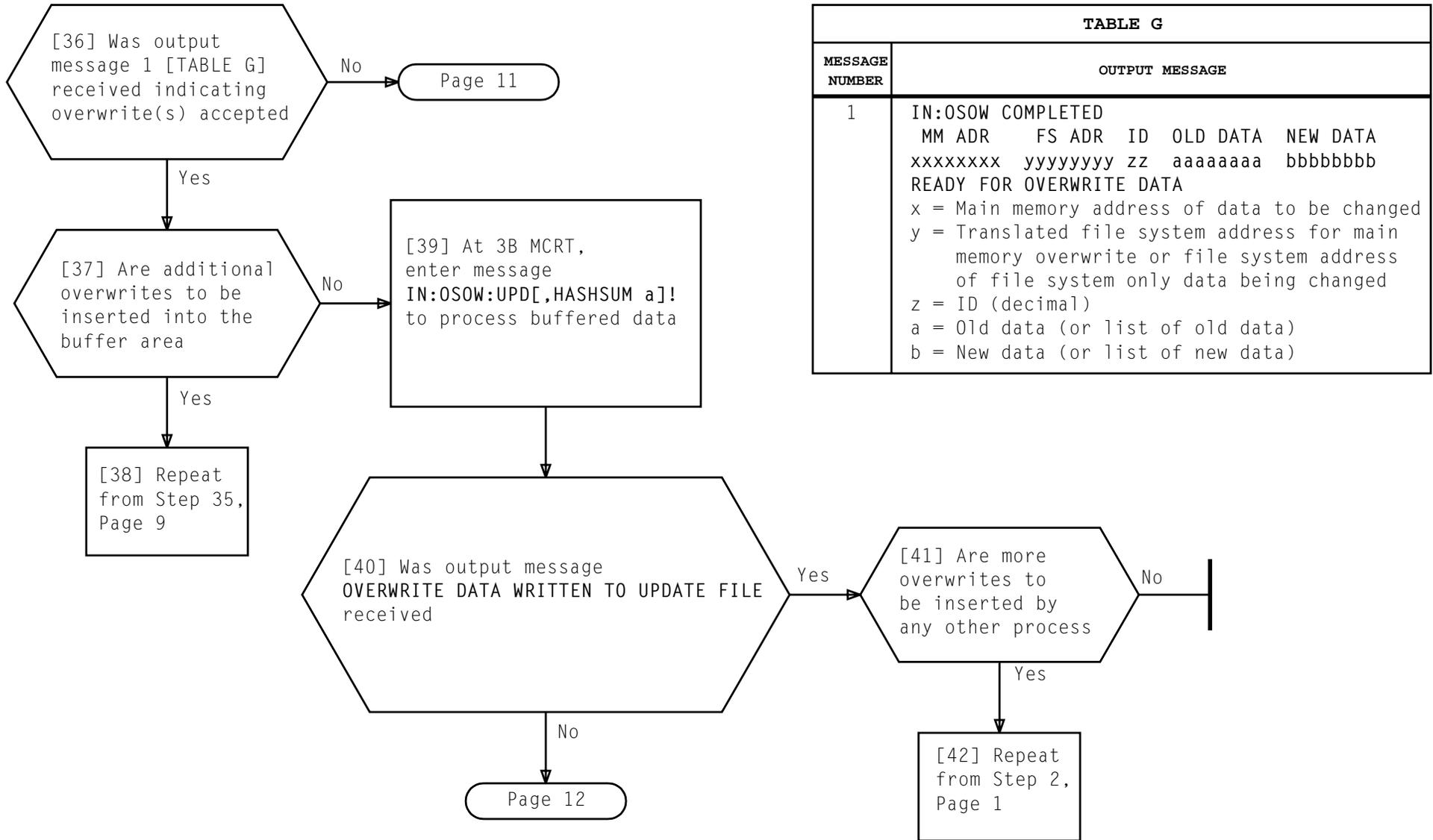
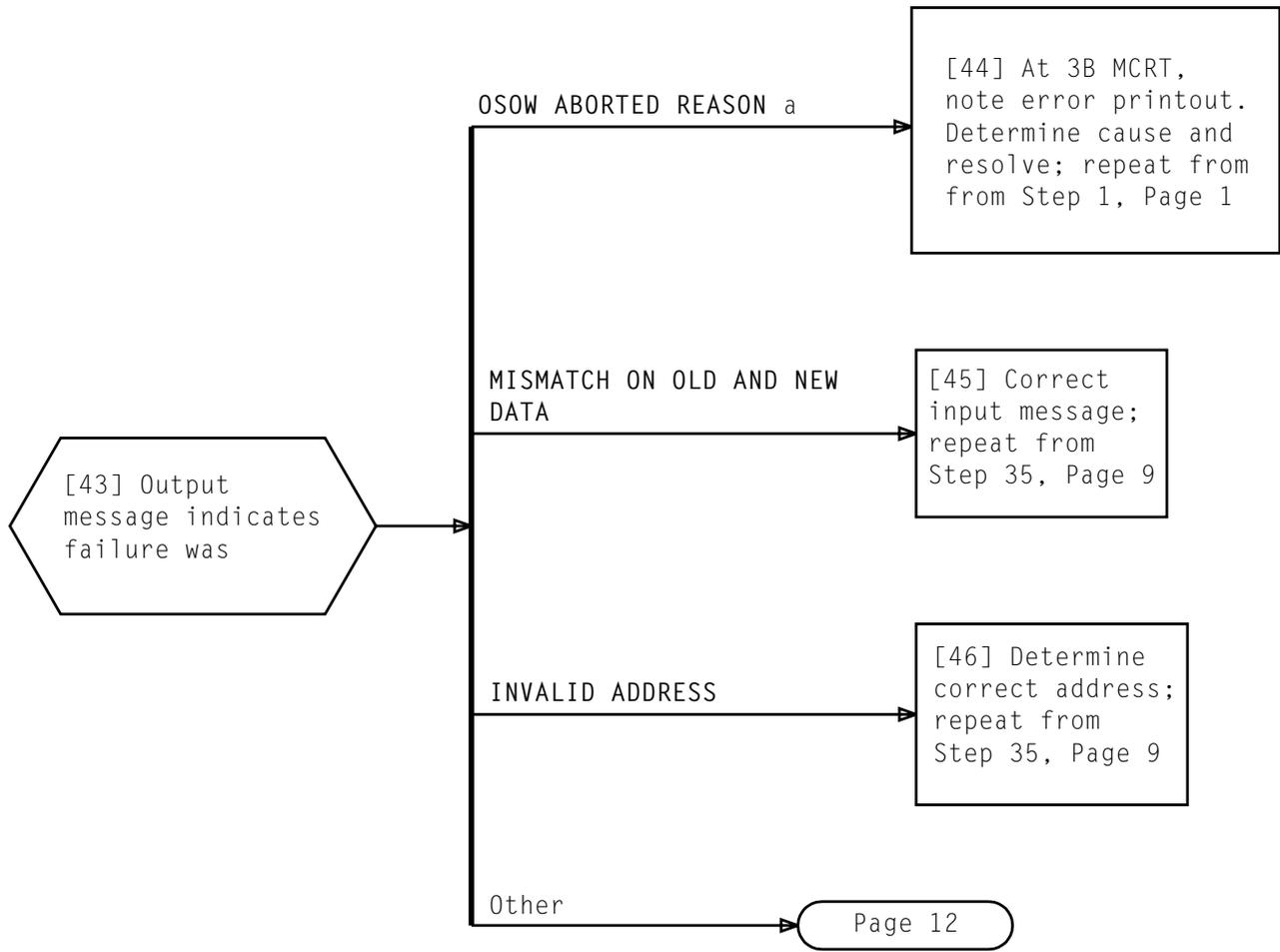
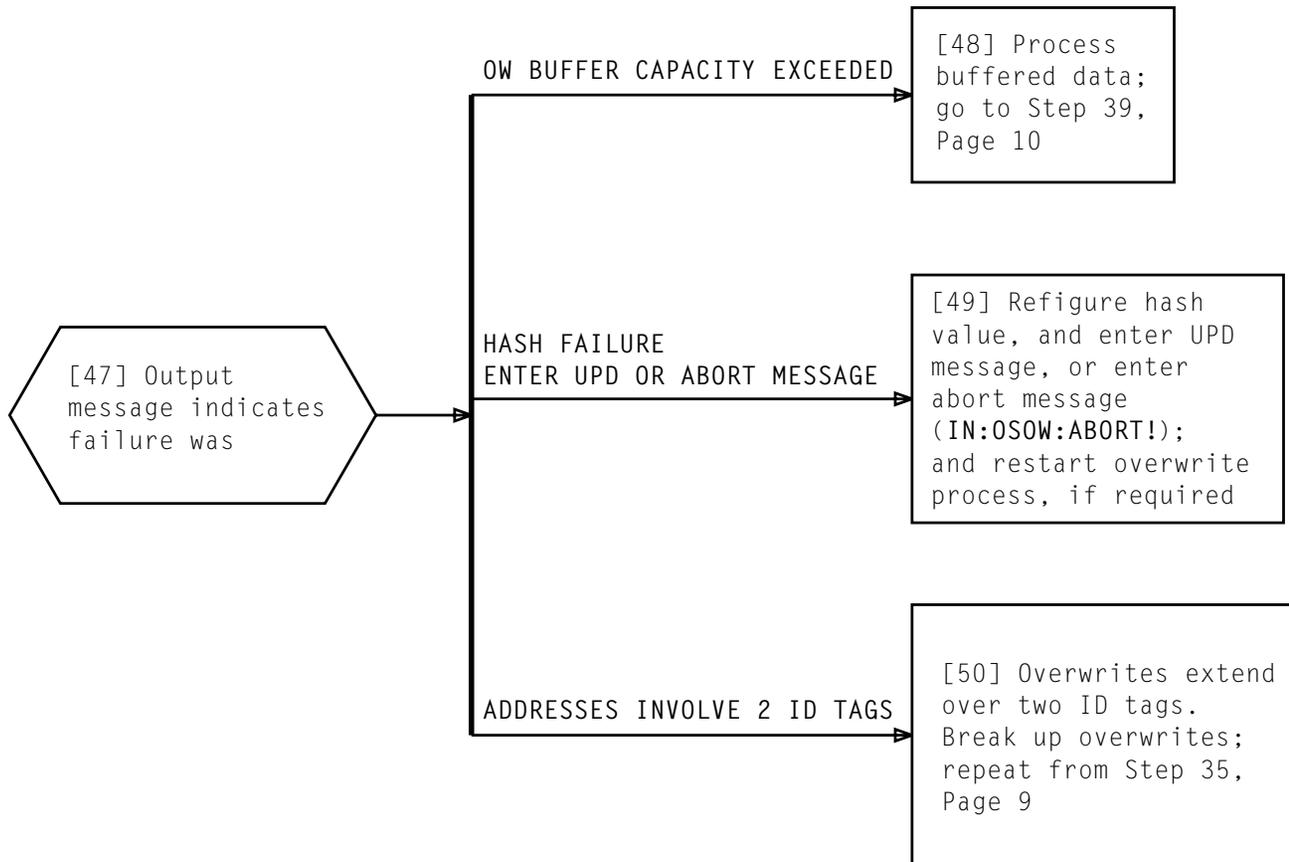


TABLE G	
MESSAGE NUMBER	OUTPUT MESSAGE
1	IN:OSOW COMPLETED MM ADR FS ADR ID OLD DATA NEW DATA xxxxxxxx yyyyyyyy zz aaaaaaaa bbbbbbbb READY FOR OVERWRITE DATA x = Main memory address of data to be changed y = Translated file system address for main memory overwrite or file system address of file system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



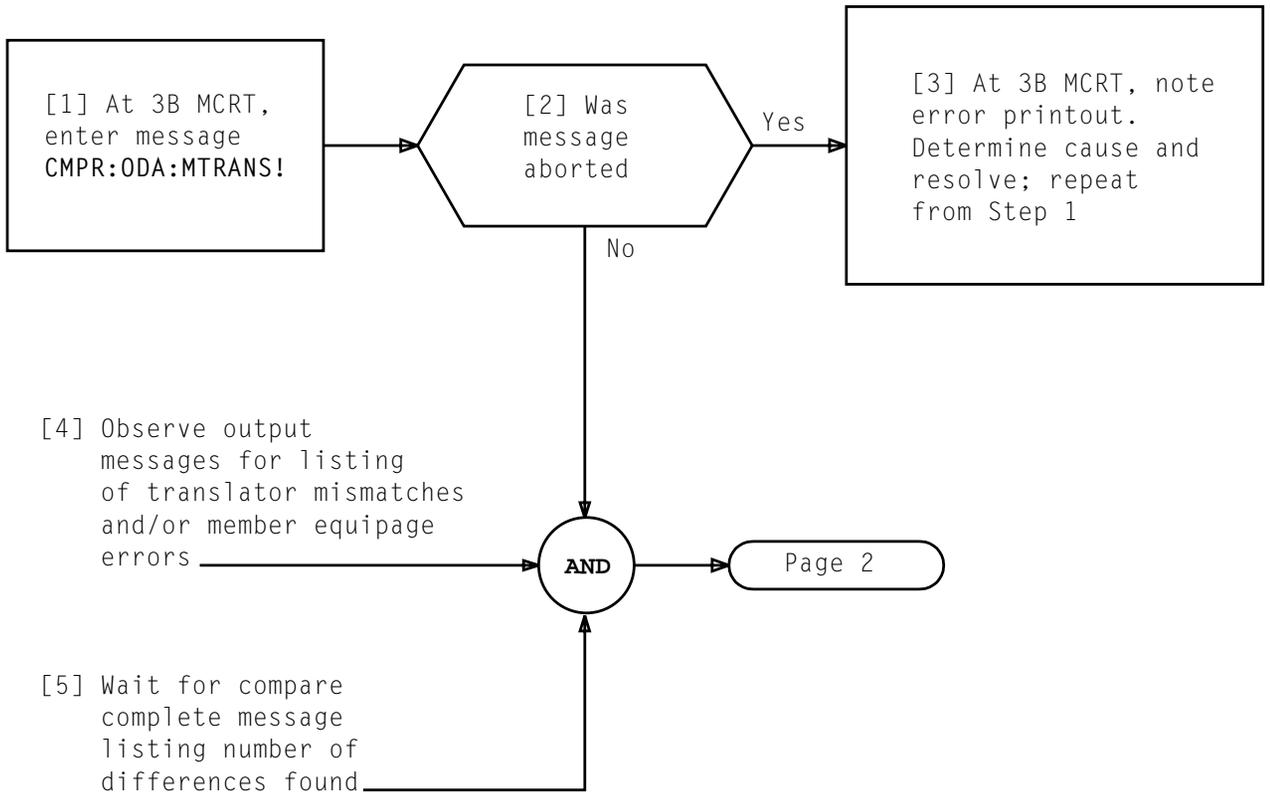
INSERT CRITICAL OVERWRITES INTO UPDATE FILE

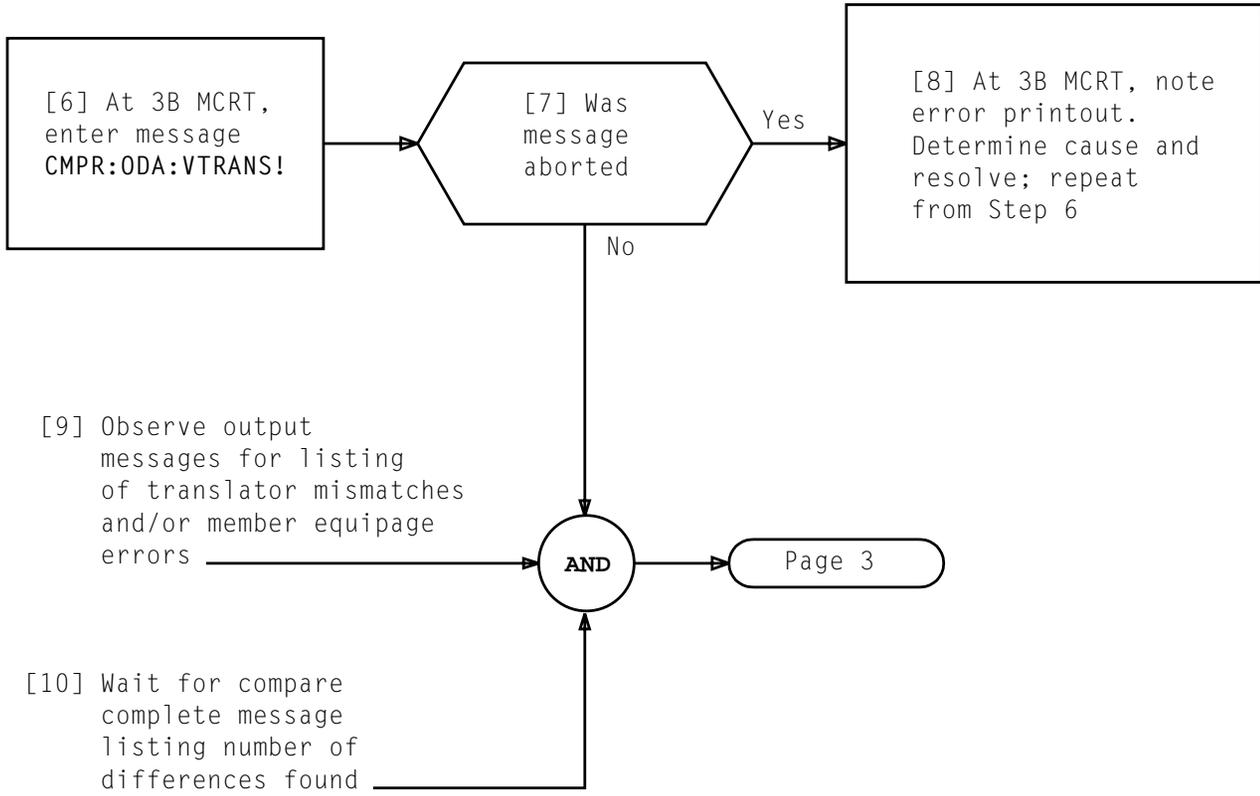
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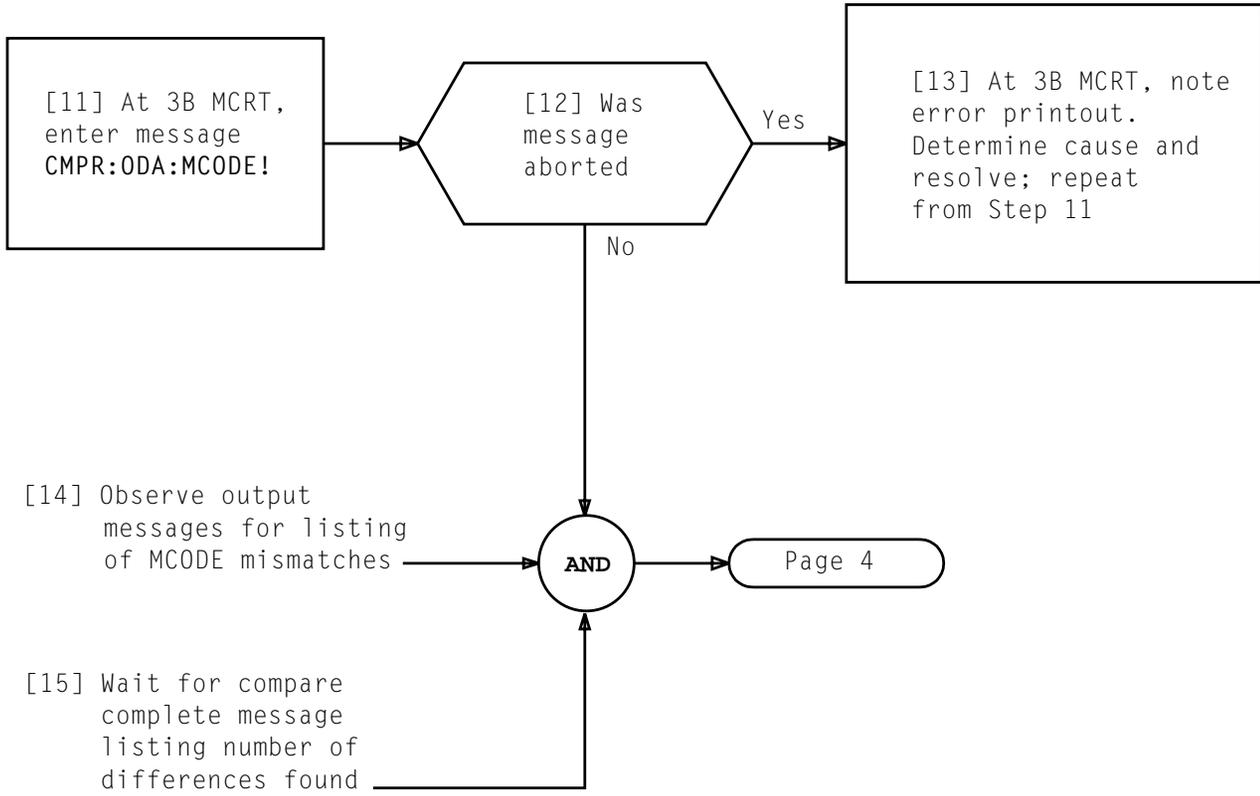


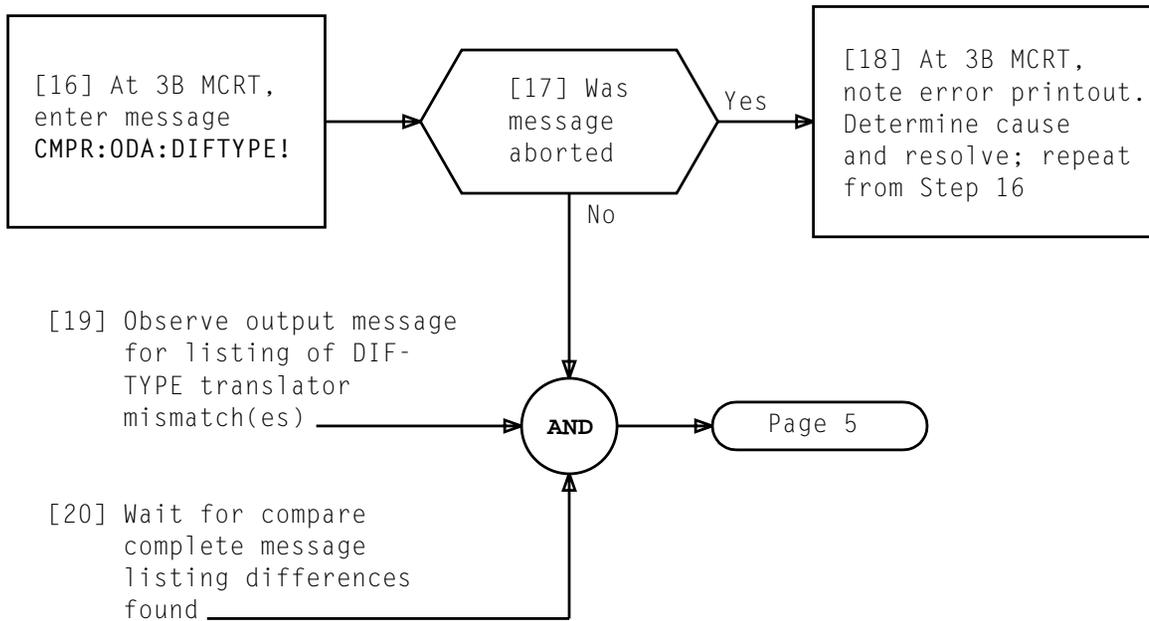
**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

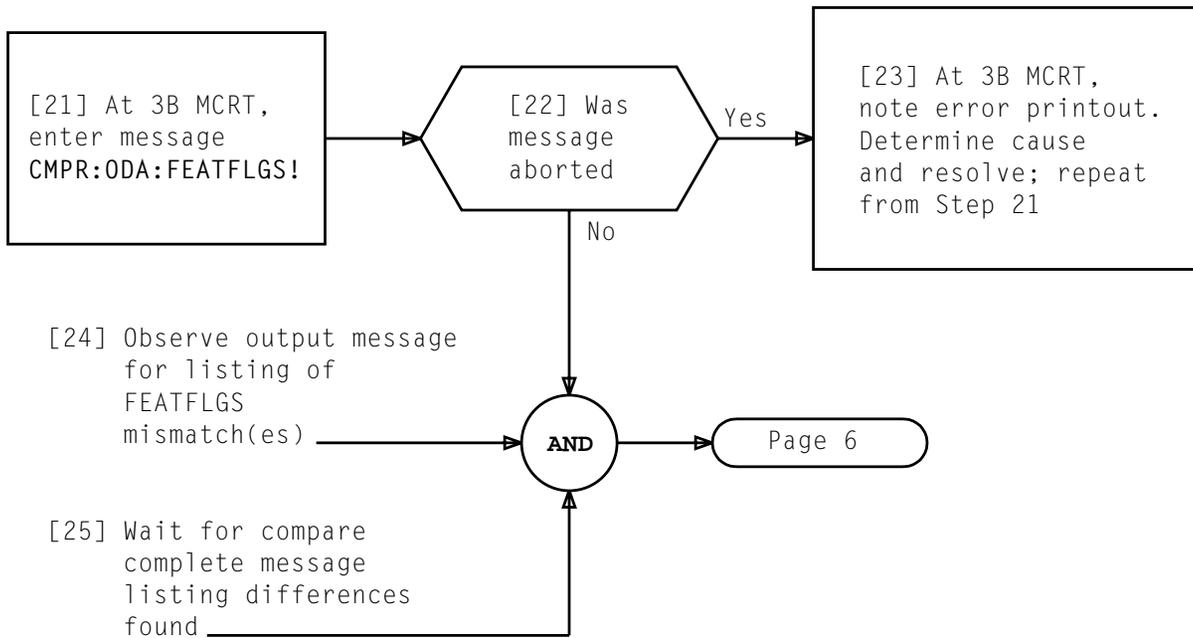
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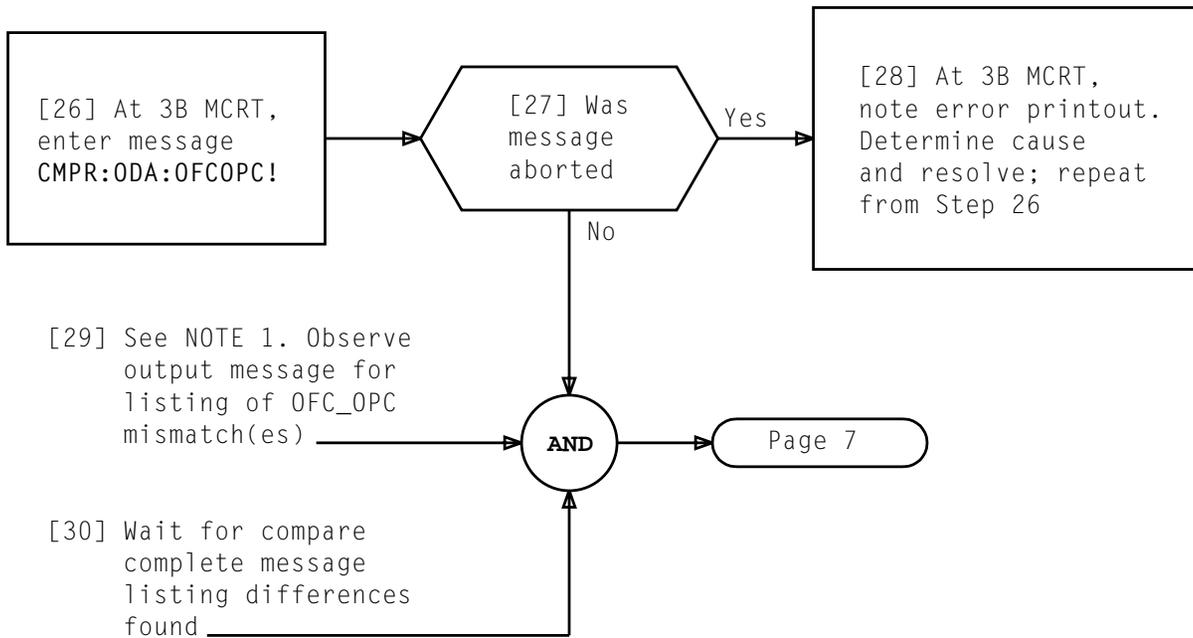




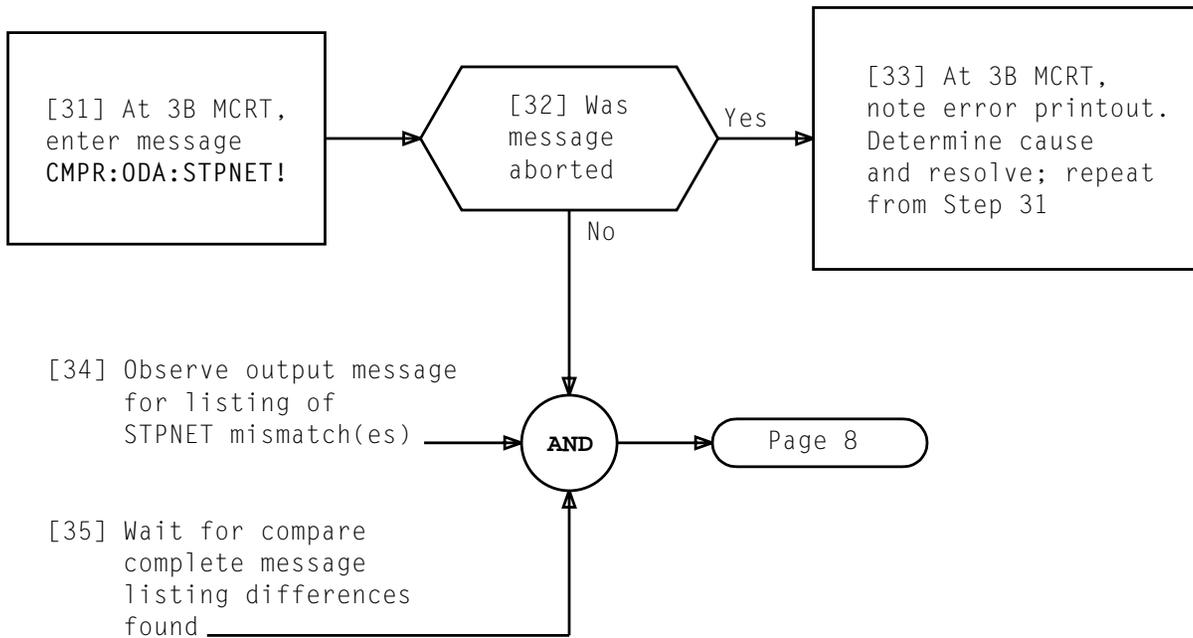


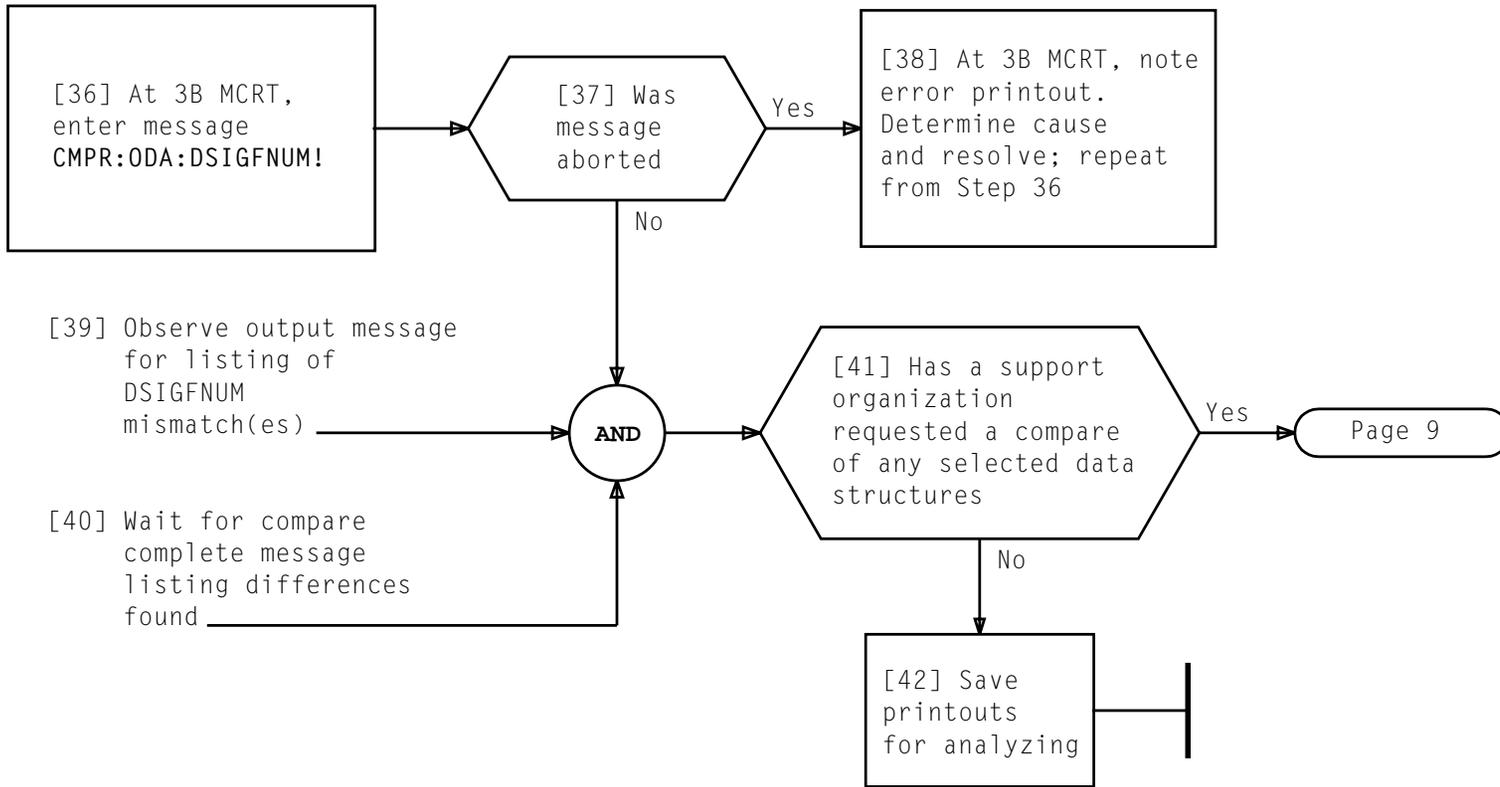






NOTE 1 Expect mismatch if point code is being changed	
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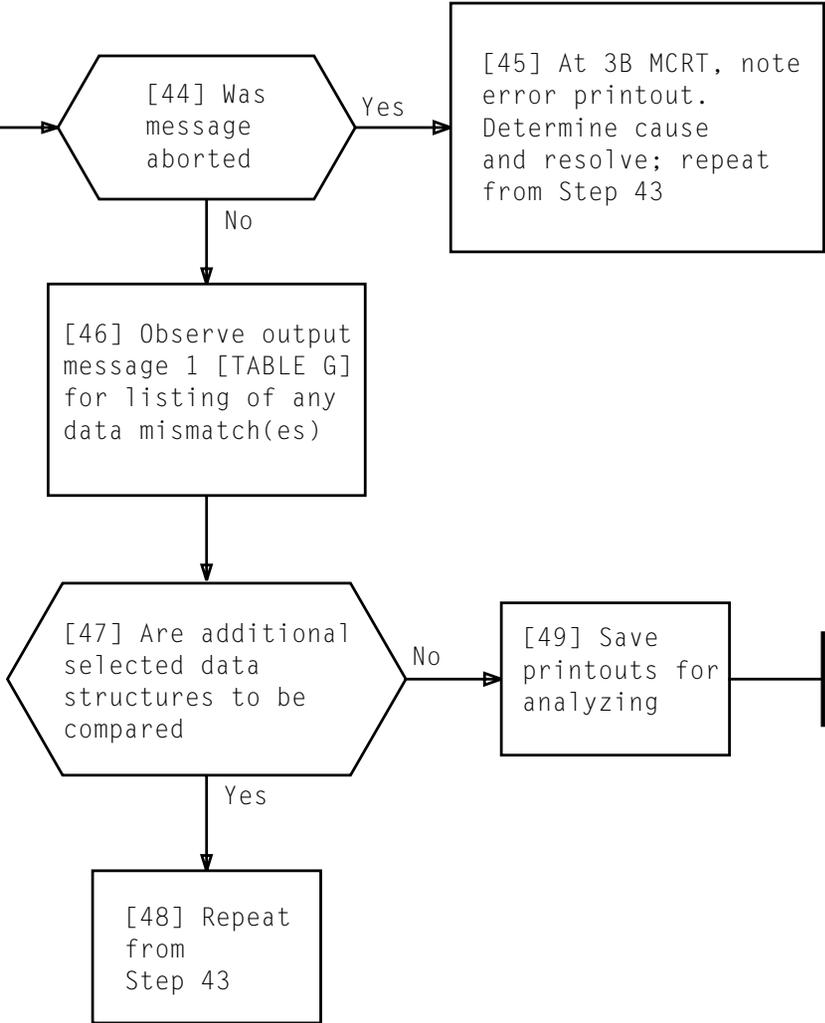




[43] At 3B MCRT, enter message 1 [TABLE F] for compare of selected data structure

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

TABLE G	
MESSAGE NUMBER	OUTPUT MESSAGE
1	CMPR:ODA FOR DEMAND STRUCTURE NG OLD                      NEW ADR xxxxxxxx    ADR yyyyyyy WORD#    DATA    WORD#    DATA n        vvvvvvvv    n        wwwwwwww •        •        •        •        • •        •        •        •        • n        •        n        •        • n = Translator word number (octal) v = Data being compared in old ODA w = Data being compared in new ODA x = Address being compared in old ODA y = Address being compared in new ODA

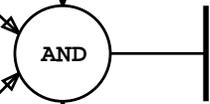


[1] Refer to TABLE A, Page 2, for minimum hardware in-service requirements for update

[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**

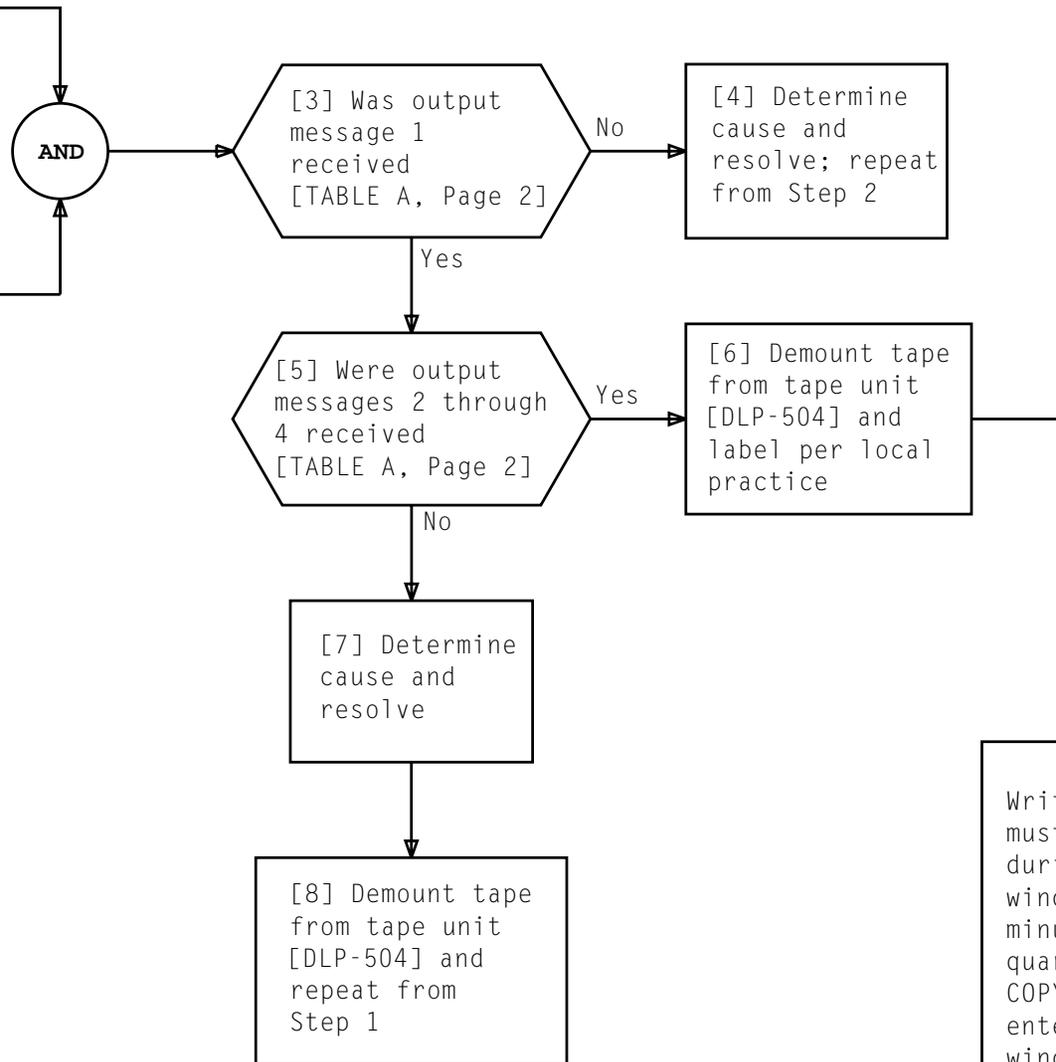
UNIT	MINIMUM REQUIREMENTS (NOTE)	UNIT	MINIMUM REQUIREMENTS (NOTE)
1B Processor	Operating full duplex	TMS	All in service operating in duplex
IOUS	All IOUSs and all essential I/O channels in service	PUB	Both peripheral unit buses in service
BUSES	All buses in service operating in duplex	NCLK	All four clock chains in service
API	APIs duplex and in service	VIF/DT/DIF	All in service. No more than one VIF/DT/DIF controller out of service (excluding TSI caused). No more than one VIU/DTU/DIU out of service in any one VIF/DT/DIF
SCS	All controllers and service circuit units available for service	NM	The network management function must be fully operational (to be used as a tool for evaluating office performance in new generic issue).
SP	Base SPs operating full duplex. All other SPs in service with no more than one controller out of service	EST	All ESTs in service and operating duplex
TSI	Dedicated TSI operating duplex. All other TSIs in service with no more than one controller out of service	TGR	All TGRs in service and operating duplex

*Note:* Any operational unit which fails diagnostics must be powered down

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[1] Mount a blank or erasable tape with write-enable ring attached on 3B computer tape unit [DLP-501]

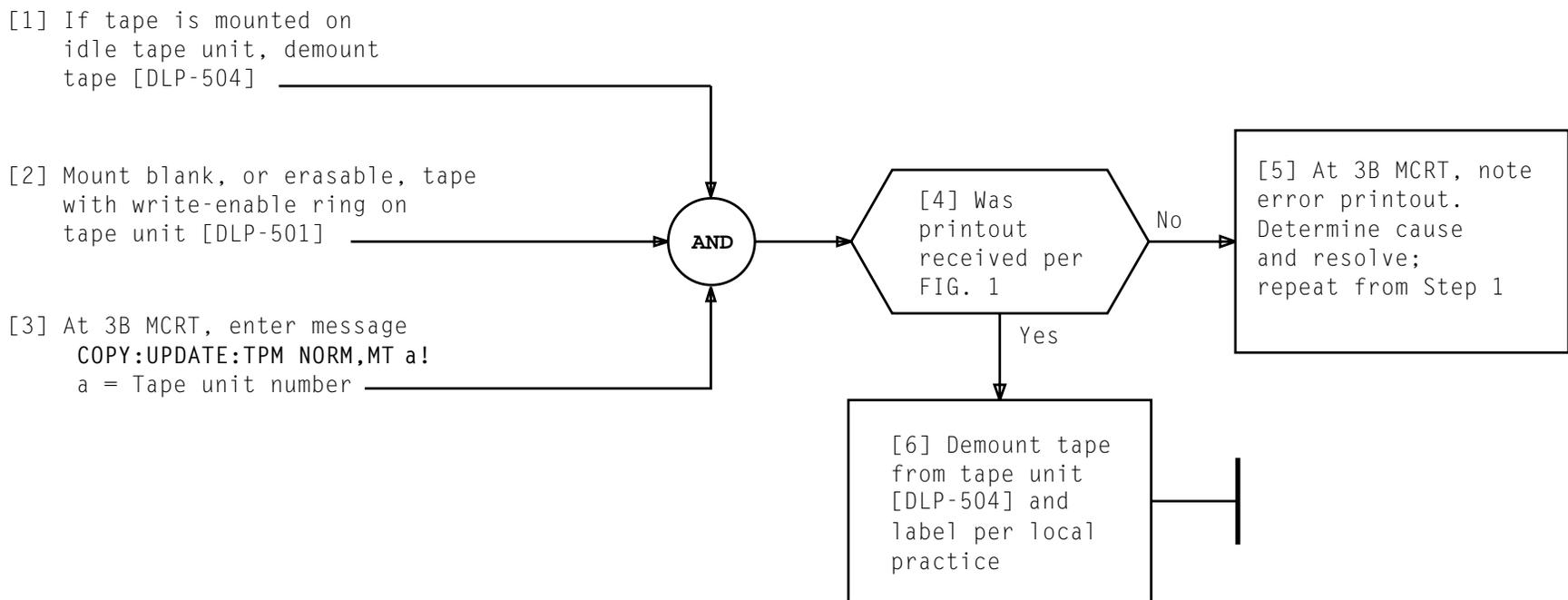
[2] See NOTE 1. At 3B MCRT, enter message  
 COPY:APPTAPE:LTS,MT a!  
 a = tape unit number with tape mounted



NOTE 1  
 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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TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	COPY APPTAPE TYPE: LTS, WRITTEN mm/dd/yy hh:mm
2	COPY APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED, FILE /dev/lafileX
3	COPY APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4	COPY APPTAPE COMPLETED
mm/dd/yy hh:mm = month/day/year hour:minute tape was written aaaaaaaa = starting LTS address through bbbbbbbb = ending LTS address written	



COPY TPM FROM NORMAL FILE

TAPE FILE 10 WRITTEN FROM FS\*

TPM TAPE WRITTEN

\* MAY NOT BE RECEIVED

**FIG. 1 - Sample TPM Tape Write Printout**

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[1] Mount a blank, or erasable tape with write-enable ring attached on 3B computer tape unit [DLP-501]

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

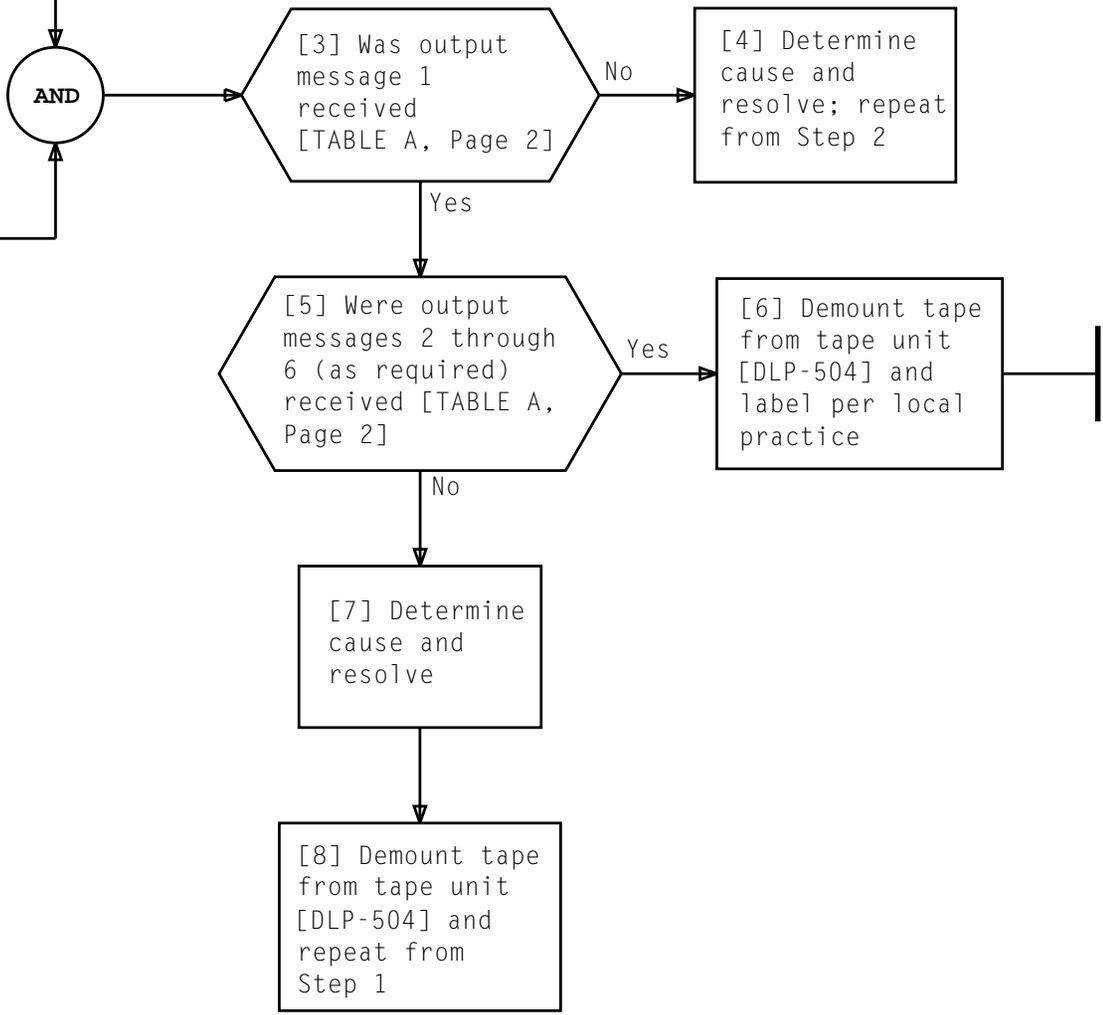


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	COPY APPTAPE TYPE: TOSL, WRITTEN mm/dd/yy hh:mm
2	COPY APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED, FILE /dev/lafileX
3	COPY APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4	COPY APPTAPE COMPLETED
mm/dd/yy hh:mm = month/day/year hour:minute tape was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

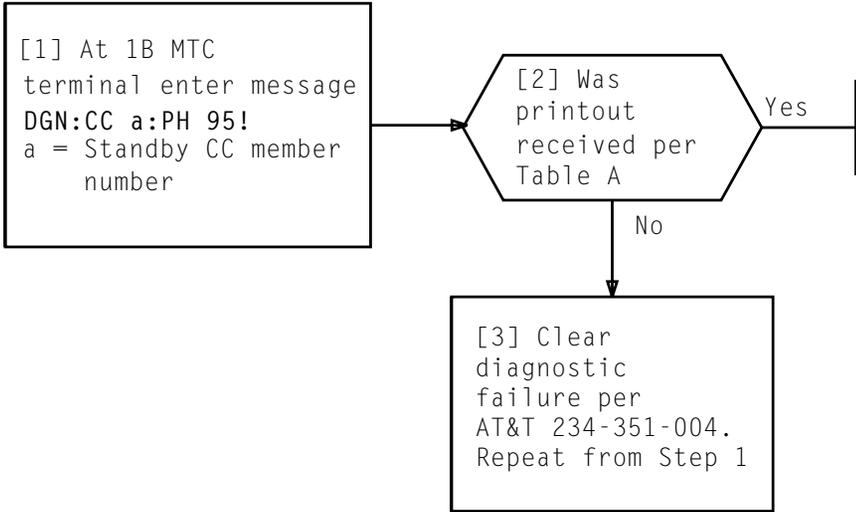


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:CC a PH 95 ATP DGN:CC a COMPLETED ATP MSG COMPL TEST:CC a DFR ATP

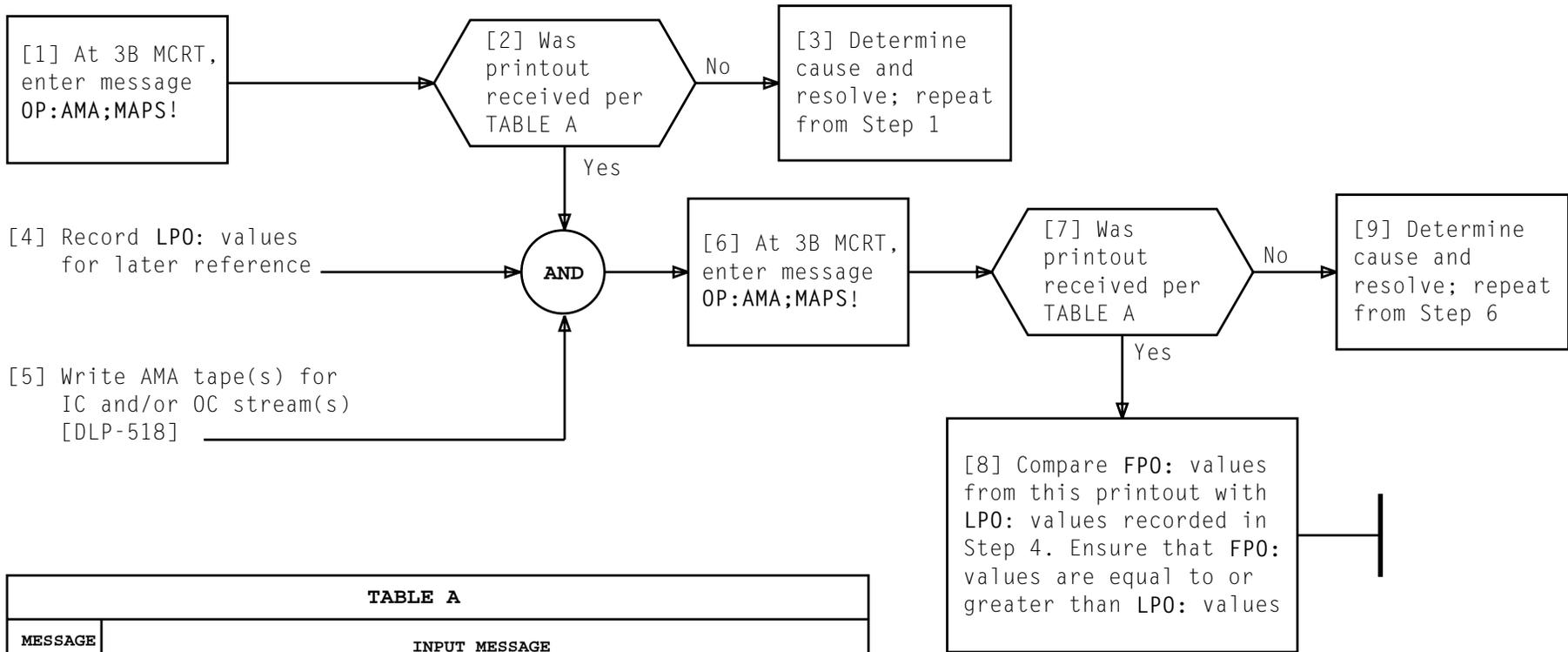


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	REPT AMA DISK MAPS WRITE PARTITION a READ PARTITION a = Partition number AMA data being written
2	PARTITION b DISK MAP: FPO: c      LPO: d      FPS: _____ LPS: _____ FSO: _____ LSO: _____ FSS: _____ LSS: _____ FBO: _____ LBO: _____ FBS: _____ LBS: _____  b = Equipped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

**SAVE PRIMARY AMA DATA ON TAPE**

[1] Mount AMA tape, supplied by RAO, with write ring attached on in-service 3B computer tape drive [DLP-501]

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

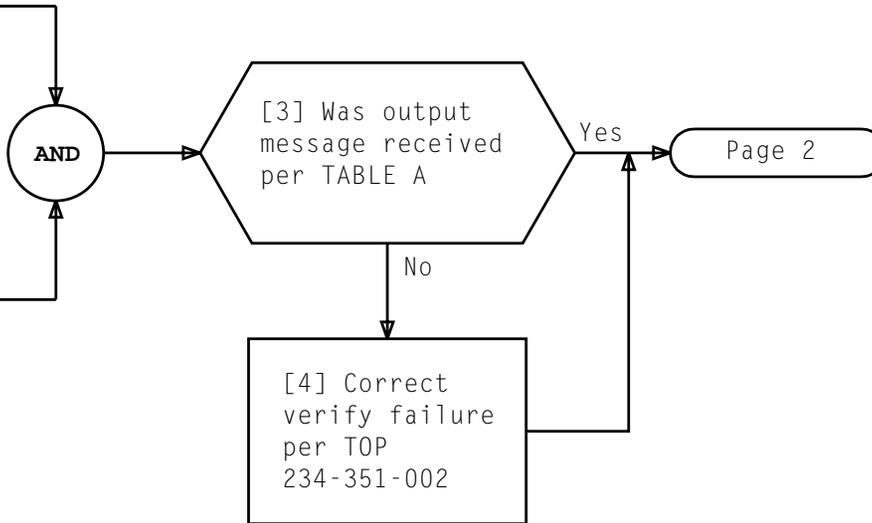
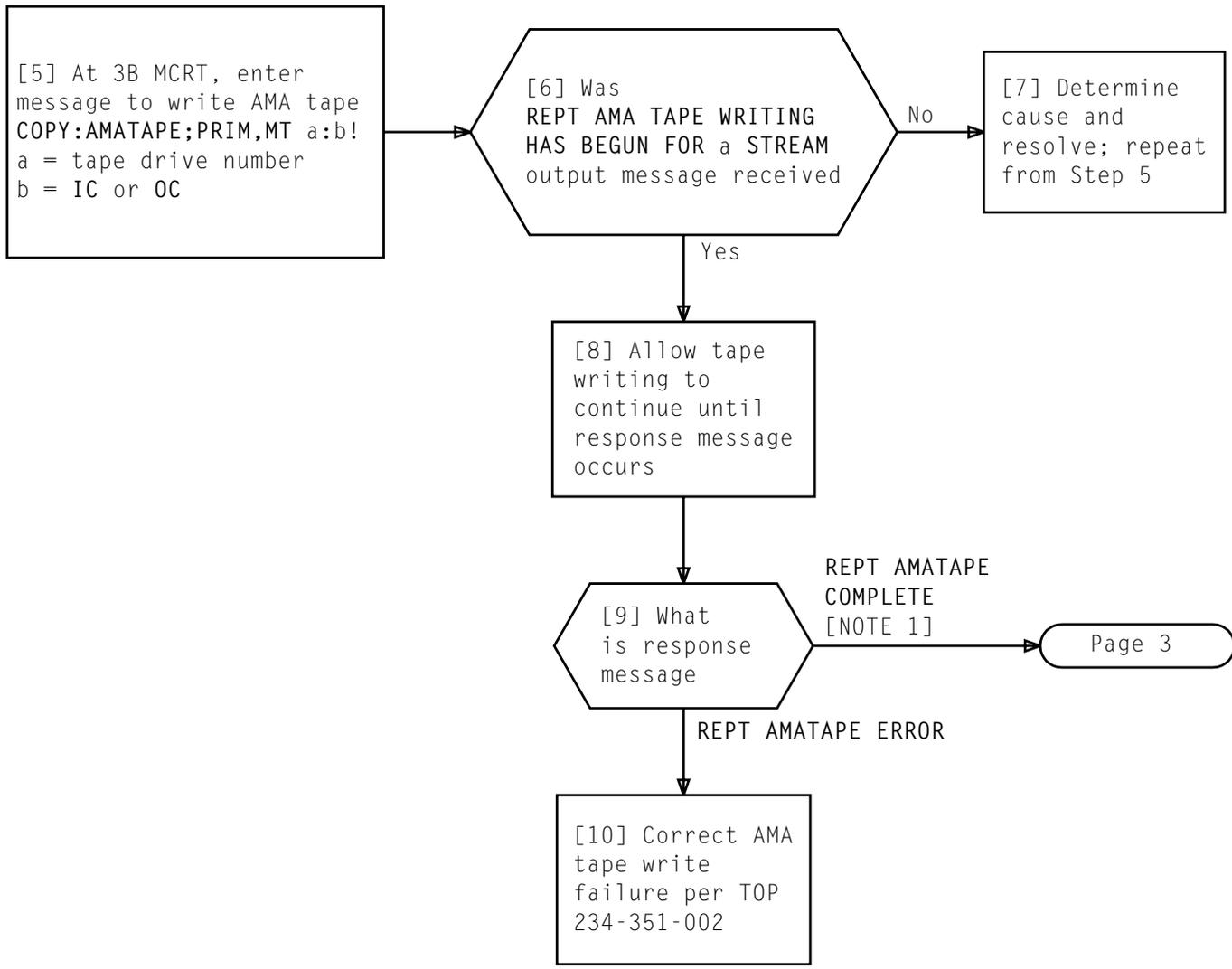


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMATAPE VERIFY FOR a STREAM VOL SER NUMBER b DATA SET ID c EXPIRATION DATE d-e TAPE DRIVE NUMBER f AMA TAPE CAN BE WRITTEN  a = IC or OC b = Tape serial number c = Data set ID d = Year of expiration date e = Day of expiration (1 through 365) f = Tape drive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

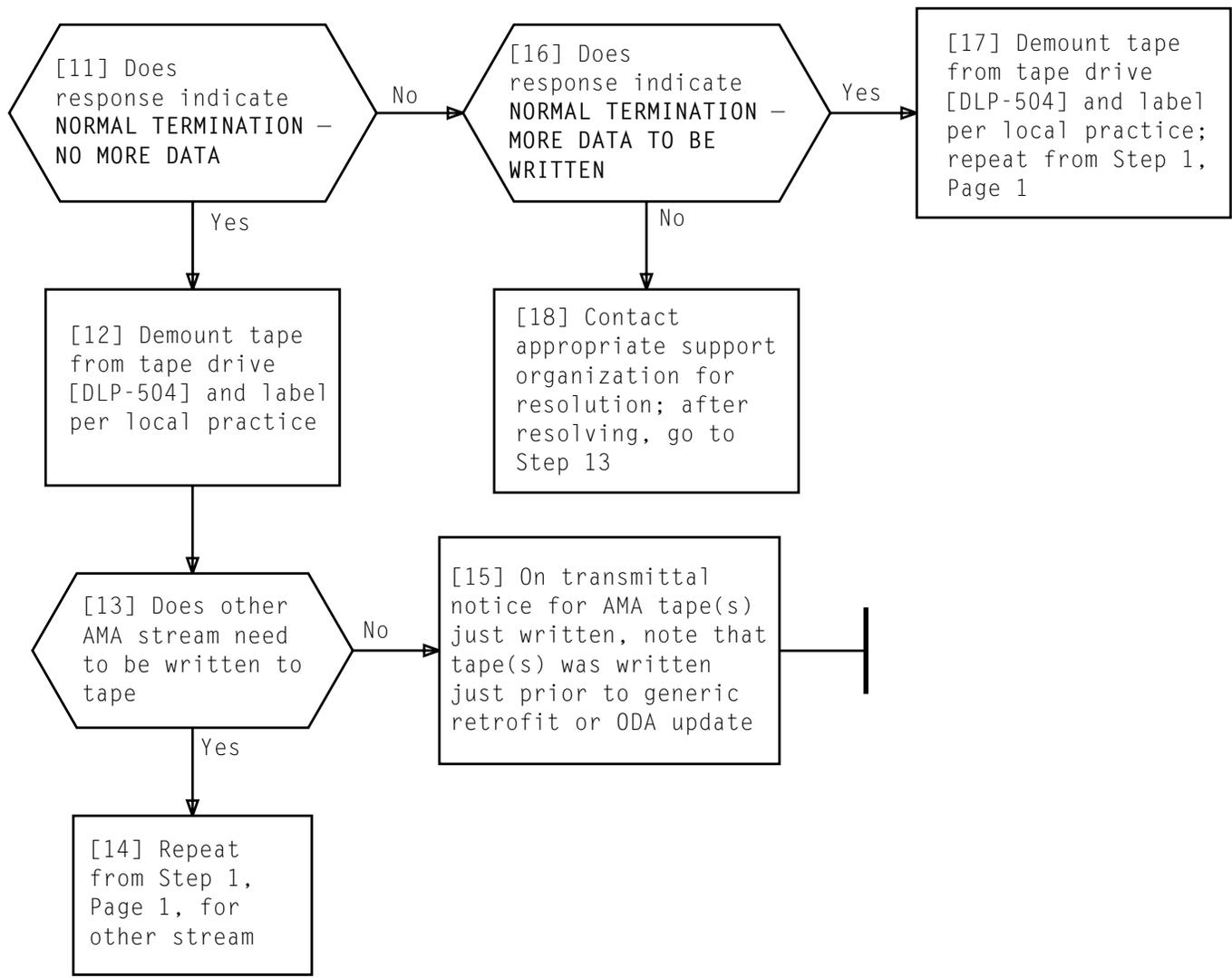
**WRITE AMA TAPE(S)**

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**WRITE AMA TAPE(S)**

NOTE 1 Output message contains detailed data of AMA tape	
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**WRITE AMA TAPE(S)**

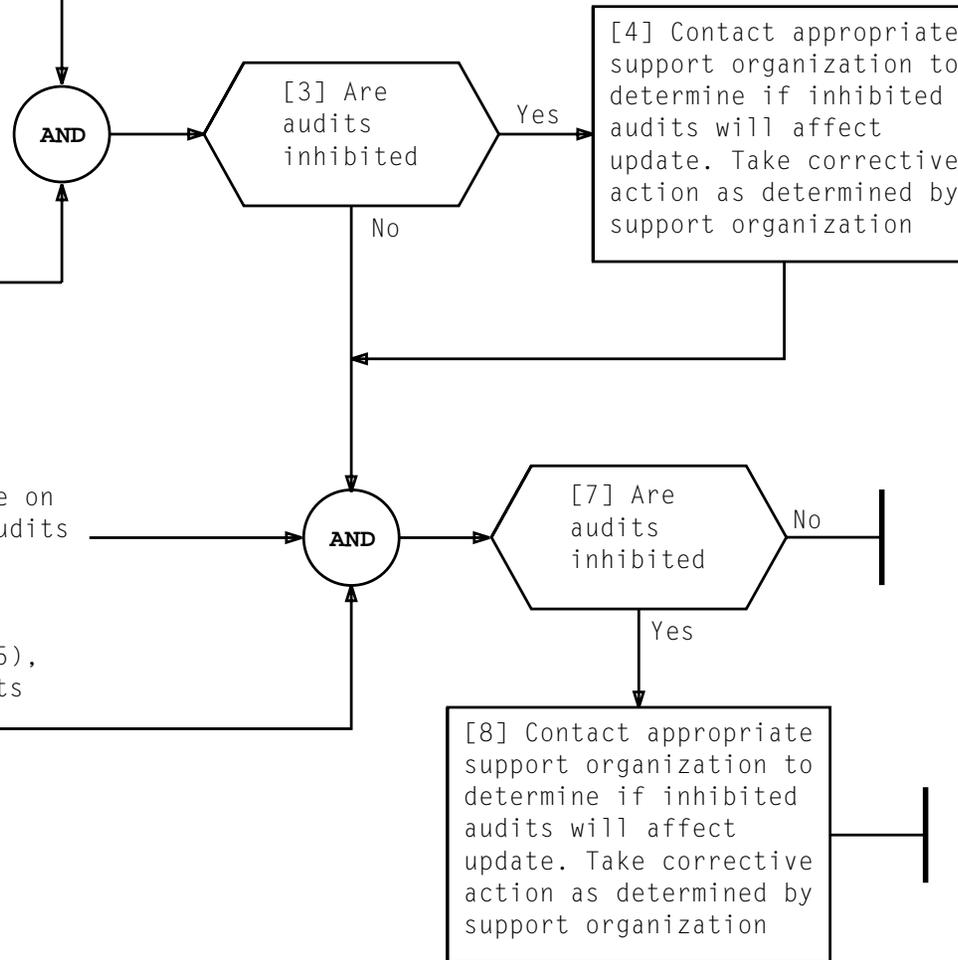
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[1] At 1B MTC terminal, enter message OP:AUDSTAT!

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

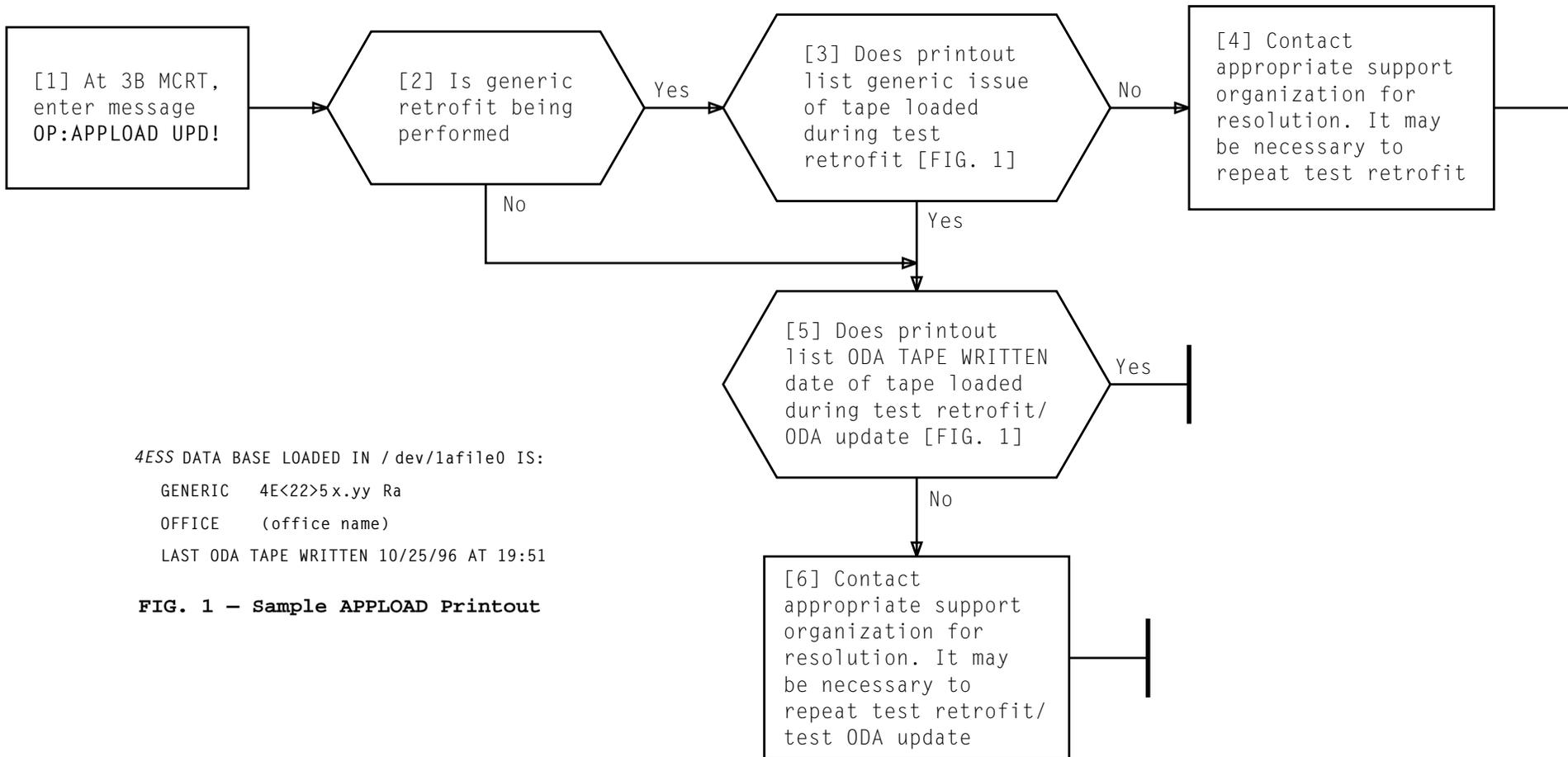
[5] At 3B MCRT ROP, locate on printout, status of audits

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



### VERIFY NO AUDITS INHIBITED

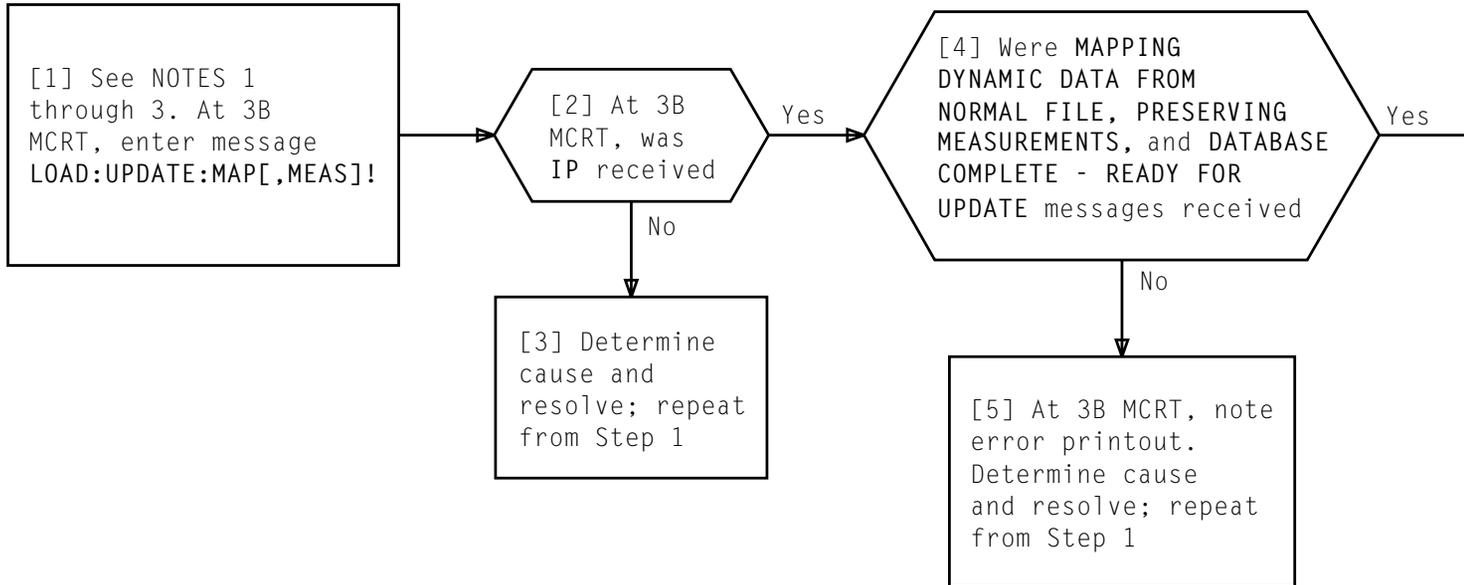
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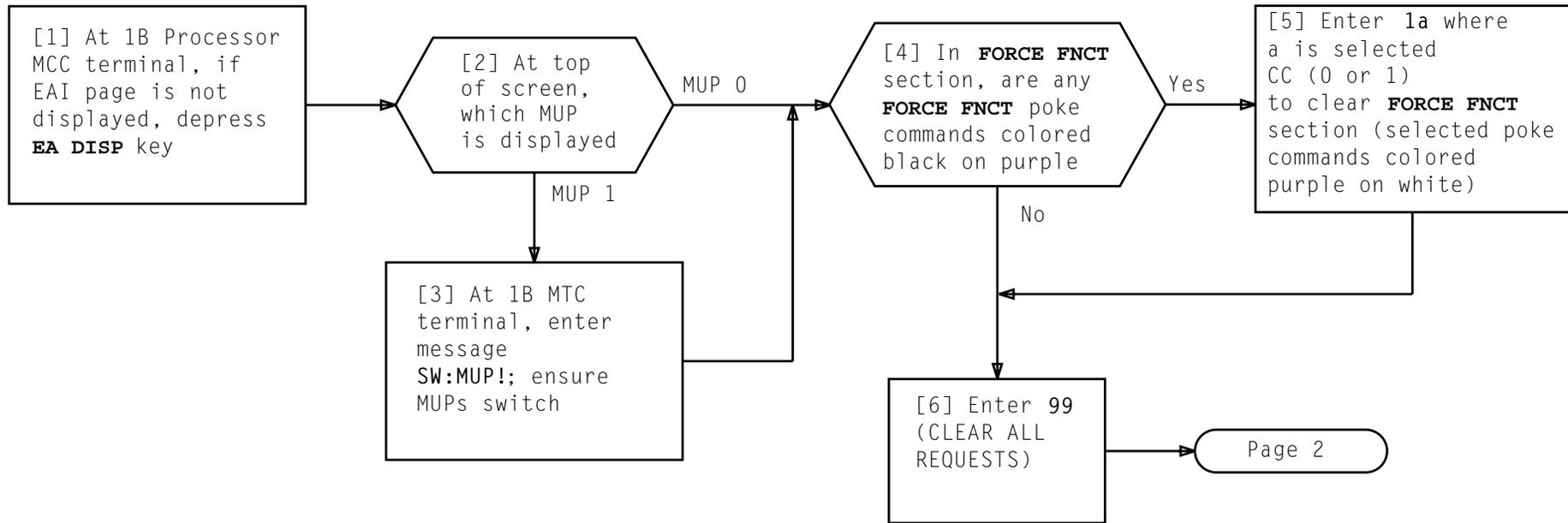
```

4ESS DATA BASE LOADED IN / dev/1afile0 IS:
  GENERIC  4E<22>5x.yy Ra
  OFFICE   (office name)
  LAST ODA TAPE WRITTEN 10/25/96 AT 19:51
  
```

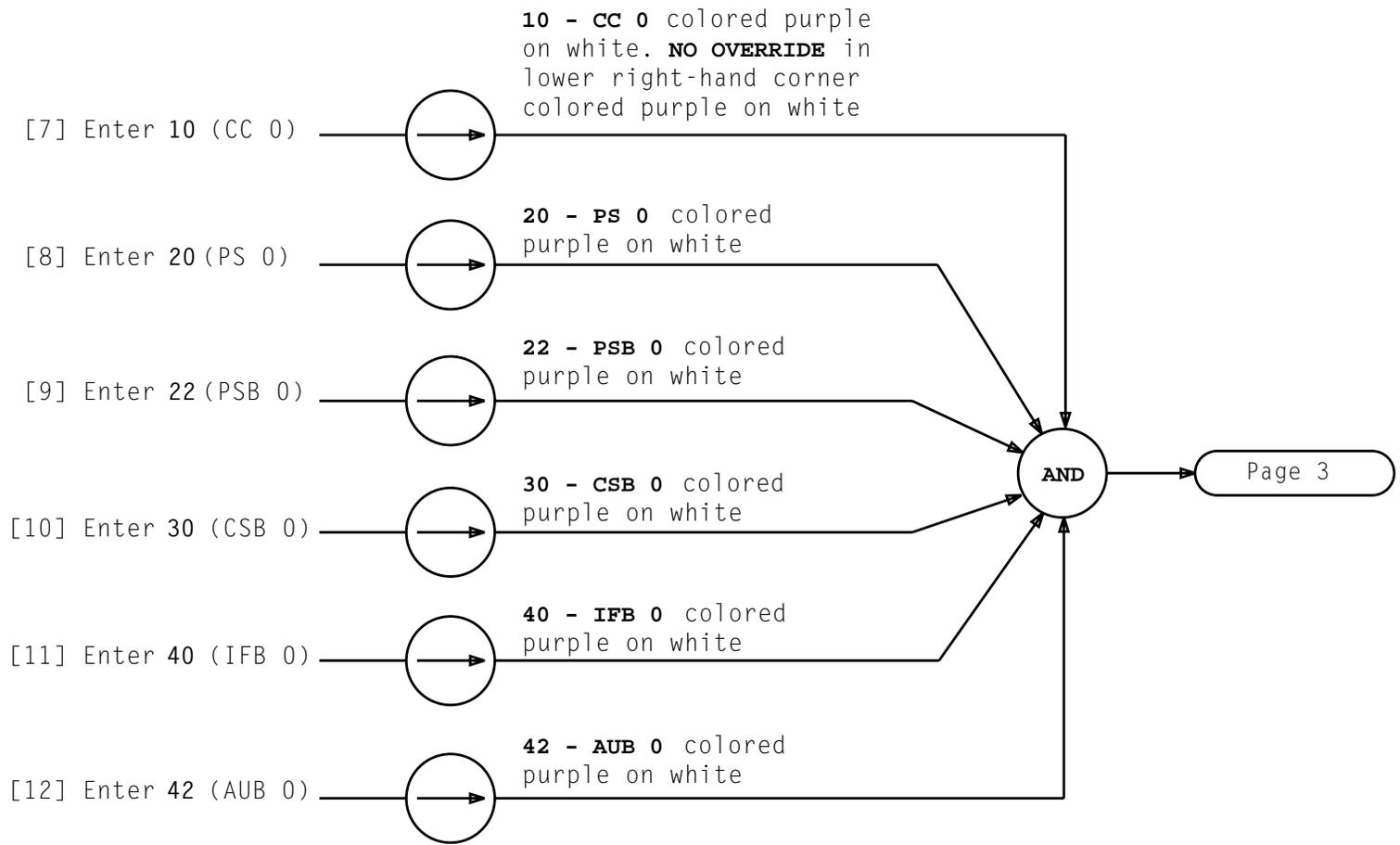
**FIG. 1 - Sample APPLOAD Printout**

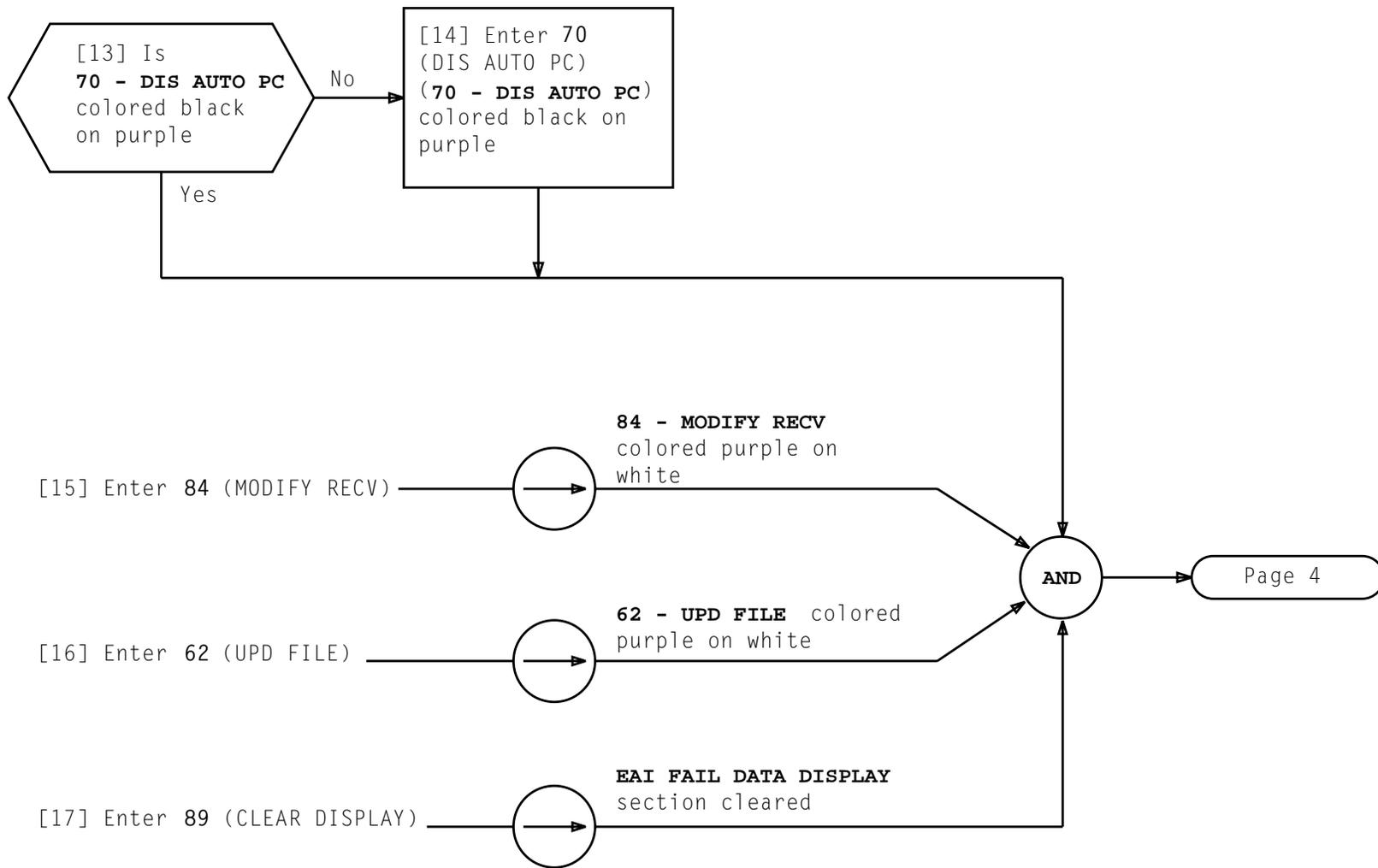


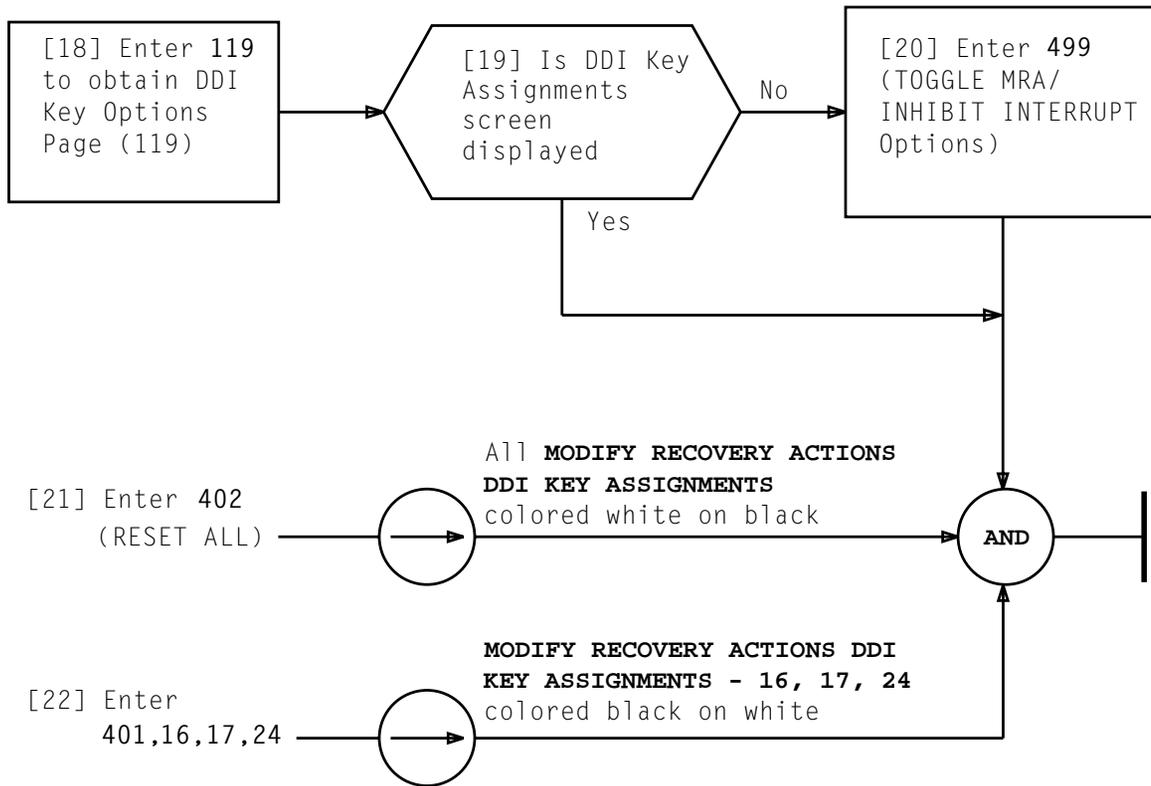
NOTES	
1. If schedules that are entered by SCHED:MEAS input message are to be retained for update, include MEAS option in LOAD message (AT&T offices should use MEAS option)	
2. WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR output message may be received. System will automatically map dynamic data when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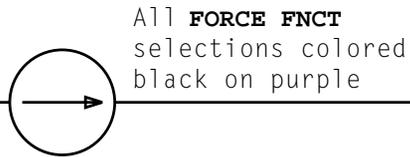




[1] At 1B Processor MCC terminal,  
if EAI Page is not displayed,  
depress **EA DISP** key

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

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



AND

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

Yes

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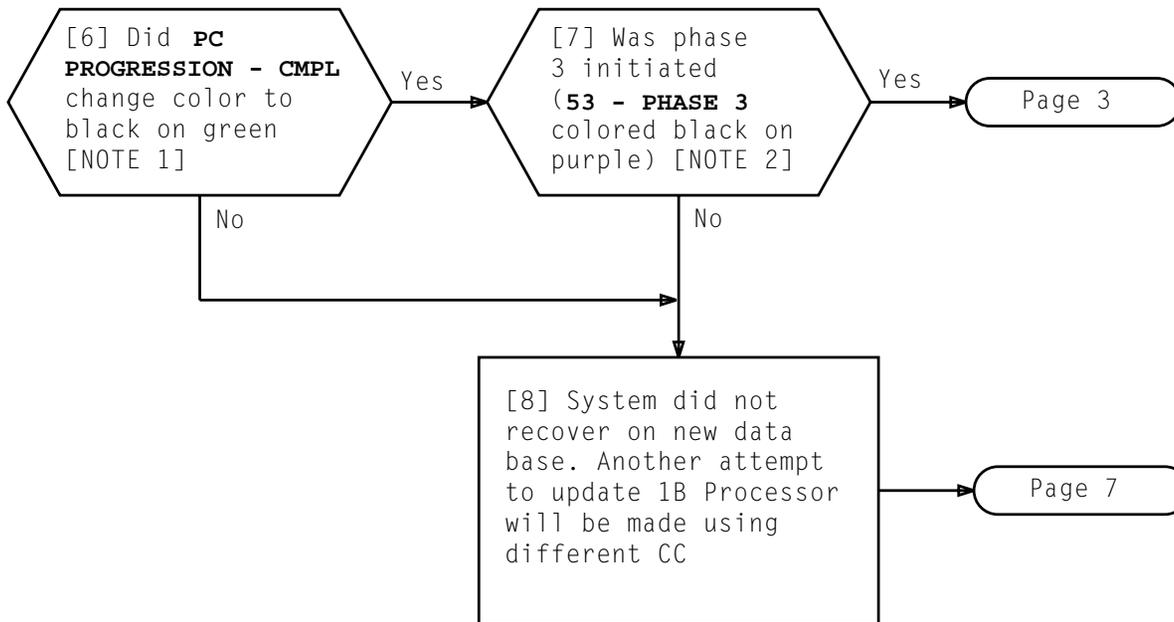
No

[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

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

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

Yes

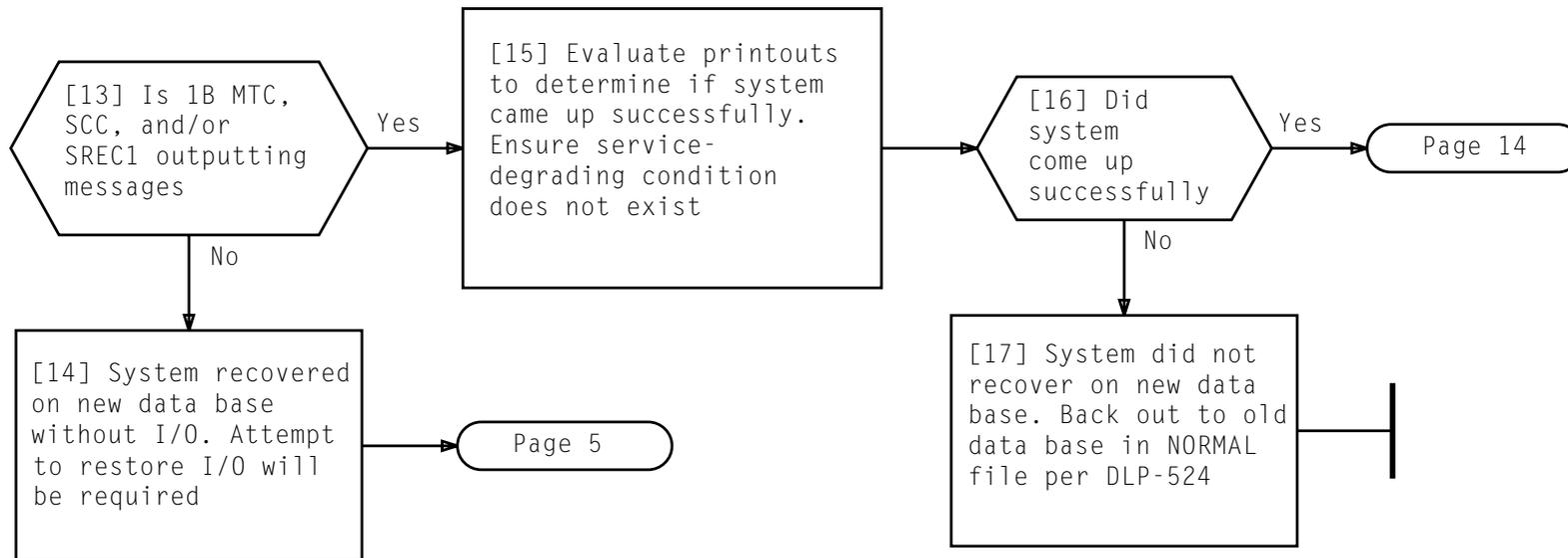
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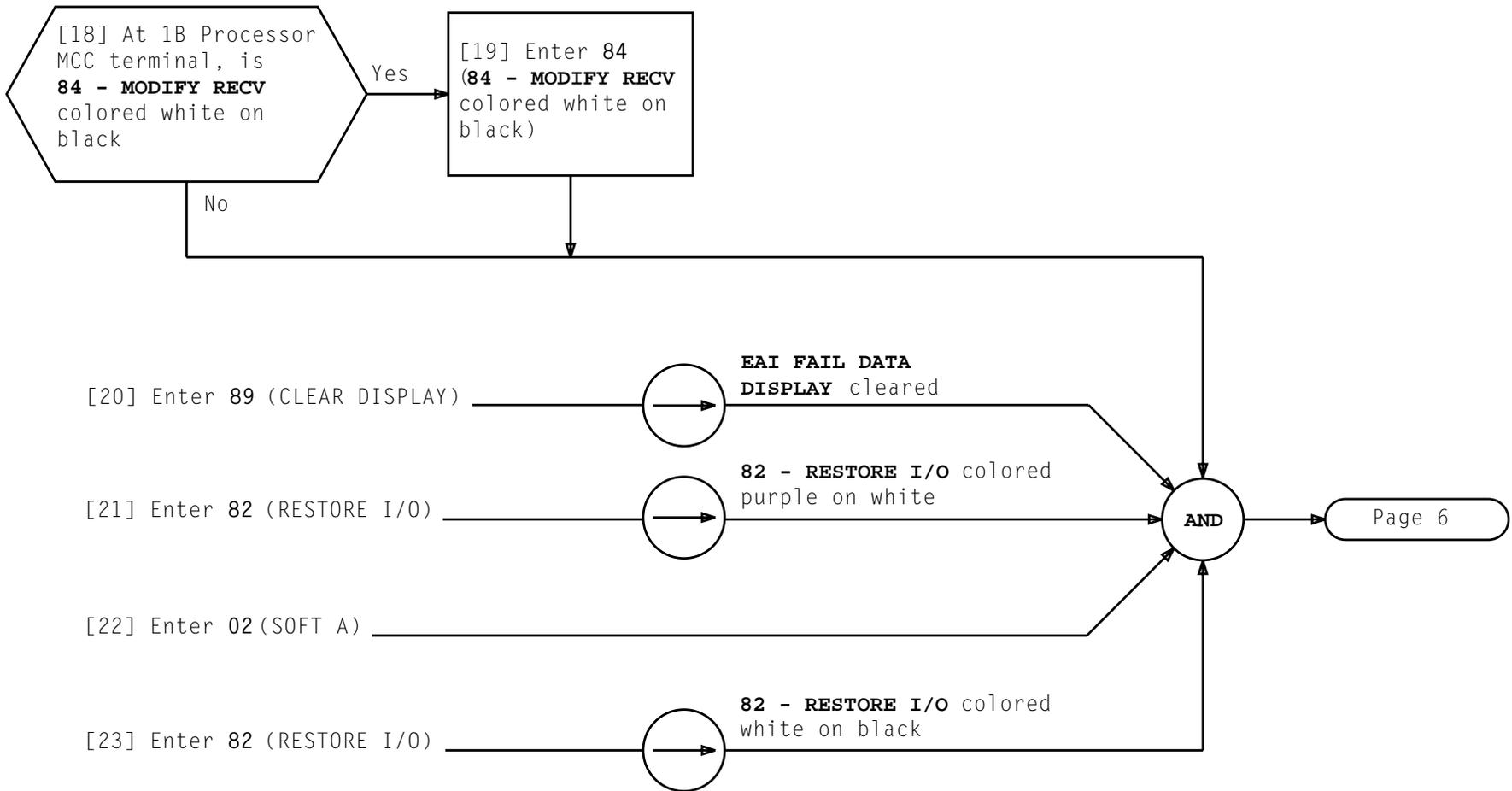
No

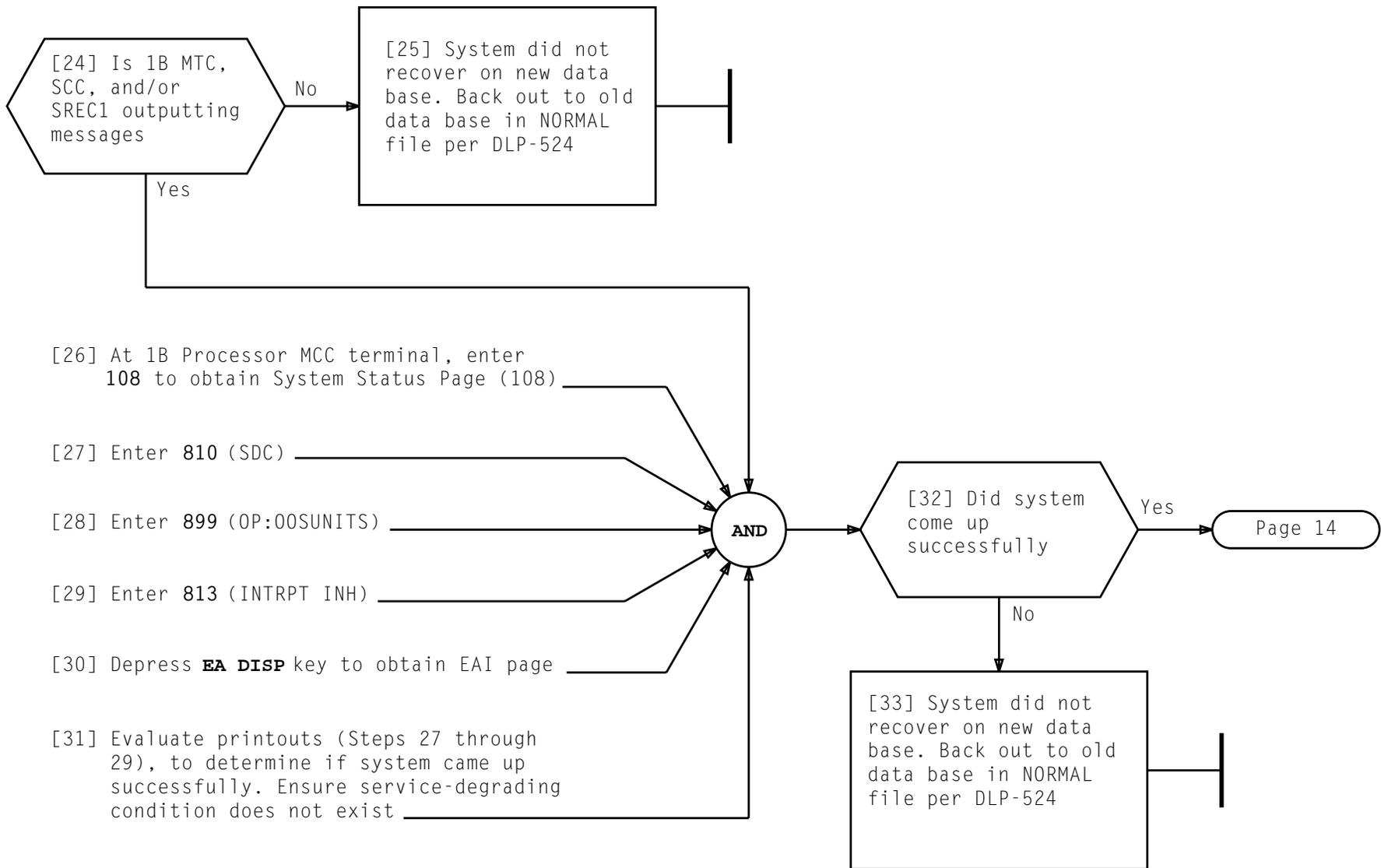
[11] Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required  
**87** = \_\_\_\_\_  
**88** = \_\_\_\_\_

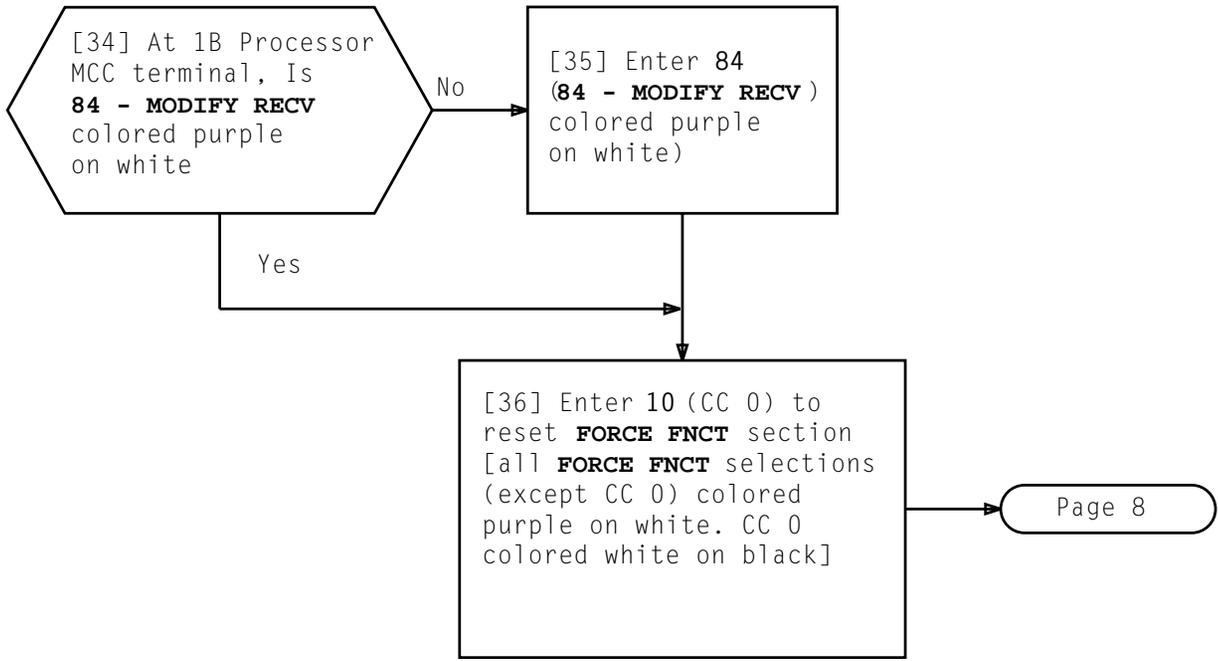
[12] System did not recover on new data base. Another attempt to update 1B Processor will be made using different CC

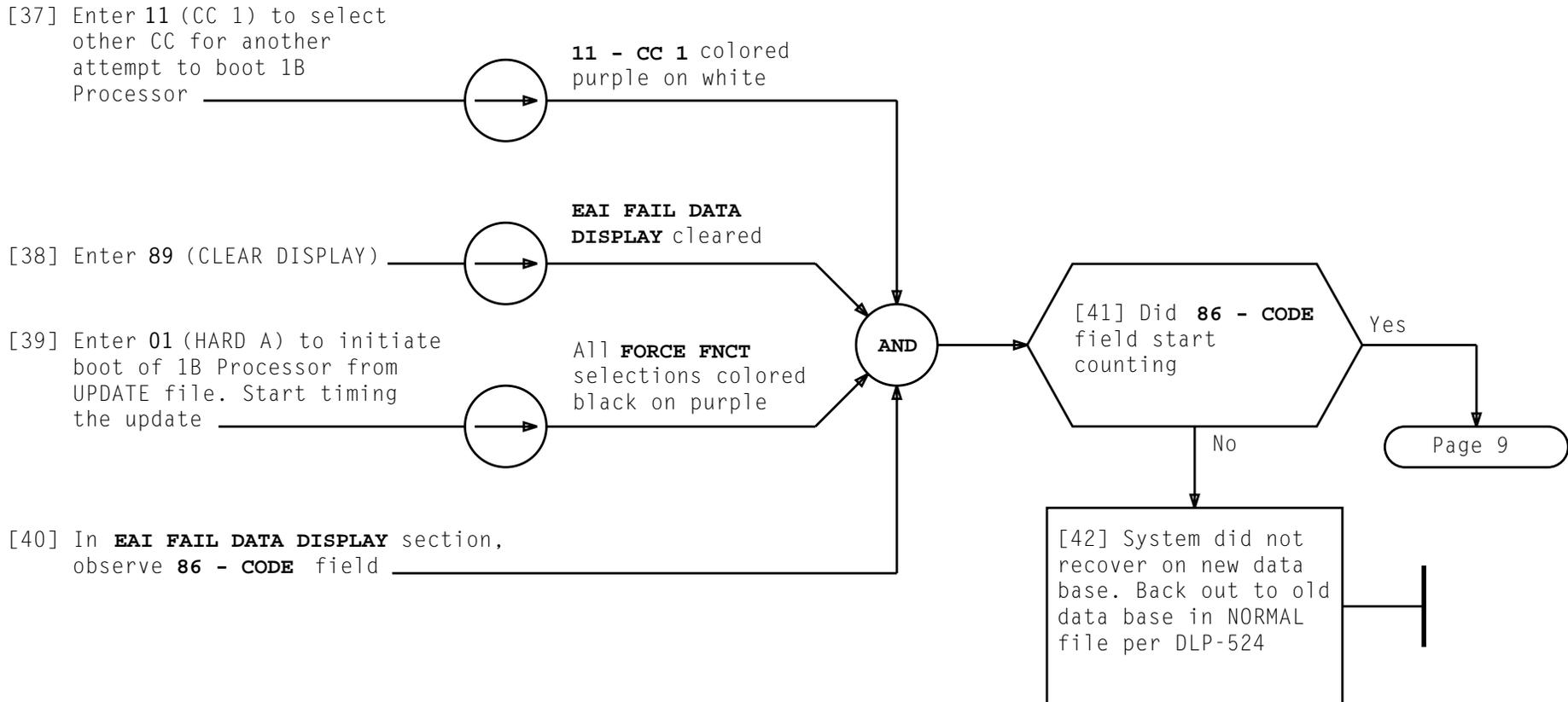
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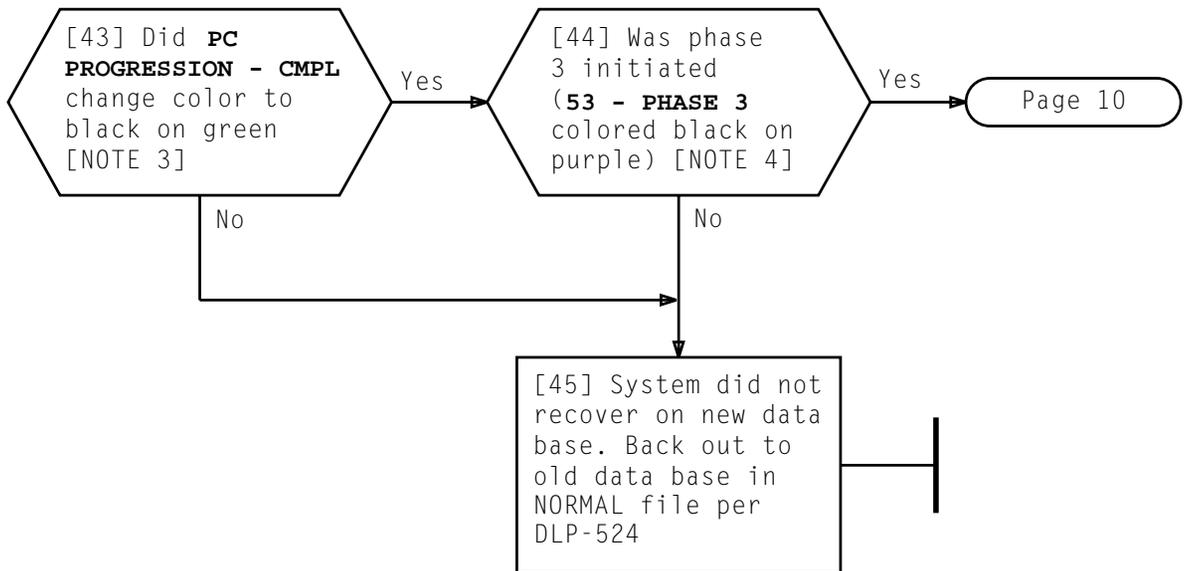






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86 - CODE: 0'000aaabbbb  
 87 - DATA:  
 88 - ADDR:

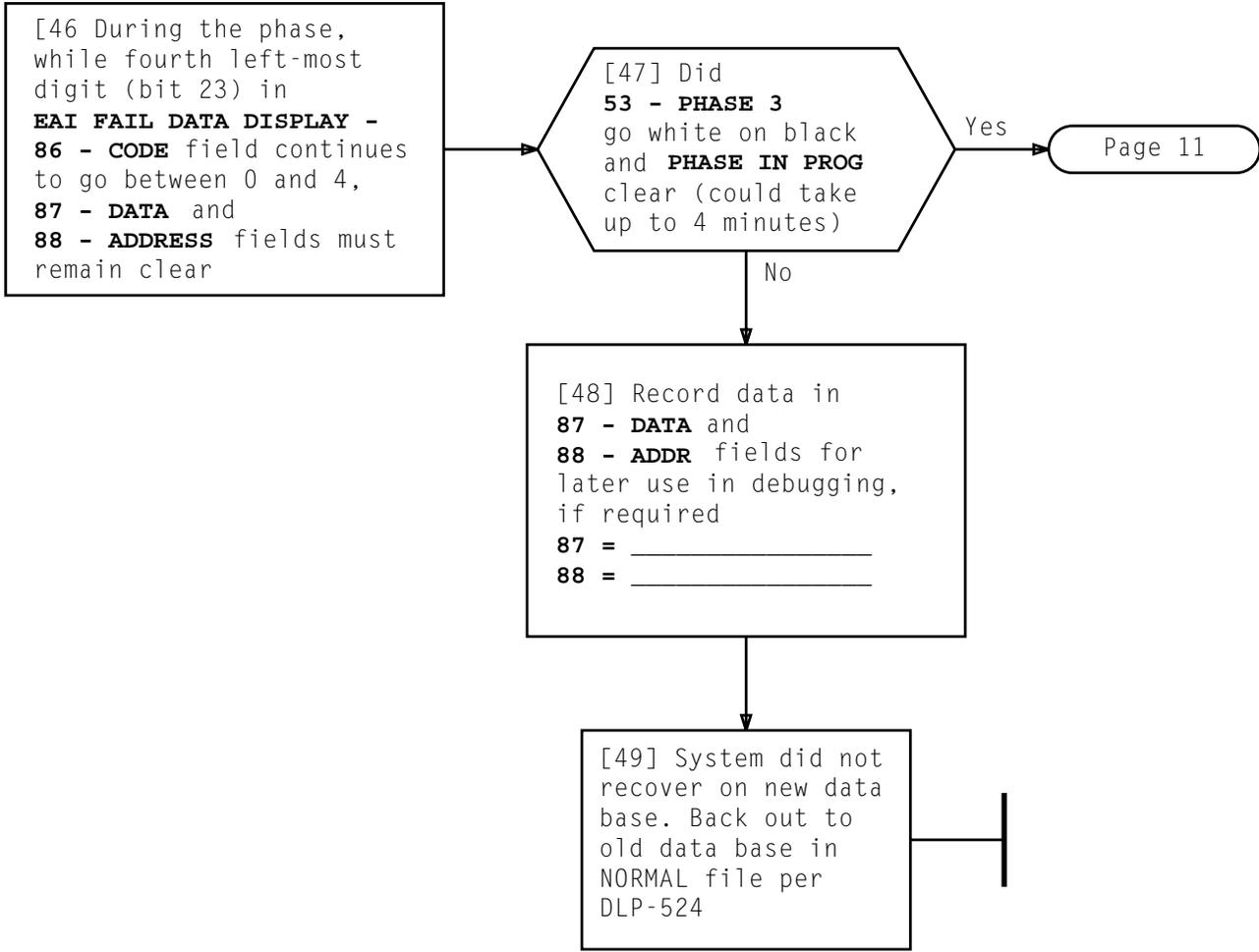
FIG. 2 - 86 - CODE Field Layout

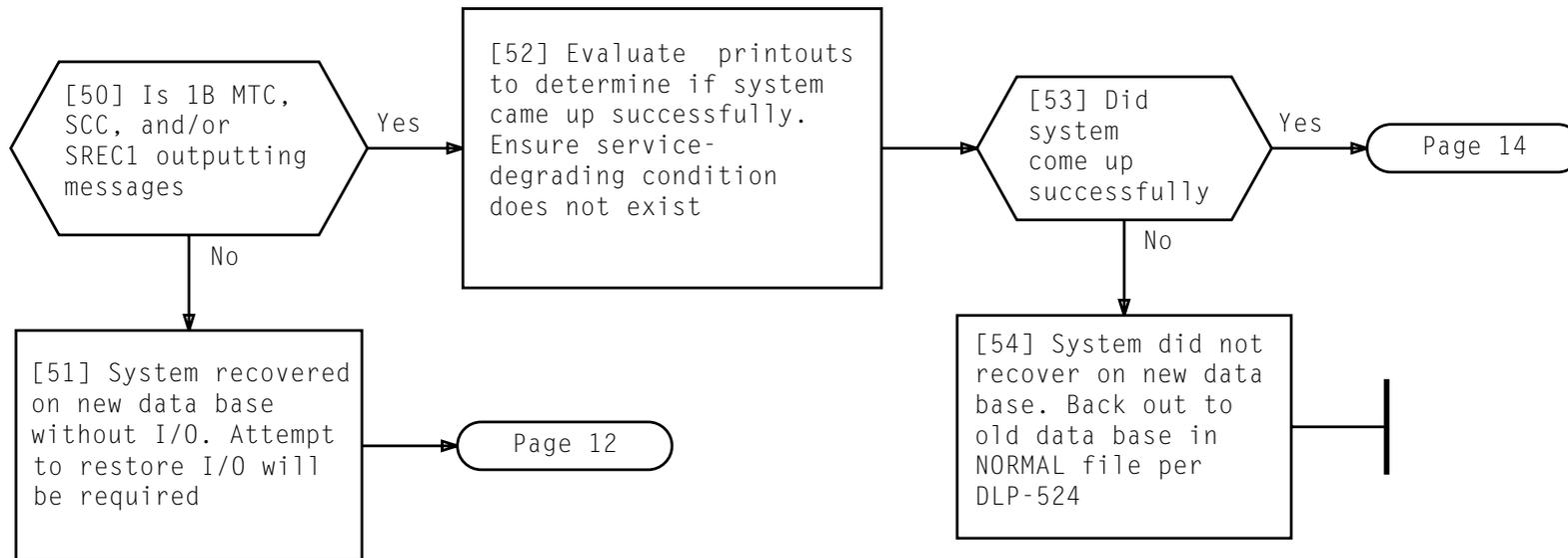
NOTES

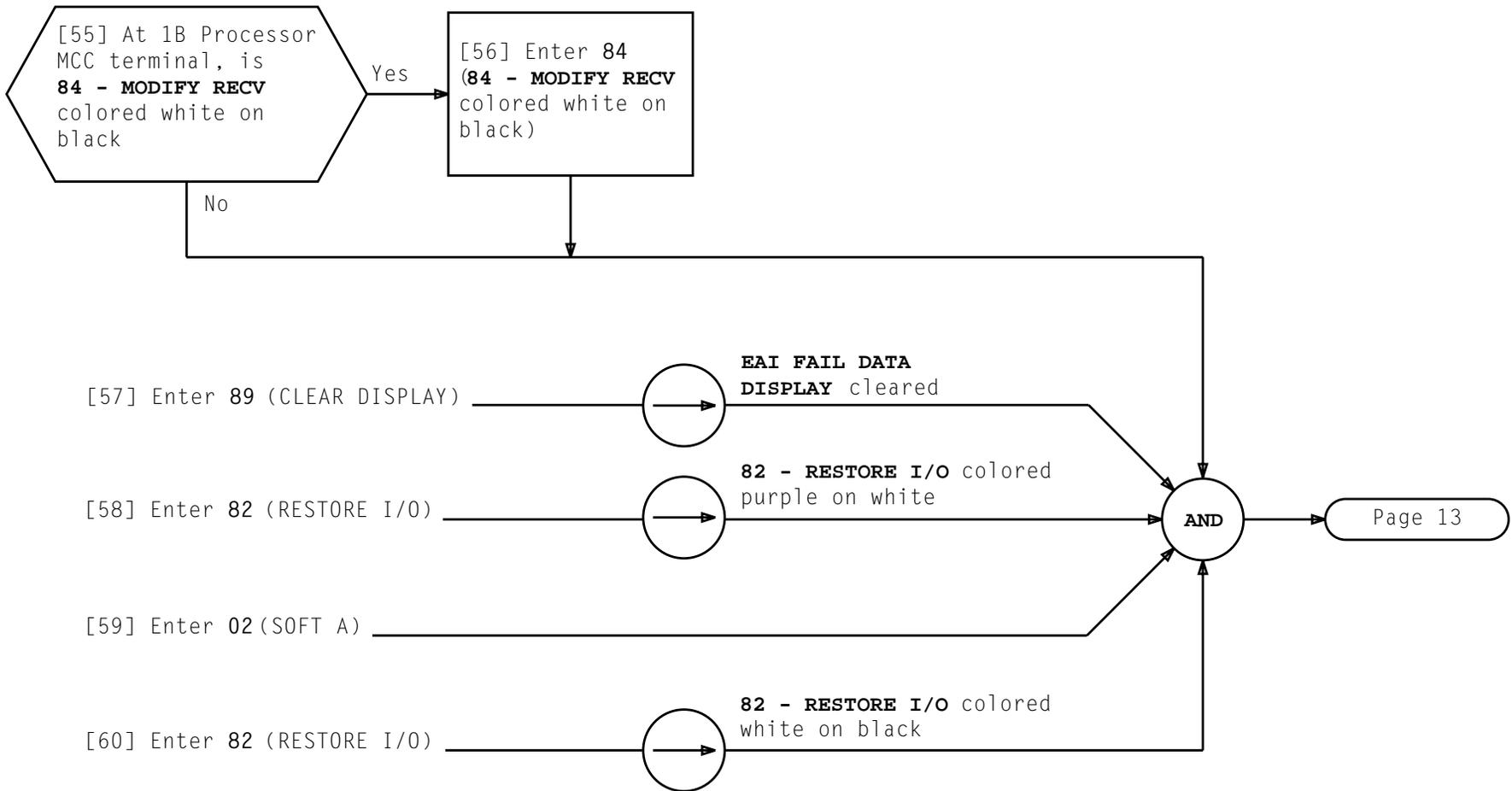
3. During Step 43, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 2] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbb"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

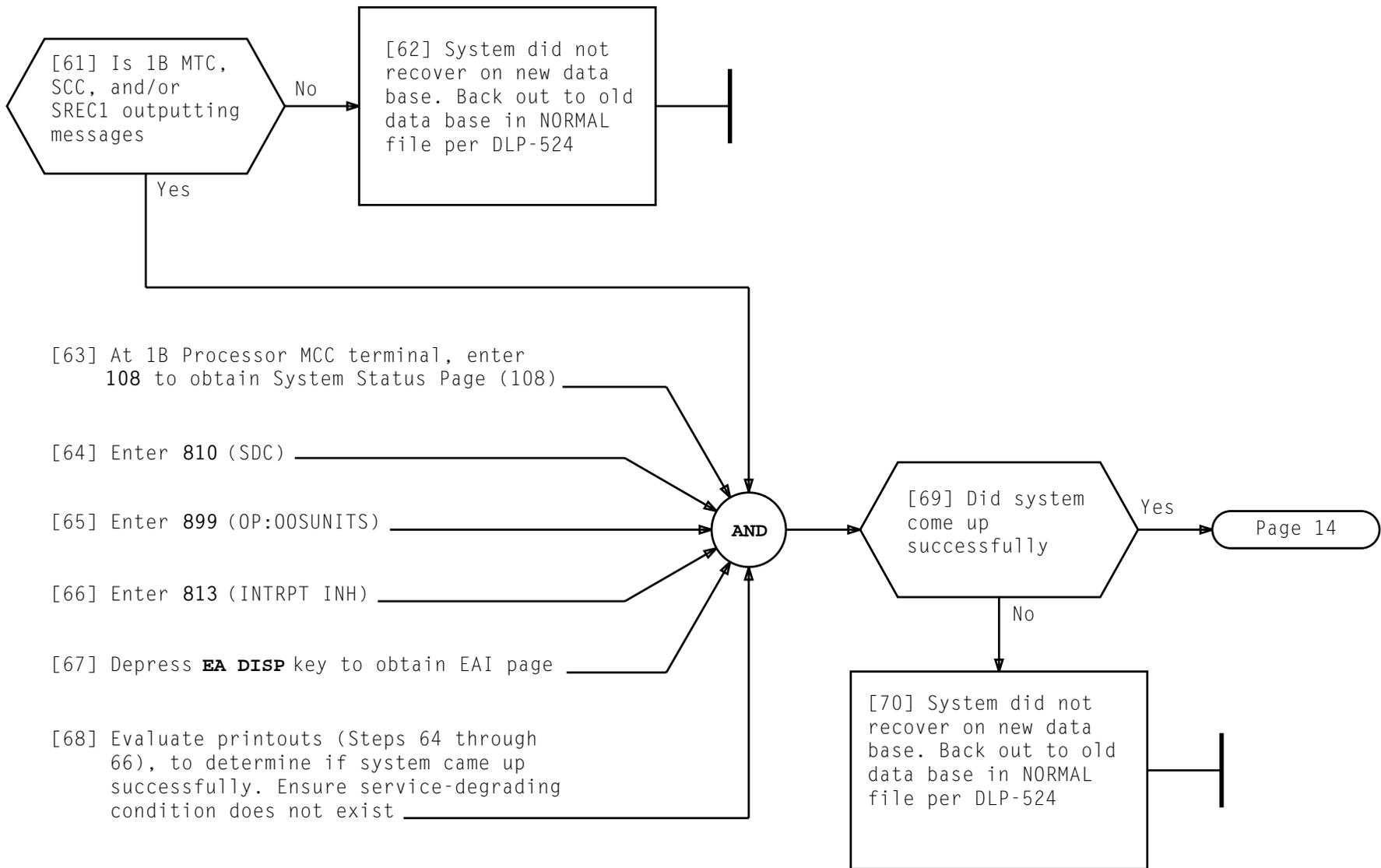
4. When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23).  
**53 - PHASE 3** colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL**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

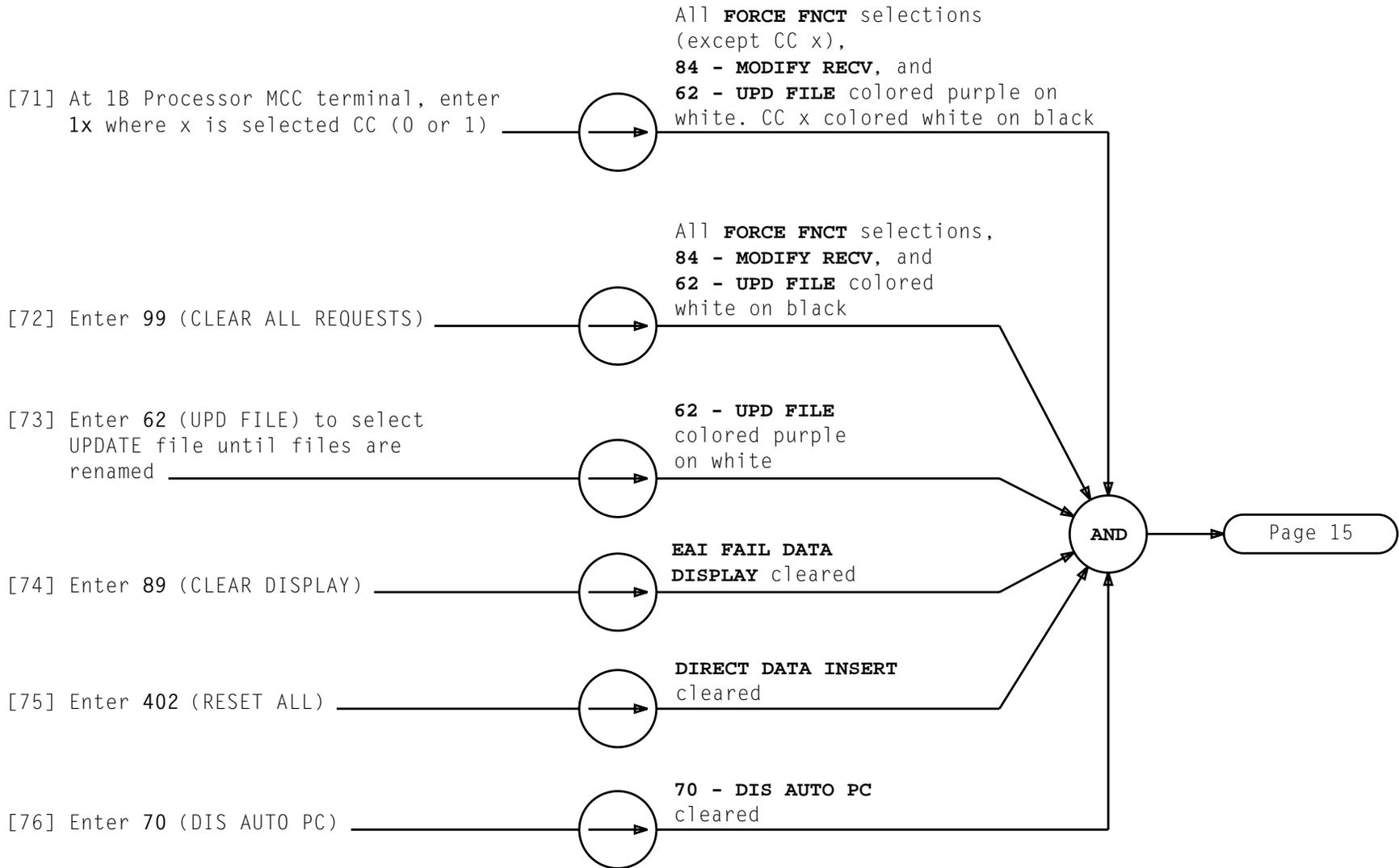
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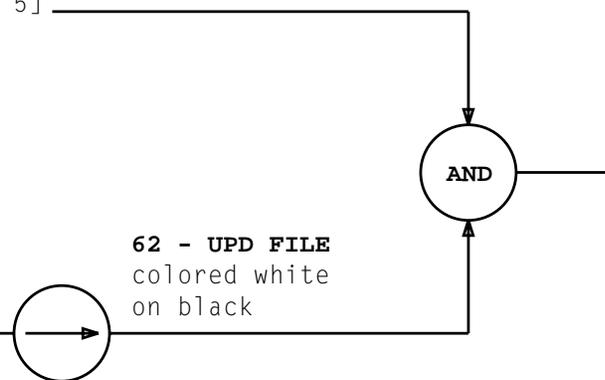


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[77] At 1B MTC terminal, enter message  
UPD:COMMIT;UPDFILE! to rename  
UPDATE file to NORMAL file [NOTE 5]

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



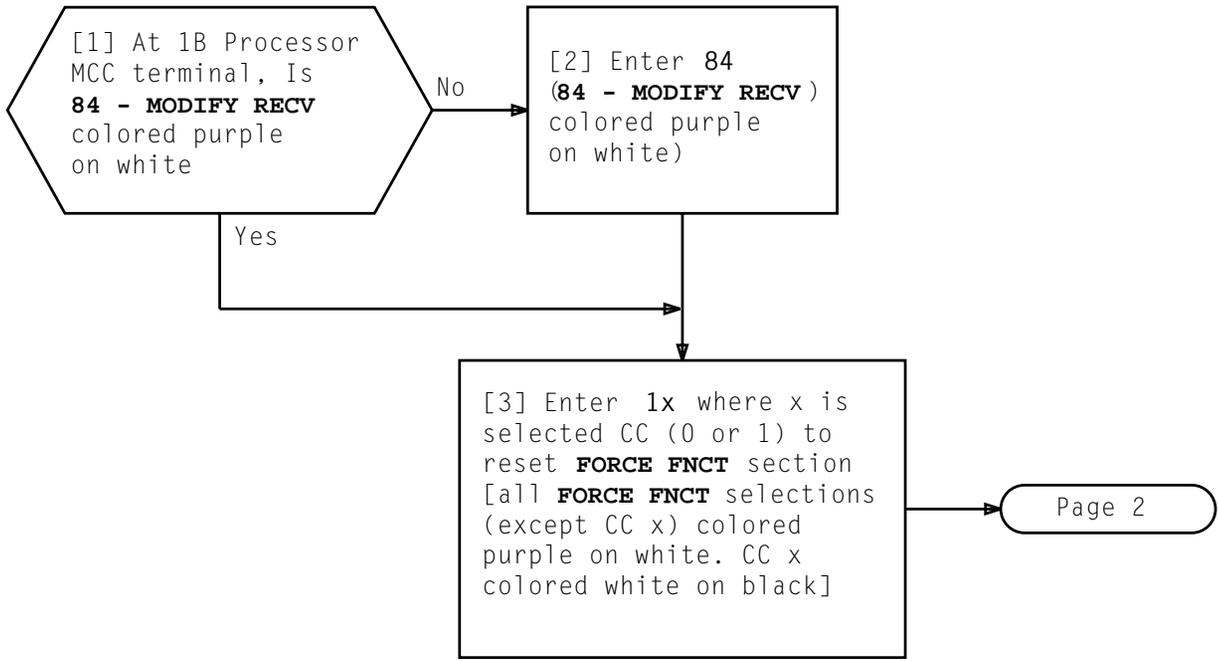
NOTE 5

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

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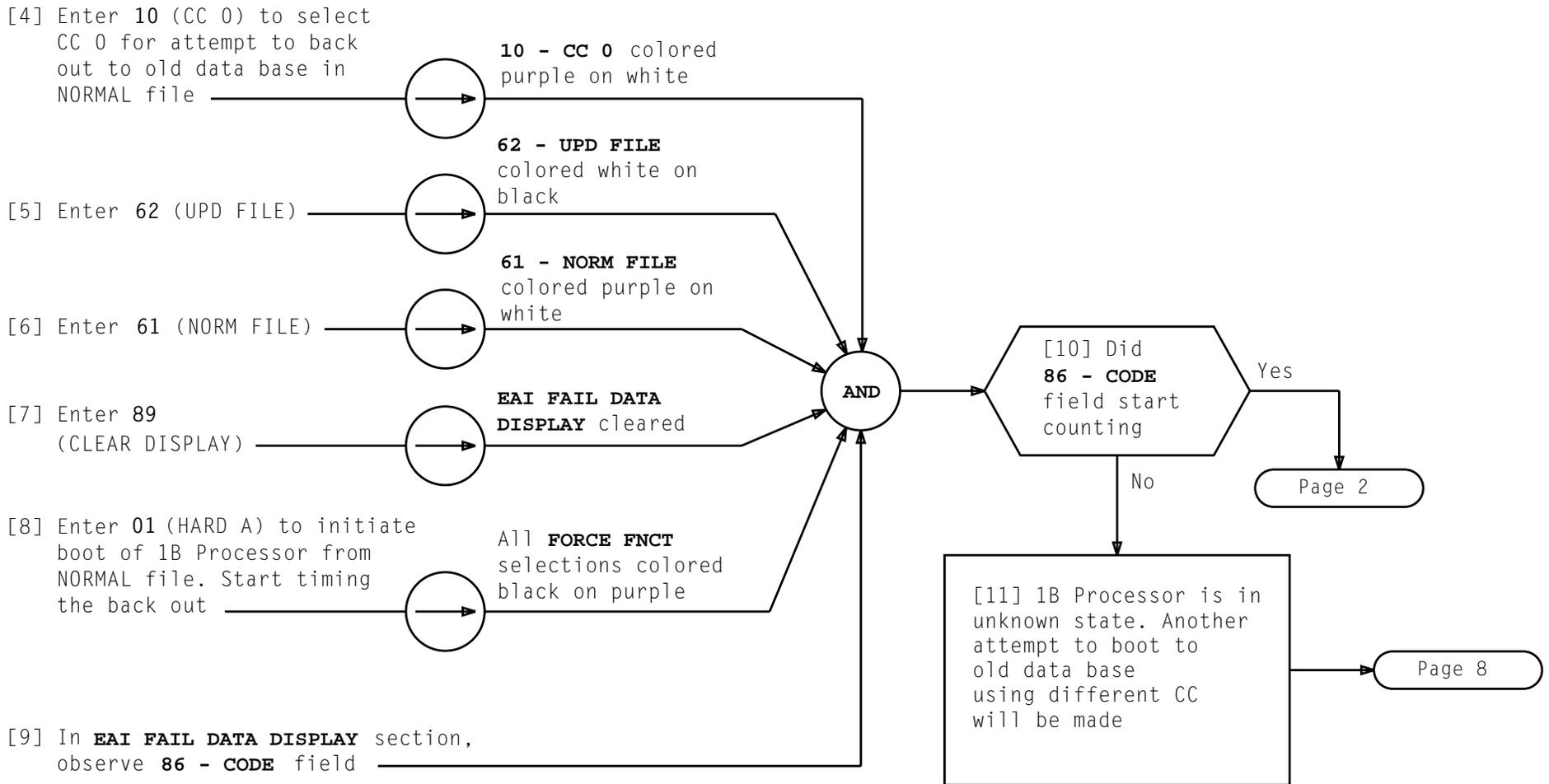
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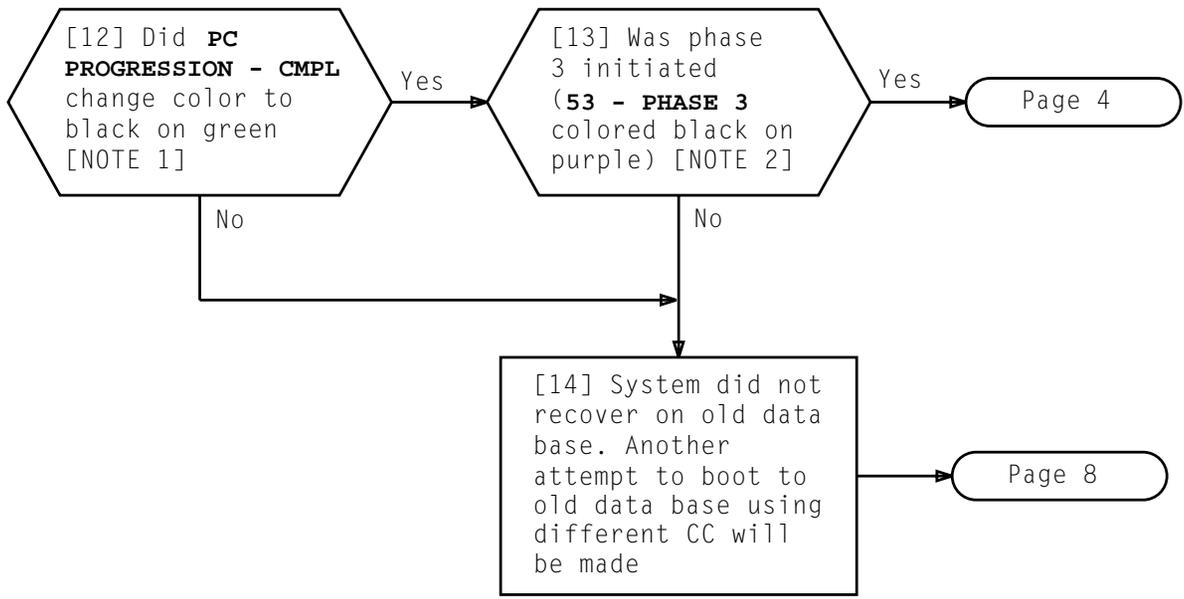
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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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:

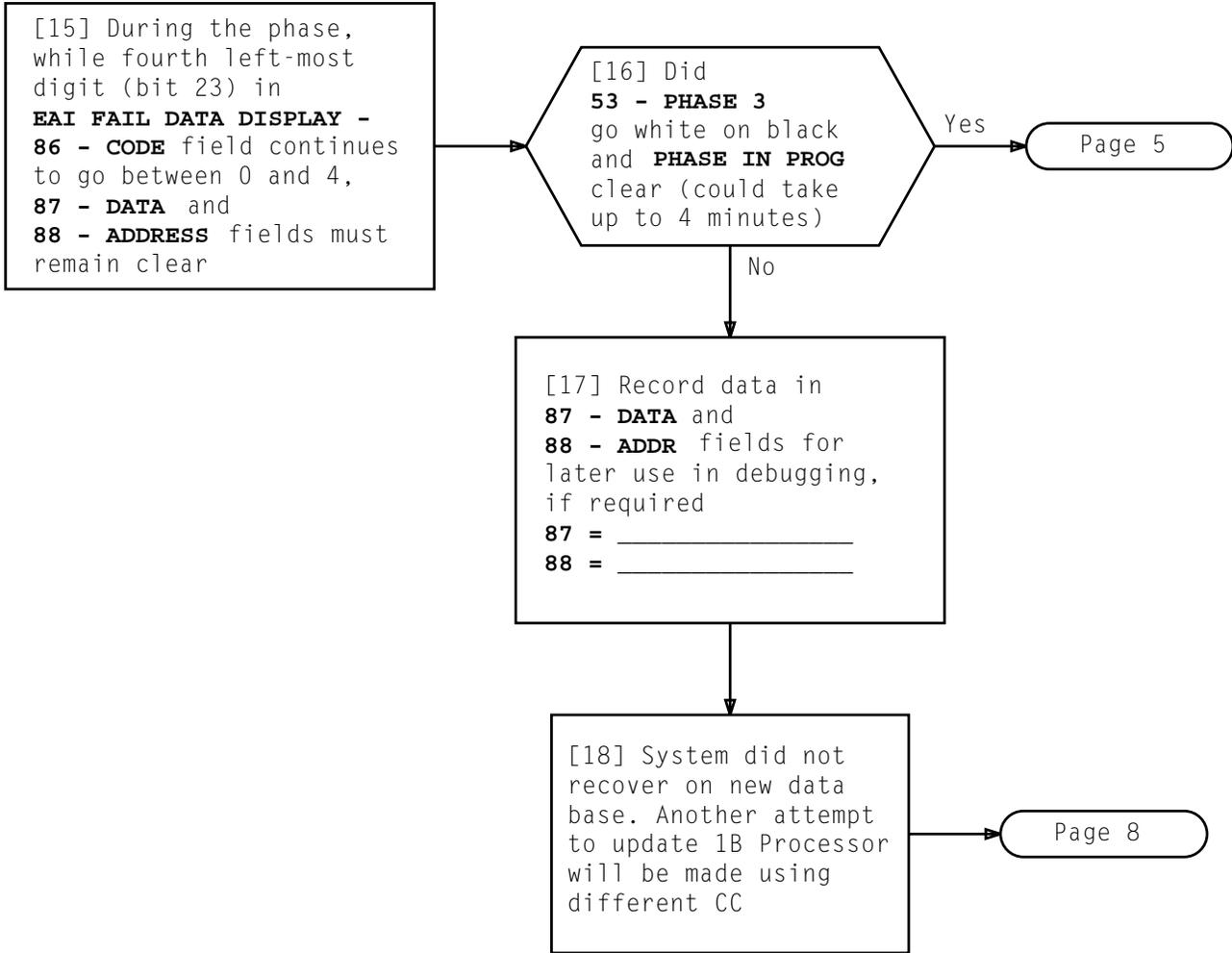
FIG. 1 - 86 - CODE Field Layout

NOTES

- 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
- 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

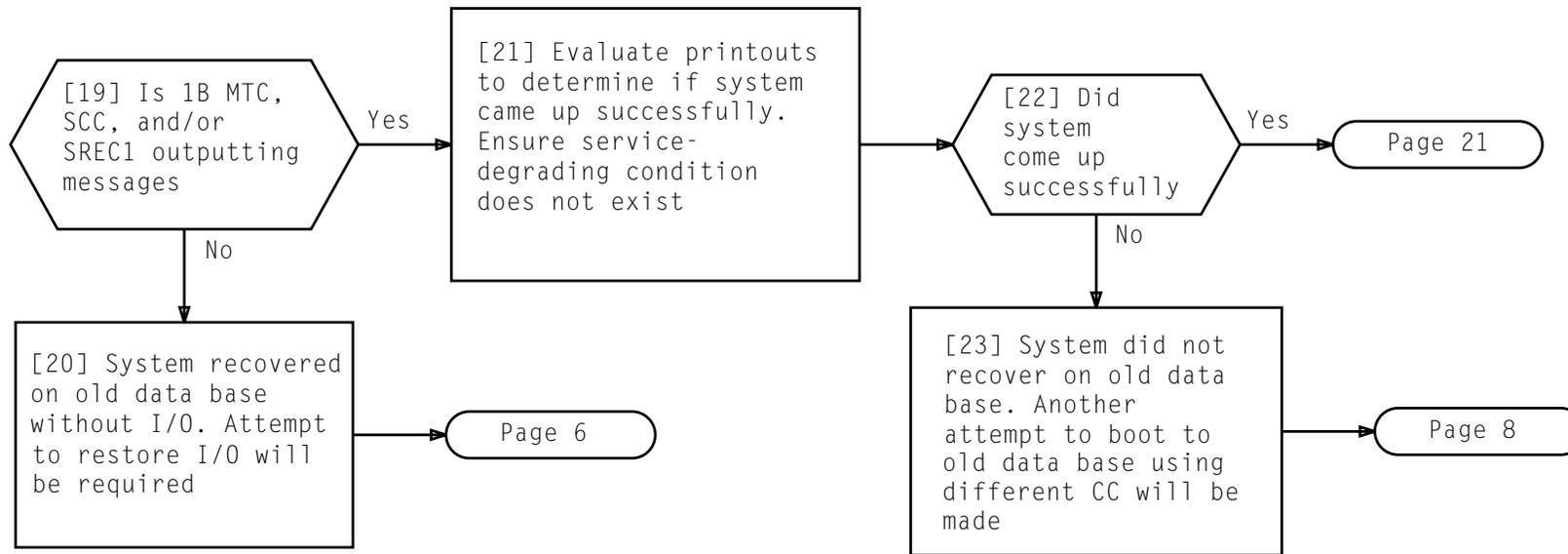
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BACK OUT TO OLD DATA BASE IN NORMAL FILE



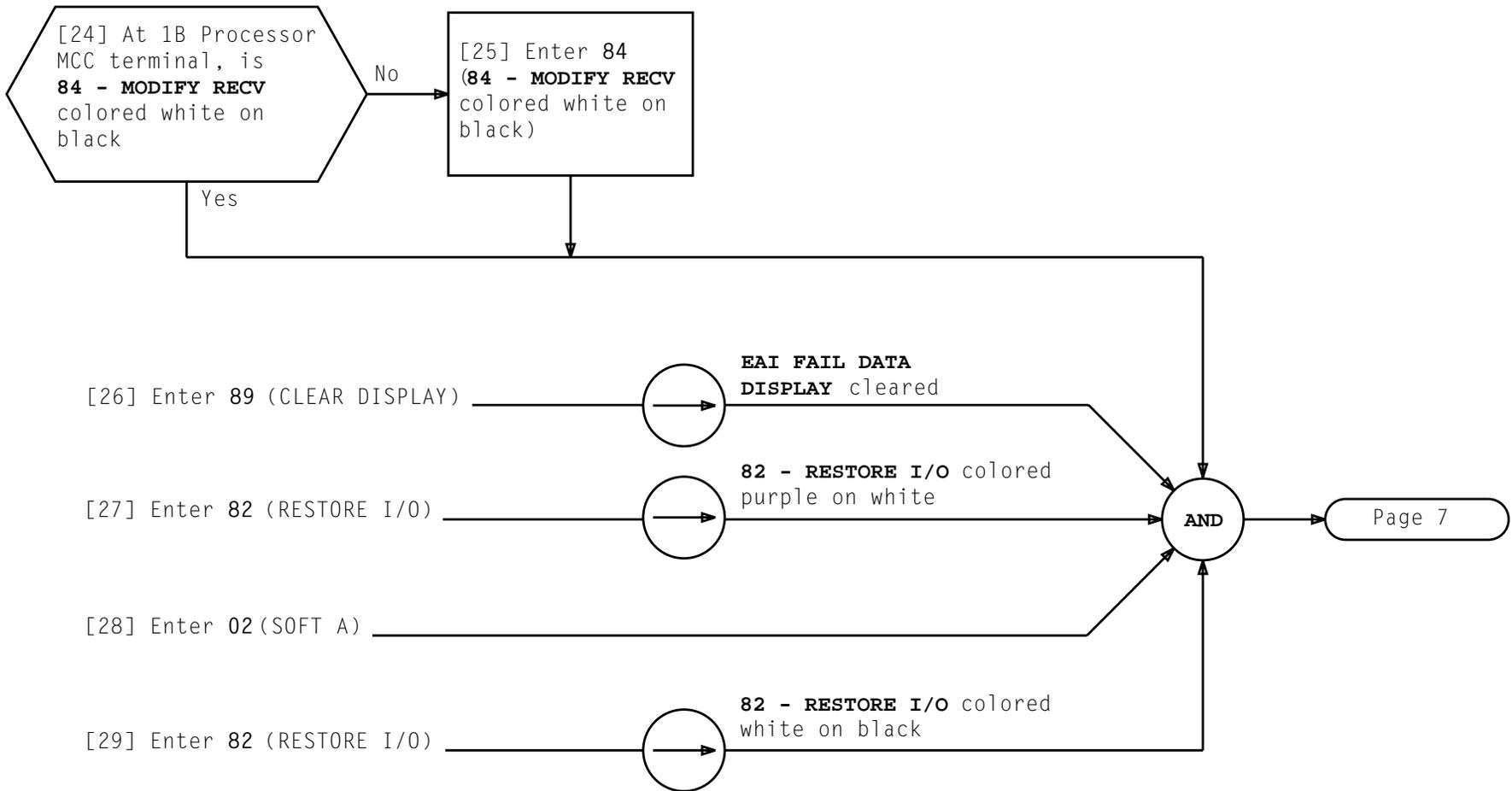
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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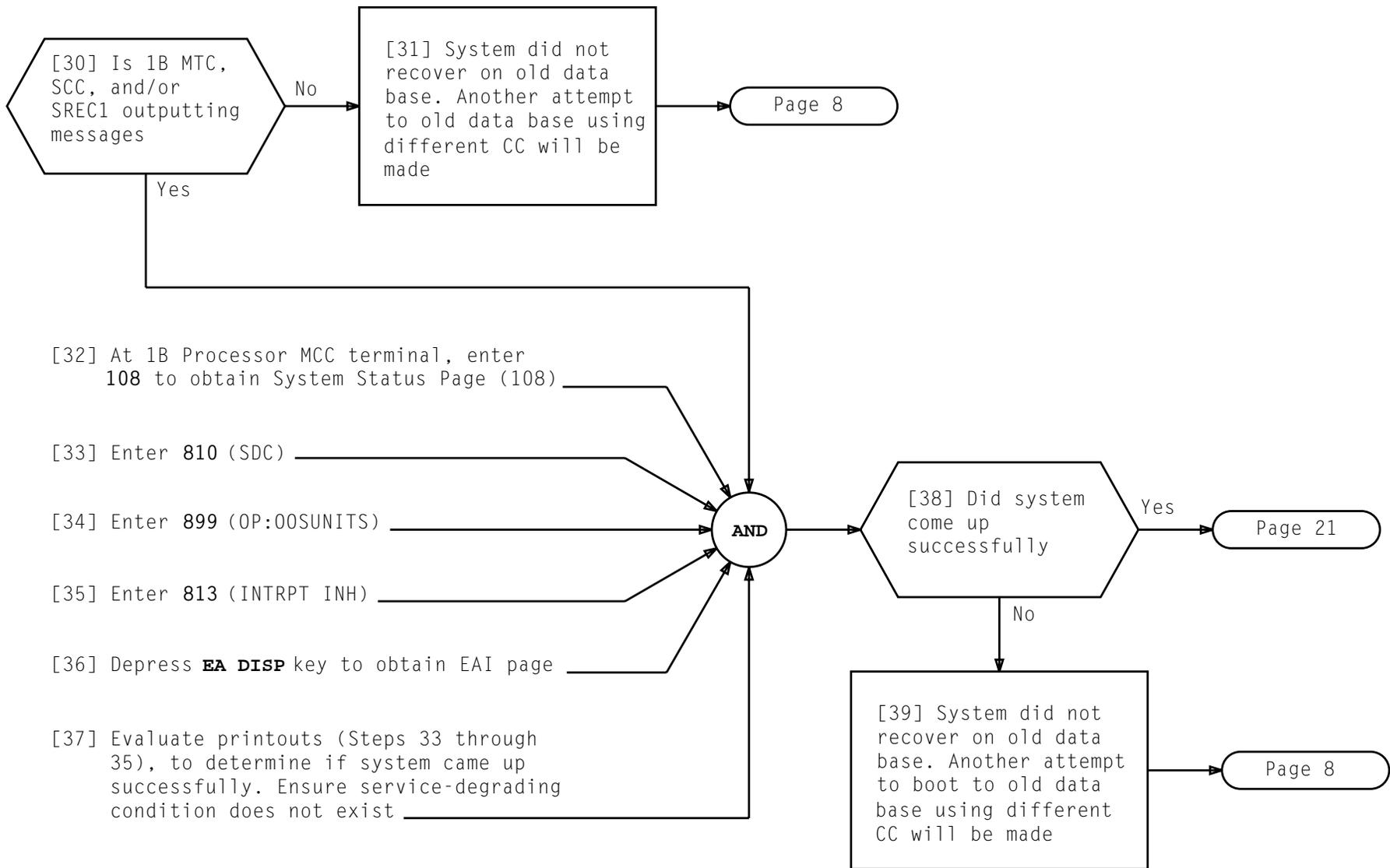
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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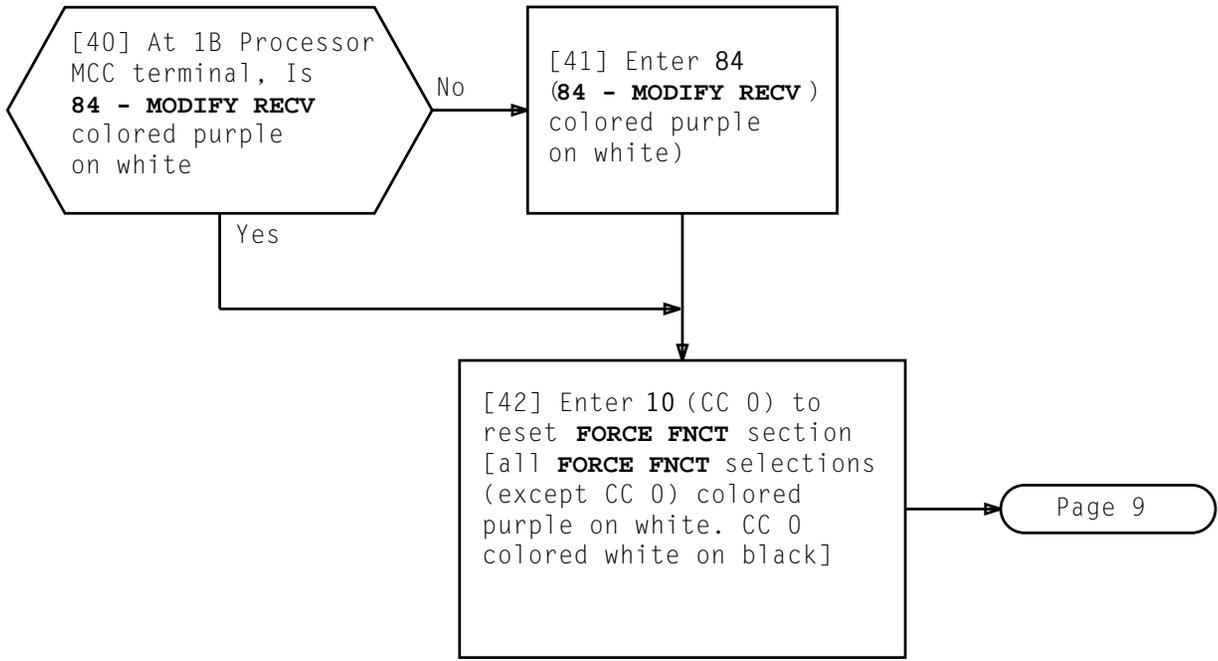
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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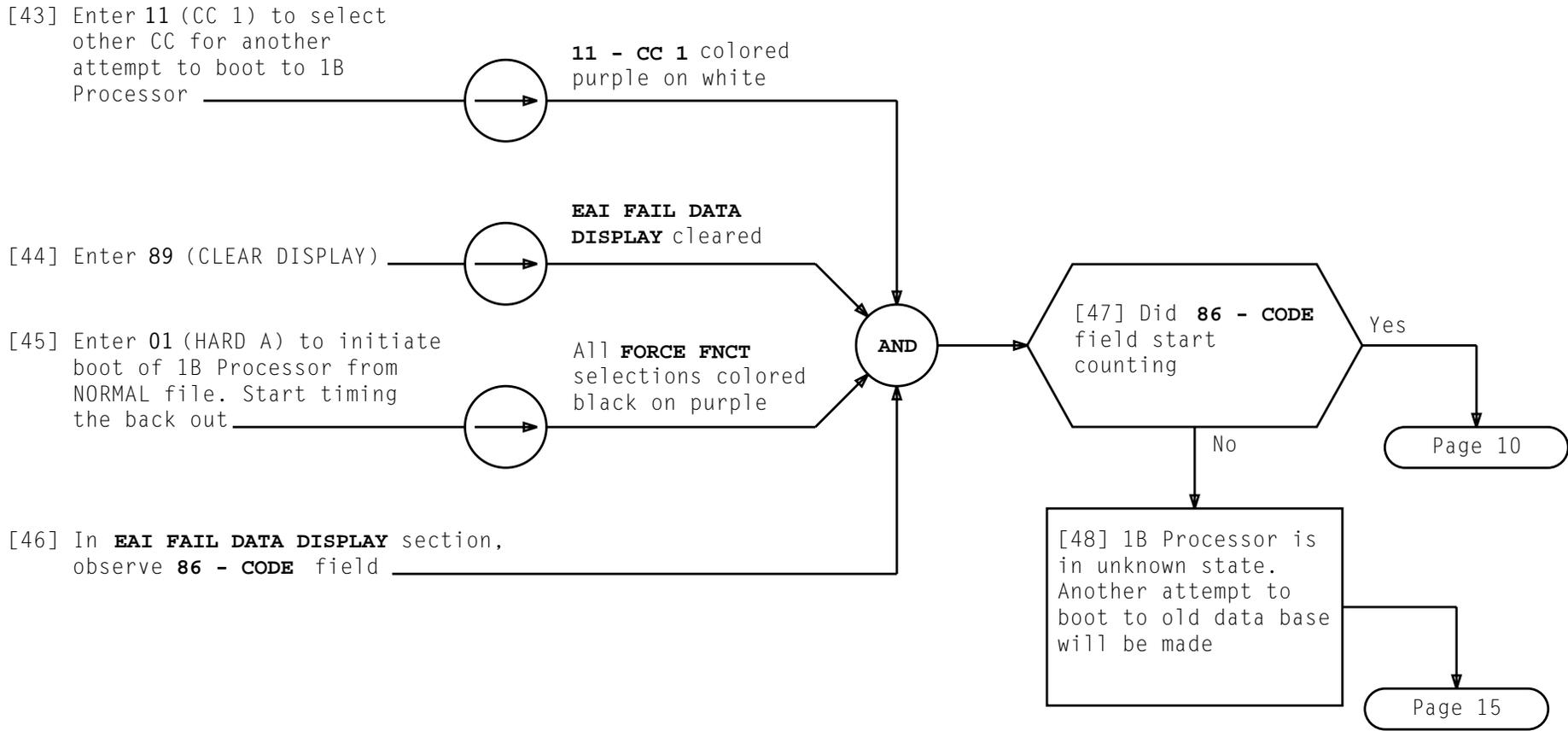
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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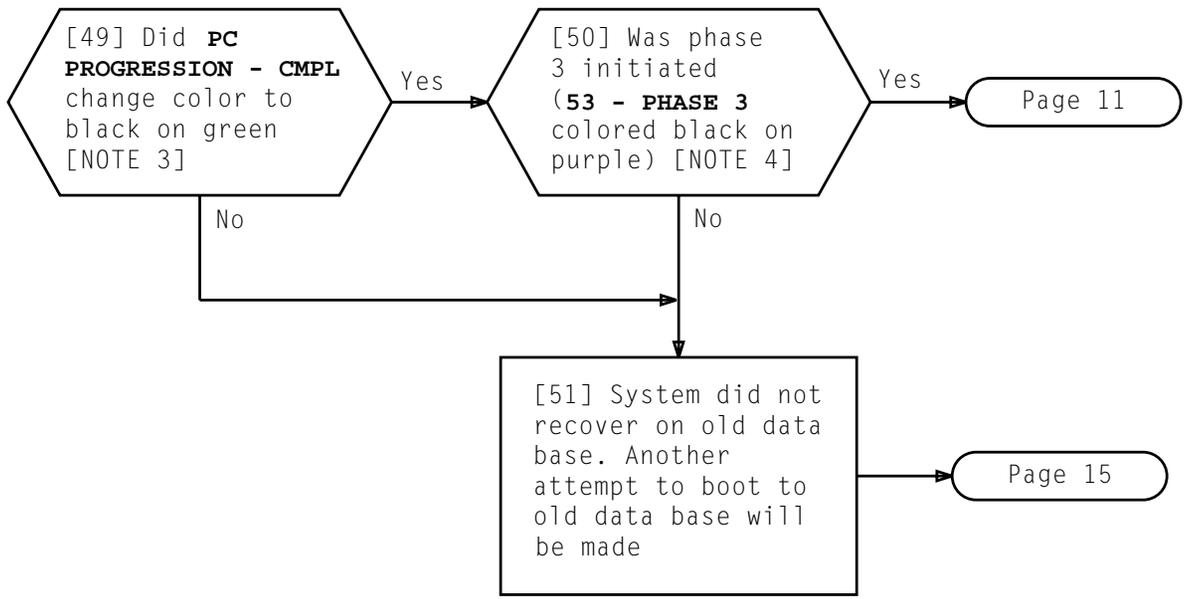
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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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

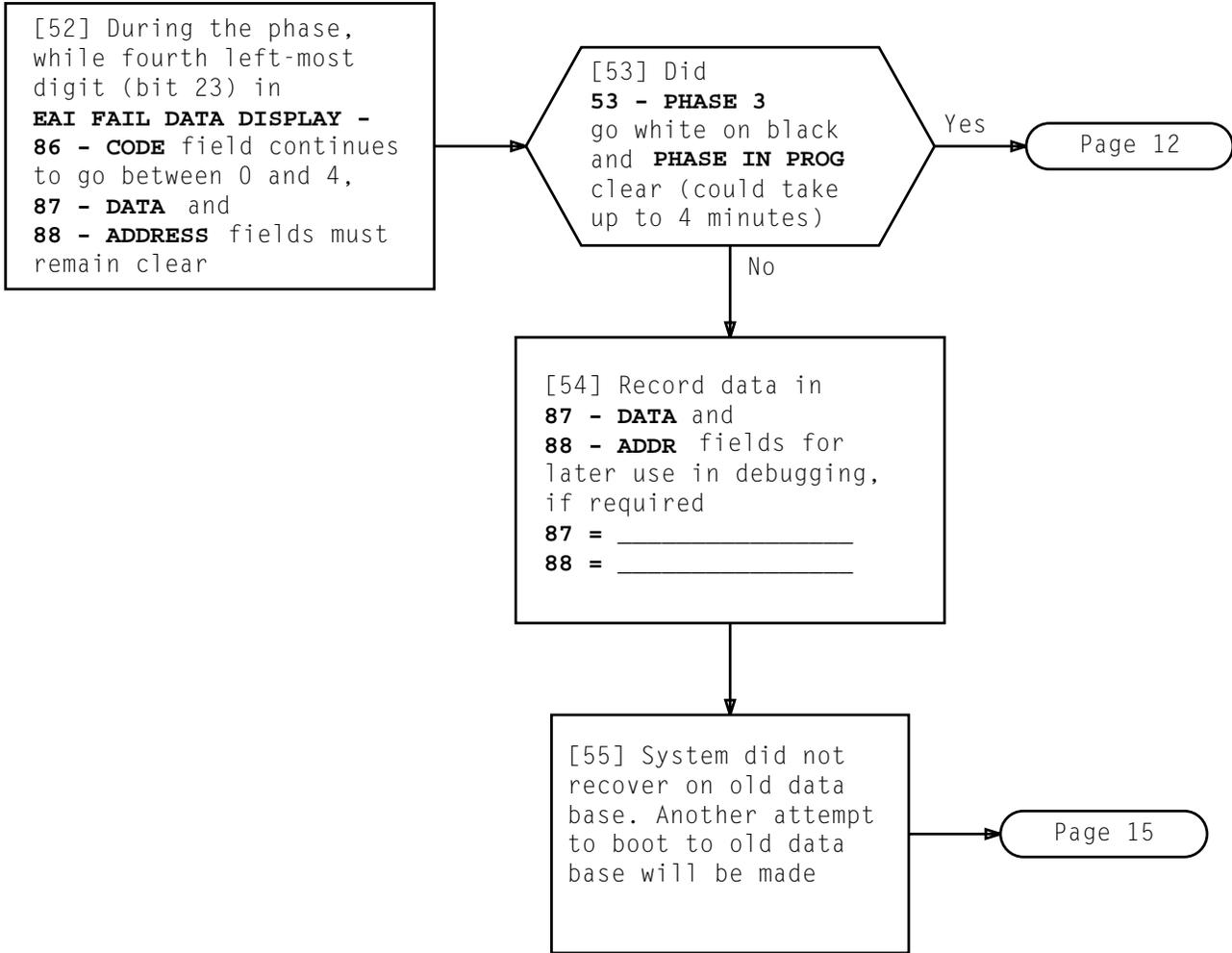
NOTES

3. 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

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

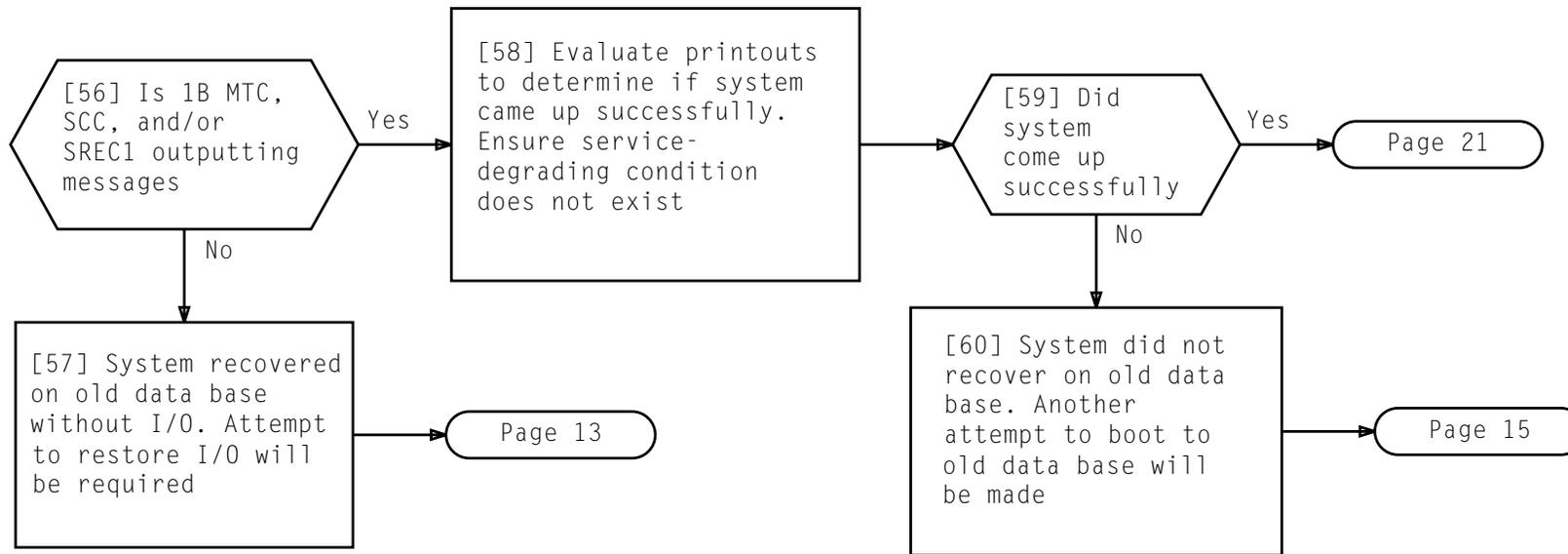
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BACK OUT TO OLD DATA BASE IN NORMAL FILE



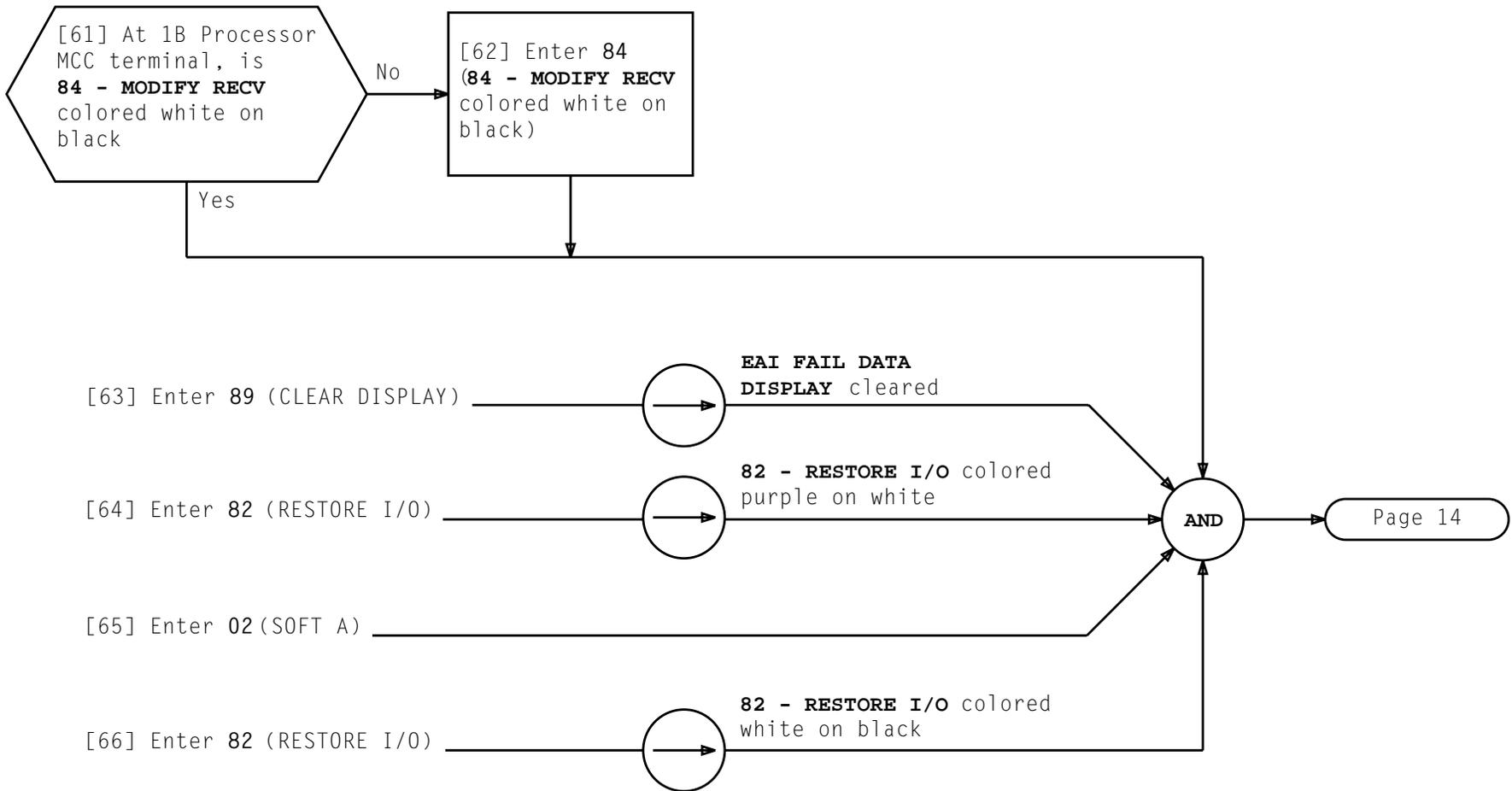
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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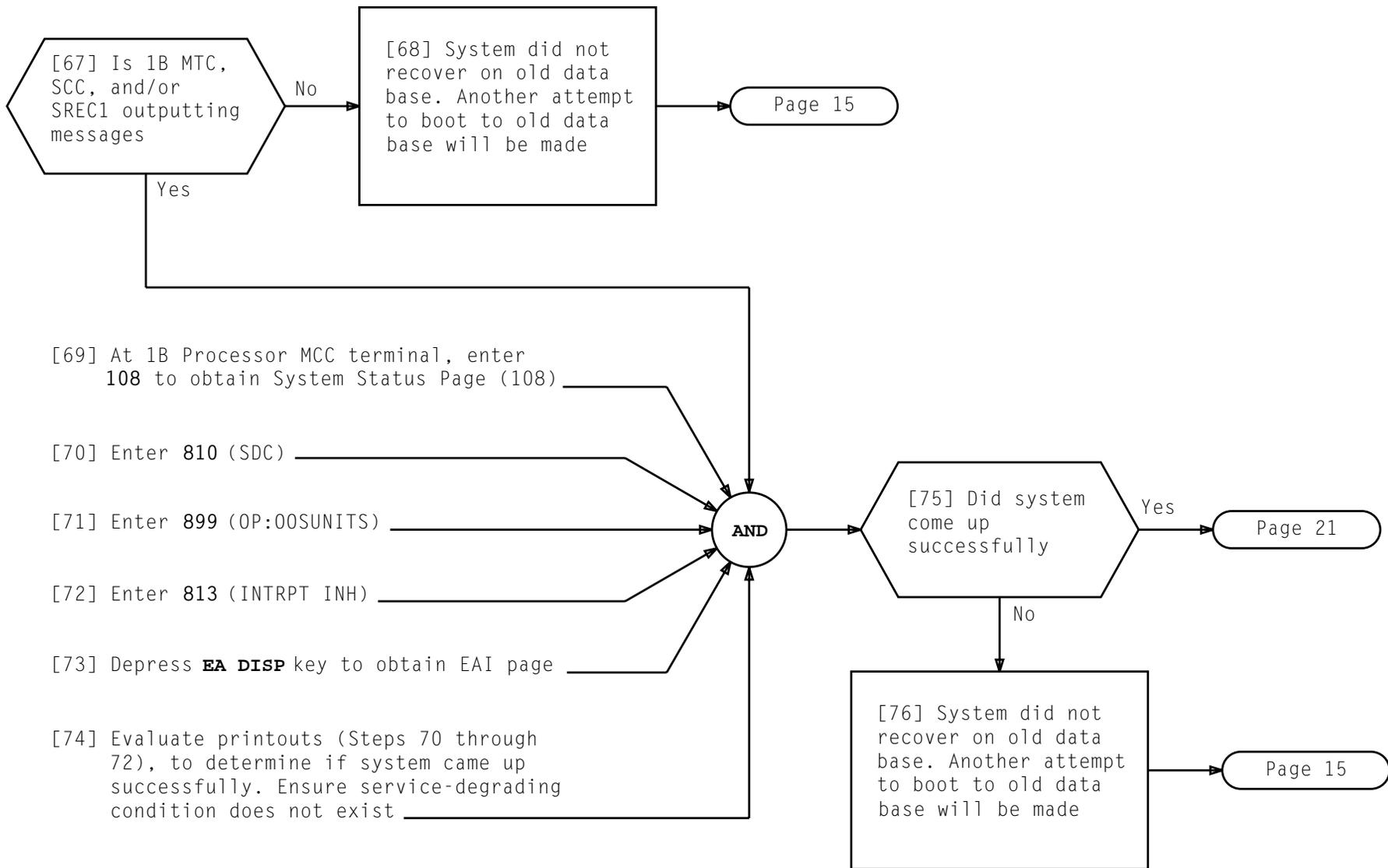
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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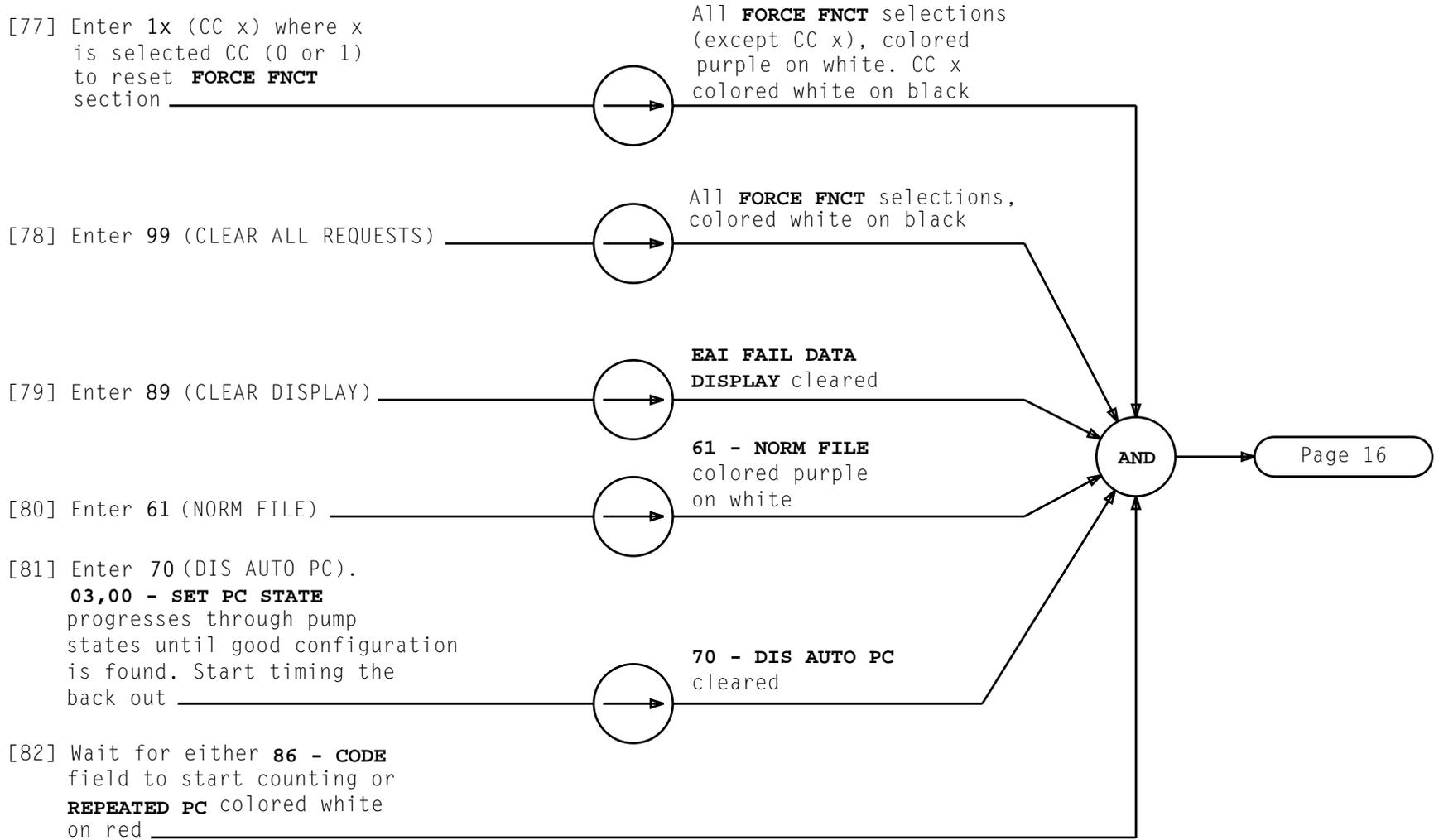
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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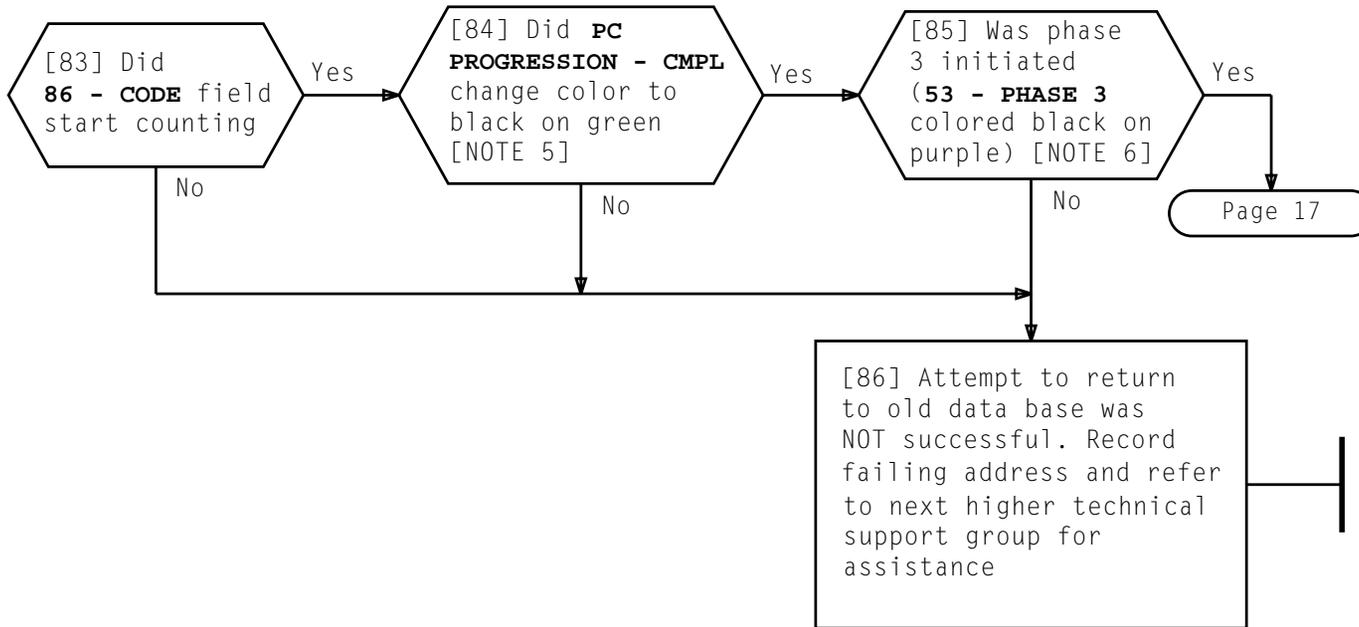
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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

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

FIG. 3 - 86 - CODE Field Layout

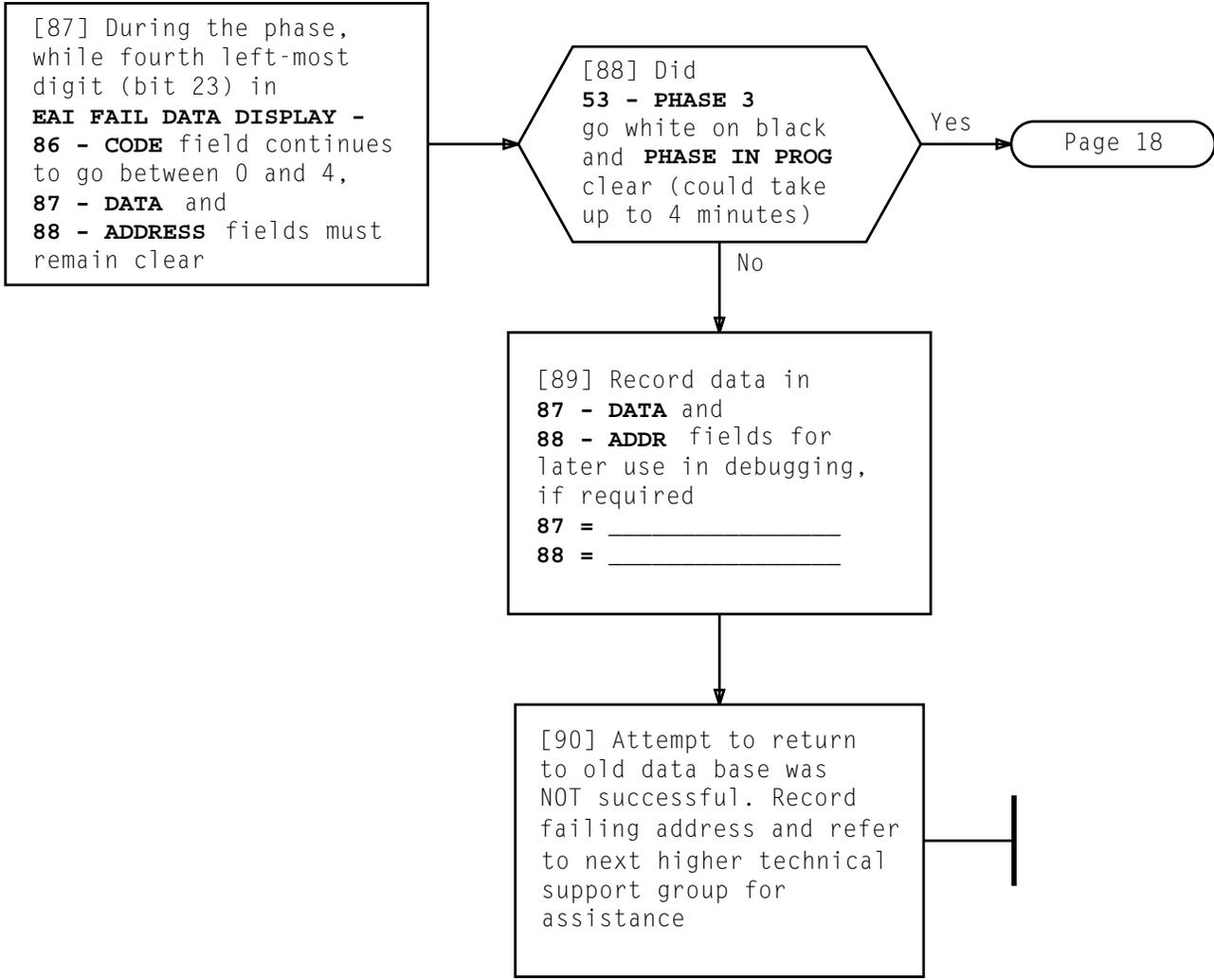
NOTES

5. 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

6. 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

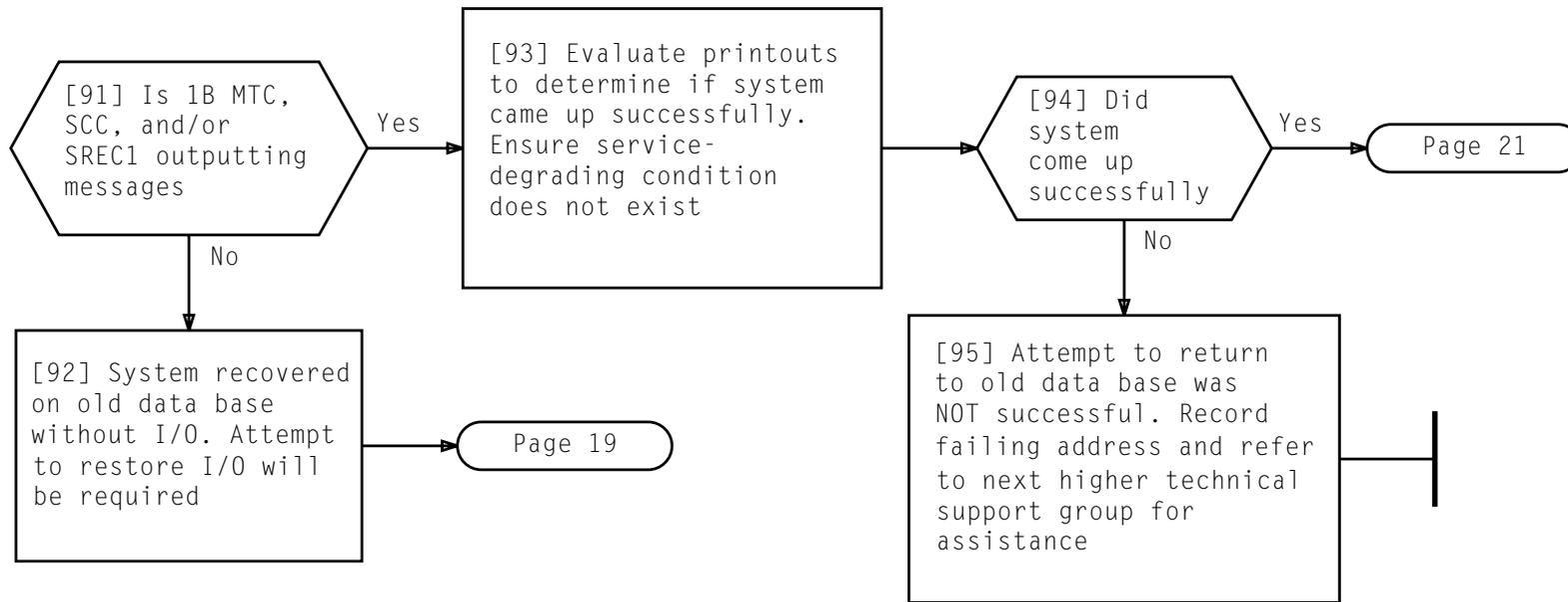
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BACK OUT TO OLD DATA BASE IN NORMAL FILE



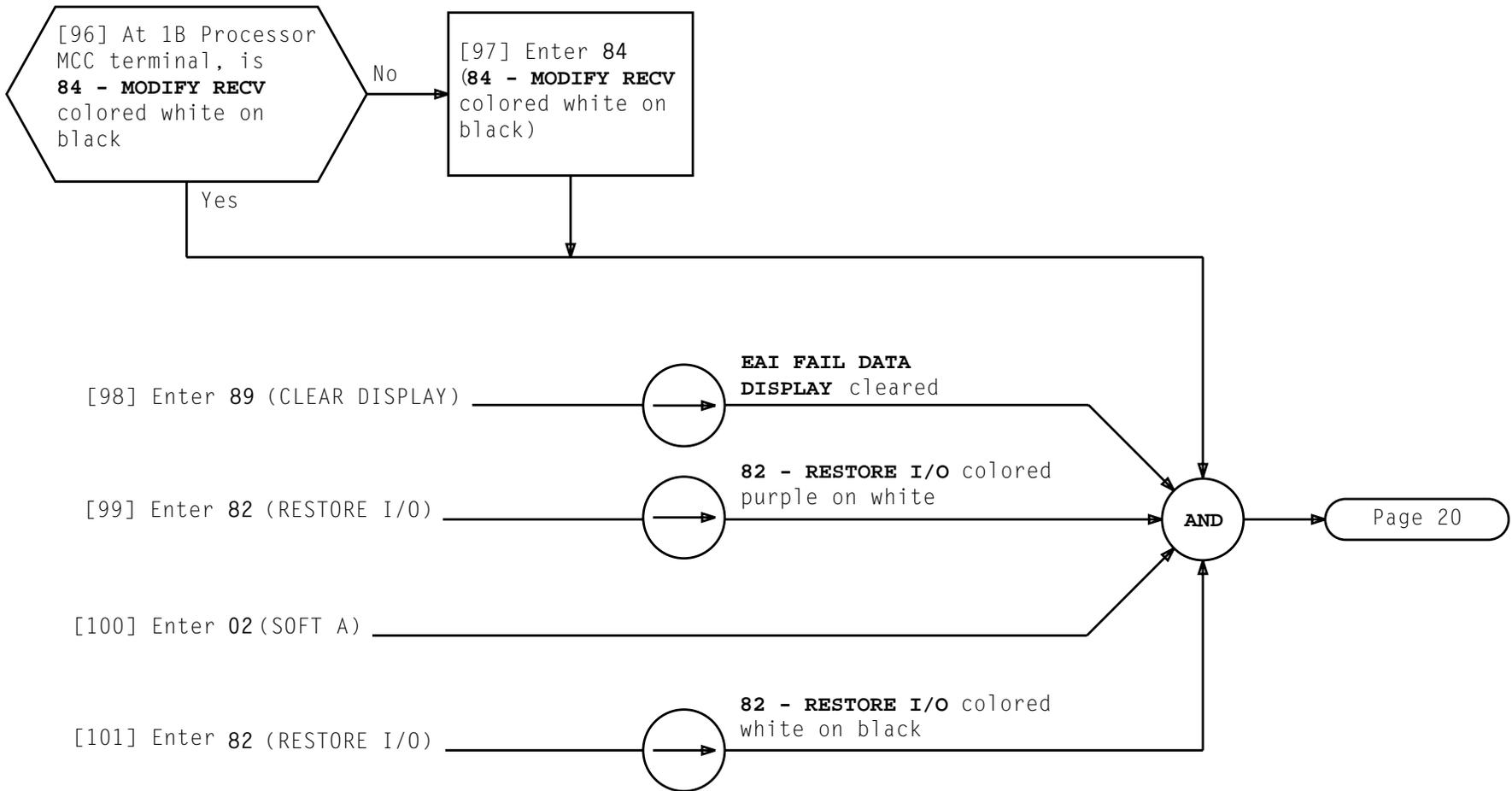
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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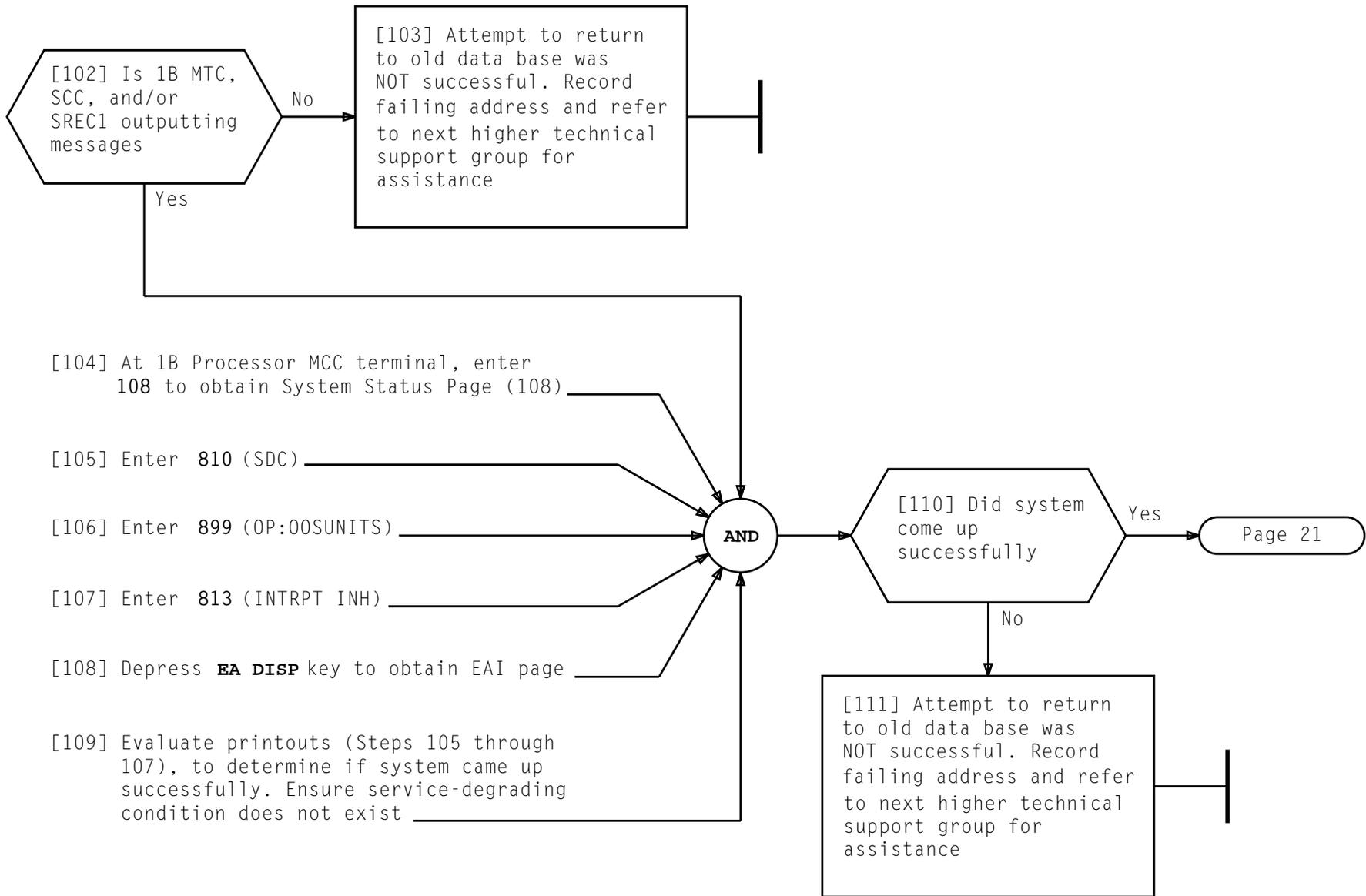
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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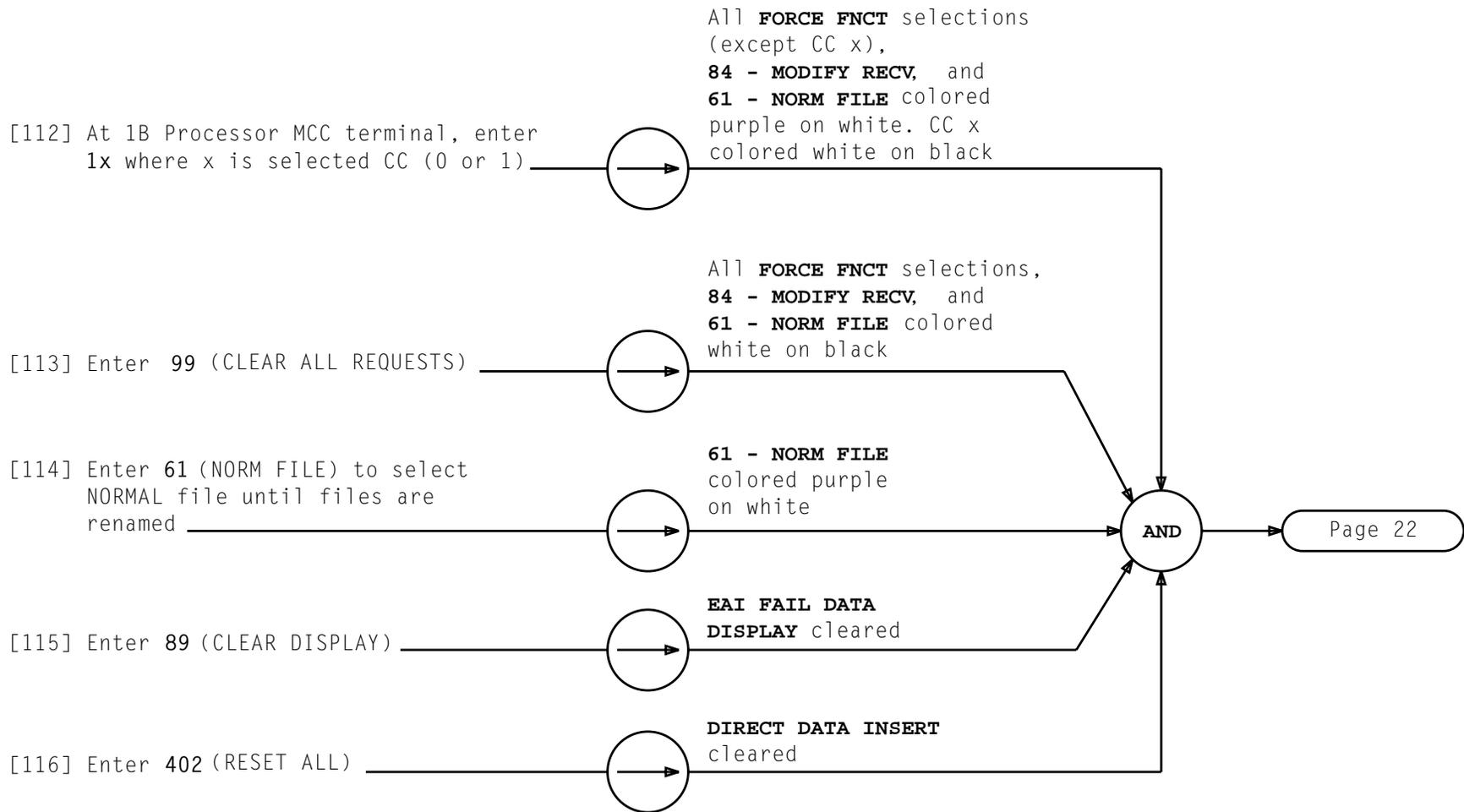
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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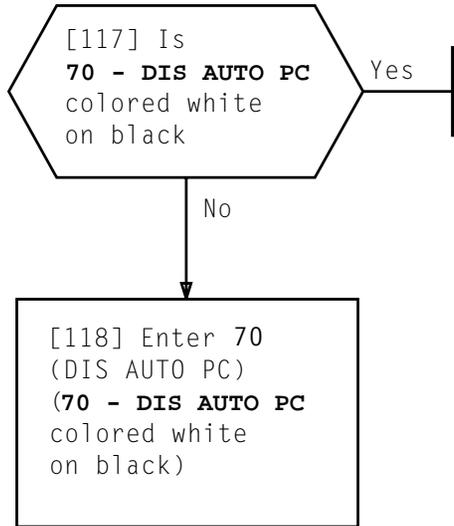
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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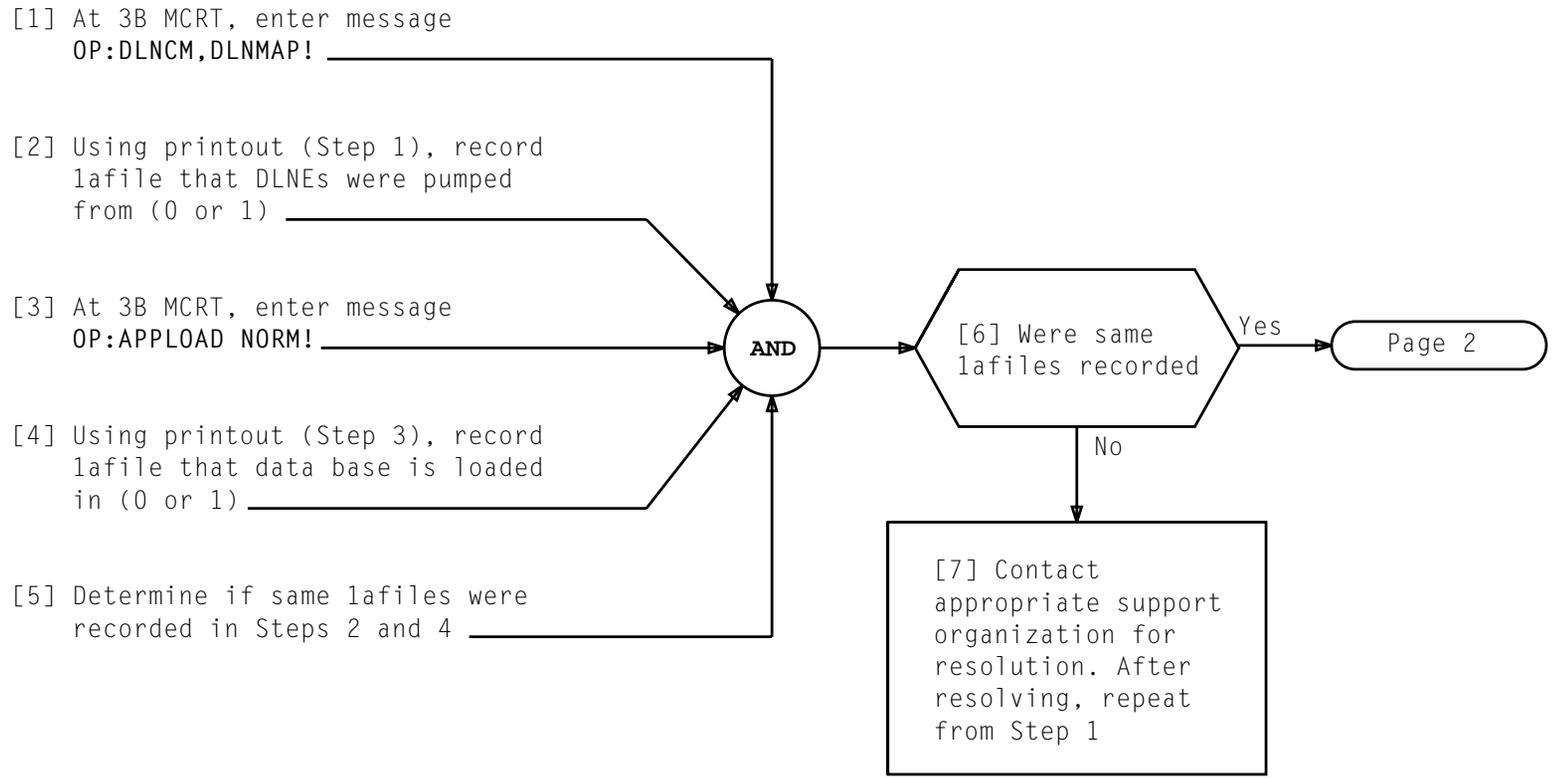
**BACK OUT TO OLD DATA BASE IN NORMAL FILE**

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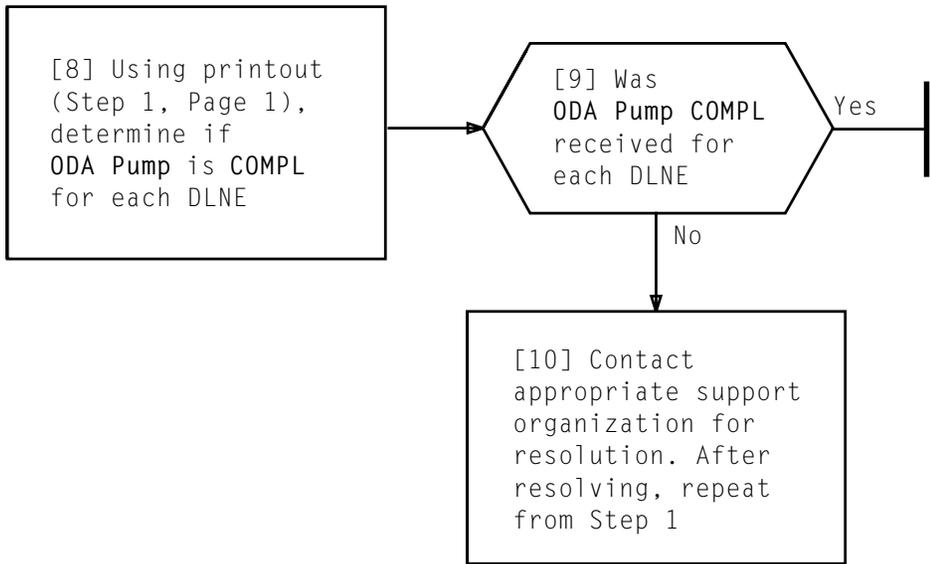
BACK OUT TO OLD DATA BASE IN NORMAL FILE

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**VERIFY DLNEs PUMPED FROM PROPER 1AFILE**

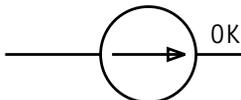
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**VERIFY DLNES PUMPED FROM PROPER 1AFILE**

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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

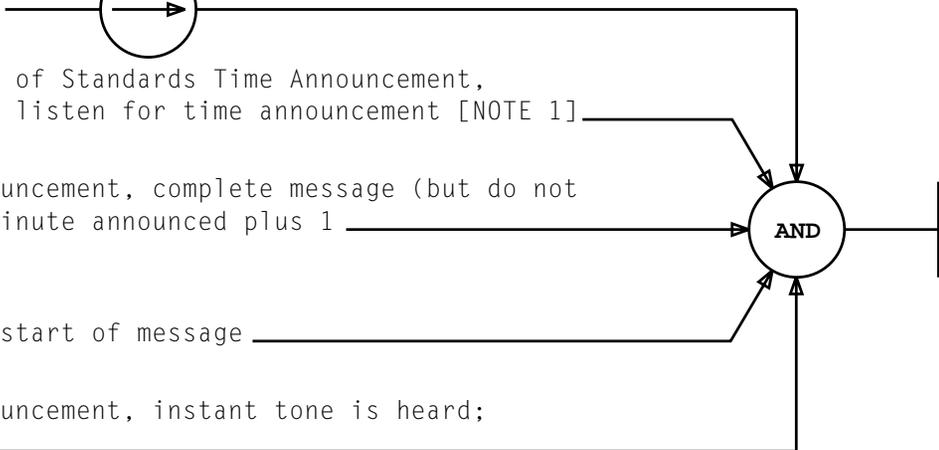


[2] Call U. S. Bureau of Standards Time Announcement,  
 303-499-7111, and listen for time announcement [NOTE 1]

[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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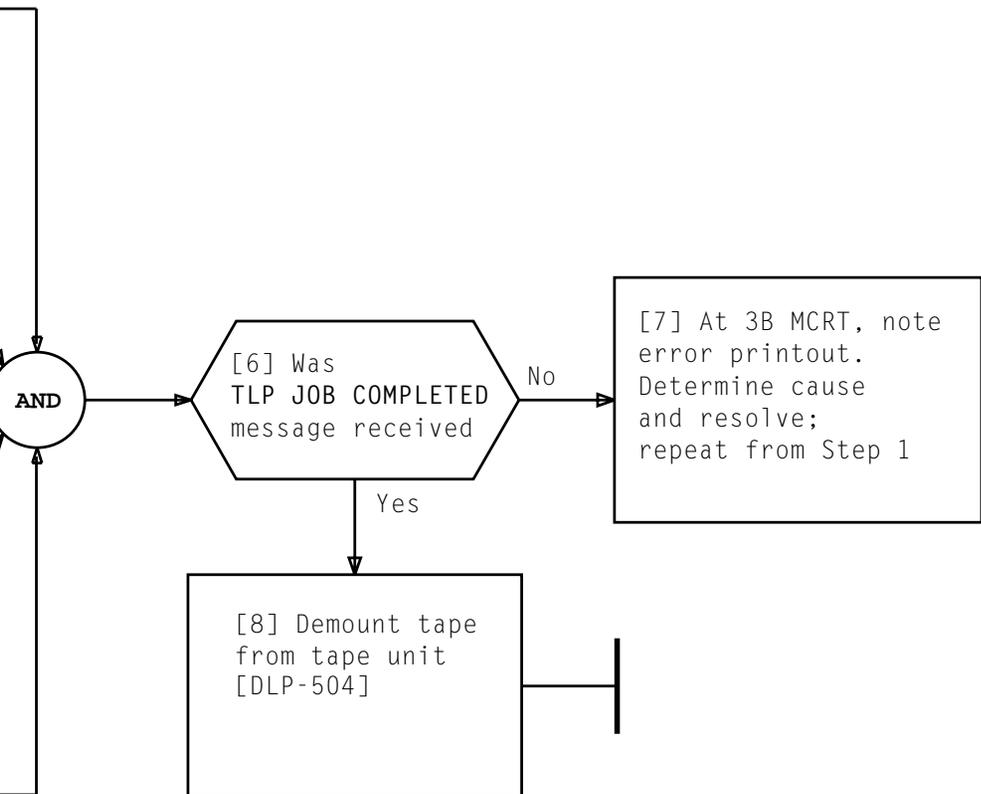
[1] If tape is mounted on  
idle tape unit, demount  
tape [DLP-504]

[2] Mount TLP tape on  
tape unit [DLP-501]

[3] At 3B MCRT, enter message  
**VER:UPDATE:TAPE,MT a!**  
a = Tape unit number with  
tape being verified

[4] Using printout and FIG. 1, record  
Generic Identification number

[5] See CAUTION 1. At 3B MCRT,  
enter message  
**LOAD:TLP;GEN "a";MT b!**  
a = Generic Identification number (Step 4)  
b = Tape unit number



TAPE TYPE: TLP

GENERIC (4E<22>5A.01 R1) ← Record This Value

MOST RECENT OFL GENERATION: YR 96,MON 10,DAY 04 AT 11:28

THIS TAPE WRITTEN: YR 96,MON 11,DAY 04 AT 17:19

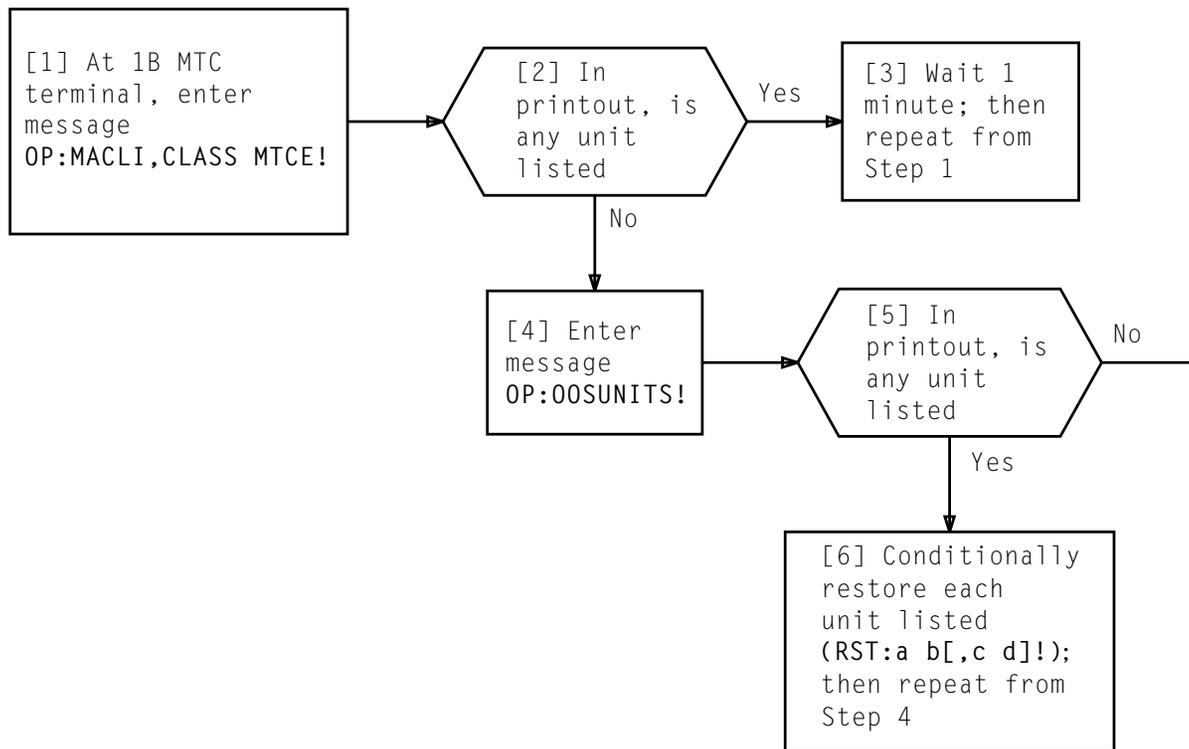
FS IDS: 0000000000000010,TAPE IDS: 0000000011111111

PARTL UPD FLG: 0,PHASE REQD: 0001000

FIG. 1 - Sample TLP Tape Header Printout

**CAUTION 1**  
Tape unit door  
must not be  
opened while TLP  
tape is being  
loaded

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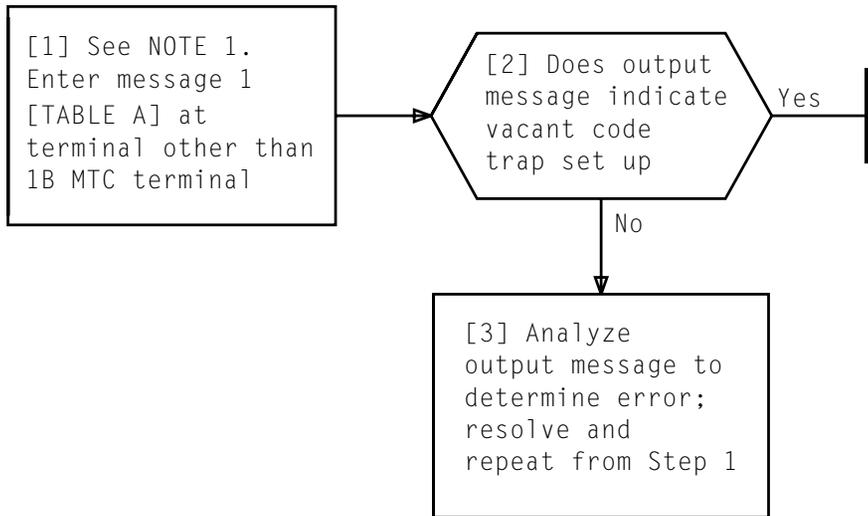
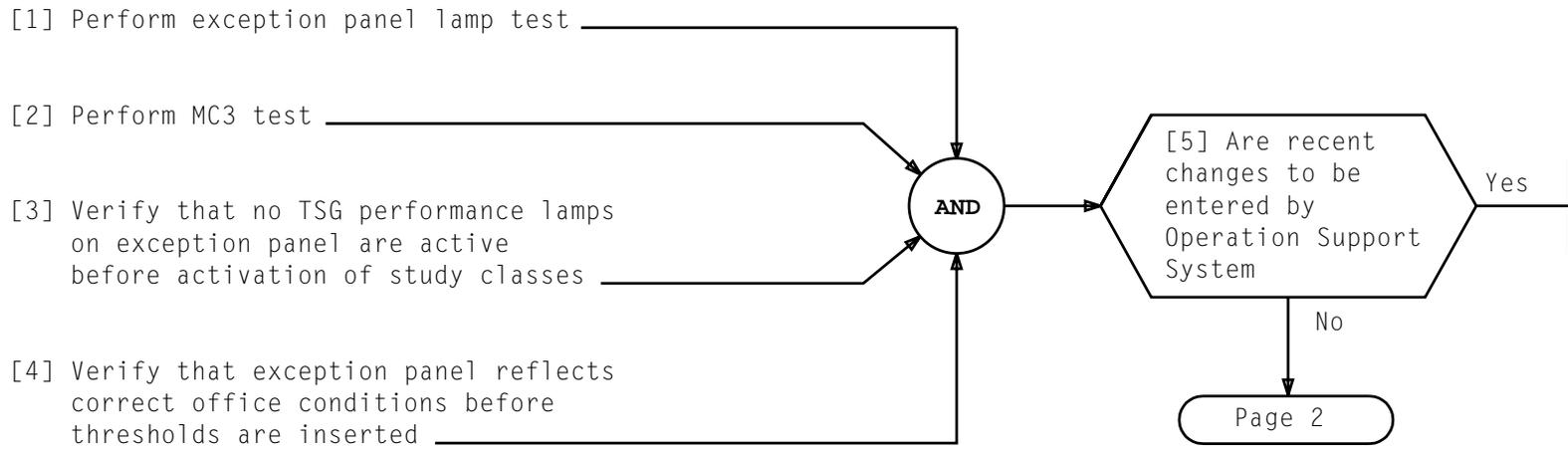
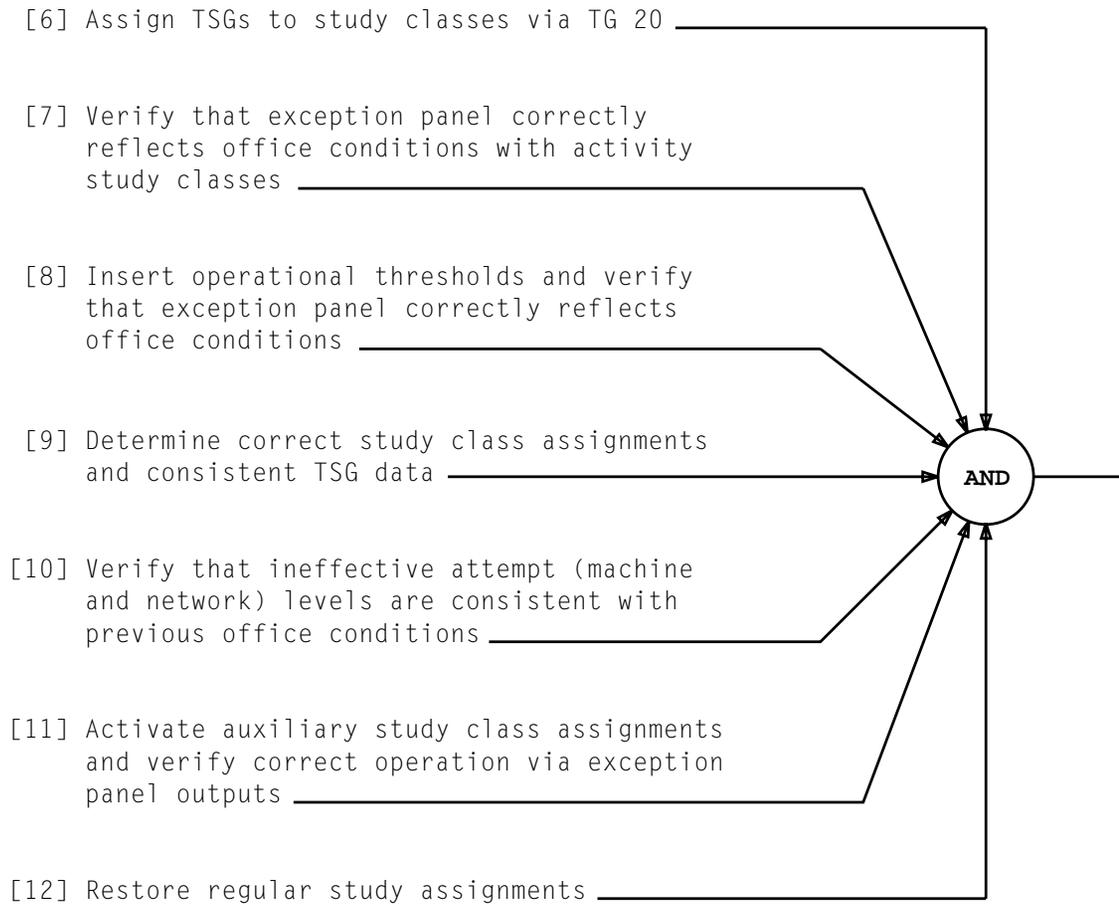


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	MON:IAOFC,NEW;ADD:IA (a),TIMEON hhmm,COU!
	a = VCA,NCA,PDA,PER - Required in AT&T office = VCA,NCA,PDA,PER,DSF - Required in LEC office hhmm = Hour (00 to 23) and minute (00 to 59) which specifies time trap is to start collecting data

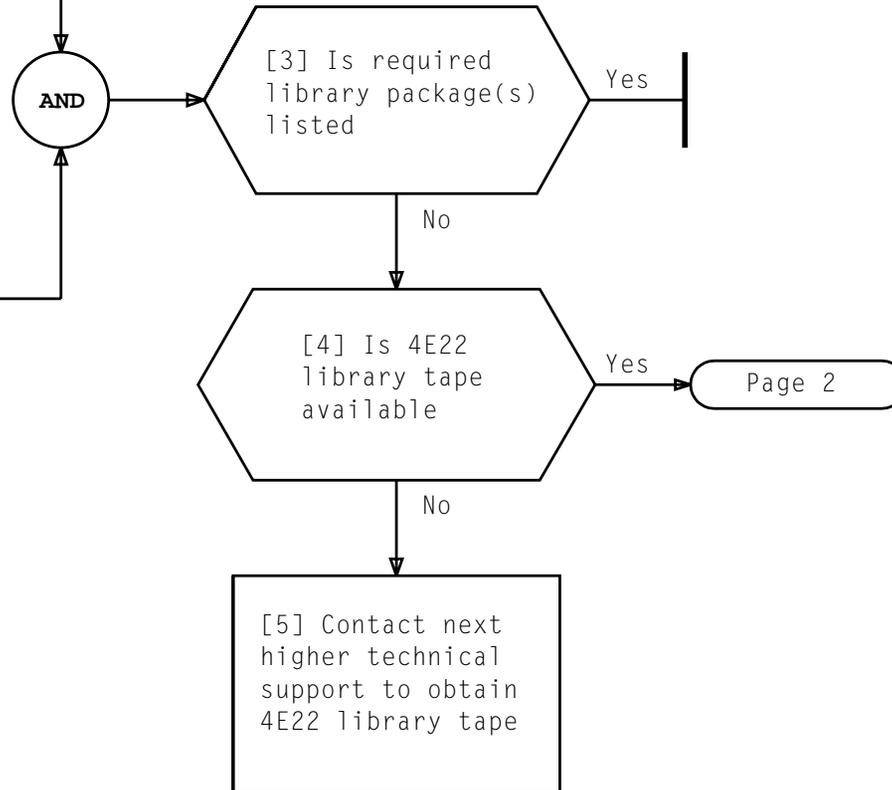
NOTE 1	
Retrofitting office must use IO manuals to determine if other traps are to be monitored besides required traps listed in TABLE A	
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[1] At 1B MTC terminal,  
enter message  
OP:LIBSTAT,FS!

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



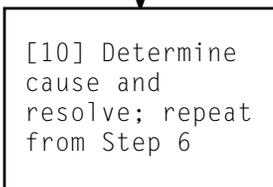
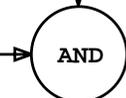
## LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK

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[6] Mount new library tape on available  
3B computer tape unit [DLP-501]

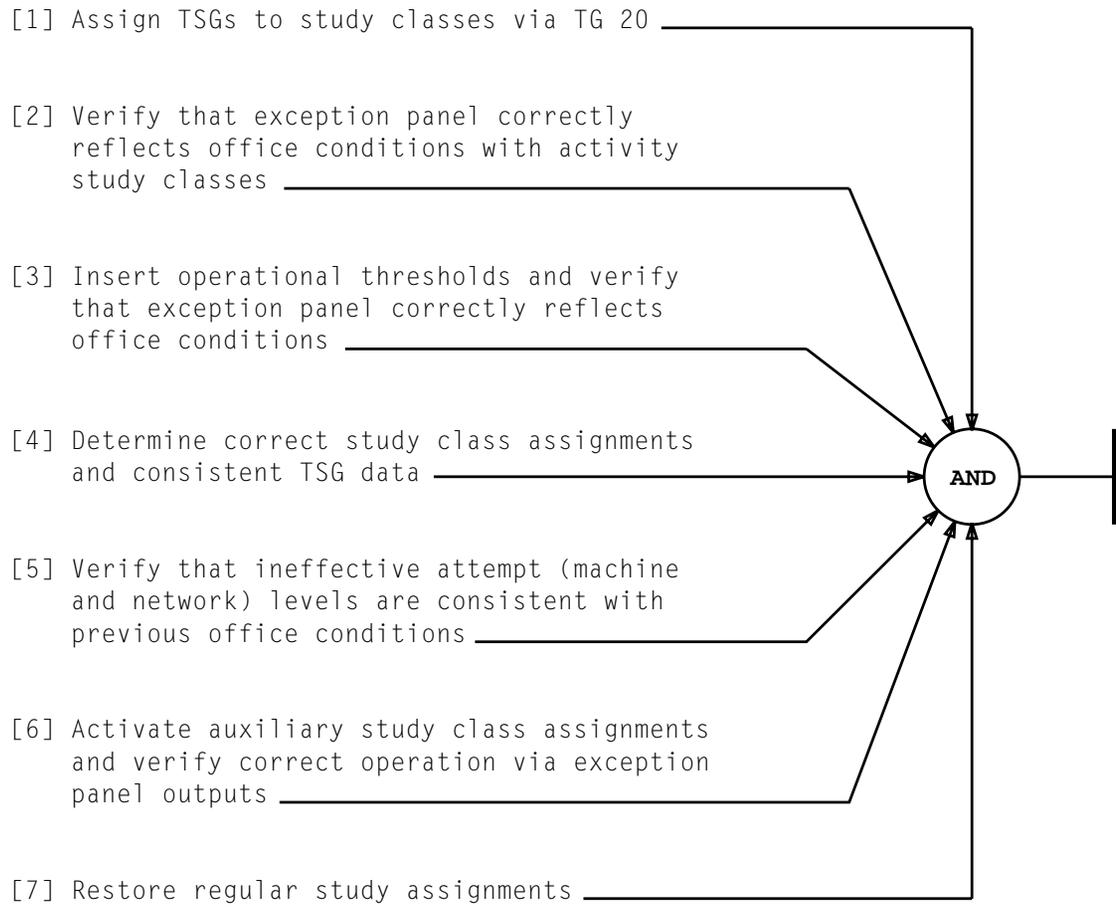
[7] At 1B MTC terminal, enter message  
LOAD:LIBSYS,FS;TAPE:TD a!  
(a = tape unit with library tape  
mounted)

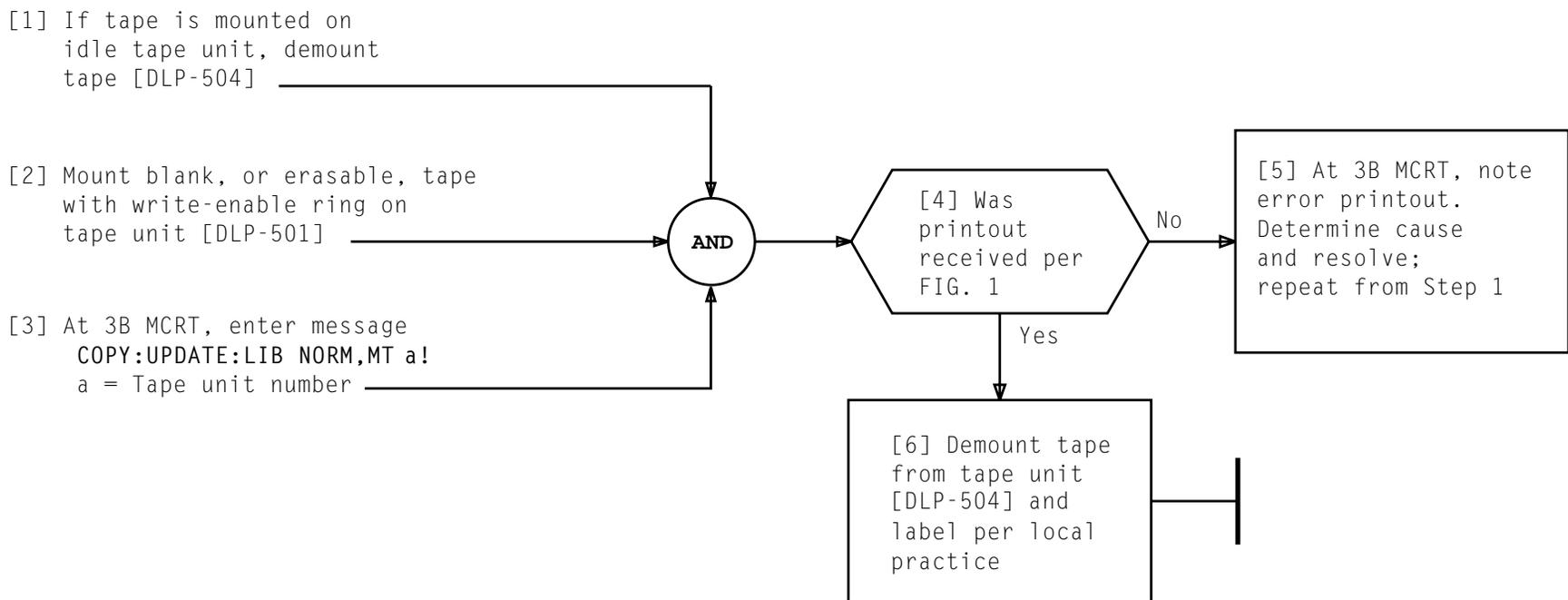
[8] Wait for INIT:LIBSYS COMPLETED  
and LOAD:LIBSYS COMPLETED  
messages to be received



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

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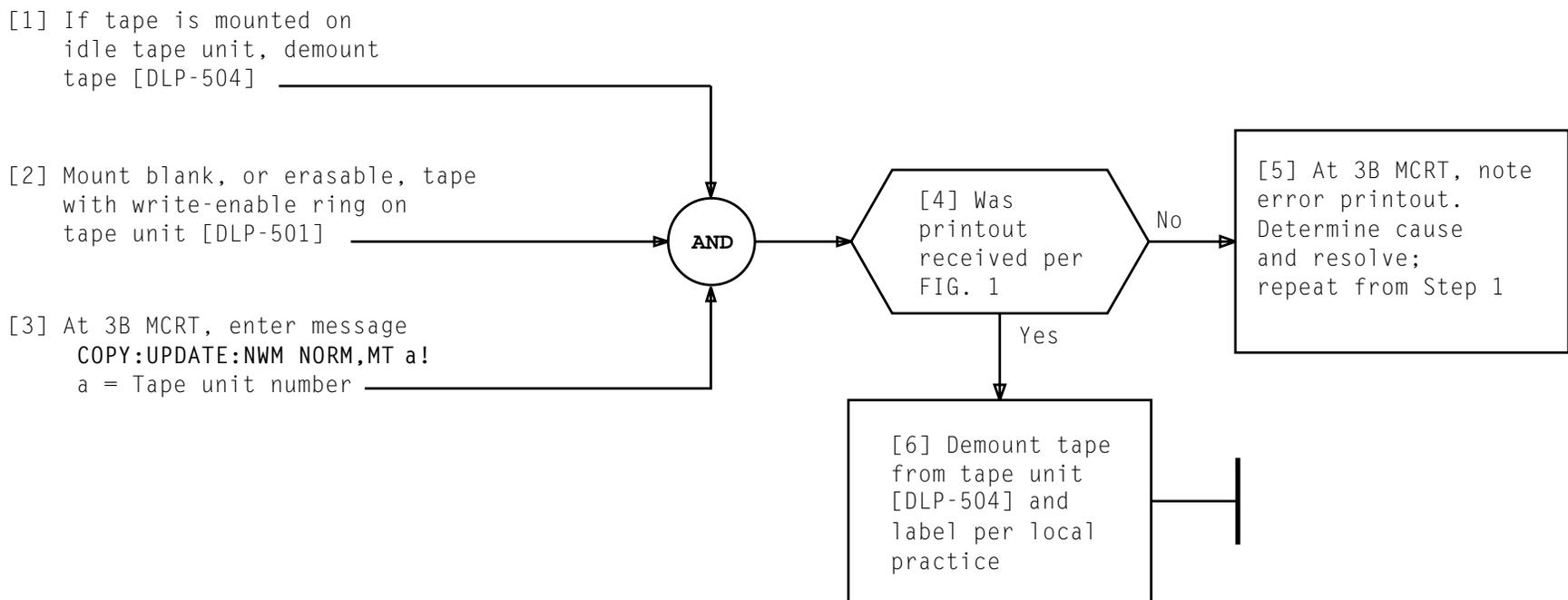
COPY LIB FROM NORMAL FILE

TAPE FILE 10 WRITTEN FROM FS\*

LIB TAPE WRITTEN

\* MAY NOT BE RECEIVED

**FIG. 1 - Sample LIB Tape  
Write Printout**



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**

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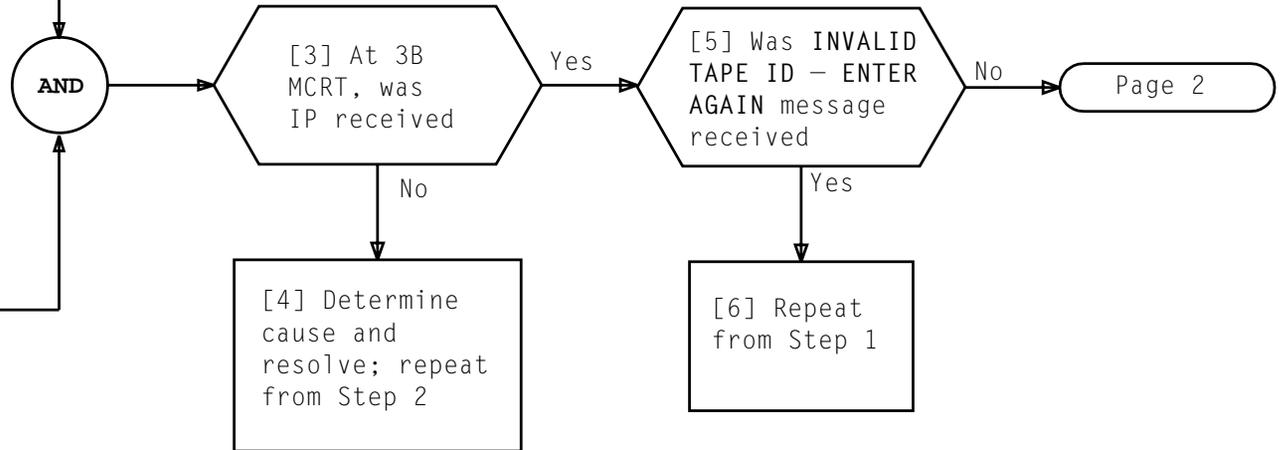
[1] Determine BASE and CONTROL numbers recorded earlier

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

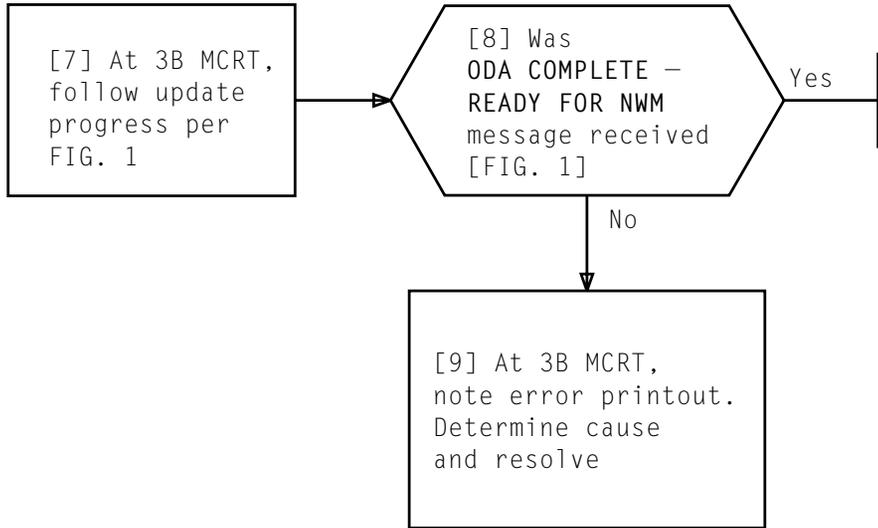
a = BASE number (Step 1). Must be 4 characters long. Spaces are used after base number if not 4 characters long

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	
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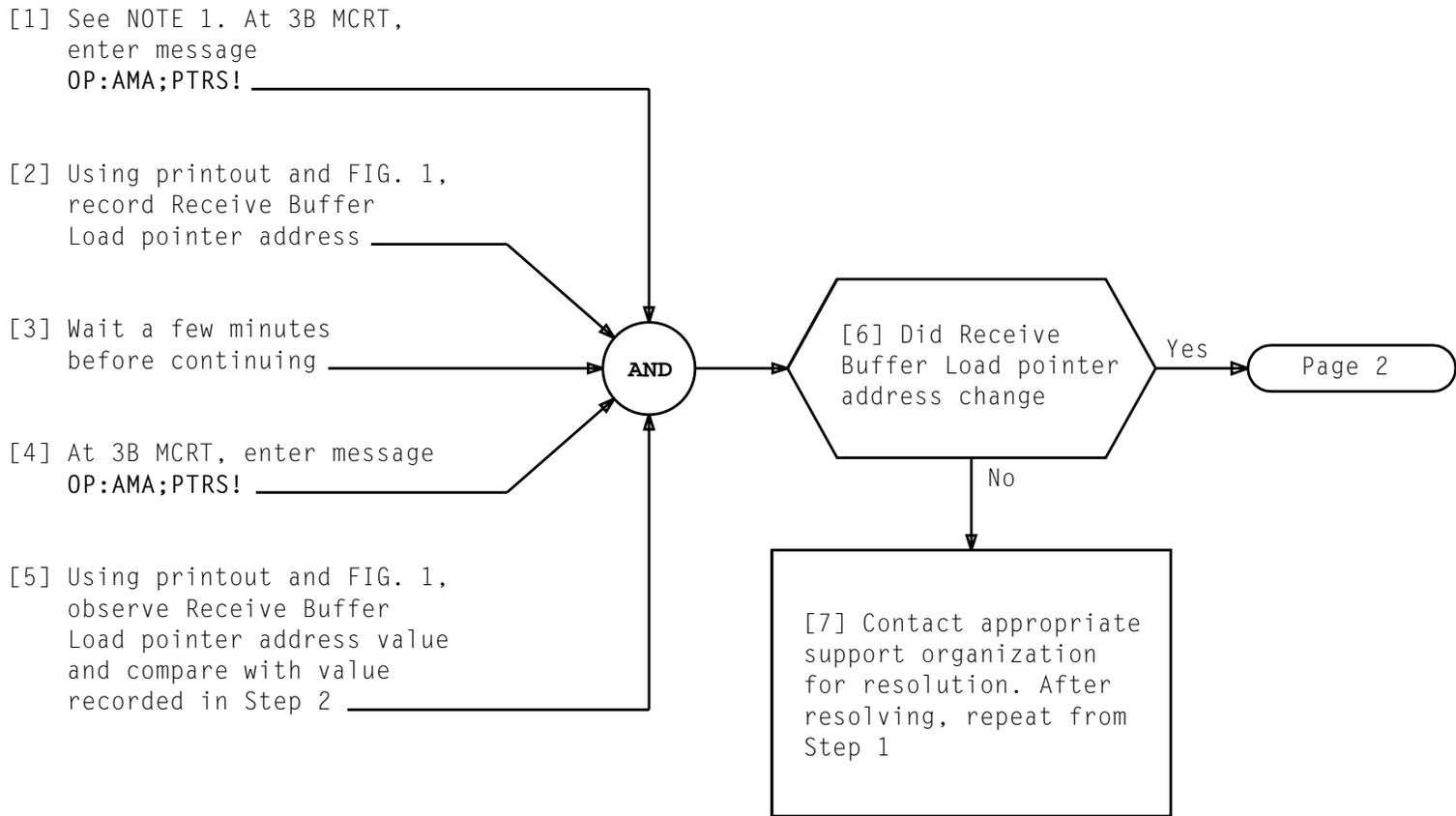


```

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**



```

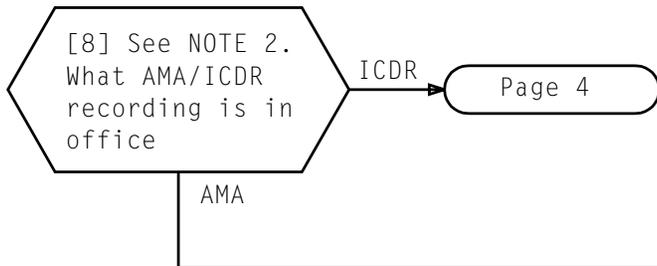
REPT AMA POINTERS INFORMATION
Receive Buffer Unload pointer:
DMAnum 0 offset 52284 address 508988
Receive Buffer Load pointer:
DMAnum 0 offset 50008 address 506712
.
.
  
```

Record This Value

FIG. 1 - Sample Output Message

NOTE 1  
 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

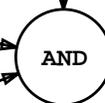
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[9] At 3B MCRT, enter message OP:AMA;MAPS! \_\_\_\_\_

[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 \_\_\_\_\_



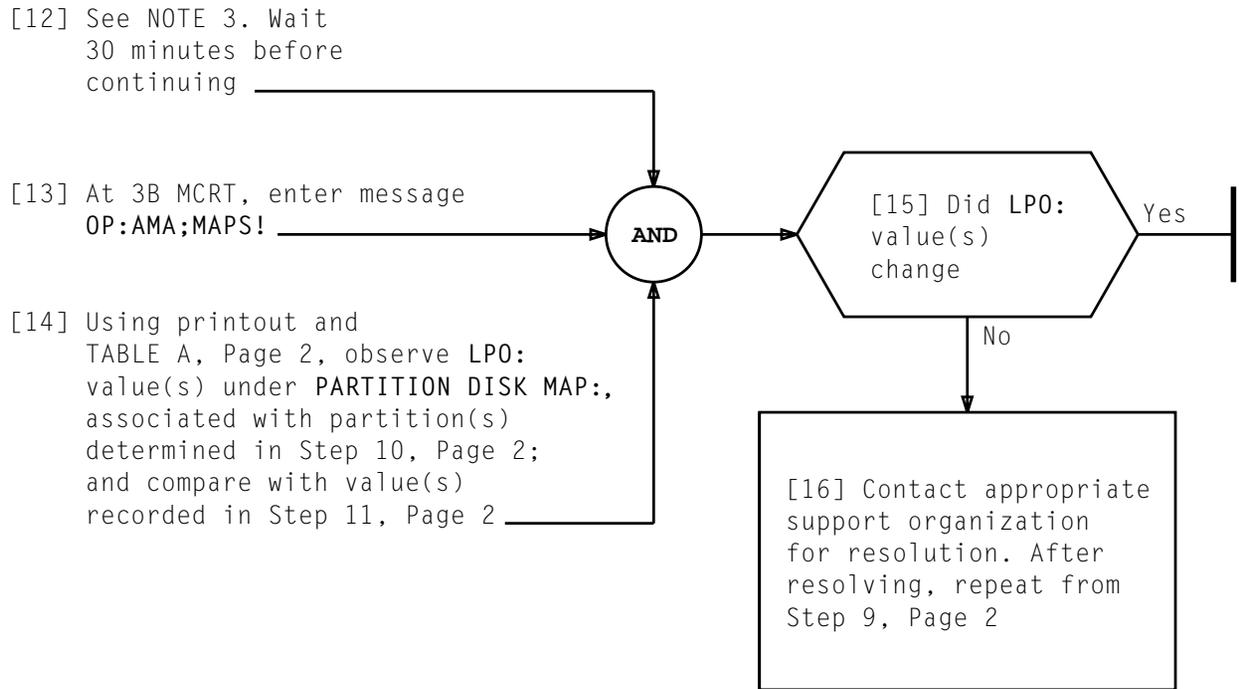
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TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA DISK MAPS FOR a STREAM WRITE PARTITION b READ PARTITION a = IC or OC b = Partition number AMA data being written
2	Message 1 is repeated for each stream
3	PARTITION c DISK MAP: FPO: _____ LPO: d   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

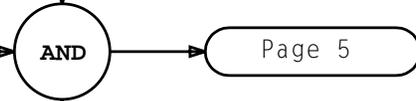
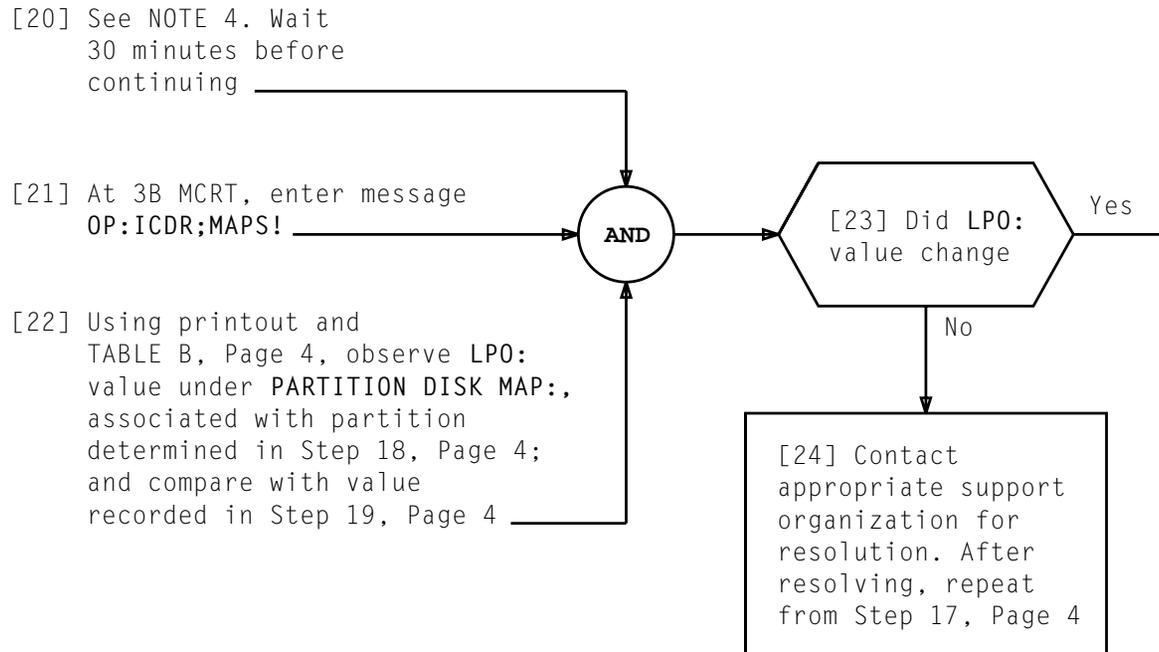


TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR DISK MAPS WRITE PARTITION a READ PARTITION a = Partition number ICDR data being written
2	PARTITION b DISK MAP: FPO: _____ LPO: c      FPS: _____ LPS: _____ FSO: _____ LSO: _____ FSS: _____ LSS: _____ FBO: _____ LBO: _____ FBS: _____ LBS: _____ b = Equipped partition number 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	
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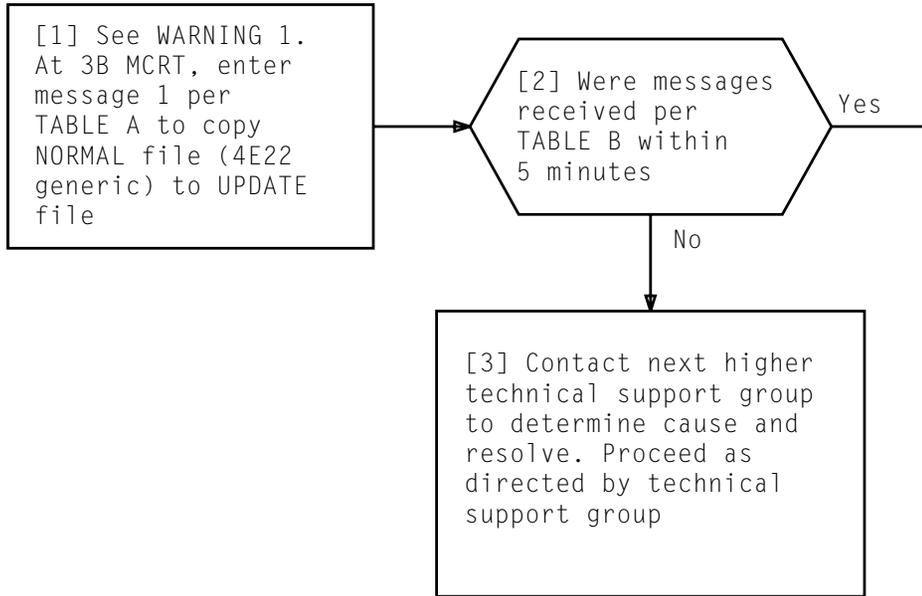


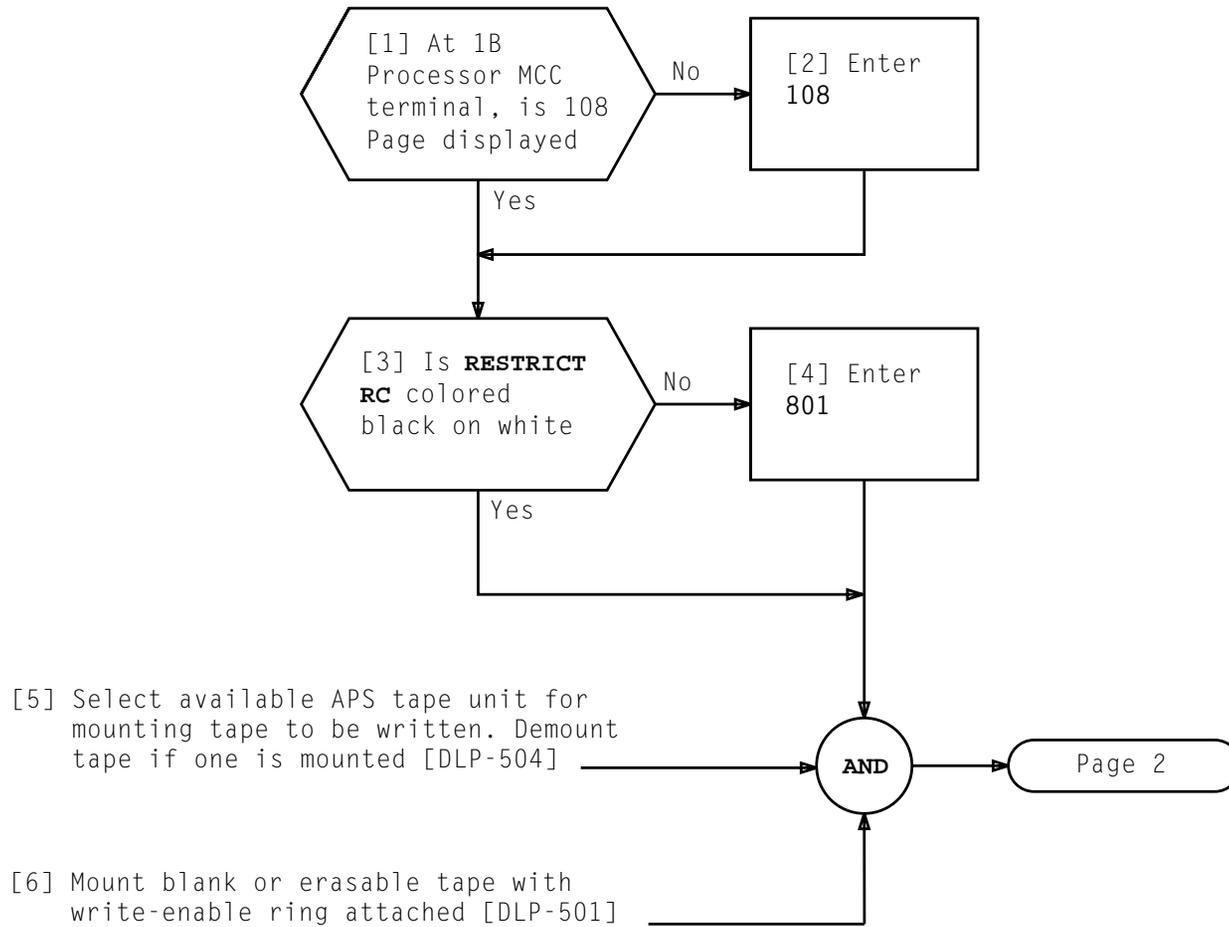
TABLE A	
MESSAGE NUMBER	INPUT MESSAGES
1	COPY:APPFILE NORM;UCL!

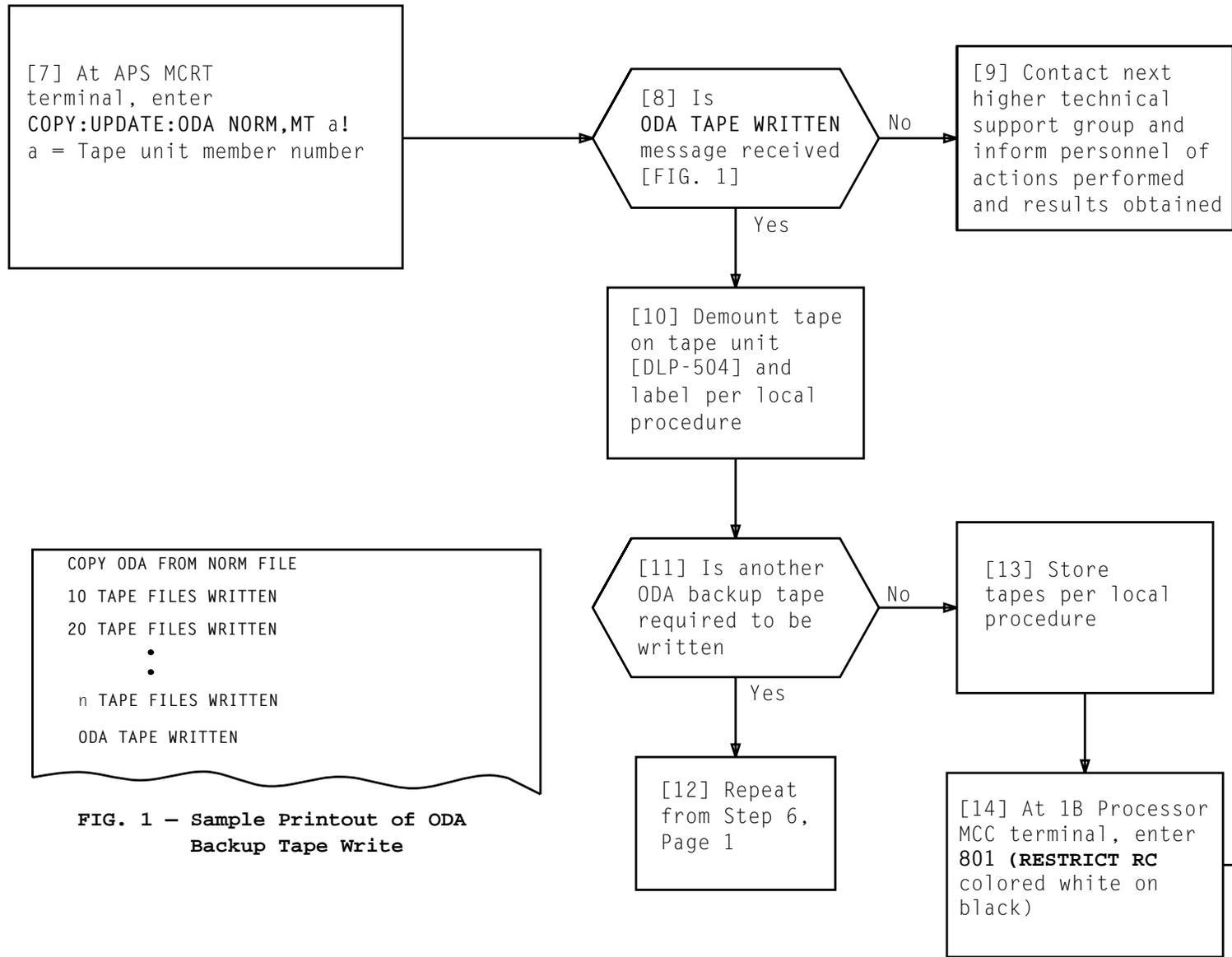
TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/lafileX /dev/lafileY 131072 >/dev/null STARTED  COPY:APPFILE COMPLETED

*WARNING 1  
Care must be  
taken to ensure  
proper message  
is entered to  
prevent service  
interruption*

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**COMMIT TO 4E22 GENERIC**

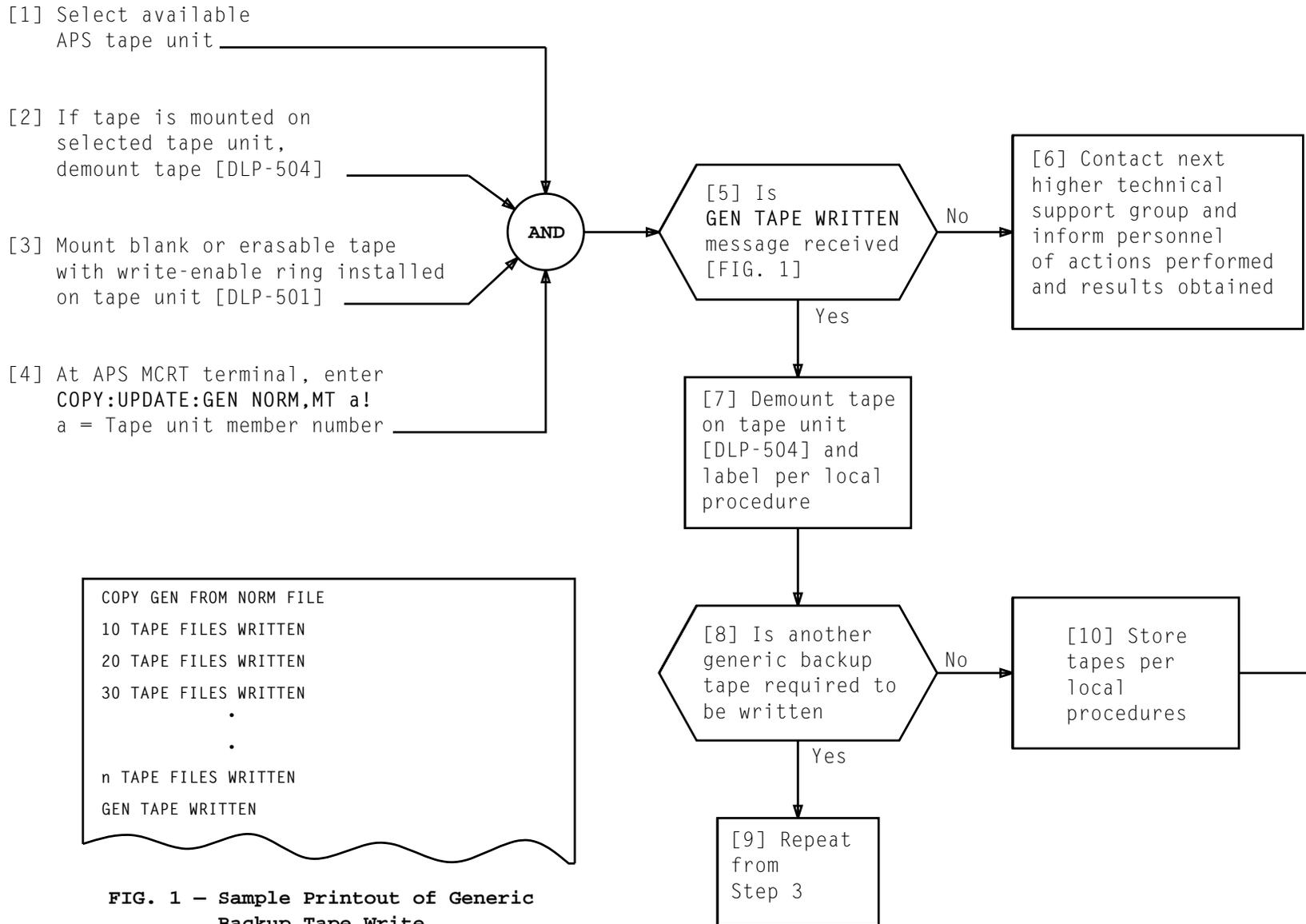




```

COPY ODA FROM NORM FILE
10 TAPE FILES WRITTEN
20 TAPE FILES WRITTEN
.
n TAPE FILES WRITTEN
ODA TAPE WRITTEN
  
```

FIG. 1 - Sample Printout of ODA Backup Tape Write



```

COPY GEN FROM NORM FILE
10 TAPE FILES WRITTEN
20 TAPE FILES WRITTEN
30 TAPE FILES WRITTEN
.
.
n TAPE FILES WRITTEN
GEN TAPE WRITTEN
  
```

FIG. 1 - Sample Printout of Generic Backup Tape Write

[1] See CAUTION 1. At teleconferencing NSCX terminal, enter message `INH:NSC a,SVC!` (a = NSCX member number) to inhibit service

[2] Enter message `RMV:NSC a,NS,PROC 0;UCL!` (a = NSCX member number) to place NSCX in maintenance state

[3] Enter message `BOOT OFCL!` to bring NSCX up

[4] Enter message 1 per TABLE A to load first overwrite

[5] Enter message 2 per TABLE A to load second back out overwrite

TABLE A	
MESSAGE NUMBER	INPUT MESSAGES
1	<code>IN:NSC a,NS,PROC 0,OWBUF:ADR 78460,DATA 60,OLDDATA 66!</code>
2	<code>IN:NSC a,NS,PROC 0,OWBUF:ADR 12881D,DATA 9A,OLDDATA A0!</code>
a = NSCX member number	



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**CAUTION 1**  
*This procedure will cause blocked calls to the NSCX and must be performed during a light traffic period*

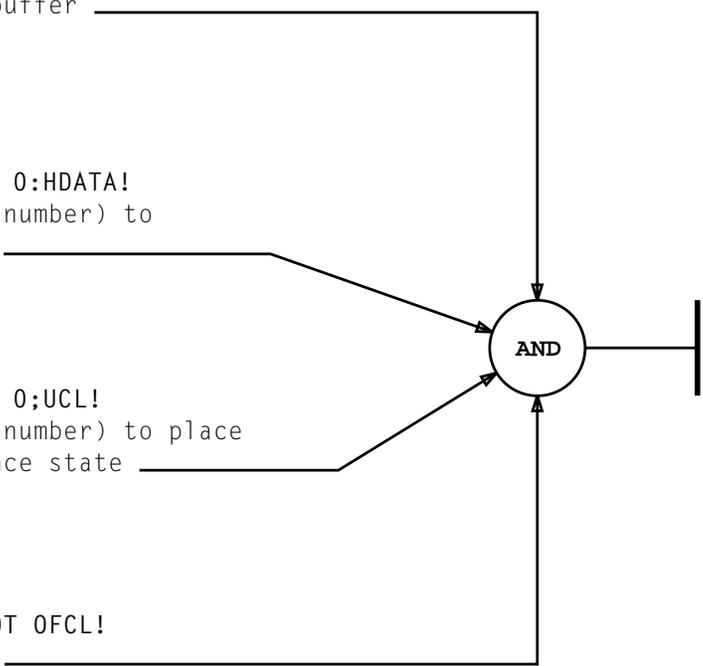
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[6] At teleconferencing NSCX terminal,  
enter message  
**COPY:NSC a,NS,PROC 0,OWBUF!**  
(a = NSCX member number) to load  
overwrites into buffer

[7] Enter message  
**UPD:NSC a,NS,PROC 0:HDATA!**  
(a = NSCX member number) to  
update hash data

[8] Enter message  
**RMV:NSC a,NS,PROC 0;UCL!**  
(a = NSCX member number) to place  
NSCX in maintenance state

[9] Enter message **BOOT OFCL!**  
to bring NSCX up



[1] At teleconferencing NSCX terminal,  
 enter message `INH:NSC a,SVC!`  
 (a = NSCX member number) to inhibit  
 service

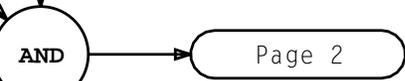
[2] Enter message  
`RMV:NSC a,NS,PROC 0;UCL!`  
 (a = NSCX member number) to place  
 NSCX in maintenance state

[3] Enter message `BOOT OFCL!`  
 to bring NSCX up

[4] Enter message 1 per TABLE A to load  
 first backout overwrite

[5] Enter message 2 per TABLE A to load  
 second backout overwrite

TABLE A	
MESSAGE NUMBER	INPUT MESSAGES
1	<code>IN:NSC a,NS,PROC 0,OWBUF:ADR 78460,DATA 66,OLDDATA 60!</code>
2	<code>IN:NSC a,NS,PROC 0,OWBUF:ADR 12881D,DATA A0,OLDDATA 9A!</code>
a = NSCX member number	



**BACK OUT OVERWRITES TO STRIP HOME NPA FROM DDD CALLS ON  
 HOST 4E**

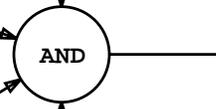
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[6] At teleconferencing NSCX terminal,  
enter message  
COPY:NSC a,NS,PROC 0,OWBUF!  
(a = NSCX member number) to load  
backout overwrites into buffer

[7] Enter message  
UPD:NSC a,NS,PROC 0:HDATA!  
(a = NSCX member number) to  
update hash data

[8] Enter message  
RMV:NSC a,NS,PROC 0;UCL!  
(a = NSCX member number) to place  
NSCX in maintenance state

[9] Enter message BOOT OFCL!  
to bring NSCX up



**BACK OUT OVERWRITES TO STRIP HOME NPA FROM DDD CALLS ON  
HOST 4E**

Reissued

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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-543]

[3] Mount blank, or erasable, tape with write-enable ring attached [DLP-544]

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

Writing of  
tape begins  
[NOTE 1]

Tape  
writing  
started

Page 2

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

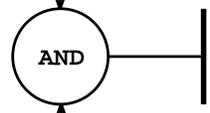
**CAUTION 1**  
Certain system  
audits are  
inhibited during  
tape writing;  
therefore, tape  
writing should be  
done during light  
traffic periods

Added

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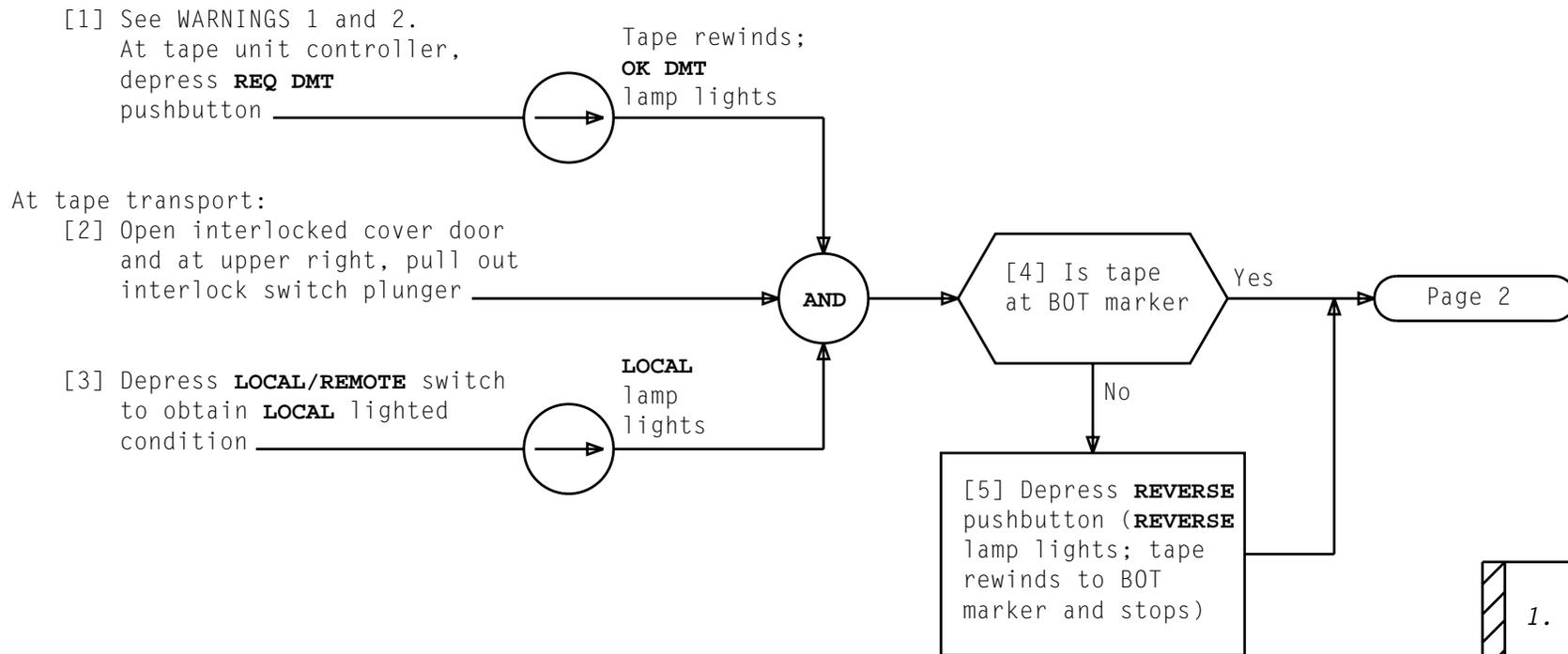
[8] After tape has been written  
and verified and REPT:DEMOUNT  
TAPE FROM TUC a is printed, demount  
tape just written [DLP-543] and  
remove write-enable ring

[9] Label and store tape per local instructions



Added

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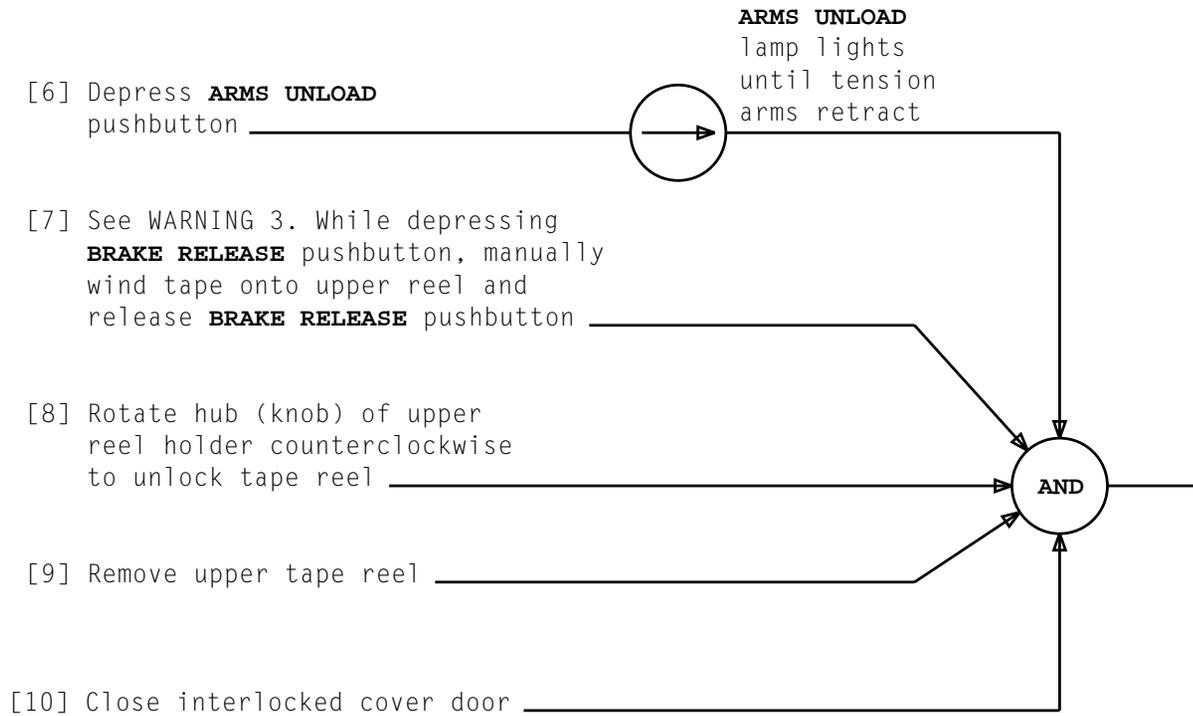


**WARNINGS**

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

Added

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**WARNING 3**  
*Pulling or dragging last 2 feet of tape across heads may contaminate heads*

Added

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At tape transport:

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

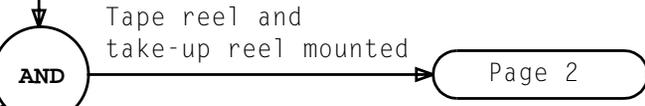
[2] Operate **LOCAL/REMOTE**  
switch to obtain **LOCAL**  
lighted condition



[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

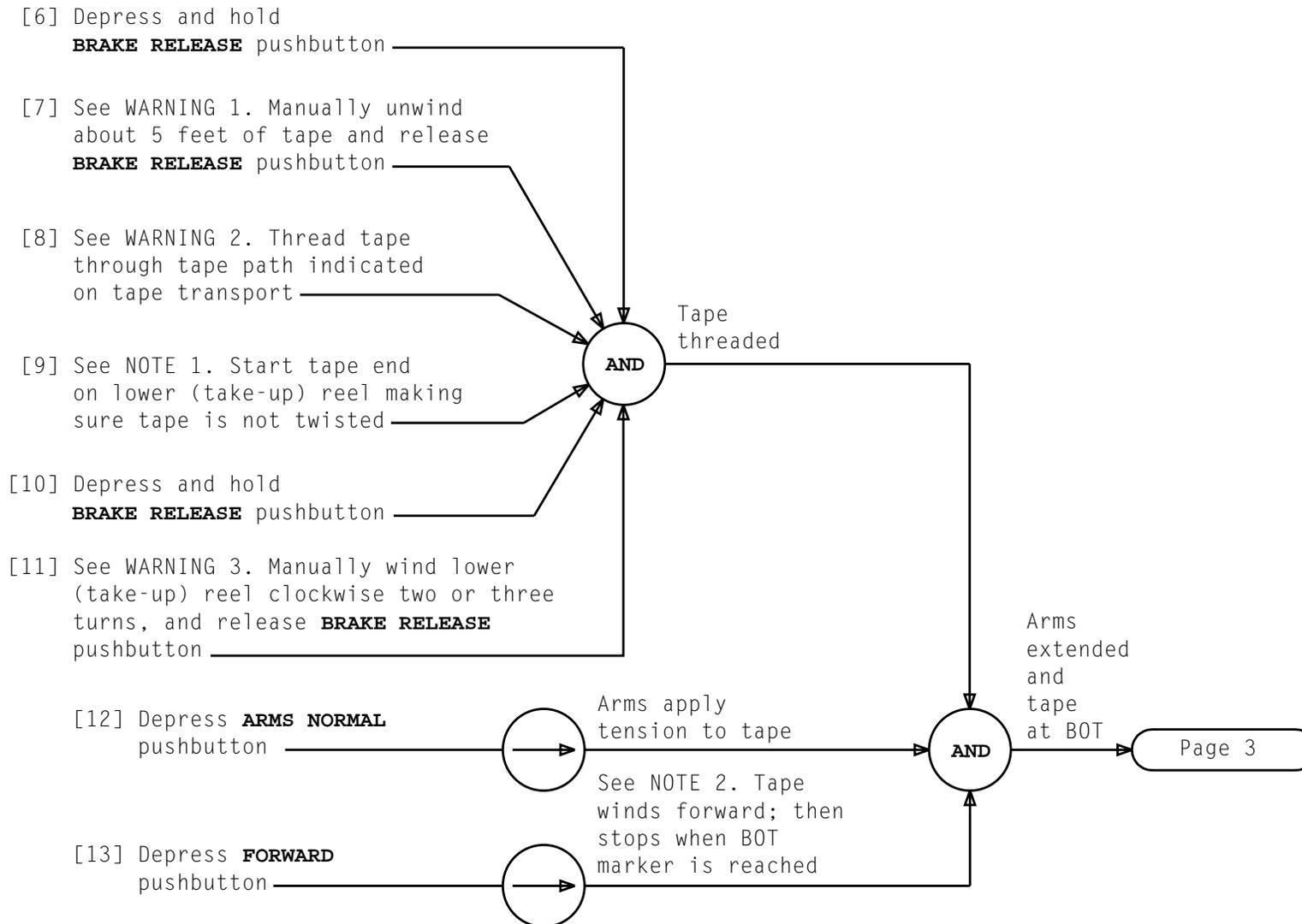
[5] Rotate hub (knob) of upper reel clockwise  
to detent to lock tape reel securely



# MOUNT TAPE ON 1B PROCESSOR TAPE TRANSPORT

Added

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NOTES

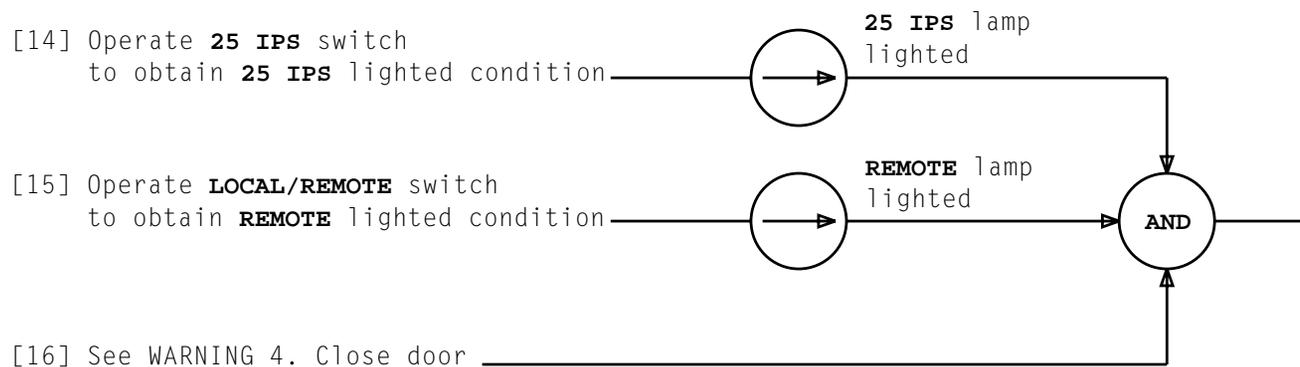
1. To start tape on take-up reel, it may help to moisten tape end (moistened fingers) and stick it to reel axle
2. Tape may not stop at BOT marker if fast forward is depressed

**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

Added

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*WARNING 4  
Closing tape  
transport door  
in harsh manner  
may upset  
alignment*

Added

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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											
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• REVISED OR ADDED ITEM

□ CANCELED ITEM

Revised

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CKL

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**CHECKLIST**