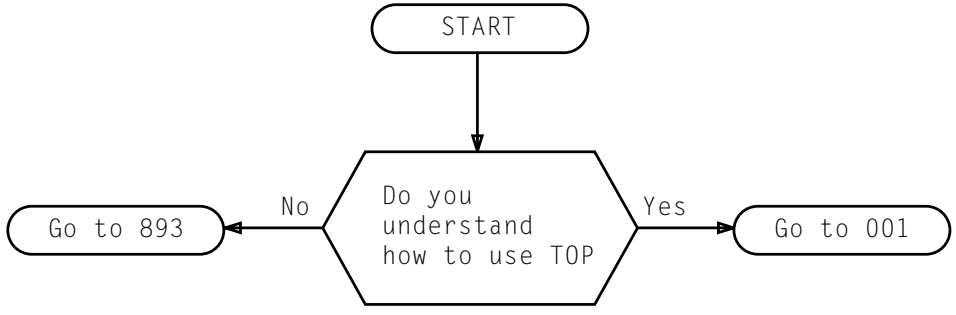
Lucent Technologies
Bell Labs Innovations

Task Oriented Practice (TOP)

4ESS™ Switch With 1B Processor 4E24 To 4E25 Generic Retrofit And 4E25 ODA Update



TOP Comments Hot Line:

Monday through Friday
8:00 a.m. - 4:00 p.m. (Eastern)
Call: 1-888-LTINFO6
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Developed by:
Lucent Technologies ***4ESS***™ Customer Training and Information Products (CTIP)
Lucent Technologies is the successor to the business and assets of AT&T Network Systems Business Unit.

FIND YOUR JOB IN THE LIST BELOW . . . . . THEN GO TO	
Acceptance	NTP-002
NOTE: The tasks listed below for 4E24 to 4E25 Generic Retrofit or 4E25 ODA Update, must be performed at the interval with respect to retrofit or update date	
4E24 TO 4E25 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
4E25 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

4E24 TO 4E25 GENERIC RETROFIT (LEC Office Only)

4E25 ODA UPDATE (LEC Office Only)

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

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	—			
	NOTE: AMA data should be saved via tape or teleprocessing to provide AMA processing centers with a known starting point for 4E25 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 4E25 Generic Overwrites and if 4E25 Generic Overwrites Are Required, Save Per Local Practice. These Overwrites Will Be Inserted Into System After Office Is Running Successfully on 4E25 Generic	—			

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

			DATE	TIME	SIGNATURE
1	**Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed**	–			
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 (4-mm), Write Backup Generic Tape	DLP-539			
4	Write 3B APS Backup Tapes Using 234-351-002 (Maintenance Operation Center)	–			
5	At 3B MCRT, if Screen Displays EAI Page, Depress **NORM/DISP** (**PF2**) Key	–			
6	Enter **101** in Command Mode To Obtain Display Page 101	–			
7	Depress **CMD/MSG** (**PF3**) Key To Move Cursor to Bottom of Screen	–			
8	If Data Base Has Been Loaded by Off-Line Processor, At 3B MCRT, Verify Data Base To Ensure Generic Is 4E<25>5x.yy Ra and Proper Office Name Is Listed **(OP:APPLOAD UPD!)**	DLP-500			
9	If Generic Data Base Is To Be Loaded by Tape, Perform Items 10 Through 24; Otherwise, Go to Item 25	–			
10	Obtain Following New 4-mm Tapes Associated With 1B Processor Retrofit: • Generic Tape • ODA (if Tape Will Be Used) • NWM	–			
11	If Test Retrofit Process Is Expected To Last Through Midnight				
	1. At 3B MCRT, Enter Message **INH:DMQ;SRC REX!** To Inhibit REX	–			
	2. At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	–			
12	Mount New Generic and ODA Tapes for Disk Update:				
	A. If Two Idle 3B Digital Audio Tape (DAT) Units Are Available for Update **and ODA Is on Tape To Be Loaded**				
	1. Verify That Tape Identification Data Is Correct for 4E25 Generic Tape (Item 10)	–			

TEST RETROFIT PROCESS

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

			DATE	TIME	SIGNATURE
12 (Contd)	2. Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E25 ODA Tape (Item 10)	–			
	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<25>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 DAT Unit Is Available for Update **or ODA Is Not on Tape To Be Loaded**				
	1. Verify That Tape Identification Data Is Correct for 4E25 Generic Tape (Item 10)	–			
	2. At Idle DAT 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<25>5x.yy Ra) for Later Use	DLP-502			
13	Load New Generic on Disk (**LOAD:UPDATE:GEN "4E<25>5x.yy Ra",MT b!**)	DLP-503			
	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*				
14	If Loading of Generic Tape Was Successful, Go to Item 18. If It Was Aborted, Perform Items 15 Through 17	–			
15	At DAT Unit, Containing Tape That Failed, Demount Tape	DLP-504			
16	At 3B MCRT, Enter Message **OP:OOS!** and Ensure That All Units Are in Service	DLP-506			
17	Repeat From Item 12 Using Another Copy of Tape That Failed	–			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
18	Select Option A or B; and Proceed as Directed To Load ODA				
	A. If ODA Is on Tape:				
	1. If ODA Tape Was Not Mounted in Item 11, Perform Items 18.A.2 Through 18.A.4; Otherwise, Go to Item 18.A.5	–			
	2. At DAT Unit, Containing Generic Tape, Demount Tape	DLP-504			
	3. Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E25 ODA Tape (Item 10)	–			
	4. At DAT Unit Just Idled, Mount ODA Tape	DLP-501			
	5. 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			
	6. Load New ODA on Disk **(LOAD:UPDATE:CONT "aaaabb",MT c!)**	DLP-505			
	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*				
	7. If ODA Tape Load Was Successful, Go to Item 18.A.11; If It Was Aborted, Perform Item 18.A.8 Through 18.A.10	–			
	8. At DAT Unit, Containing Tape That Failed, Demount Tape	DLP-504			
	9. At 3B MCRT, Enter Message **OP:OOS!** and Ensure That All Units Are in Service	DLP-506			
	10. Repeat From Item 12 Using Another Copy of Tape That Failed	–			
	11. Demount Tape on Idle DAT Unit	DLP-504			
	(Continued on Page 4)				

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

			DATE	TIME	SIGNATURE
18 (Contd)	B. If ODA Is in ODA Manager File:				
	1. At 3B MCRT, Enter Message **OP:STATUS:LISTDIR,FN"/etc/bwm"!** and Ensure That omgroda File Is Listed. If omgroda Is Not Listed, Contact next Higher Support Group for Resolution. Proceed as Directed by Next Higher Support Group	DLP-541			
	2. Enter Message **VER:UPDATE:TAPE,MT "/etc/bwm/omgroda"!** and Record BASE and CONTROL Numbers for Later use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office	DLP-542			
	3. Load New ODA on Disk **(LOAD:UPDATE:CONT "aaaabb",MT "/etc/bwm/omgroda"!)**	DLP-543			
	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*				
	4. If ODA Load Was Successful, Go to Item 19; If It Was Aborted, Perform Item 18.B.5	_			
	5. Contact Next Higher Support Group for Resolution. Proceed as Directed by Next Higher Support Group	_			
19	Mount New Network Management Tape on DAT Unit and Verify That Tape Identification Is Correct for 4E25 Update **(VER:UPDATE:TAPE,MT a!)** a = Tape Unit Number	DLP-507			
	(Continued on Page 5)				

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

			DATE	TIME	SIGNATURE
20	Load New Network Management on Disk and Complete Data Base (**LOAD:UPDATE:CONT NWM,MT** a!)	DLP-508			
	NOTES: 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				
21	If Loading of Network Management Tape Was Successful, Go to Item 25. If It Was Aborted, Perform Items 22 Through 24	—			
22	Demount Network Management Tape From DAT Unit	DLP-504			
23	At 3B MCRT, Enter Message **OP:OOS!** and Ensure That All Units Are in Service	DLP-506			
24	Repeat From Item 12 Using Another Copy of Tape That Failed	—			
25	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	—			
26	After **VER** Message Has Been Entered (Item 27) and If No Critical Overwrites Are Required (Item 28), Procedure Can Be Continued At Item 29 Without Waiting for Verify To Complete. Printout Must Be Observed Periodically for Errors	—			
27	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (**VER:APPFILE UPD!**)	DLP-509			
28	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-510			
29	Compare Critical Data in New ODA With Data in Active System by Performing Items 30 and 31	—			
30	Run Cross-Translations Compare Program	DLP-511			
31	Analyze, With Help From Support Organization, Results of Compare for Unexpected Mismatches	—			

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

			DATE	TIME	SIGNATURE
32	If Compare Did Not Find Unexpected Mismatches, Go to Item 34	—			
33	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 28	—			
	B. If It Is Determined That Corrections Cannot Be Made Within the Hour, Await Further Instructions Before Proceeding	—			
34	If Generic Data Base Was Loaded by Tape, Perform Items 35 Through 38; Otherwise, Go to Item 39	—			
35	Demount Tape(s) From DAT Unit(s), as Appropriate	DLP-504			
36	If REX Was Inhibited in Item 11				
	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	—			
37	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	—			
38	End of Procedure	—			
39	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	**Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed**	–			
2	***If a Received Response Does Not Match the Given Response in This Procedure, Contact Next Higher Technical Support Group for Resolution***	–			
3	***If There Is any Question Concerning a Step in This Procedure, Contact Next Higher Technical Support Group for Clarification***	–			
4	Obtain Most Recent Records of Office Performance Data; Organize for Orderly Post Update Comparison	–			
5	At 1B MTC Terminal, Enter Message **OP:OOSUNITS!** and Ensure That Required Units Are in Service	DLP-512			
6	At 3B MCRT, Enter Message **OP:OOS!** and Ensure That Required 3B Computer Units Are in Service	DLP-506			
7	Verify No Audits Inhibited. If Audits Are Inhibited, Take Corrective Action as Determined by Appropriate Support Organization	DLP-519			
8	At 1B Processor MCC Terminal, Enter **108** To Obtain 108 Page	–			
9	Enter **801** (RESTRICT RC) (**801 - RESTRICT RC** Colored Black On White)	–			
	NOTE: For AT&T offices, Items 10 through 16 are to be performed on-site				
	Caution: DO NOT enter **COPY:APPFILE NORM** *message after ODA tape has been written*				
10	Write Backup ODA Tape	DLP-538			
11	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	–			
	NOTE: Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour				
12	Write Backup Long-Term Storage (LTS) Tape	DLP-513			
	(Continued on Page 2)				

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

			DATE	TIME	SIGNATURE
13	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	—			
14	Write Backup Traffic and Plant Measurement (TPM) Tape	DLP-514			
15	Write Backup Trunk Out-of-Service List (TOSL) Tape	DLP-515			
16	Write Backup Network Management (NWM) Tape	DLP-534			
17	Save Tapes Just Written Until New Data Base Is Finally Committed	—			
18	Perform Item 18.A or 18.B per Local Practice To Obtain Trunk Subgroup Maintenance Status. Save Printout for Trunk Circuit Recovery Verification After Running on New Generic and/or ODA				
	A. At 1B Terminal, Enter Message **OP:TSGSTAT;DETL:ALL!**	—			
	B. At 1B Terminal, Enter Message **OP:TSGSTAT;DETL:TCA** a! a = Number for Each Assigned Trunk Control Area	—			
19	At 1B Terminal, Enter Message **OP:TANTOTAN!** 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	—			
20	Enter Message **VER:NAILUP;ALL!** 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	—			
21	Run CC Diagnostic Phase 95	DLP-516			
22	Restore Standby CC to Service (**RST:CC** a!)	—			
23	Switch CCs (**SW:CC!**)	—			
24	Run CC Diagnostic Phase 95	DLP-516			
25	Restore Standby CC to Service (**RST:CC** a!)	—			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
26	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	—			
	3. Ensure That **NORMAL TERMINATION — NO MORE DATA** 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 26.B.5 Through 26.B.8; Otherwise, Go to Item 27	—			
	5. At 3B MCRT, Enter Message **OP:AMA;CONTROLFILE!** and Save Printout for Later Reference in Setting Control File Back to Normal	—			
	6. Enter Message **SET:AMA;CONTROL;**a**:OPTION TAPE [,TAPEID "**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 **SET:AMA;CONTROL;**a**:OPTION TP!** (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	—			
27	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	—			

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

			DATE	TIME	SIGNATURE
28	If LEC Office Is Being Updated, Obtain 4E25 Informational BWM Concerning Incident Data Set Commands From SCANS. These Commands Are To Be Applied After System Is Running on 4E25 Generic	_			
29	At 3B MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **1106** in Command Mode To Obtain Display Page 1106	_			
30	Ensure **RING POS** Is **NORM** and **MAJOR STATE** Is **ACT** for Each Equipped CNI Ring Node	_			
31	Enter **1107** in Command Mode To Obtain Display Page 1107	_			
32	Ensure One Direct Link Node Is Assigned **1WAY IN** and One Direct Link Node **1WAY OUT**. Both Direct Link Nodes Must Have **HDWR STATE** and **APPL STATE** of **ACT**. If Four Direct Link Nodes Are Listed, **HDWR STATE** Must Be **ACT** and **APPL STATE** Must Be **STBY** for Direct Link Nodes Not Assigned **1WAY IN** or **1WAY OUT**	_			
33	Enter **1108** in Command Mode To Obtain Display Page 1108	_			
34	Ensure **LINK STATE** Is **AVL/IS** and **NODE STATE** Is **ACT** for Each Equipped Signaling Link	_			
35	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	_			
36	At 1B MTC Terminal, Enter Message **OP:SVCSTAT!** and Save Printout for Later Use After Running on New Generic and/or ODA	_			
37	At 1B Processor MCC Terminal, Enter **810** on 108 Page and Verify on 1B MTC Printer There Is No Service-Degrading Condition. If There Is, Contact Next Higher Technical Support Group	_			
38	At 3B MCRT, Load TLP From Tape Onto Disk **(LOAD:TLP:GEN "a",MT b!)**	DLP-527			

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

		RESPONSIBILITY	
	NOTE: 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	NCC/OSWF	—
2	***If a Received Response Does Not Match the Given Response in This Procedure, Contact Next Higher Technical Support Group for Resolution***	***NCC/OSWF***	—
3	***If There Is any Question Concerning a Step in This Procedure, Contact Next Higher Technical Support Group for Clarification***	***NCC/OSWF***	—
4	Before Starting, Review and Become Familiar With DLP-523	NCC/OSWF	—
5	At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	NCC	—
6	Enter Message **OP:TSGSTAT;SUM:ALL!** To Obtain Trunk Subgroup Status Summary; Save Printout in a File for Trunk Circuit Recovery Verification	NCC	—
7	Enter Message **OP:OOSUNITS!** and Ensure That Required Units Are in Service	NCC	DLP-512
8	Verify No Audits Inhibited. If Audits Are Inhibited, Take Corrective Action as Determined by Appropriate Support Organization	NCC	DLP-519
9	At 3B MCRT, Enter Message **INH:DMQ;SRC REX!** To Inhibit REX	NCC	—
10	At 3B MCRT, Enter Message **OP:OOS!** and Ensure That Required 3B Computer Units Are in Service	NCC	DLP-506
11	At 3B MCRT, Verify Data Base To Ensure That Generic Is **4E<25>5x.yy Ra** and Proper Office Is Listed (**OP:APPLOAD UPD!**)	NCC	DLP-520
12	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	NCC	DLP-510
	NOTE: If schedules that are entered by **SCHED:MEAS** input message are to be retained for update, include **MEAS** option in **LOAD** message		
13	At 3B MCRT, Map Dynamic Data From NORMAL File to UPDATE File (**LOAD:UPDATE:MAP[,MEAS]!**)	NCC	DLP-521
	CAUTION: Item 13 must be completed before performing Item 14 to prevent errors when verifying 1AFILE hashed areas		
14	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (**VER:APPFILE UPD!**)	NCC	DLP-509

PERFORM UPDATE (FOR AT&T OFFICES ONLY)

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
15	At 3B MCRT, Enter Message **COPY:LSNC TOSL!** To Update TOSL in UPDATE File; Ensure **REPT LSNC: LSNC MAPPING COMPLETE** Message Is Received	NCC	DLP-546
16	Do NOT Proceed Until Instructed by NOC. Safe Point to Temporarily Stop This Procedure	NCC	—
17	Prepare 1B Processor MCC Terminal for Manual Recovery	NCC	DLP-522
18	Manually Update 1B Processor	NCC	DLP-523
19	If Attempt To Configure to New System Was Successful, Go to Item 24. If Unsuccessful, Perform Items 20 Through 23 Because System Is Returned to 4E24 Data Base	NCC	—
20	**ENTERING THIS STEP BECAUSE BACKOUT TO 4E24 OCCURRED.** At 1B MTC Terminal, Enter Message **UPD:COMMIT;NORMFILE!**	NCC	—
21	At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress **EA DISP** Key	NCC	—
22	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed	NCC	—
23	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	—
24	**SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.** Perform Items 25 Through 29 To Restore 1B Processor Complex Units	NCC	—
25	At 1B MTC Terminal, Enter Message **OP:MACLI,CLASS MTCE!**	NCC	—
26	If 1B Processor Complex Unit(s) Is Listed in Printout, Go to Item 29; Otherwise, Perform Items 27 Through 29	NCC	—
27	At 1B MTC Terminal, Enter Message **OP:OOSUNITS!**	NCC	—
	NOTE: IFB must be restored before restoring MUP, AUI, or SSD		
	If 1B Processor Complex Unit(s) Is Listed in Printout, Enter Restore Message To Restore Each Unit Listed	NCC	—
28	**NOTE:** 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		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
29	Periodically Repeat From Item 25 While Continuing To Perform Succeeding Steps in This NTP Until 1B Processor Complex Units Are Restored	NCC	—
30	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	NCC	DLP-525
31	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 **OSOR SCHEDULES** Are **NOT CHANGED** and **COUNT DATA BASE** Is **UPDATED**	NCC	—
32	When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock	NCC	DLP-526
33	At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	NCC	—
	NOTE: Items 37 through 41 can be performed at same time as Items 34 through 36		
34	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 36. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Technical Support Group for Resolution	NCC	—
35	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 19)	NCC	—
36	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 20)	NCC	—
37	At 1B MTC Terminal, Enter Message **CLR:RCB!** To Clear Recent Change Buffer	NCC	—
38	Run Audits 43, 44, 45, 66, and 72 (Items 39 Through 42)	NCC	—
39	At 1B MTC Terminal, Enter Message **AUD:NUM (43,44,45,66,72)!**	NCC	—
40	While Audits Are Running, Continue To Perform Succeeding Items	NCC	—
41	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	NCC	—
42	During Execution of Audits 43 and 66, Scan Output Messages Periodically for Abort Message	NCC	—
43	At 1B MTC Terminal, Restore Out-of-Service Units	NCC	DLP-528

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
44	At 3B MCRT, Depress **NORM/DISP (PF2)** Key and Enter **1106** in Command Mode To Obtain Display Page 1106	NCC	—
45	Ensure **RING POS** Is **NORM** and **MAJOR STATE** Is **ACT** for Each Equipped CNI Ring Link Node	NCC	—
46	Enter **1107** in Command Mode To Obtain Display Page 1107	NCC	—
47	Ensure One Direct Link Node Is Assigned **1WAY IN** and One Direct Link Node **1WAY OUT**. Both Direct Link Nodes Must Have **HDWR STATE** and **APPL STATE** of **ACT**. If Four Direct Link Nodes Are Listed, **HDWR STATE** Must be **ACT** and **APPL STATE** Must Be **STBY** for Direct Link Nodes Not Assigned **1WAY IN** or **1WAY OUT**	NCC	—
48	Enter **1108** in Command Mode To Obtain Display Page 1108	NCC	—
49	Ensure **LINK STATE** Is **AVL/IS** or **AVL/STBY** and **NODE STATE** Is **ACT** for Each Equipped Signaling Link	NCC	—
50	At 1B MTC Terminal, Enter Message **OP:MSGRCD,FS!** To Clear Recorded Message Area on Disk. **NG** Response Indicates There Are No Messages on Disk To Be Cleared	NCC	—
51	At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, as Required	NCC	DLP-529
52	At 1B MTC Terminal, Enter Message **OP:TSGSTAT;SUM:ALL!** To Obtain Trunk Subgroup Status Summary. Compare Printout With Printout Saved in Item 6	NCC	—
53	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	NCC	—
54	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	NCC	—
55	Notify Network Management Center To Begin Checkout of Network Management System	NCC	DLP-530
56	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	NCC	—
57	Compare Count of Ineffective Machine Attempts With Preupdate Level	NCC	—
58	At 1B MTC Terminal, Enter Message **INIT:PUEXINIT!**	NCC	—
59	Request RNOC To Verify That Manually Placed Calls and System Placed Test Calls Complete Successfully	NCC/OSWF	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
60	Request RNOC To Enter Security Call Traps That Existed Prior to Update (if any)	NCC	—
61	At 1B MTC Terminal, Enter Message **ALW:MACLI,CLASS MTCE!** To Allow REX	NCC	—
62	At 3B MCRT, Enter Message **ALW:DMQ;SRC REX!** To Allow REX	NCC	—
63	At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	NCC	—
64	If **801 - RESTRICT RC** Is Colored Black on White, Enter **801**	NCC	—
65	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 NCC 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
66	Load Library Tape in File System:		
	A. For Office Loading an Original Library Tape	OSWF	DLP-531
	B. For Office Loading a Backup Library Tape	OSWF	DLP-540
67	At 1B MTC Terminal, Enter Message **AUD:NUM (43,44,45,66,72)!;** Do Not Continue Until Audits Have Completed With 0 Errors	OSWF	—
	NOTE: Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour		
68	Write Backup Long-Term Storage (LTS) Tape	OSWF	DLP-513
69	Write Updated Traffic and Plant Measurement (TPM) Schedule Tape	OSWF	DLP-514
	(Continued on Page 6)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
70	If Any 4E25 Overwrites Are To Be Installed, Install per Local Practice	NCC	—
71	Write Backup TOSL Tape	OSWF	DLP-515
72	Write Backup Library (LIB) Tape	OSWF	DLP-533
73	Write Backup Network Management (NWM) Tape	OSWF	DLP-534
74	Write Backup 1B Processor ODA Tapes, if Required	OSWF	DLP-538
75	Write Backup 1B Processor Generic Tapes, if Required	OSWF	DLP-539
76	Request Next Higher Support Group To Determine if Office Can Commit to 1B Processor Generic. Do Not Proceed Without Permission From Next Higher Support Group	NCC	—
77	At 3B MCRT, Enter Message **ALW:FILESYS:ACCESS 755,FN"/cft/sh1/cmds/COPY/APPFILE"!** To Restore Execute Permissions to **COPY:APPFILE** Program	NCC	—
	WARNING: Item 78 will delete any reference to 4E24 generic in NORMAL and UPDATE files. In order to go back to 4E24 generic, a System Reinitialization (SR) will be required		
78	Commit to 4E25 Generic	NCC	DLP-537

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

			DATE	TIME	SIGNATURE
1	**Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed**	—			
2	At 3B MCRT, if Screen Displays EAI Page, Depress **NORM/DISP** (**PF2**) Key	—			
3	Enter **101** in Command Mode To Obtain Display Page 101	—			
4	Depress **CMD/MSG** (**PF3**) 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 (**OP:APPLOAD UPD!**)	DLP-500			
6	If Data Base Is To Be Loaded by Off-Line Processor, Go to Item 17; Otherwise, Perform Items 7 Through 16	—			
7	If Test ODA Update Process Is Expected To Last Through Midnight				
	1. At 3B MCRT, Enter Message **INH:DMQ;SRC REX!** To Inhibit REX	—			
	2. At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	—			
8	If Network Management Tape Is Not Available, Write Network Management (NWM) Tape	DLP-534			
9	Select Option A or B; and Proceed as Directed To Load ODA				
	A. If ODA Is on Tape:				
	1. Obtain New ODA Tape and Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct	—			
	2. Mount new ODA on Idle Digital Audio (DAT) Unit	DLP-501			
	3. 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			
	(Continued on Page 2)				

TEST ODA UPDATE PROCESS

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

			DATE	TIME	SIGNATURE
9 (Contd)	4. Load New ODA on Disk (LOAD:UPDATE:ODA "aaaabb",MT c!) *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*	DLP-535			
	5. If ODA Tape Load Was Successful, Go to Item 9.A.9; If It Was Aborted, Perform Item 9.A.6 Through 9.A.8	—			
	6. At DAT Unit, Containing Tape That Failed, Demount Tape	DLP-504			
	7. At 3B MCRT, Enter Message OP:OOS! and Ensure That All Units Are in Service	DLP-506			
	8. Repeat From Item 9.A.2 Using Another Copy of Tape That Failed	—			
	9. Demount Tape on Idle DAT Unit	DLP-504			
	B. If ODA Is in ODA Manager File:				
	1. At 3B MCRT, Enter Message OP:STATUS:LISTDIR,FN"/etc/bwm"! and Ensure That omgroda File Is Listed. If omgroda Is Not Listed, Contact next Higher Support Group for Resolution. Proceed as Directed by Next Higher Support Group	DLP-541			
	2. Enter Message VER:UPDATE:TAPE,MT "/etc/bwm/omgroda"! and Record BASE and CONTROL Numbers for Later use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office	DLP-542			
	3. Load New ODA on Disk (LOAD:UPDATE:ODA "aaaabb",MT "/etc/bwm/omgroda"!) *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*	DLP-544			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
9 (Contd)	4. If ODA Load Was Successful, Go to Item 10; If It Was Aborted, Perform Item 9.B.5	_			
	5. Contact Next Higher Support Group for Resolution. Proceed as Directed by Next Higher Support Group	_			
10	Obtain New Network Management Tape	_			
11	Mount New Network Management Tape on DAT Unit and Verify Tape Identification Is Correct for Update	DLP-507			
12	Load New Network Management on Disk and Complete Data Base	DLP-508			
	NOTE: 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 ODA UPDATE** output message, loading process is complete				
13	If Loading of Network Management Tape Was Successful, Go to Item 17. If It Was Aborted, Perform Items 14 Through 16	_			
14	Demount Network Management Tape From DAT Unit	DLP-504			
15	At 3B MCRT, Enter Message **OP:OOS!** and Ensure That All Units Are in Service	_			
16	Repeat From Item 9 Using Another Copy of Tape That Failed	_			
17	At 3B MCRT, Enter Message **COPY:LSNC ALL!** To Rebuild Large-Scale Nailup Connections and Update TOSL in UPDATE File	_			
18	After **VER** Message Has Been Entered (Item 19) and If No Critical Overwrites Are Required (Item 20), Procedure Can Be Continued At Item 21 Without Waiting for Verify To Complete. Printout Must Be Observed Periodically for Errors	_			
19	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (**VER:APPFILE UPD!**)	DLP-509			
20	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-510			

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

			DATE	TIME	SIGNATURE
21	Compare Critical Data in New ODA With Data in Active System by Performing Items 22 and 23	_			
22	Run Cross-Translations Compare Program	DLP-511			
23	Analyze, With Help From Support Organization, Results of Compare for Unexpected Mismatches	_			
24	If Compare DID NOT Find Unexpected Mismatches, Go to Item 26; Otherwise, Continue With Next Item	_			
25	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 20	_			
	B. If It Is Determined that Corrections Cannot Be Made Within the Hour, Await Further Instructions Before Proceeding	_			
26	Write 3B APS Backup Tapes Using 234-351-002 (Maintenance Operation Center)	_			
27	If Data Base Was Loaded by Tape, Perform Items 28 Through 31; Otherwise, Go to Item 32	_			
28	Demount Tape(s) From DAT Unit(s)	DLP-504			
29	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	_			
30	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	_			
31	End of Procedure	_			
32	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	**Enter Date, Time, and Signature or Place Check Mark Beside Item or Subitem When Completed**	–			
2	***If a Received Response Does Not Match the Given Response in This Procedure, Contact Next Higher Technical Support Group for Resolution***	–			
3	***If There Is any Question Concerning a Step in This Procedure, Contact Next Higher Technical Support Group for Clarification***	–			
4	Before Starting, Review and Become Familiar With DLP-523	–			
5	At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	–			
6	Enter Message **OP:TSGSTAT;SUM:ALL!** To Obtain Trunk Subgroup Status Summary; Save Printout in a File for Trunk Circuit Recovery Verification	–			
7	Enter Message **OP:OOSUNITS!** and Ensure That Required Units Are in Service	DLP-512			
8	Verify No Audits Inhibited. If Audits Are Inhibited, Take Corrective Action as Determined by Appropriate Support Organization	DLP-519			
9	At 3B MCRT, Enter Message **INH:DMQ;SRC REX!** To Inhibit REX	–			
10	At 3B MCRT, Enter Message **OP:OOS!** and Ensure That Required 3B Computer Units Are in Service	DLP-506			
11	At 3B MCRT, Verify Data Base To Ensure That Generic Is **4E<25>5x.yy Ra** and Proper Office Is Listed (**OP:APPLOAD UPD!**)	DLP-520			
12	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-510			
	NOTE: If schedules that are entered by **SCHED:MEAS** input message are to be retained for update, include **MEAS** option in **LOAD** message				
13	At 3B MCRT, Map Dynamic Data From NORMAL File to UPDATE File (**LOAD:UPDATE:MAP[,MEAS]!**)	DLP-521			
	CAUTION: Item 13 must be completed before performing Item 14 to prevent errors when verifying 1AFILE hashed areas				
14	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (**VER:APPFILE UPD!**)	DLP-509			

PERFORM UPDATE (FOR LEC OFFICES ONLY)

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

			DATE	TIME	SIGNATURE
15	At 3B MCRT, Enter Message **COPY:LSNC TOSL!** To Update TOSL in UPDATE File; Ensure **REPT LSNC: LSNC MAPPING COMPLETE** Message Is Received	DLP-546			
16	Prepare 1B Processor MCC Terminal for Manual Recovery	DLP-522			
17	Manually Update 1B Processor	DLP-523			
18	If Attempt To Configure to New System Was Successful, Go to Item 23. If Unsuccessful, Perform Items 19 Through 22 Because System Is Returned to 4E24 Data Base	–			
19	**ENTERING THIS STEP BECAUSE BACKOUT TO 4E24 OCCURRED.** At 1B MTC Terminal, Enter Message **UPD:COMMIT;NORMFILE!**	–			
20	At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress **EA DISP** Key	–			
21	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed				
22	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	–			
23	**SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.** Perform Items 24 Through 28 To Restore 1B Processor Complex Units	–			
24	At 1B MTC Terminal, Enter Message **OP:MACLI,CLASS MTCE!**	–			
25	If 1B Processor Complex Unit(s) Is Listed in Printout, Go to Item 28; Otherwise, Perform Items 26 Through 28	–			
26	At 1B MTC Terminal, Enter Message **OP:OOSUNITS!**	–			
	NOTE: IFB must be restored before restoring MUP, AUI, or SSD				
27	If 1B Processor Complex Unit(s) Is Listed in Printout, Enter Restore Message To Restore Each Unit Listed	–			

PERFORM UPDATE (FOR LEC OFFICES ONLY)

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

			DATE	TIME	SIGNATURE
	NOTE: 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				
28	Periodically Repeat From Item 24 While Continuing To Perform Succeeding Steps in This NTP Until 1B Processor Complex Units Are Restored	–			
29	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	DLP-525			
30	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 **OSOR SCHEDULES** Are **NOT CHANGED** and **COUNT DATA BASE** Is **UPDATED**	–			
31	When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock	DLP-526			
32	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 Support Group for a and bb Variables)	–			
33	At 1B MTC Terminal, Enter Message **INH:MACLI,CLASS MTCE;REX!** To Inhibit REX	–			
	NOTE: Items 37 through 41 can be performed at same time as Items 34 through 36				
34	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 36. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Support Group for Resolution	–			
35	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 19)	–			
36	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 20)	–			
37	Run Audits 43, 44, 45, 66, and 72 (Items 38 Through 41)	–			

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

			DATE	TIME	SIGNATURE
38	At 1B MTC Terminal, Enter Message **AUD:NUM (43,44,45,66,72)!**	—			
39	While Audits Are Running, Continue To Perform Succeeding Items	—			
40	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	—			
41	During Execution of Audits 43 and 66, Scan Output Messages Periodically for Abort Message	—			
42	At 1B MTC Terminal, Restore Out-of-Service Units	DLP-528			
43	If Office Is Arranged for CAMA, Check CAMA Operation	DLP-536			
44	At 3B MCRT, Depress **NORM/DISP (PF2)** Key and Enter **1106** in Command Mode To Obtain Display Page 1106	—			
45	Ensure **RING POS** Is **NORM** and **MAJOR STATE** Is **ACT** for Each Equipped CNI Ring Link Node	—			
46	Enter **1107** in Command Mode To Obtain Display Page 1107	—			
47	Ensure One Direct Link Node Is Assigned **1WAY IN** and One Direct Link Node **1WAY OUT**. Both Direct Link Nodes Must Have **HDWR STATE** and **APPL STATE** of **ACT**. If Four Direct Link Nodes Are Listed, **HDWR STATE** Must be **ACT** and **APPL STATE** Must Be **STBY** for Direct Link Nodes Not Assigned **1WAY IN** or **1WAY OUT**	—			
48	Enter **1108** in Command Mode To Obtain Display Page 1108	—			
49	Ensure **LINK STATE** Is **AVL/IS** or **AVL/STBY** and **NODE STATE** Is **ACT** for Each Equipped Signaling Link	—			
50	At 1B MTC Terminal, Enter Message **OP:MSGRCD,FS!** To Clear Recorded Message Area on Disk (**NG** Is Proper Response - No Messages To Clear on Disk)	—			
51	At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, as Required	DLP-529			
52	At 1B MTC Terminal, Enter Message **OP:TSGSTAT;SUM:ALL!** To Obtain Trunk Subgroup Status Summary. Compare Printout With Printout Saved in Item 6	—			
	(Continued on Page 5)				

PERFORM UPDATE (FOR LEC OFFICES ONLY)

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

			DATE	TIME	SIGNATURE
53	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	—			
54	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	—			
55	Notify Network Management Center To Begin Checkout of Network Management System	DLP-530			
56	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	—			
57	Compare Count of Ineffective Machine Attempts With Preupdate Level	—			
58	If Office Provides CAMA Service, Monitor CAMA Call Activity; Compare With Expected Level	—			
59	Determine That Manually Placed Calls and System-Placed Test Calls Complete Successfully	—			
60	At 1B MTC Terminal, Enter Message **INIT:PUEXINIT!**	—			
61	If Security Call Traps Existed Prior to Update, Request Network Management To Enter Security Call Traps per Local Practice	—			
62	At 1B MTC Terminal, Enter Message **ALW:MACLI,CLASS MTCE!** To Allow REX	—			
63	At 3B MCRT, Enter Message **ALW:DMQ;SRC REX!** To Allow REX	—			
64	At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	—			
65	If **801 - RESTRICT RC** Is Colored Black on White, Enter **801**	—			
66	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	—			

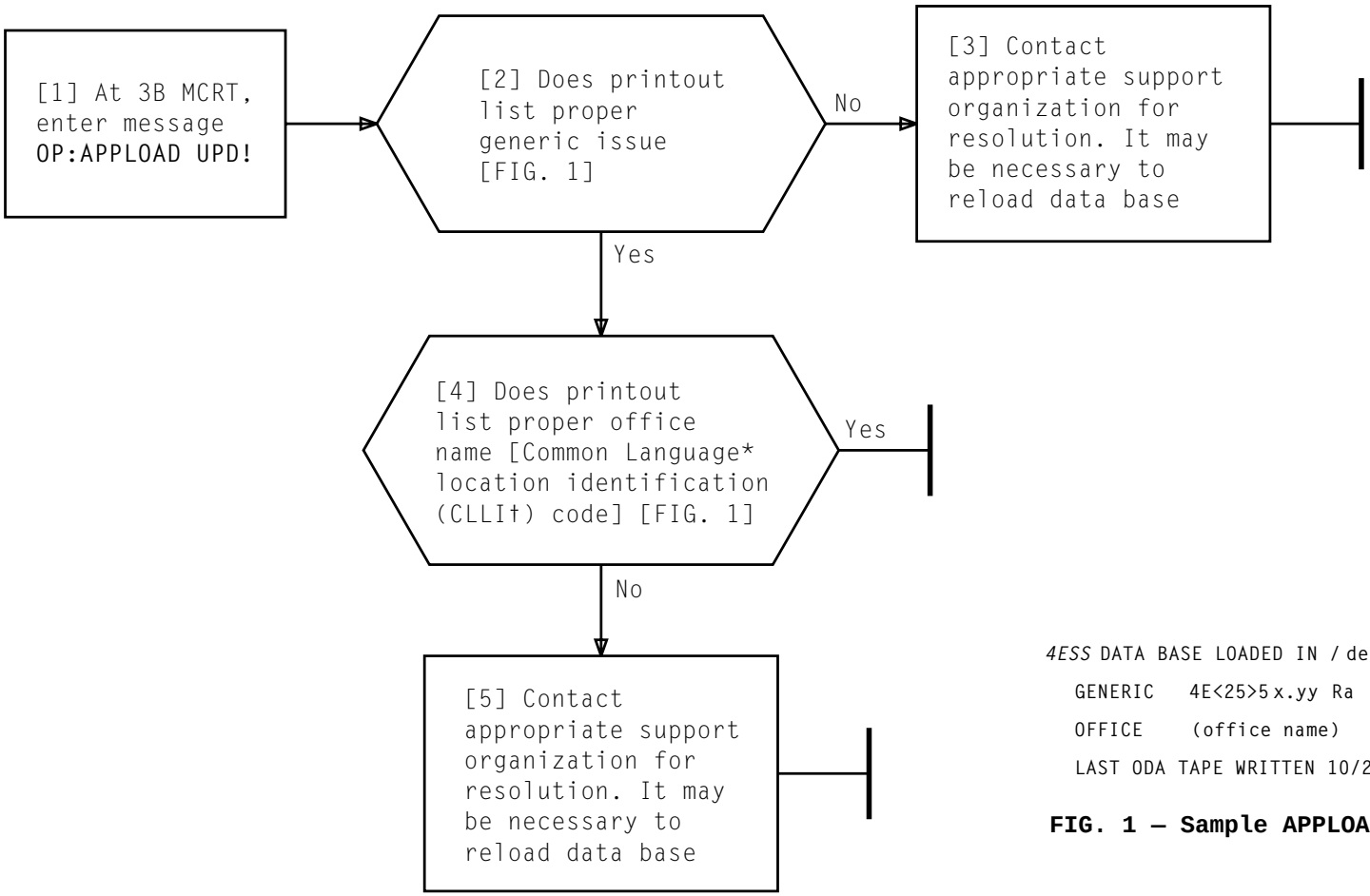
DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

			DATE	TIME	SIGNATURE
66 (Contd)	2. Wait Until Update Is Complete Before Continuing	—			
	3. Notify Network Management Center To Complete Network Management System Checkout	DLP-532			
67	If Office Is CAMA Equipped, Install Any Special CAMA Data per Local Practice, as Required	—			
68	Load Library Tape in File System:				
	A. For Office Loading an Original Library Tape	DLP-531			
	B. For Office Loading a Backup Library Tape	DLP-540			
69	At 1B MTC Terminal, Enter Message **AUD:NUM (43,44,45,66,72)!;** Do Not Continue Until Audits Have Completed With 0 Errors	—			
	NOTE: Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour				
70	Write Backup Long-Term Storage (LTS) Tape	DLP-513			
71	Write Updated Traffic and Plant Measurement (TPM) Schedule Tape	DLP-514			
72	If Any 4E25 Overwrites Are To Be Installed, Install per Local Practice	—			
73	Write Backup TOSL Tape	DLP-515			
74	Write Backup Library (LIB) Tape	DLP-533			
75	Write Backup Network Management (NWM) Tape	DLP-534			
76	Write Backup 1B ODA Tapes, if Required	DLP-538			
77	Write Backup 1B Generic Tapes, if Required	DLP-539			
78	If omgroda File (ODA) Was Loaded into the UPDATE File, Remove the omgroda File From /etc/bwm Directory on the 3B APS	DLP-545			
79	Request Next Higher Support Group To Determine if Office Can Commit to 1B Processor Generic. Do Not Proceed Without Permission From Next Higher Technical Support Group				

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

			DATE	TIME	SIGNATURE
	WARNING: Item 80 will delete any reference to 4E24 generic in NORMAL and UPDATE files. In order to go back to 4E24 generic, a System Reinitialization (SR) will be required				
80	Commit to 4E25 Generic	DLP-537			

PERFORM UPDATE (FOR LEC OFFICES ONLY)



4ESS DATA BASE LOADED IN / dev/1afile0 IS:

GENERIC 4E<25>5 x.yy Ra

OFFICE (office name)

LAST ODA TAPE WRITTEN 10/25/99 AT 19:51

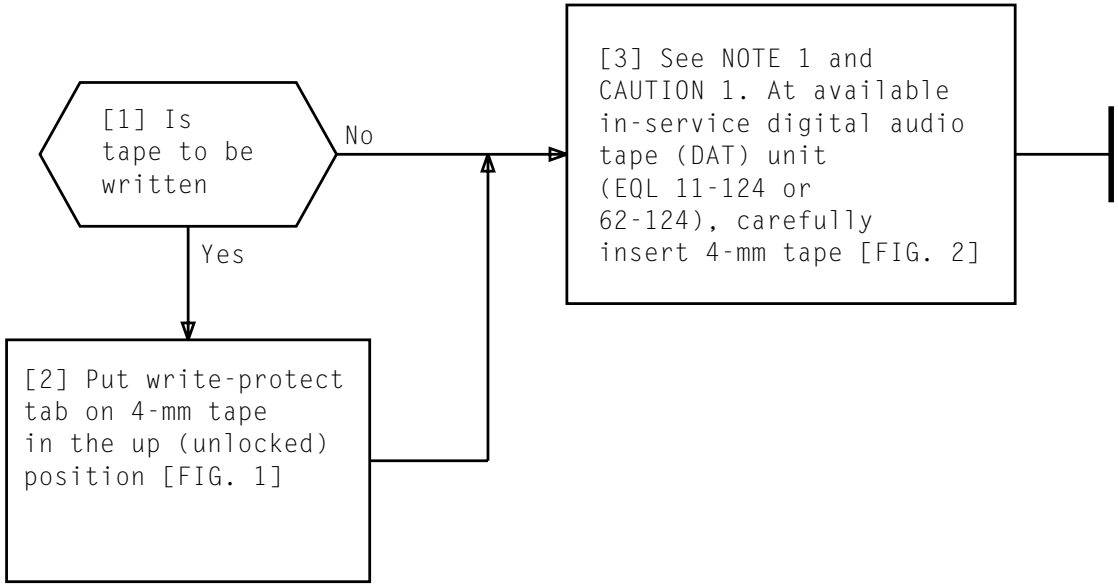
FIG. 1 — Sample APPLOAD Printout

* Registered trademark of Bell Communications Research, Inc.

† Trademark of Bell Communications Research, Inc.

VERIFY DATA BASE

MOUNT TAPE ON 3B DIGITAL AUDIO TAPE (DAT) UNIT



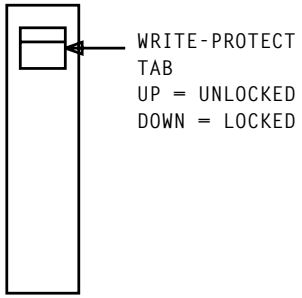


FIG. 1 — 4-mm Tape

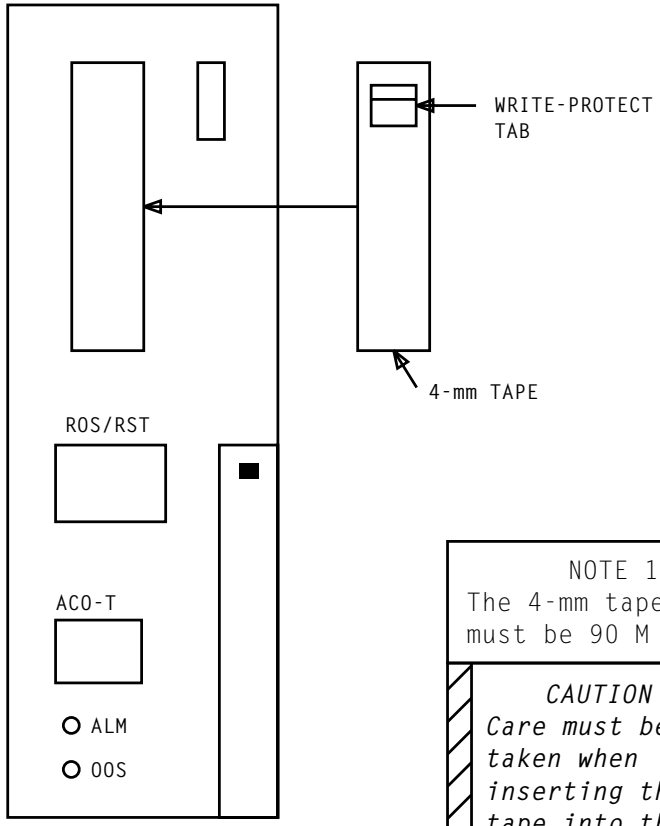
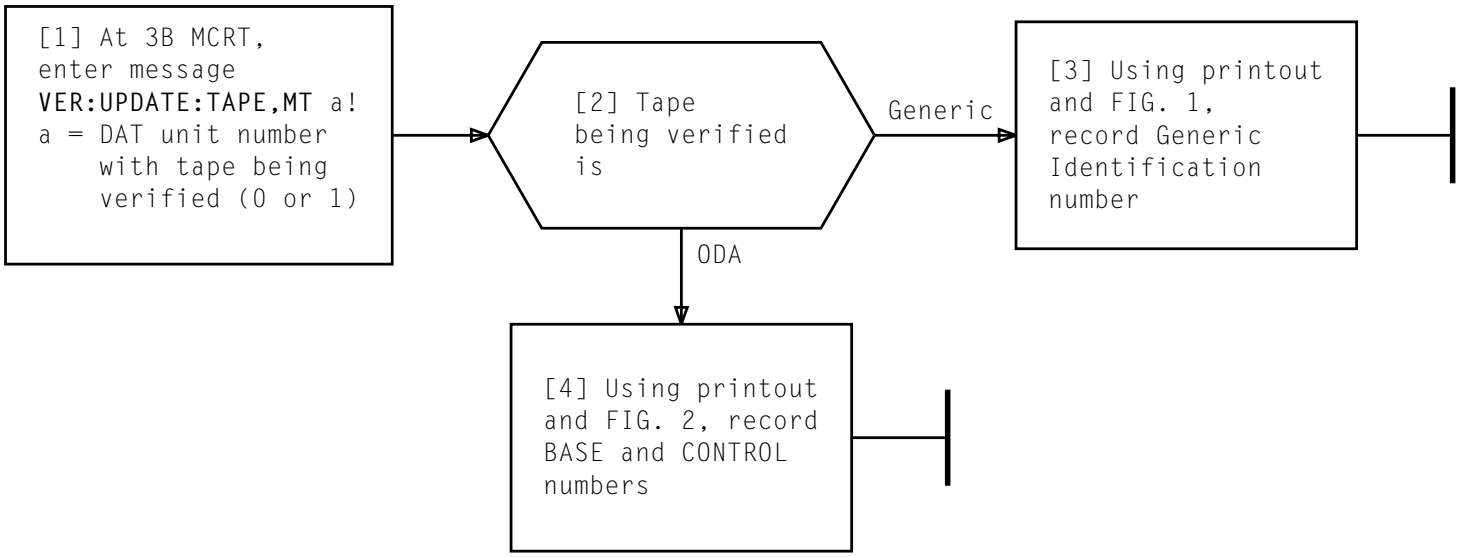


FIG. 2 — DAT Unit

NOTE 1
The 4-mm tape length must be 90 M

CAUTION 1
Care must be taken when inserting the tape into the DAT unit. Tape must not be forced



TAPE TYPE: GEN

GENERIC 4E<25>5A.01 R1 ← Record This Value

MOST RECENT OFL GENERATION: YR 99,MON 10,DAY 04 AT 11:28

THIS TAPE WRITTEN: YR 99,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<G25>.4R

MOST RECENT OFL GENERATION: YR 99,MON 10,DAY 05 AT 16:23

THIS TAPE WRITTEN: YR 99,MON 11,DAY 09 AT 08:23

FS IDS: 0000000000001000,TAPE IDS: 0000000011110100

PRTL UPD FLG: 0,PHASE REQD: 0001000

FIG. 2 — Sample ODA Tape Header Printout

RECORD TAPE HEADER INFORMATION

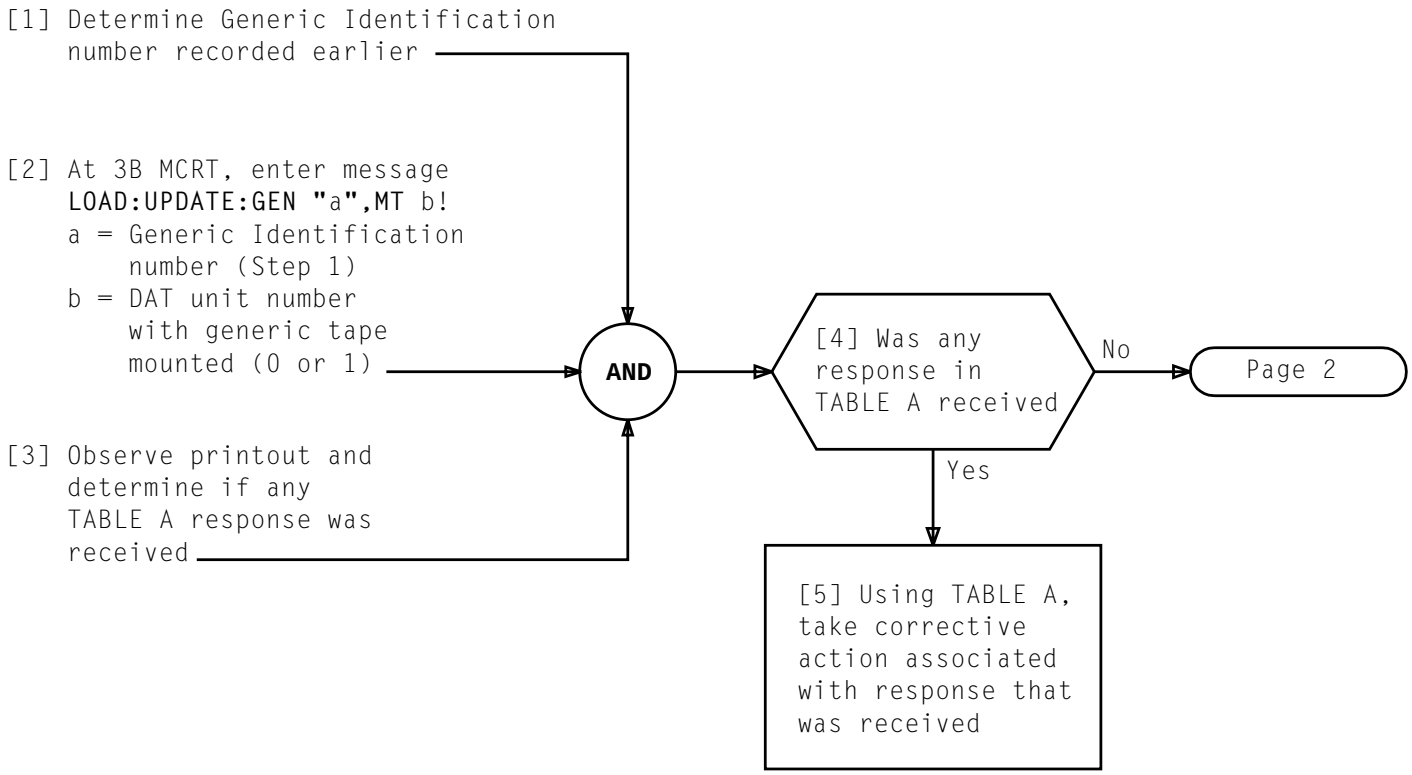
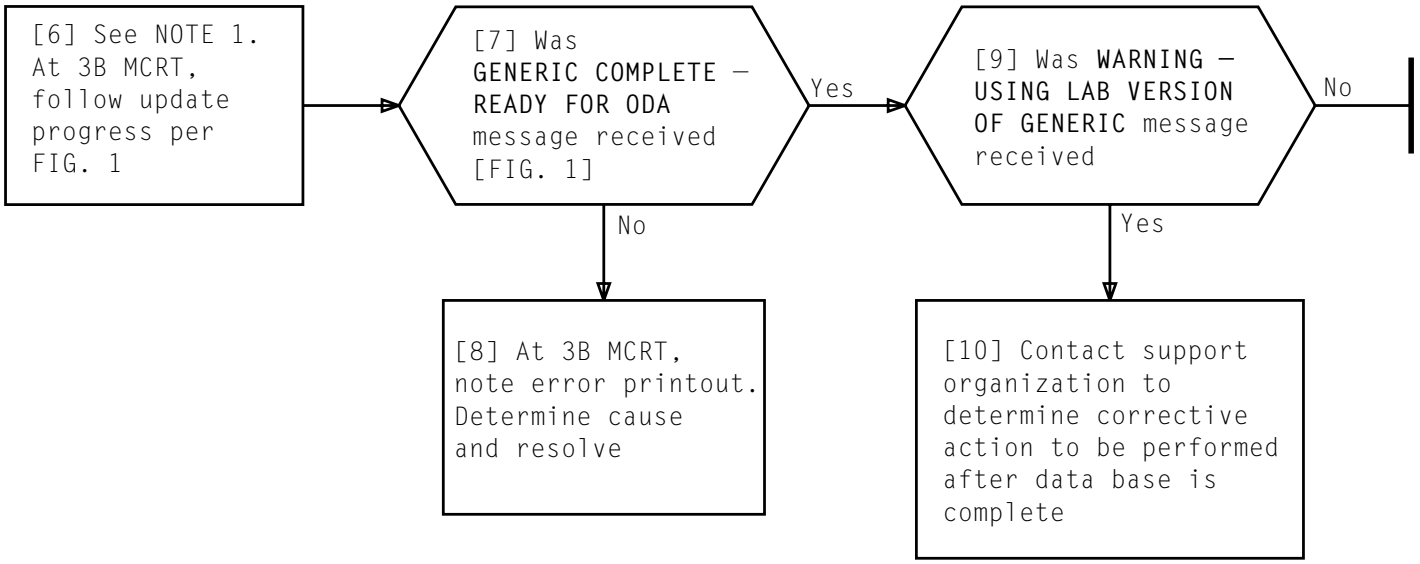


TABLE A

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

LOAD NEW GENERIC ON DISK

[1] At digital audio tape (DAT) unit that contains tape to be removed, depress eject button [FIG. 1]

[2] Was tape just written

No

Yes

[3] Put write-protect tab in the down (locked) position [FIG. 2]

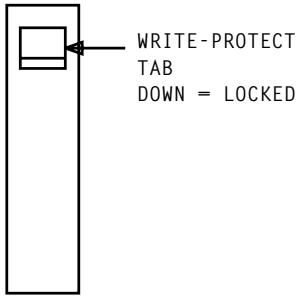


FIG. 2 – 4-mm Tape

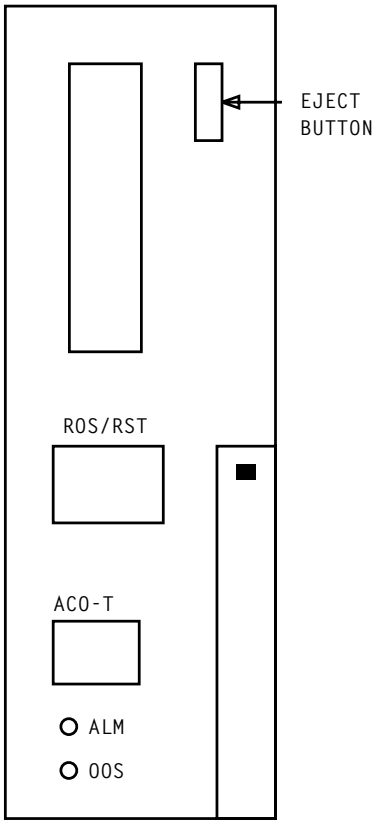


FIG. 1 – DAT Unit

REMOVE TAPE FROM 3B DIGITAL AUDIO TAPE (DAT) UNIT

[1] Determine BASE and CONTROL
numbers recorded earlier

[2] At 3B MCRT, enter message
LOAD:UPDATE:CONT "aaaabb",MT c!
aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long
bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long
c = DAT unit number with ODA tape mounted (0 or 1)

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

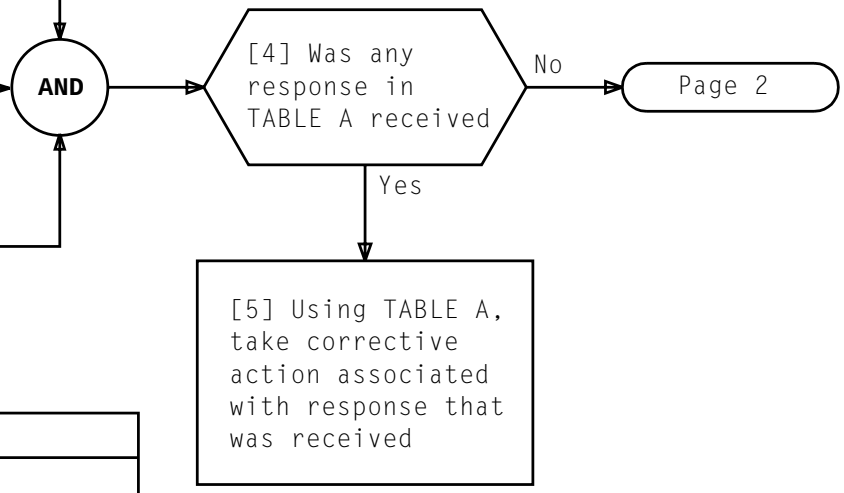
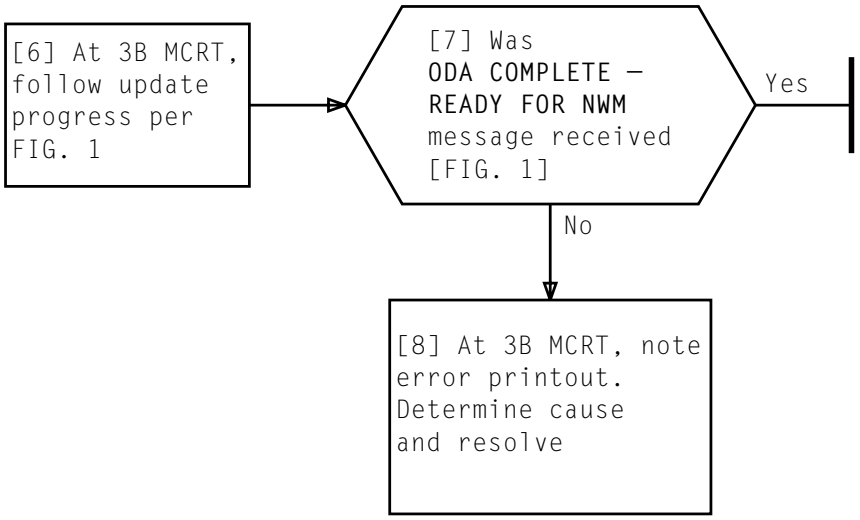


TABLE A

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

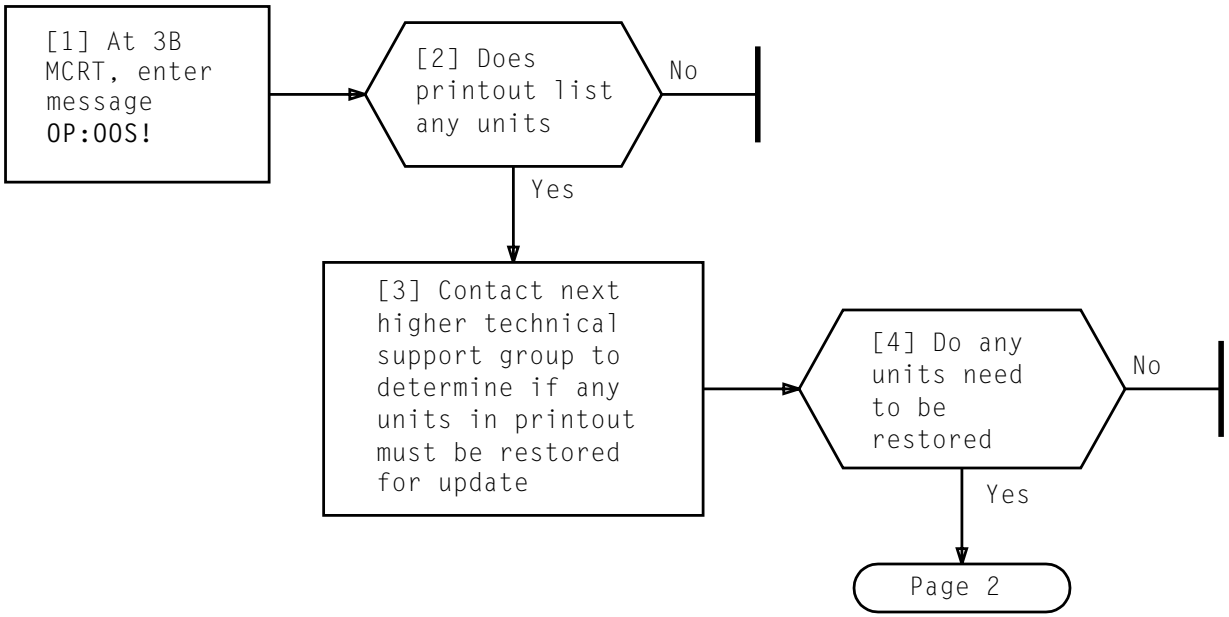
LOAD NEW ODA ON DISK FOR GENERIC RETROFIT



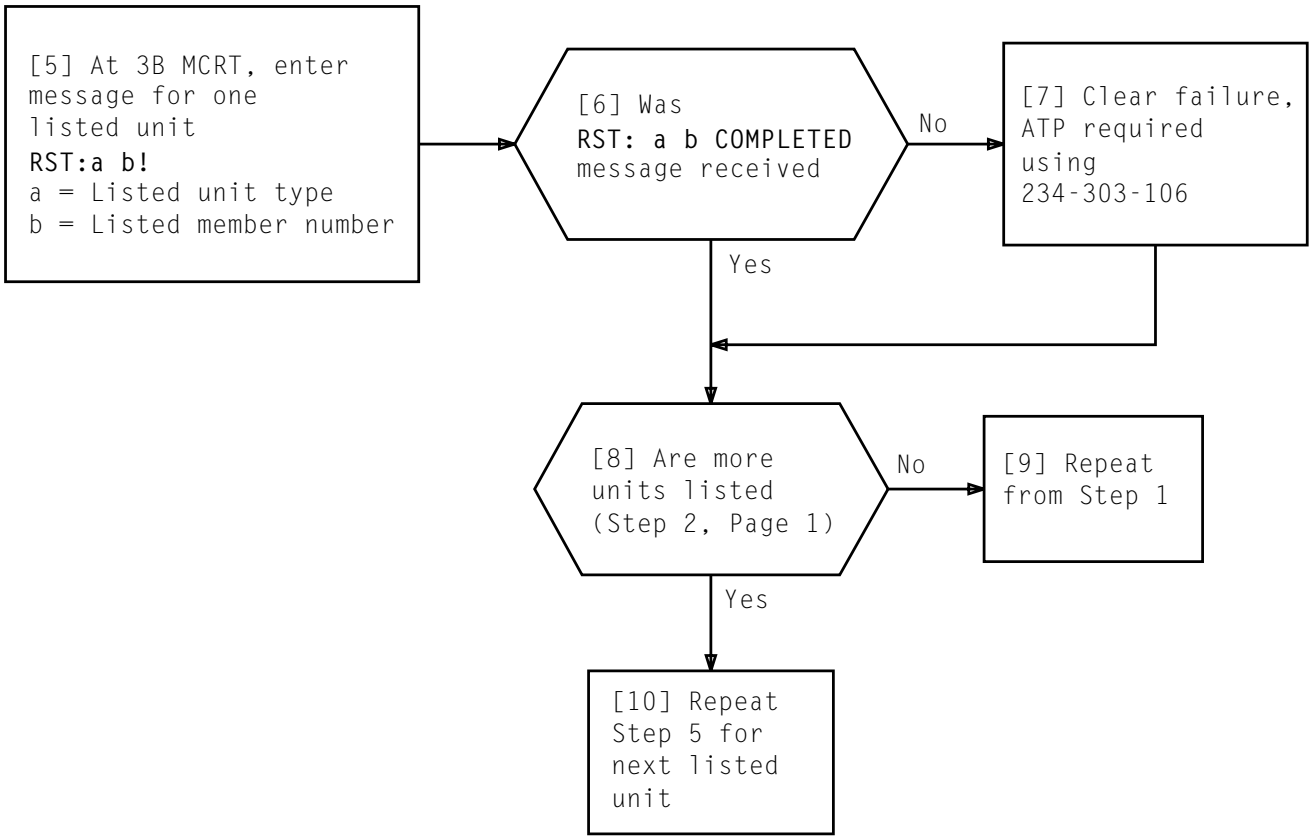

```
TAPE HEADER
            .
            .
            .
TAPE FILE 10 LOADED TO FS
            .
TAPE FILE n LOADED TO FS

ODA COMPLETE - READY FOR NWM
```

FIG. 1 – Sample ODA Load Printout

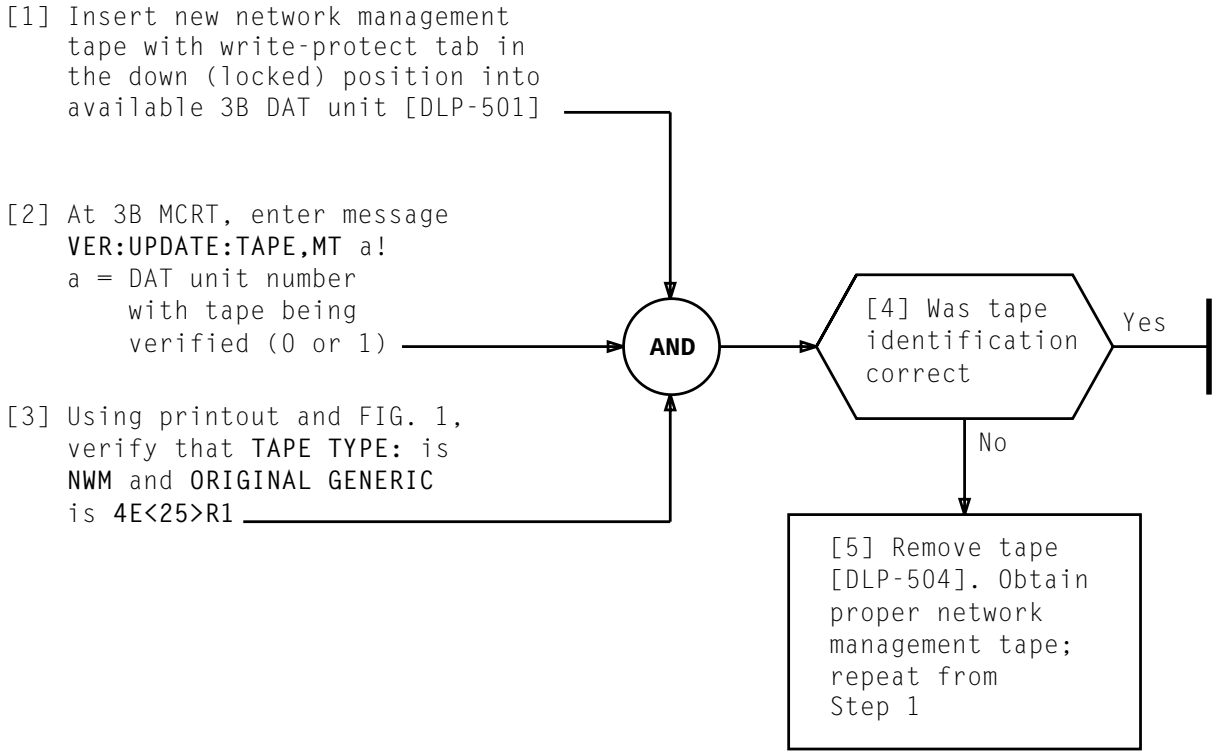
LOAD NEW ODA ON DISK FOR GENERIC RETROFIT



ENSURE 3B COMPUTER UNITS ARE IN-SERVICE



ENSURE 3B COMPUTER UNITS ARE IN-SERVICE




```
TAPE TYPE: NWM
ORIGINAL GENERIC 4E<25>R1
MOST RECENT OFL GENERATION: YR 99,MON 10,DAY 06 AT 08:30
THIS TAPE WRITTEN: YR 99,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

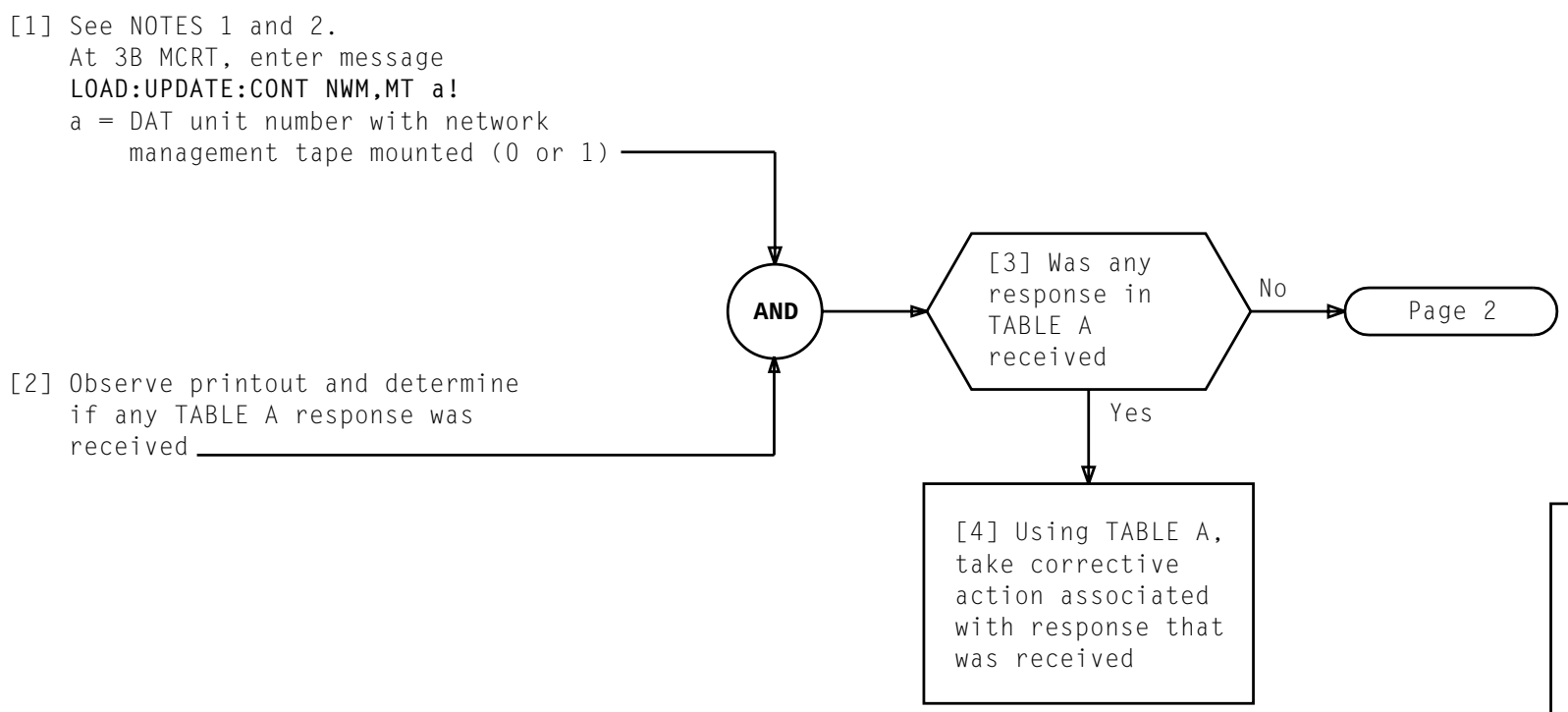


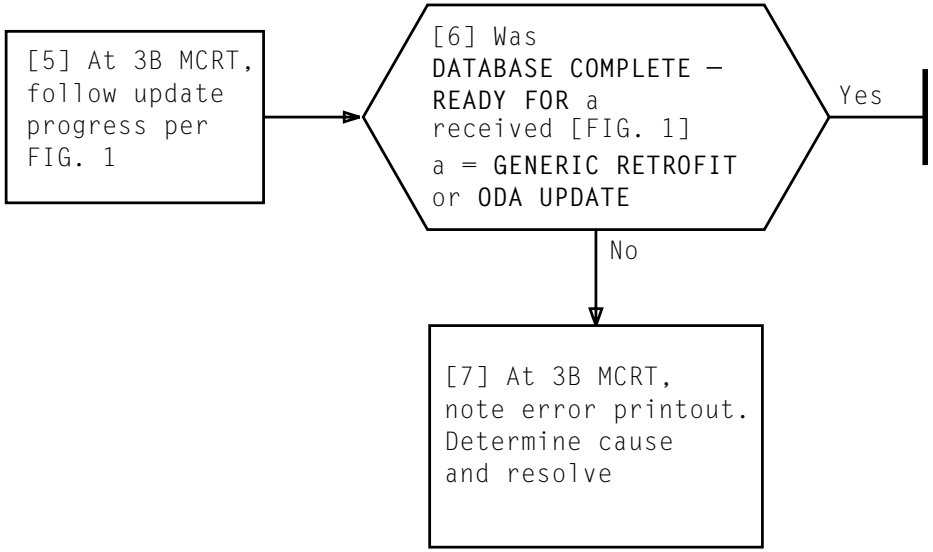
TABLE A

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

NOTES

1. When network management is loaded satisfactorily, system will complete building data base
2. After receiving **MAPPING DYNAMIC DATA FROM NORMAL FILE** output message, **WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR** may be received. System will automatically map dynamic data when in proper window

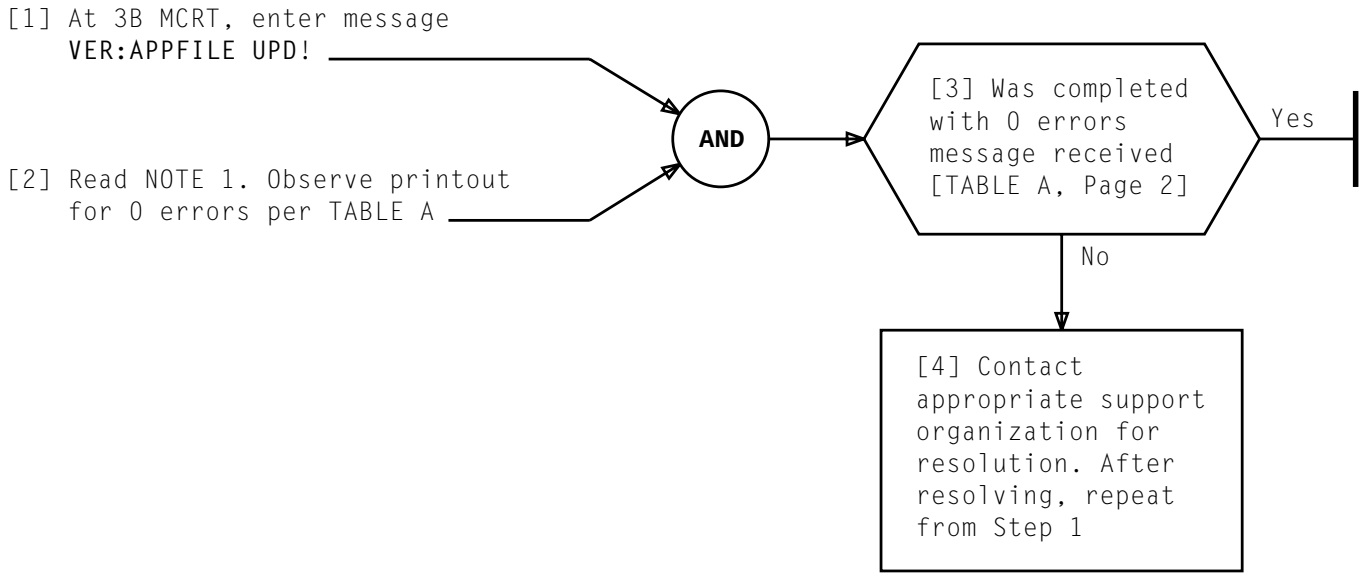
LOAD NETWORK MANAGEMENT ON DISK AND COMPLETE DATA BASE




```
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

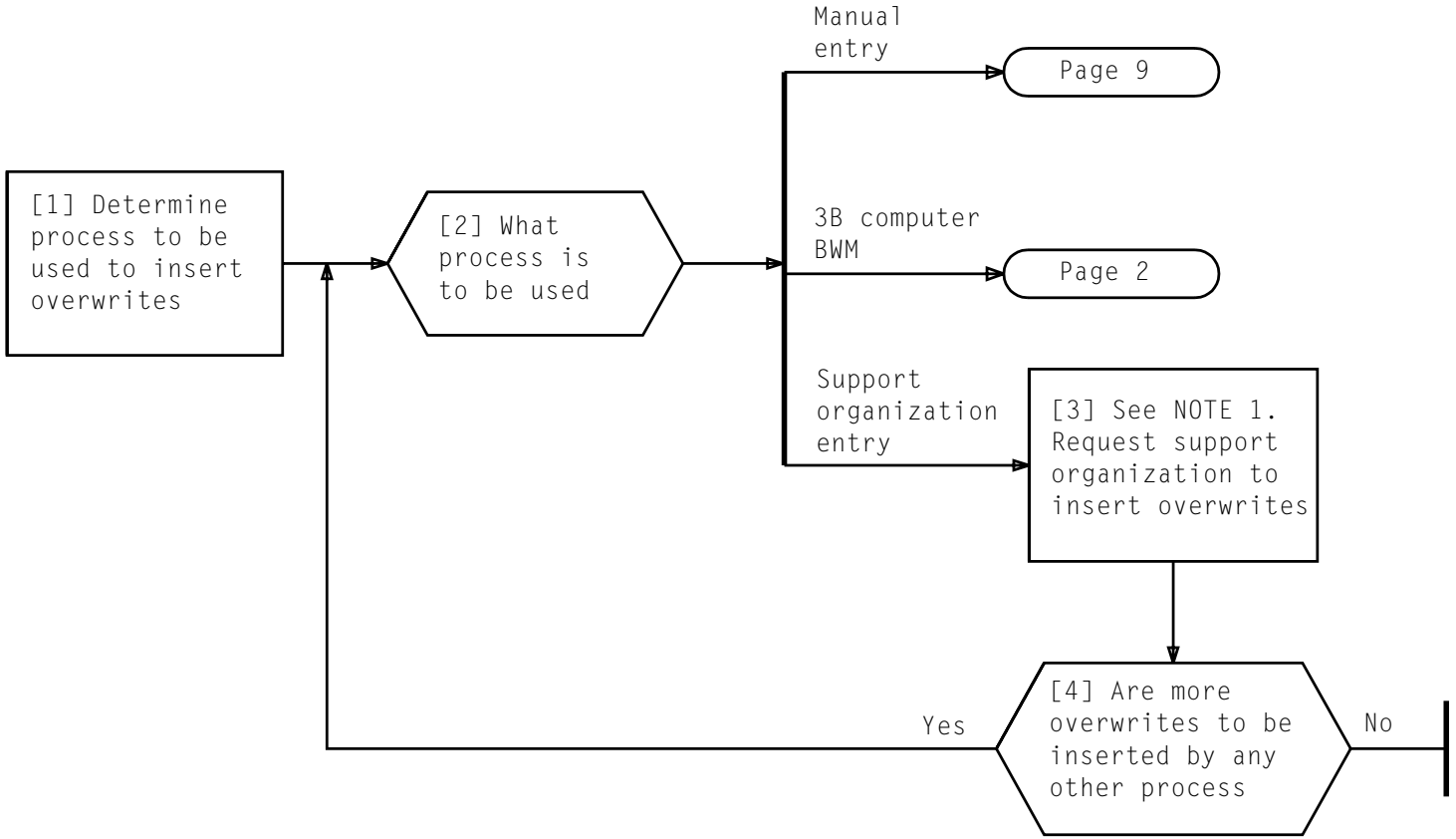
LOAD NETWORK MANAGEMENT ON DISK AND COMPLETE DATA BASE



VERIFY 1AFILE HASHED AREAS

NOTE 1
It takes approximately 35 minutes for verify to complete

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



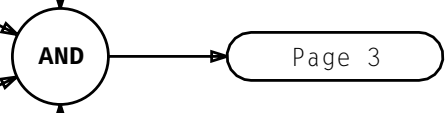
NOTE 1
Overwrites from support organization must be in form of TABLE E or TABLE F, Page 9

INSERT CRITICAL OVERWRITES INTO UPDATE FILE

[5] At 3B MCRT, press **NORM DISP** (**PF2**) key and enter **1960** in command mode to obtain display page 1960

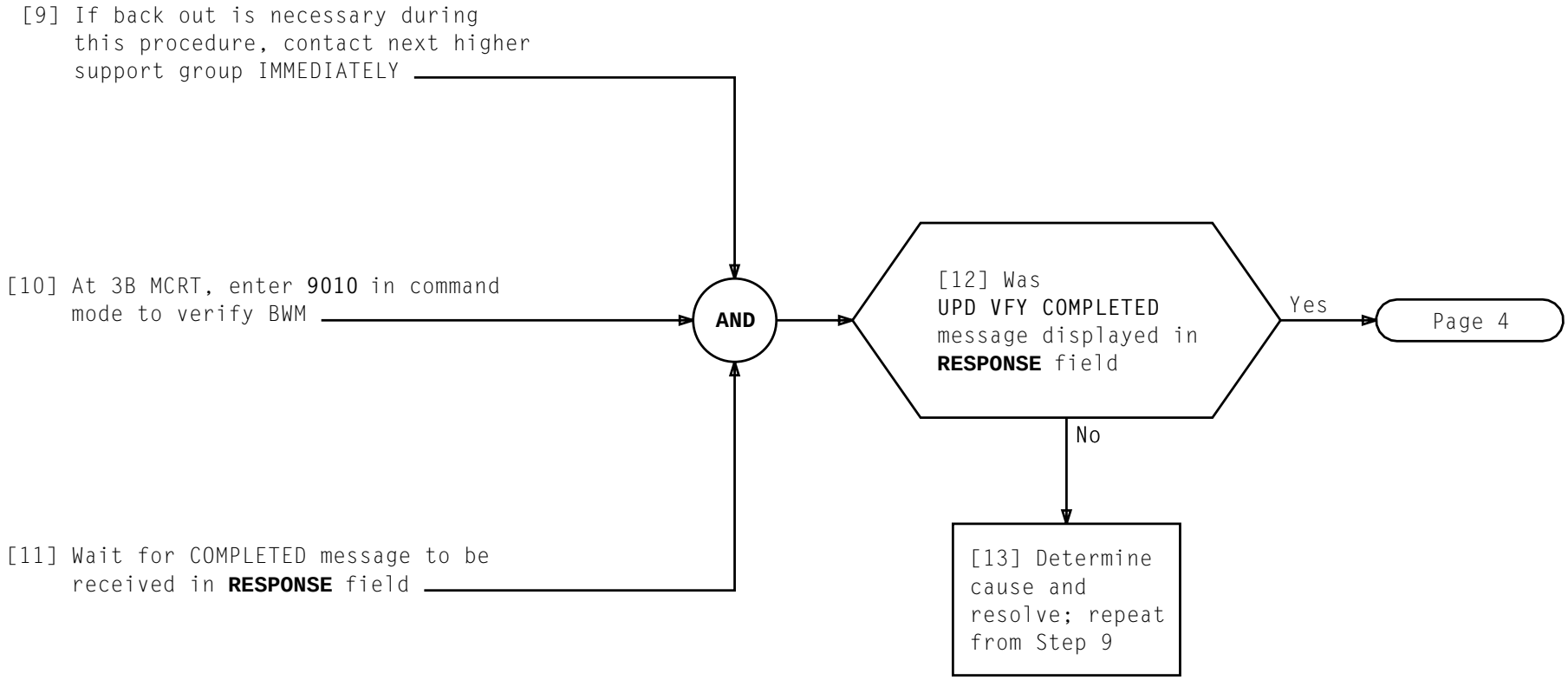
[6] Enter **9000,** AAAxx-xxxx in command mode to select BWM
AAAxx-xxxx = BWM number to be installed

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

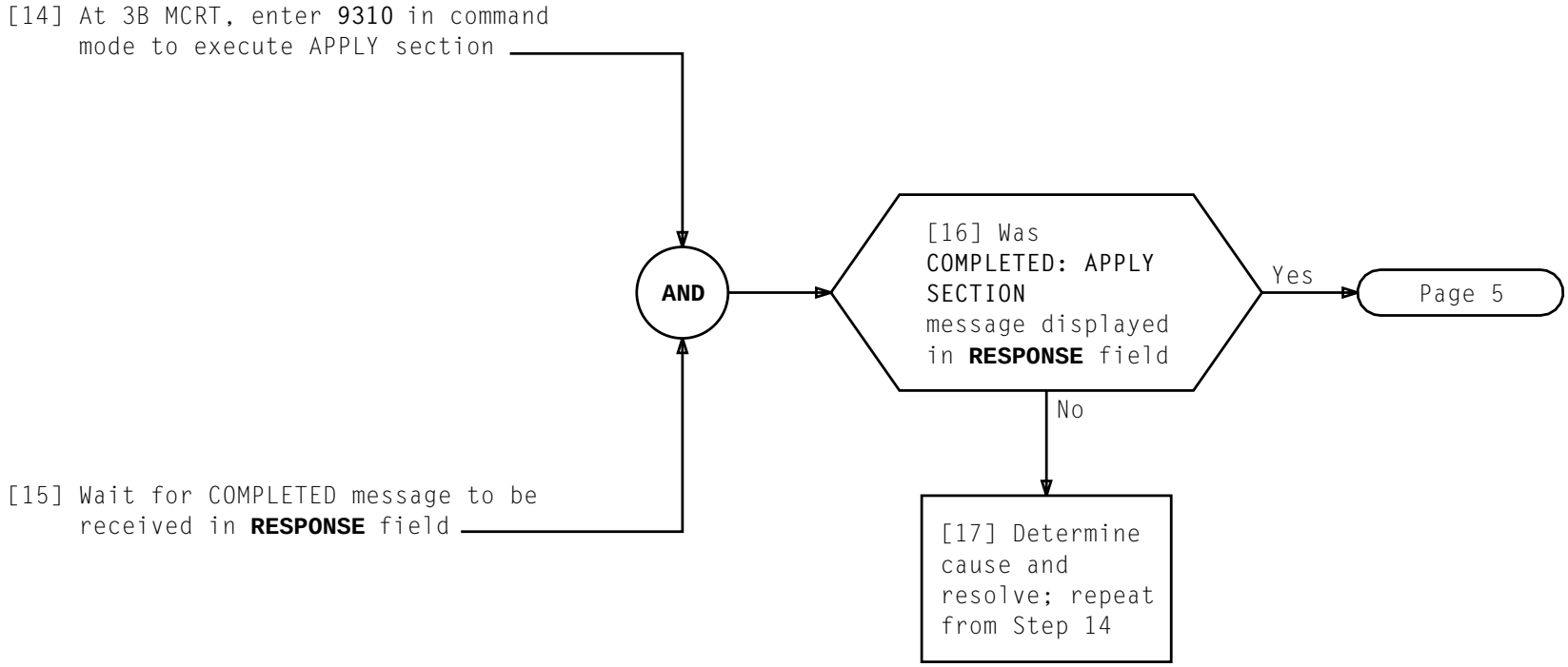


[8] Using printout, determine if special instructions are required for this BWM. Save printout for later use if special procedures required after BWM is applied

INSERT CRITICAL OVERWRITES INTO UPDATE FILE



INSERT CRITICAL OVERWRITES INTO UPDATE FILE



INSERT CRITICAL OVERWRITES INTO UPDATE FILE

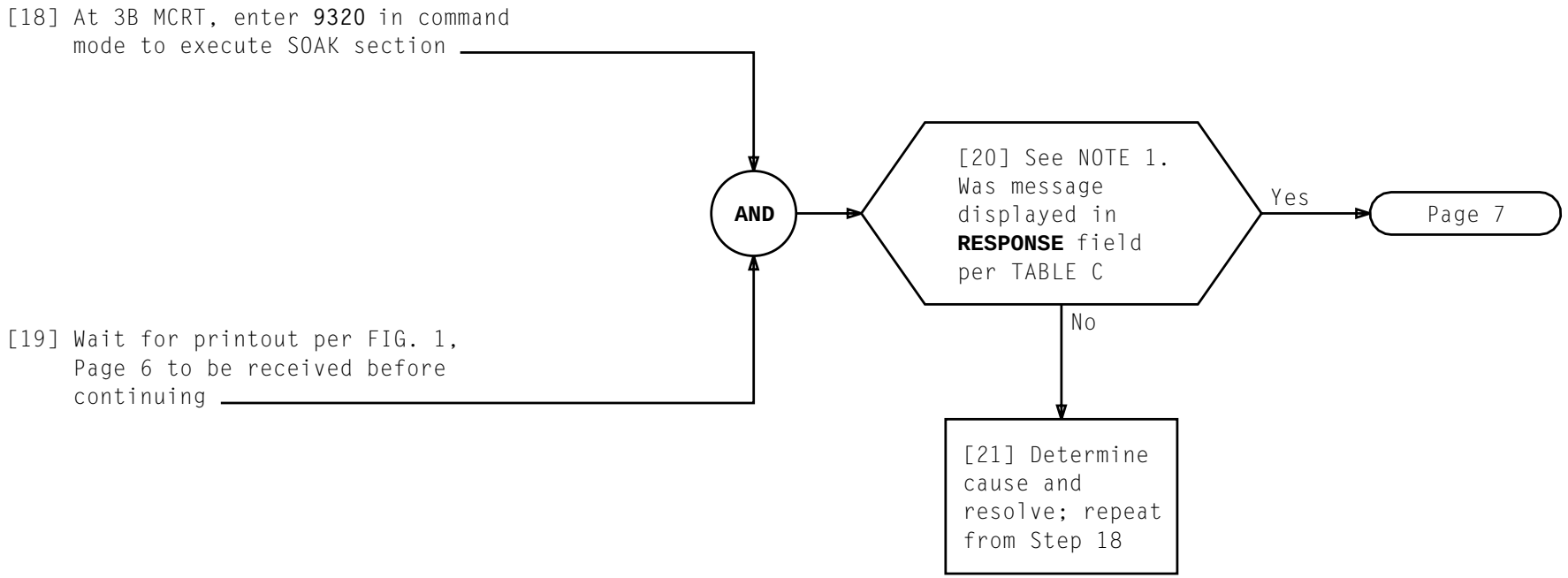


TABLE C	
MESSAGE NUMBER	**OUTPUT MESSAGE**
1	SOAK PERIOD COMPLETED: SOAK SECTION

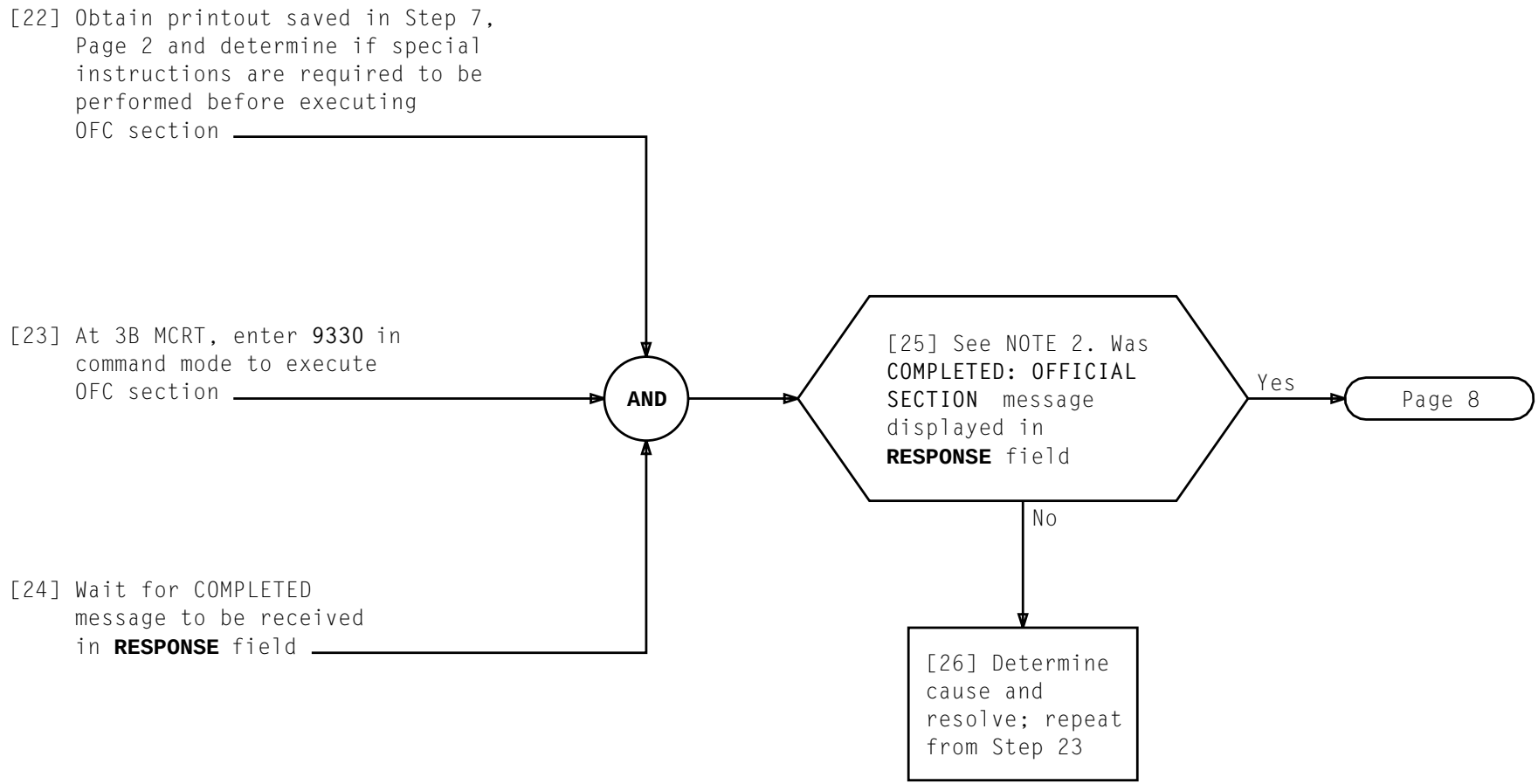
NOTE 1

The **END** field under **CURRENT SOAK TIMER** section (FIG. 1, Page 6) indicates the time response should be received

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



NOTE 2

Time to finish OFC section is dependent on BWM size

INSERT CRITICAL OVERWRITES INTO UPDATE FILE

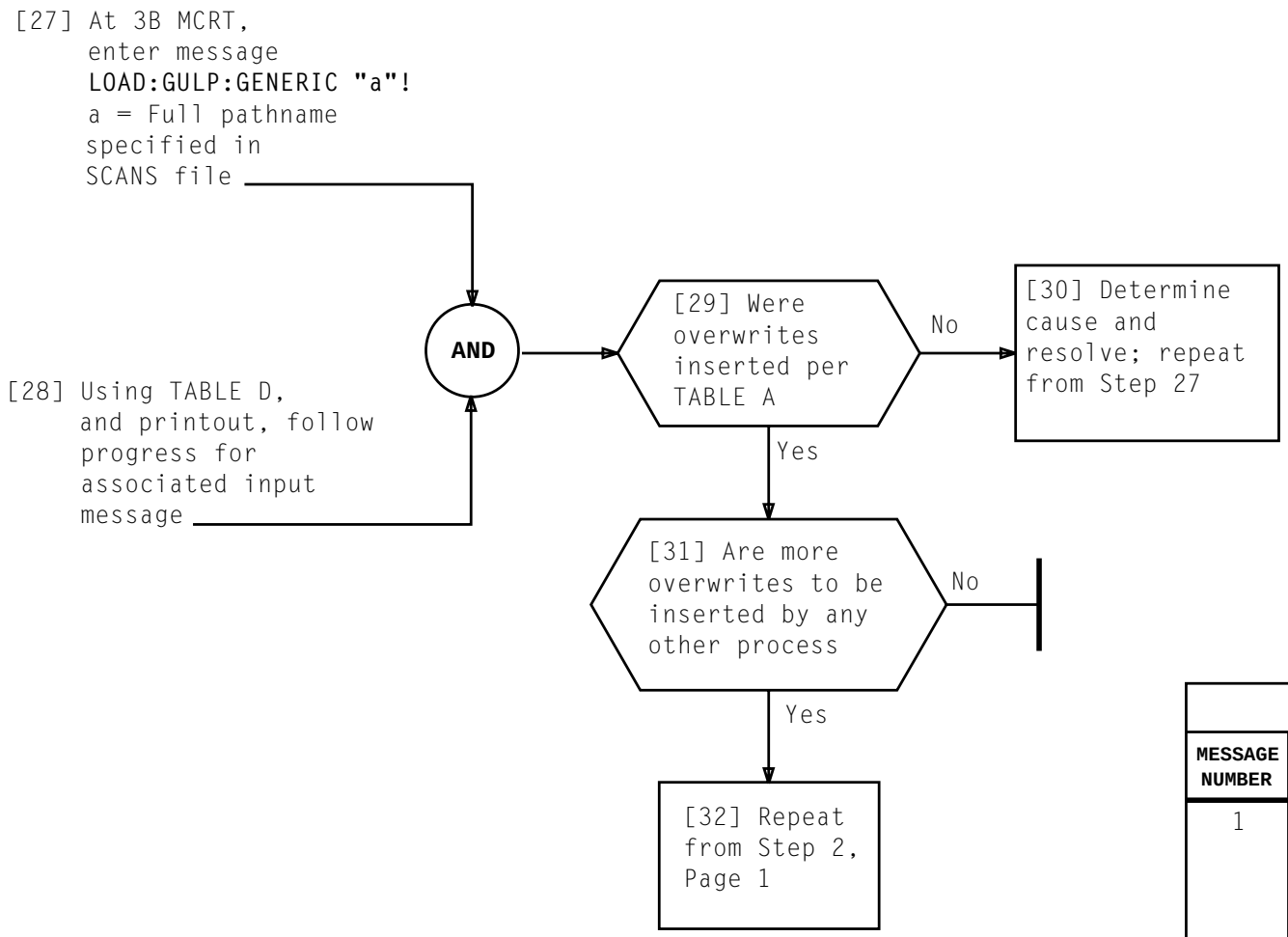


TABLE D

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 4E25 generic or ODA loaded in update file

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

READY FOR OVERWRITE DATA message received

AND

Page 10

[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

INSERT CRITICAL OVERWRITES INTO UPDATE FILE

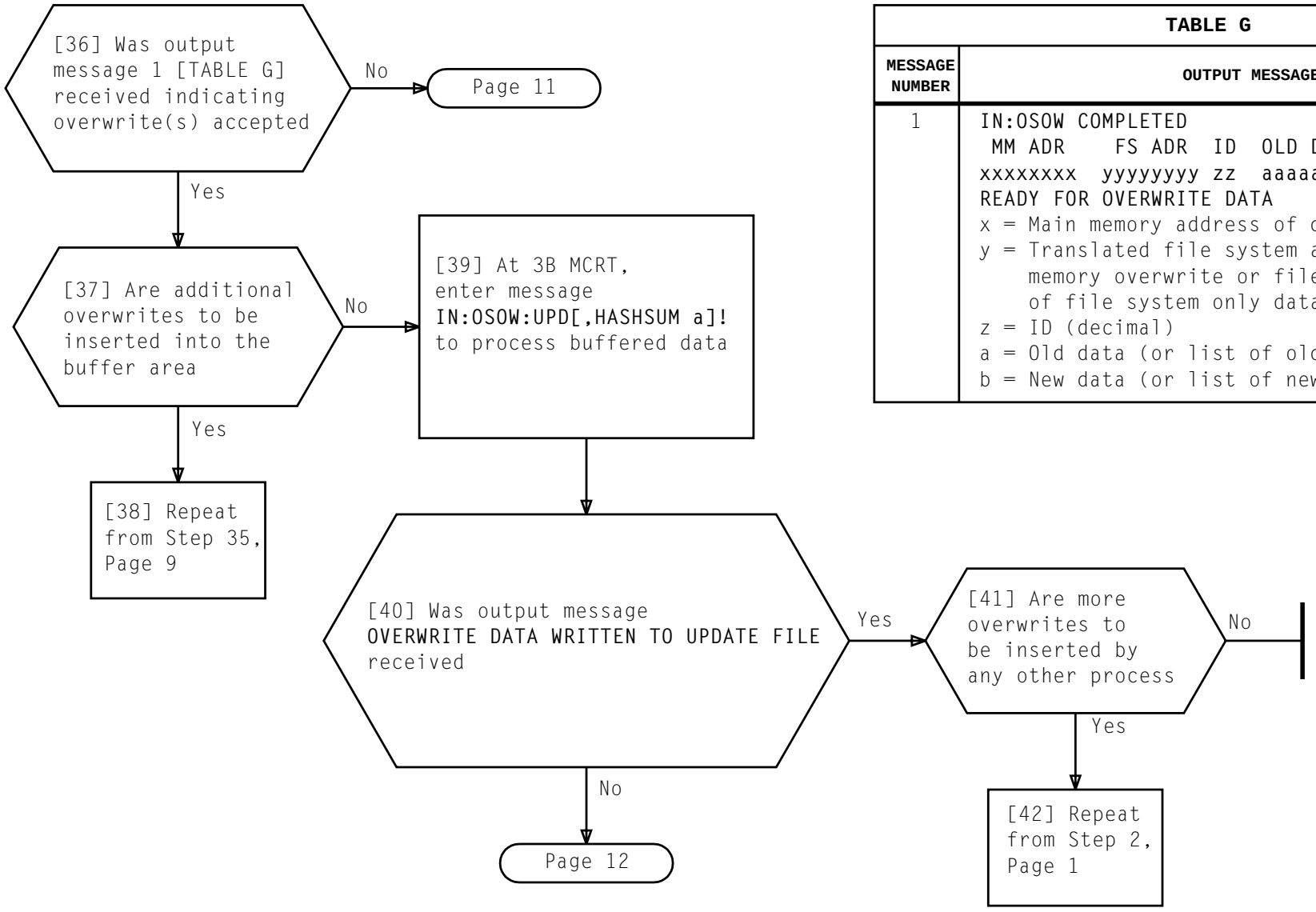
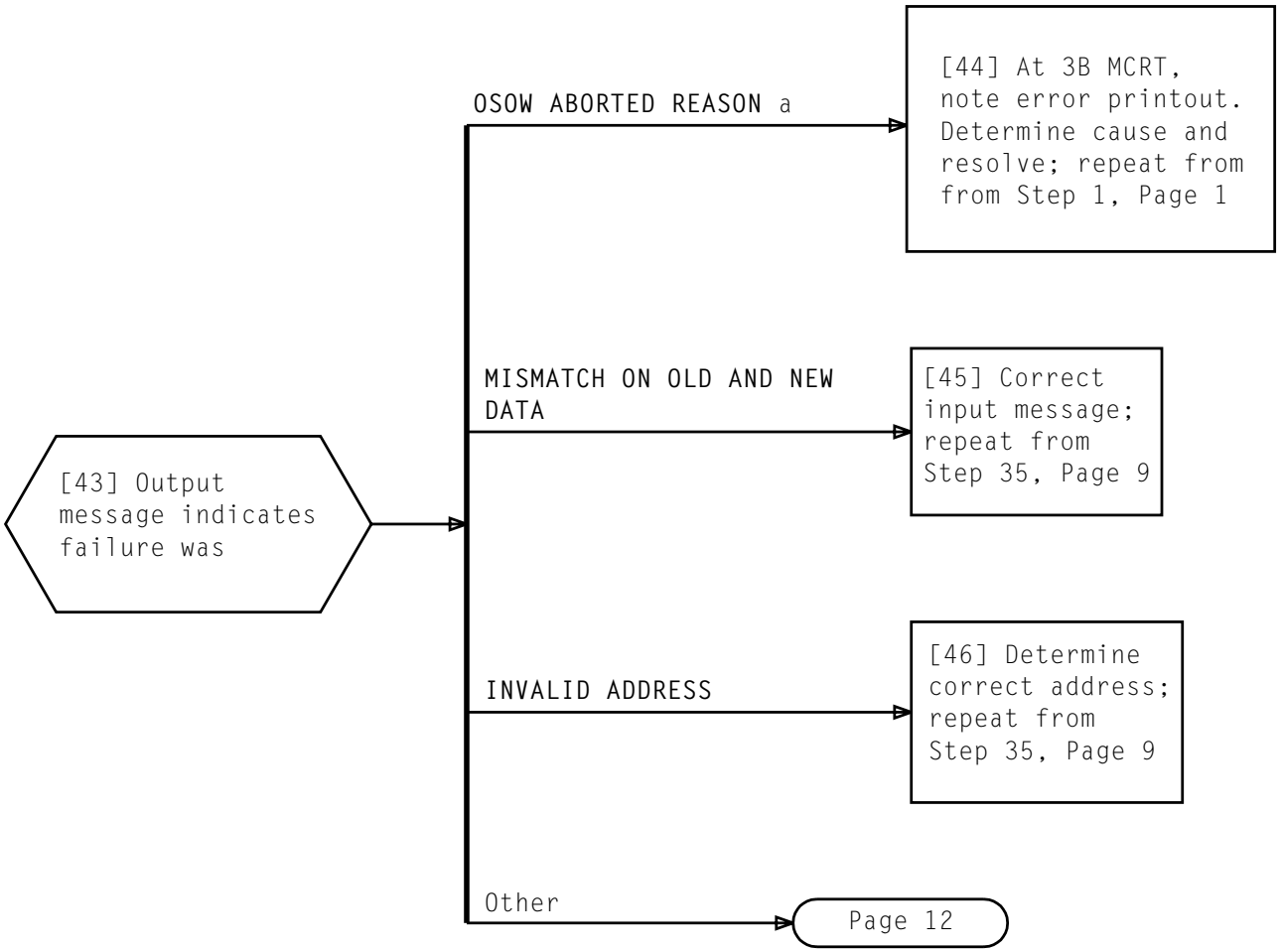


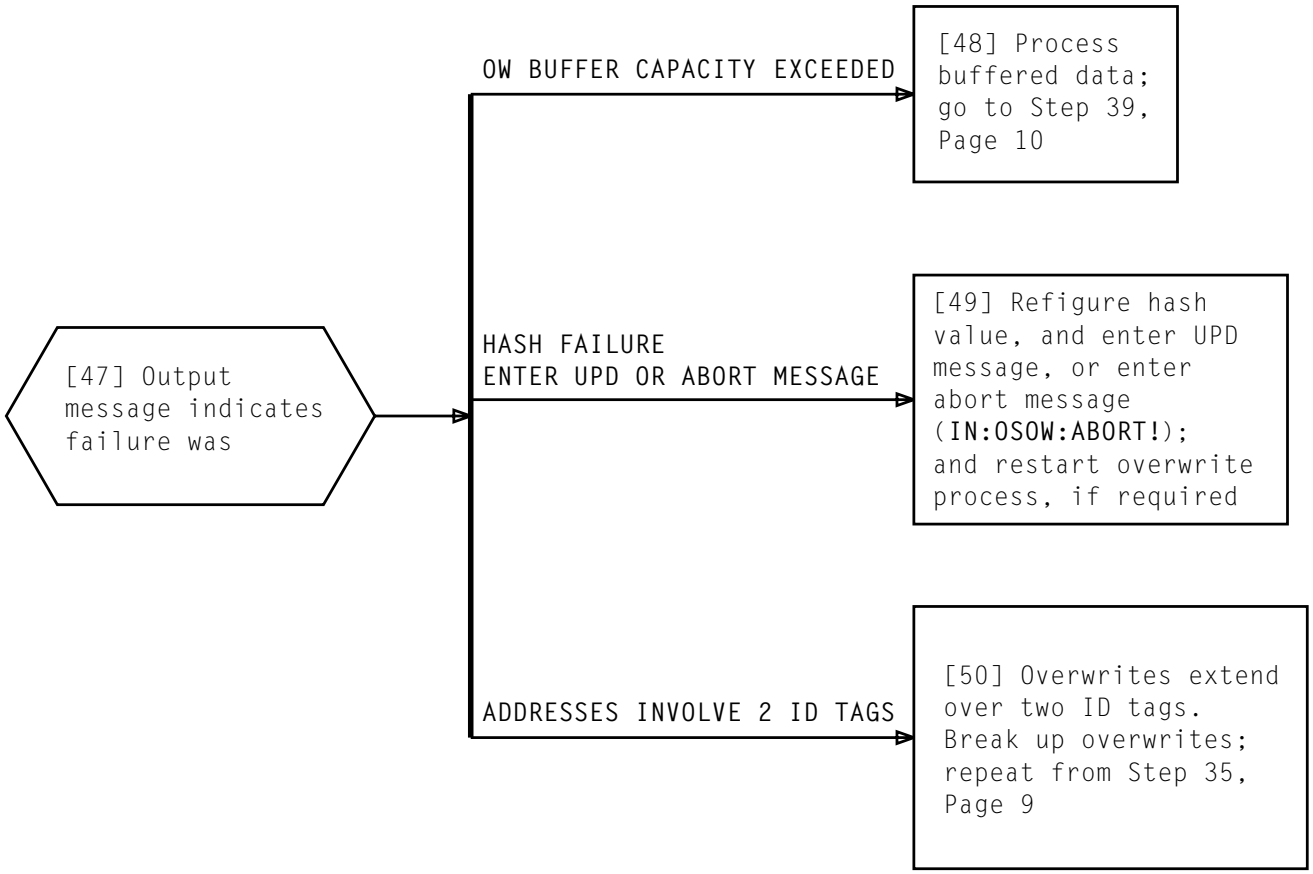
TABLE G

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)

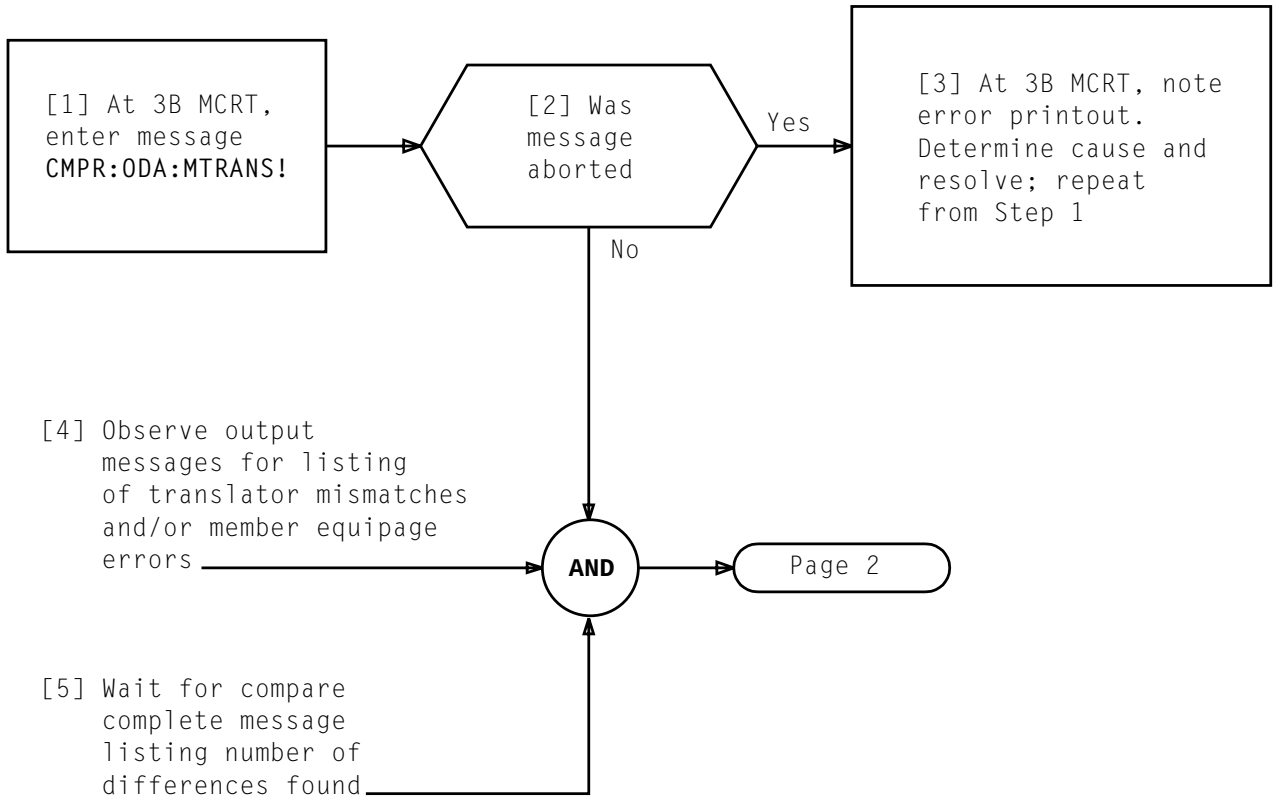
INSERT CRITICAL OVERWRITES INTO UPDATE FILE



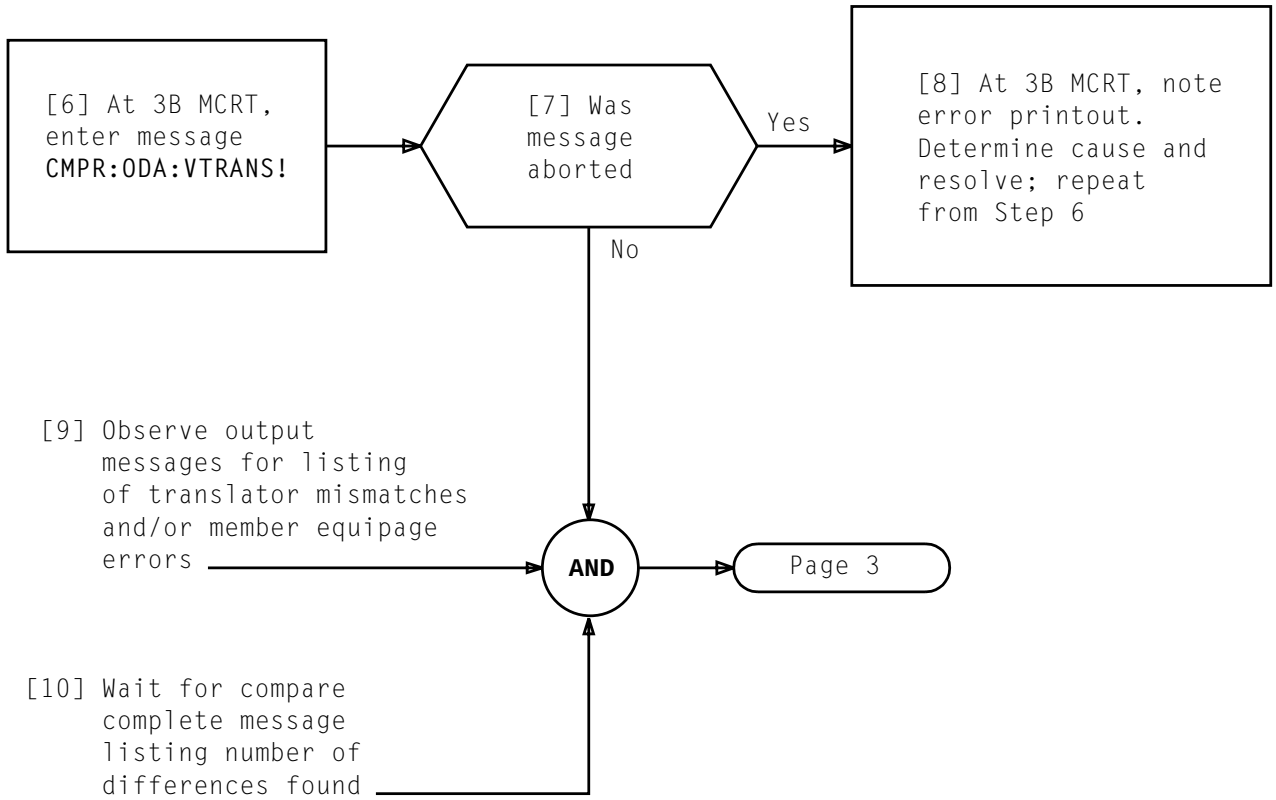
INSERT CRITICAL OVERWRITES INTO UPDATE FILE



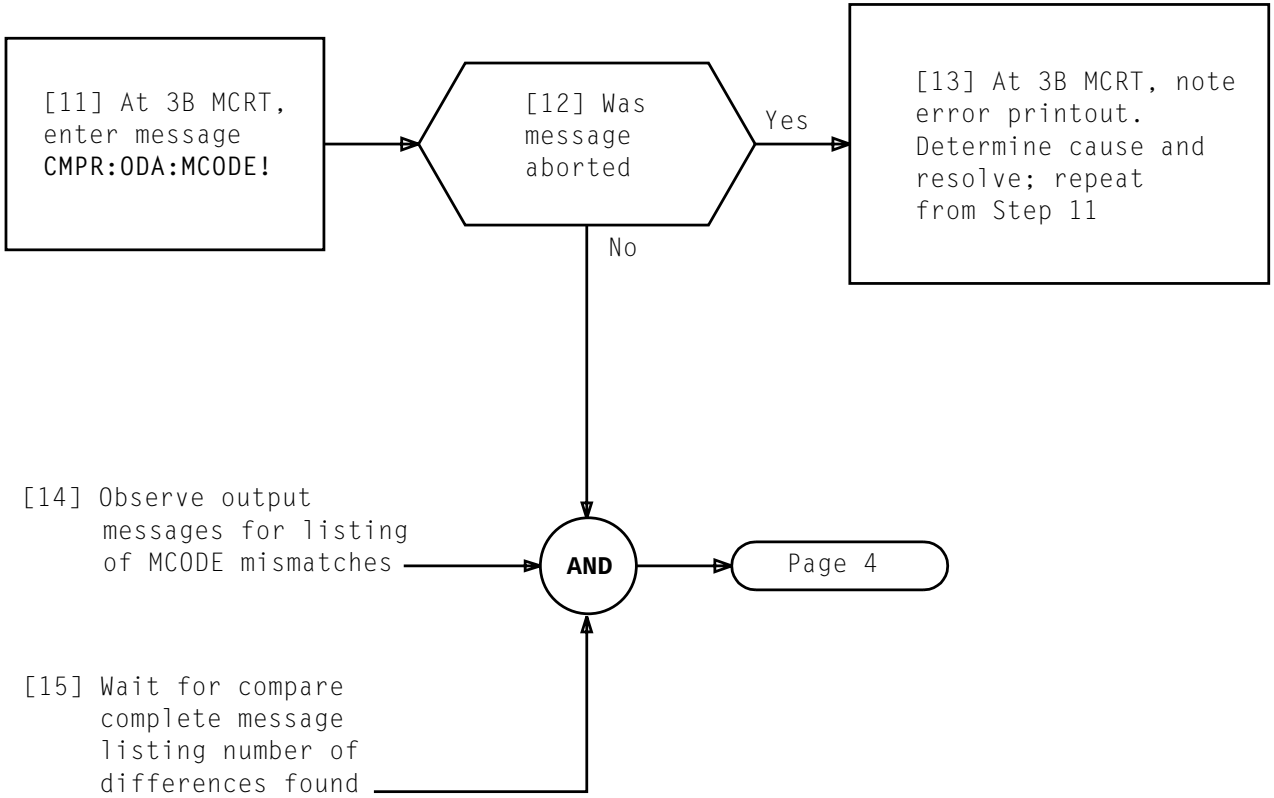
INSERT CRITICAL OVERWRITES INTO UPDATE FILE



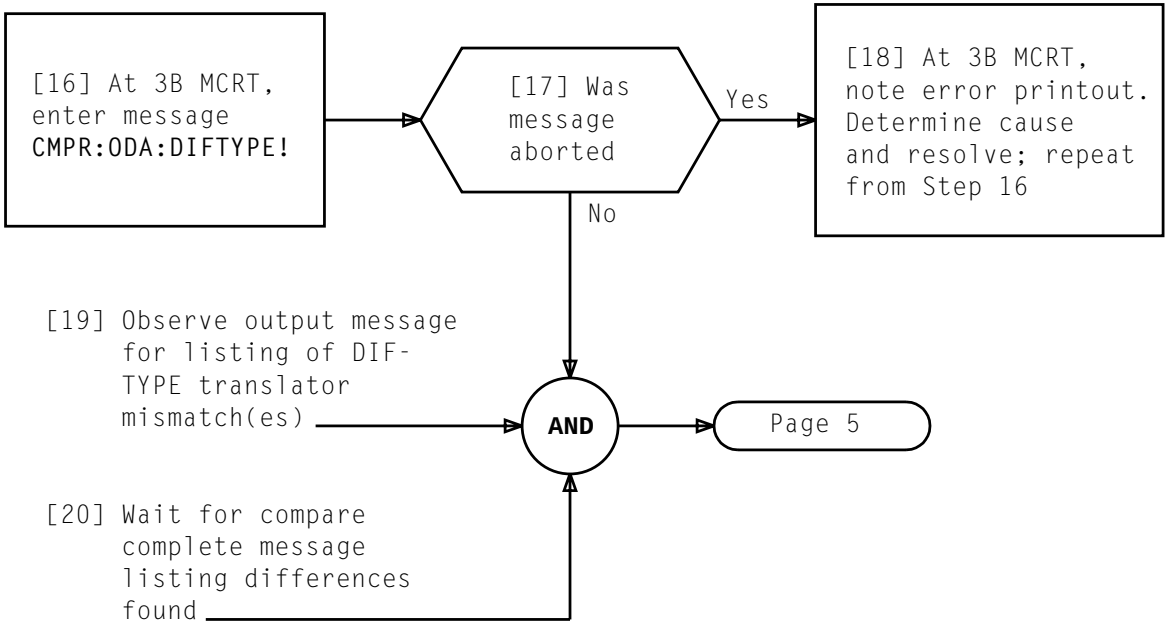
RUN CROSS-TRANSLATIONS COMPARE PROGRAM



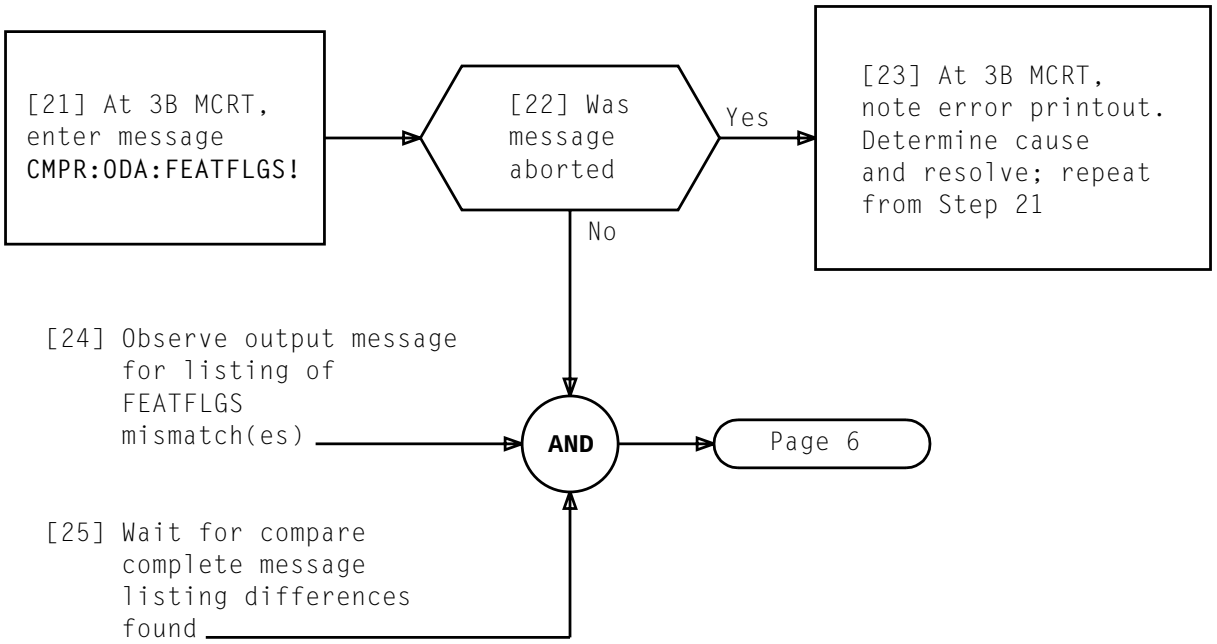
RUN CROSS-TRANSLATIONS COMPARE PROGRAM

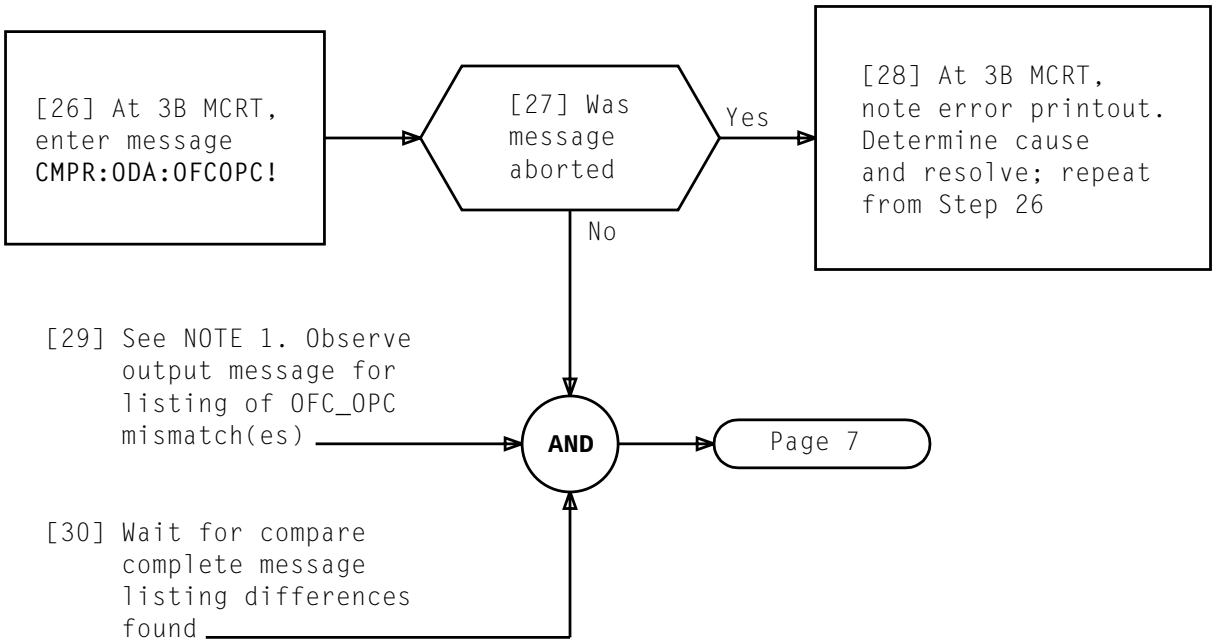


RUN CROSS-TRANSLATIONS COMPARE PROGRAM



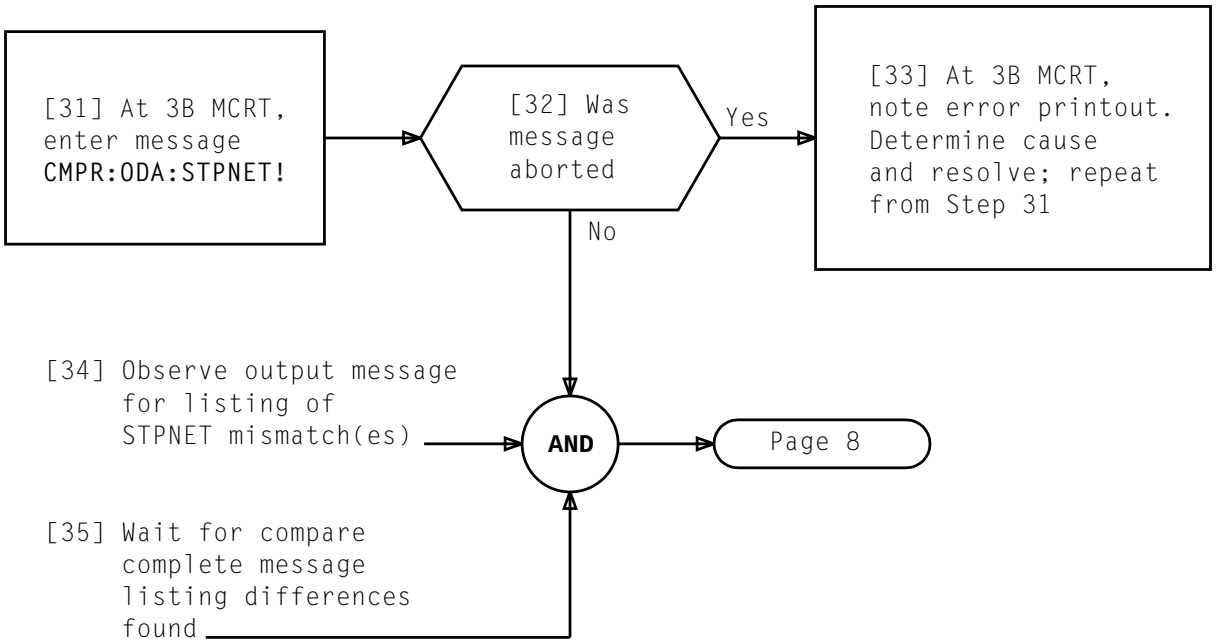
RUN CROSS-TRANSLATIONS COMPARE PROGRAM


[21] At 3B MCRT, enter message CMPR:ODA:FEATFLGS!
[22] Was message aborted
Yes
[23] At 3B MCRT, note error printout. Determine cause and resolve; repeat from Step 21
No
[24] Observe output message for listing of FEATFLGS mismatch(es)
AND
Page 6
[25] Wait for compare complete message listing differences found

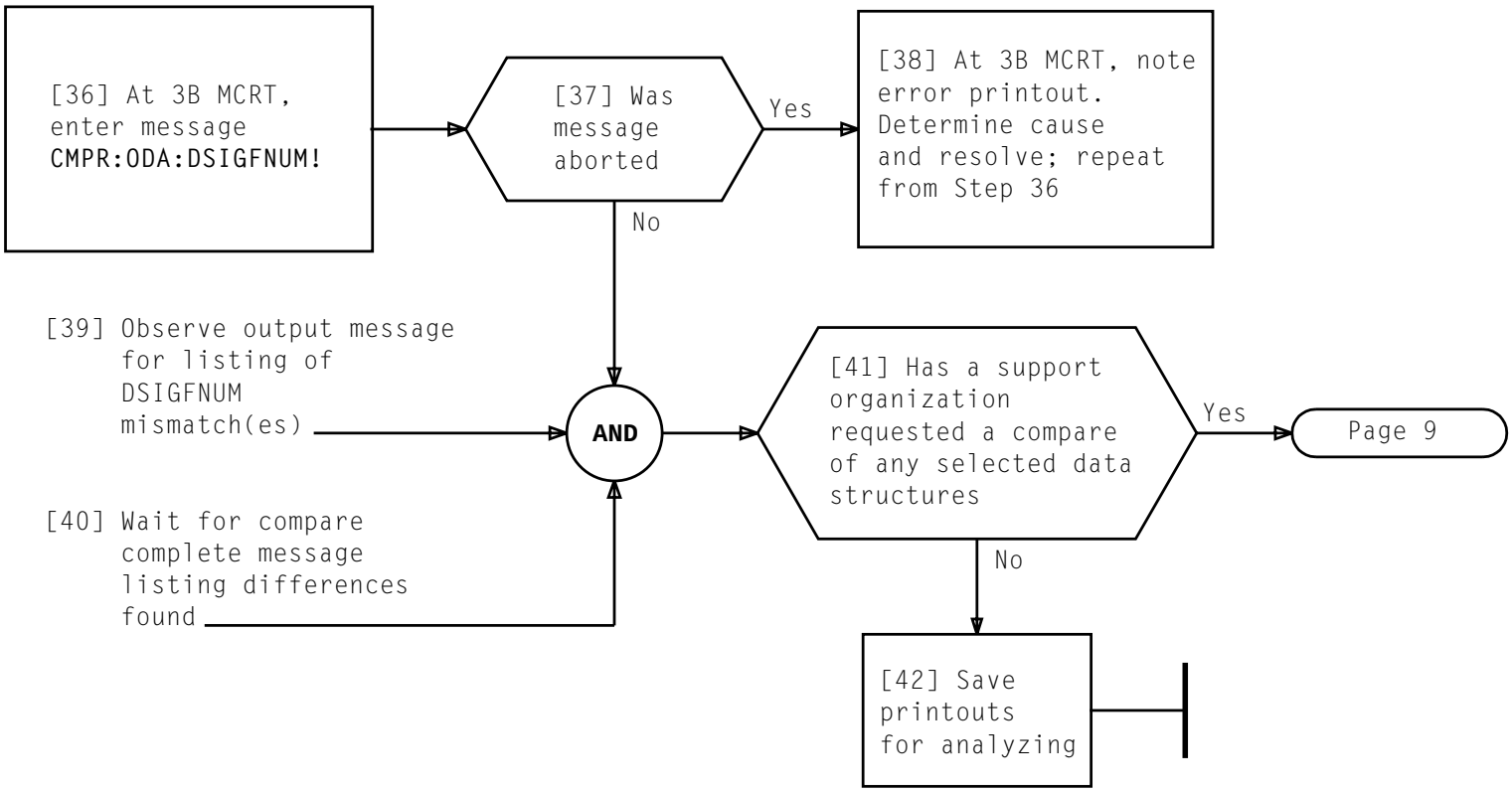


NOTE 1
Expect mismatch if point code is being changed

RUN CROSS-TRANSLATIONS COMPARE PROGRAM



RUN CROSS-TRANSLATIONS COMPARE PROGRAM



RUN CROSS-TRANSLATIONS COMPARE PROGRAM

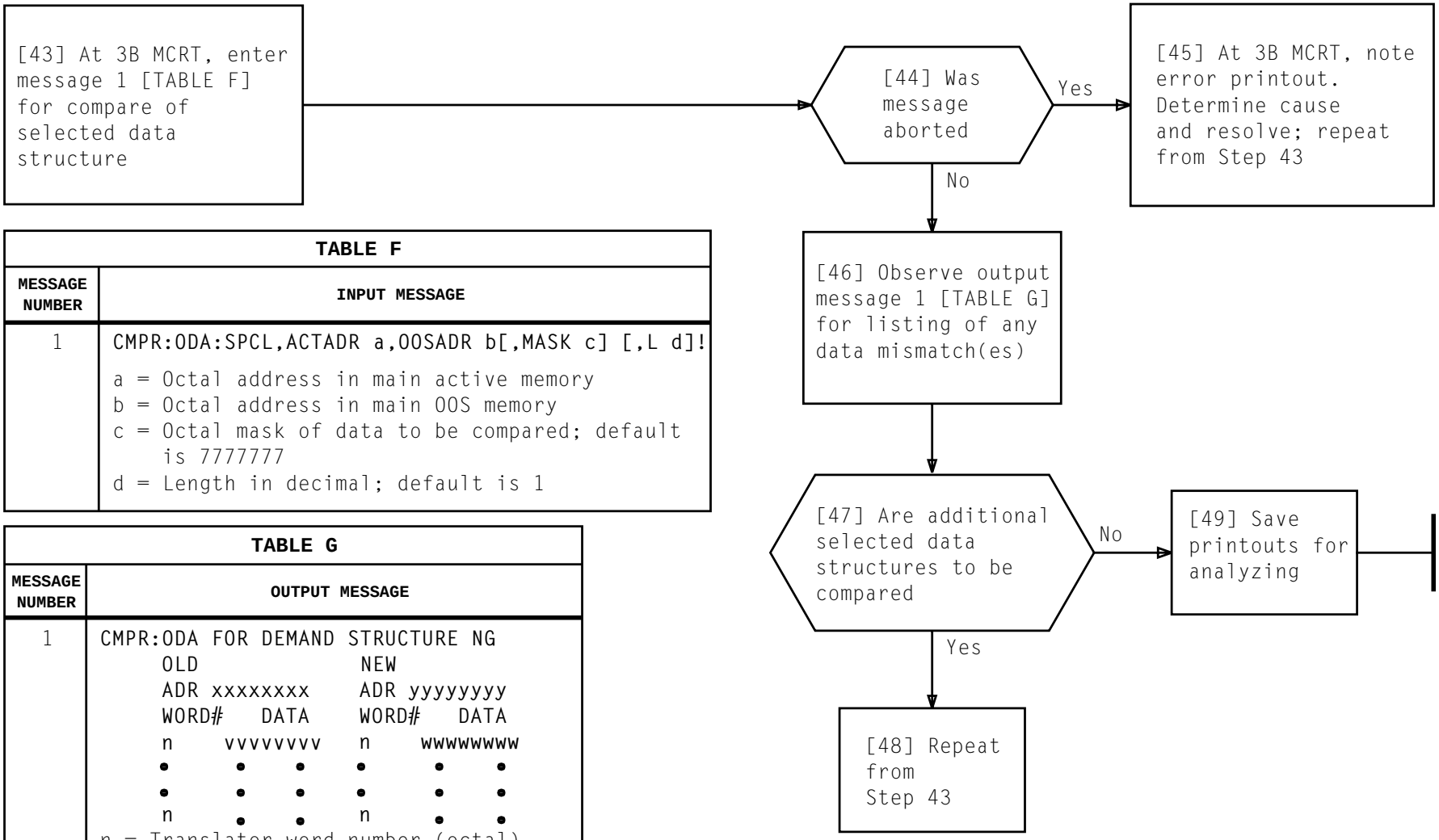


TABLE F

MESSAGE NUMBER	INPUT MESSAGE
1	CMPR:ODA:SPCL,ACTADR a,OOSADR 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 ADR xxxxxxxx: WORD# DATA — n vvvvvvvv … n NEW ADR yyyyyyyy: WORD# DATA — n wwwwwwww … 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

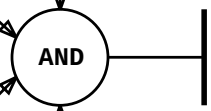
RUN CROSS-TRANSLATIONS COMPARE PROGRAM

[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



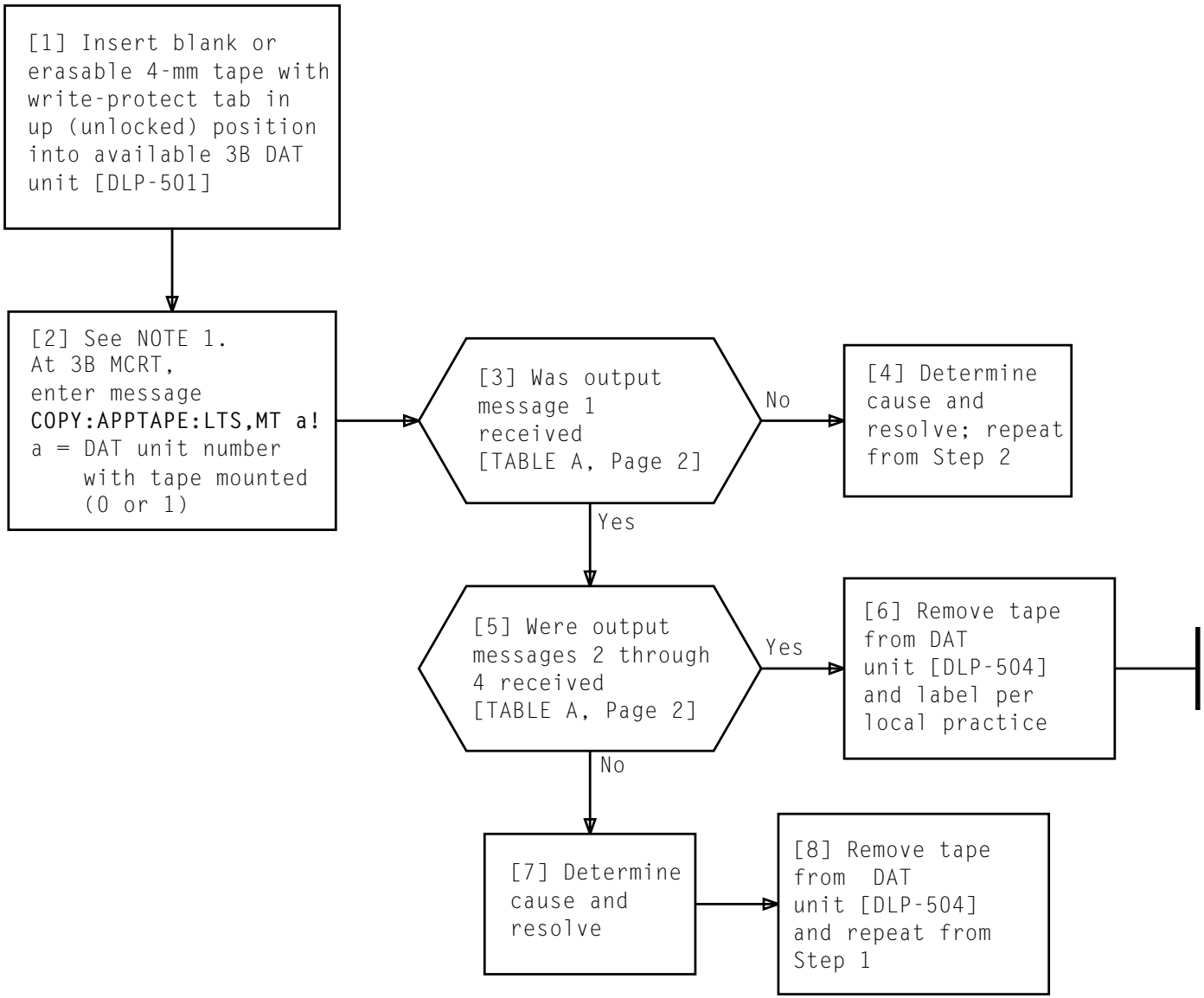
NOTE 1
If an actual update, only remove power from units in trouble. When verifying tape compatibility, do not remove power from out-of-service units

ESTABLISH FRAME HARDWARE STATUS REQUIRED FOR 1B PROCESSOR UPDATE

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
		NCLK	All four clock chains in service
BUSES	All buses in service operating in duplex	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
API	APIs duplex and in service		
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		
TSI/XTSI	Dedicated TSI/XTSI operating duplex. All other TSIs/XTSIs in service with no more than one controller out of service	EST	All ESTs in service and operating duplex
		TGR	All TGRs in service and operating duplex

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

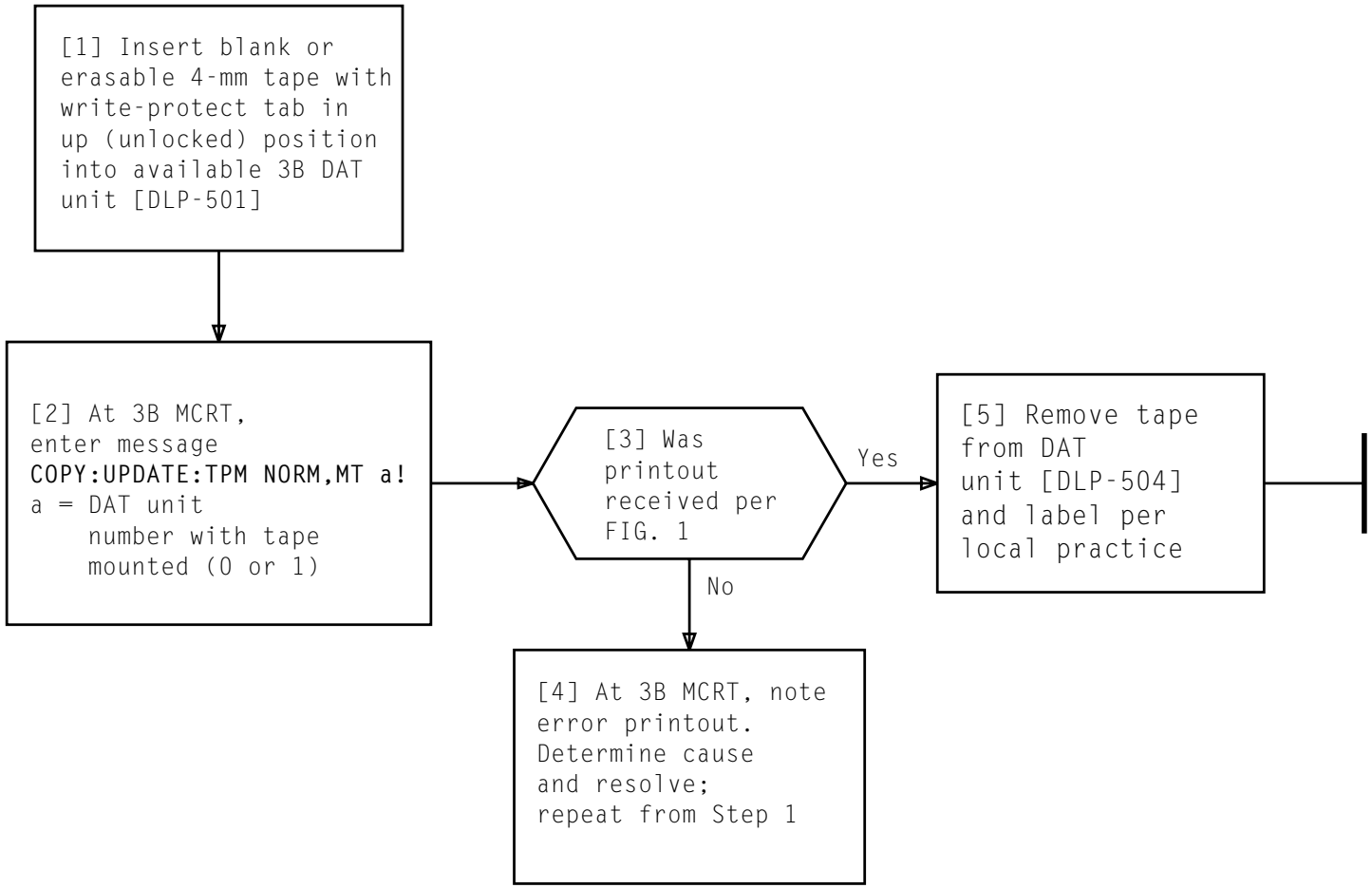


NOTE 1
Writing of LTS tape must be initiated during 7-minute window beginning 4 minutes past any quarter hour. If COPY message is not entered during this window, an RL will be received

WRITE BACKUP LONG-TERM STORAGE (LTS) TAPE

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/1afileX
3	COPY APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4	COPY APPTAPE COMPLETED

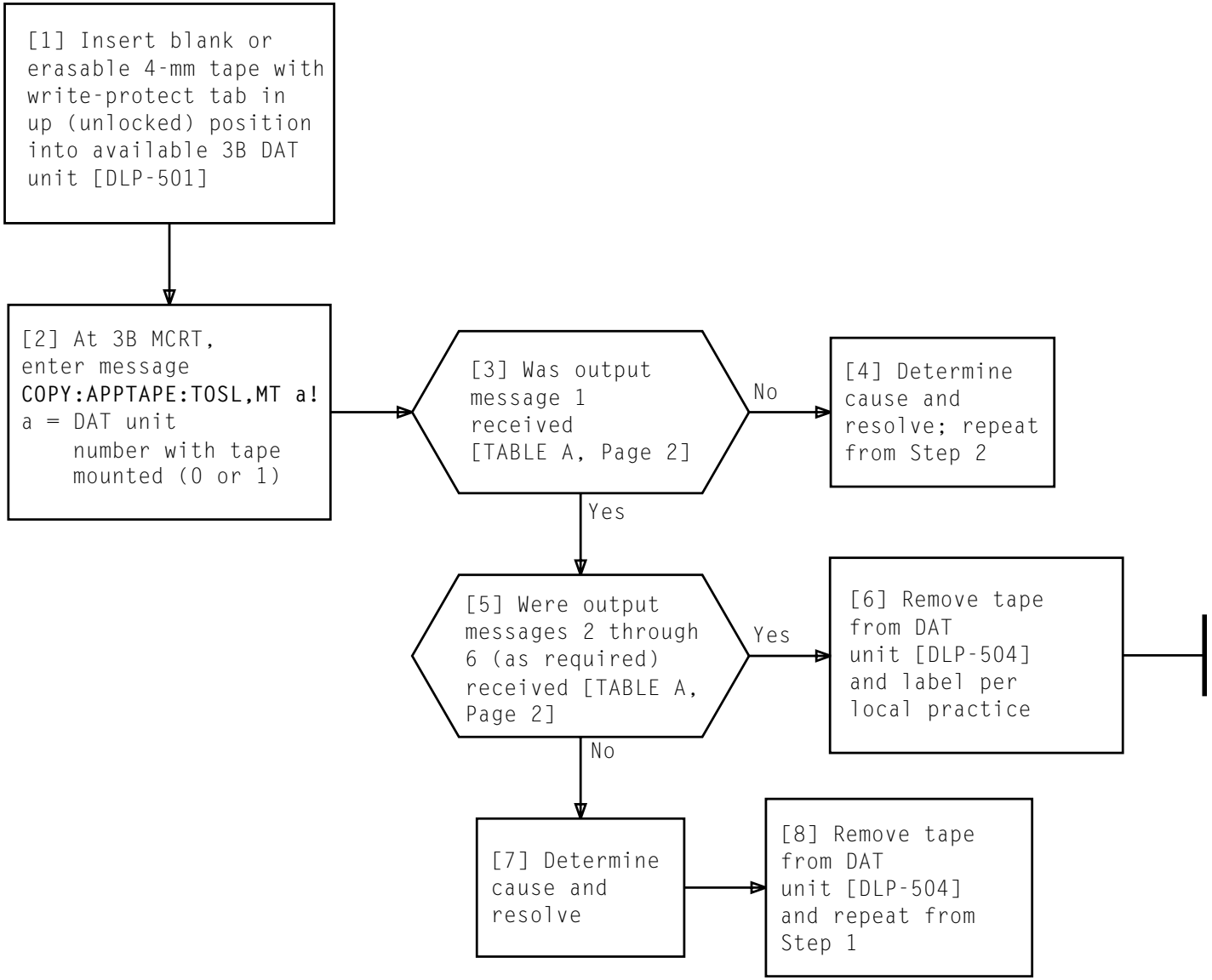
mm/dd/yy hh:mm = month/day/year hour:minute tape was written
aaaaaaaa = starting LTS address through
bbbbbbbb = ending LTS address written




```
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

WRITE TRAFFIC AND PLANT MEASUREMENT (TPM) TAPE



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

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/1afileX
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

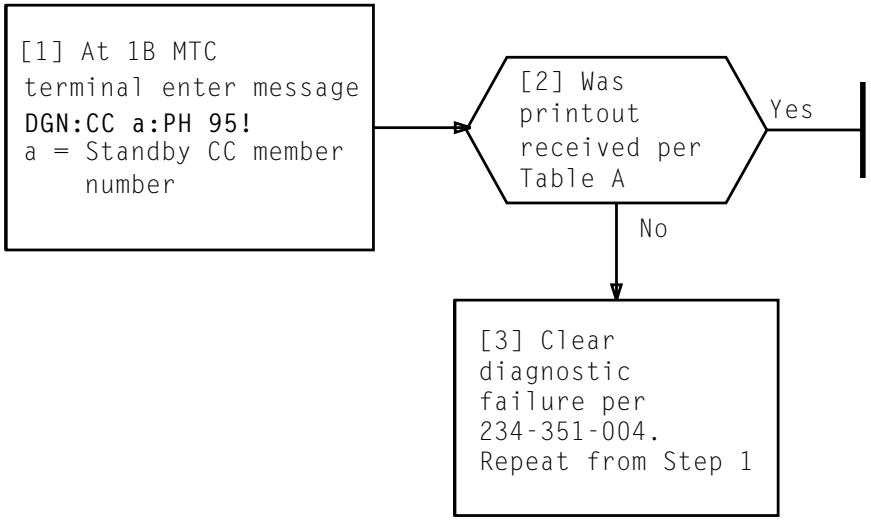


TABLE A

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

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

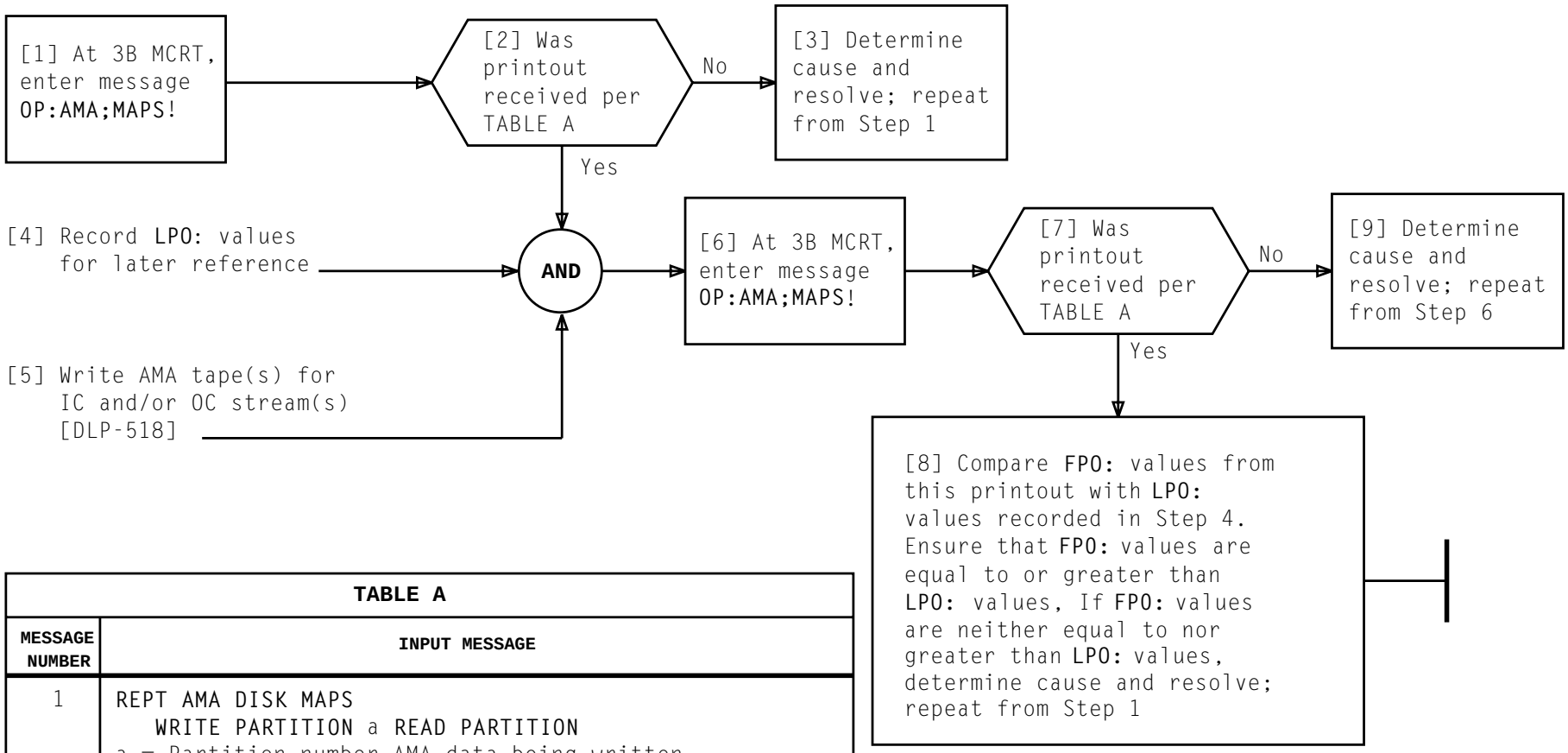


TABLE A

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

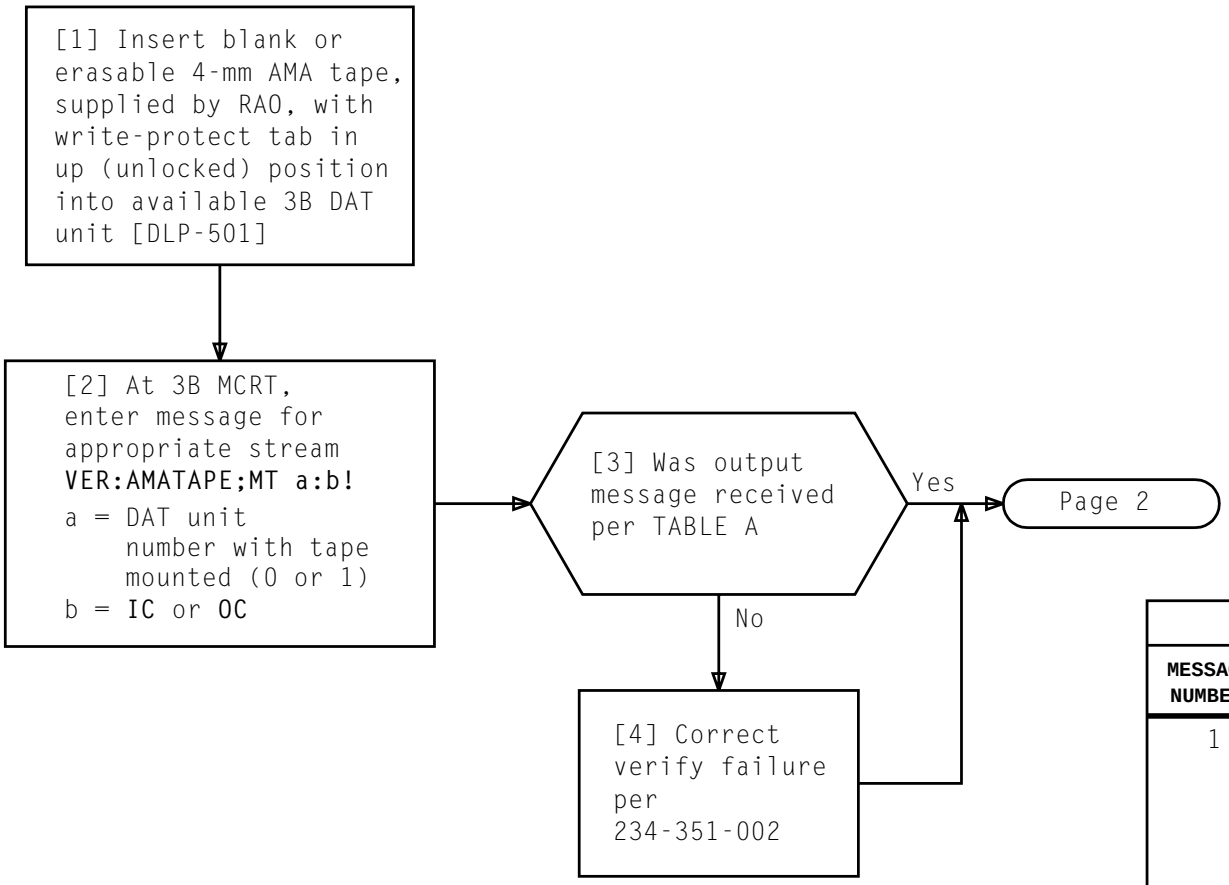
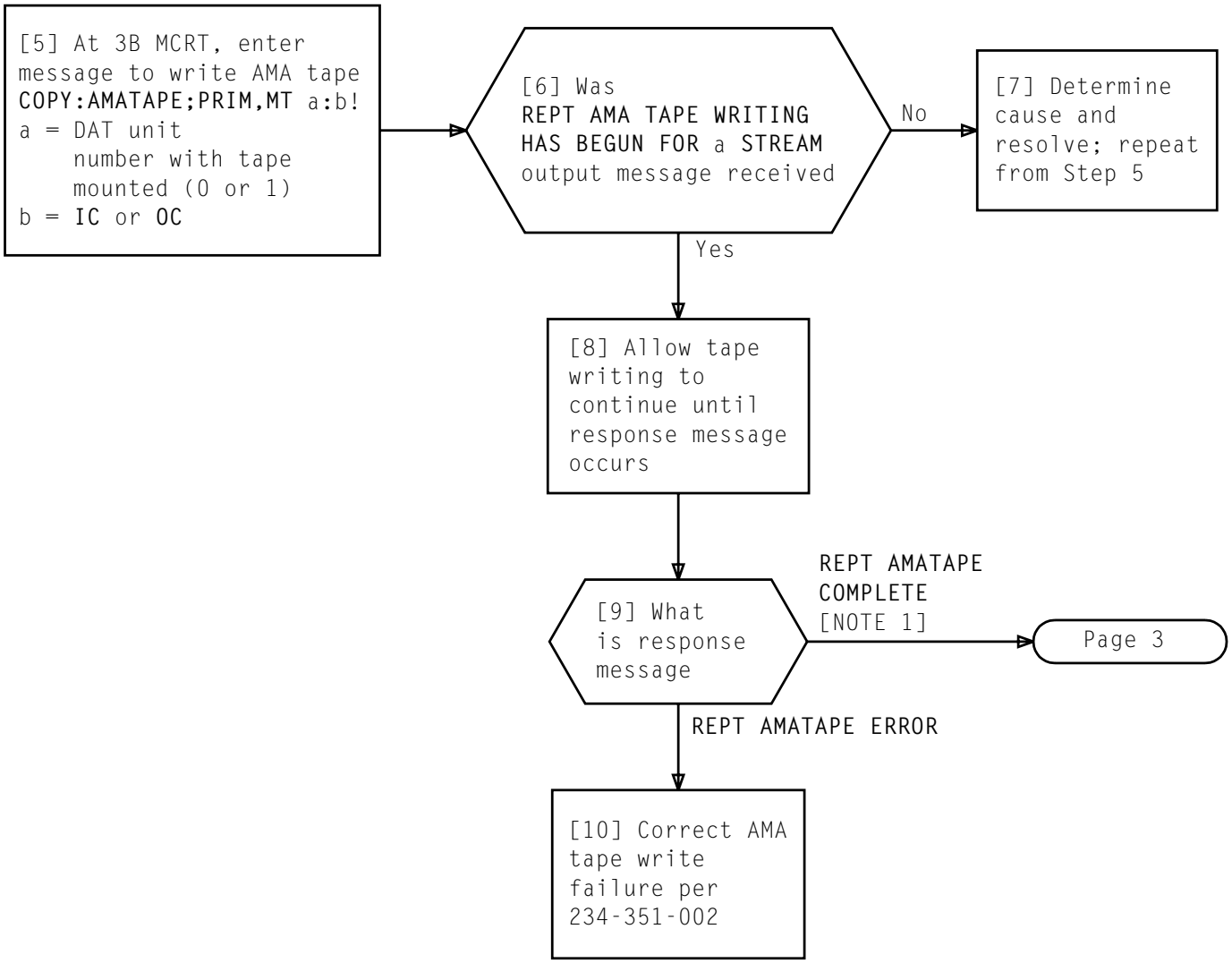


TABLE A

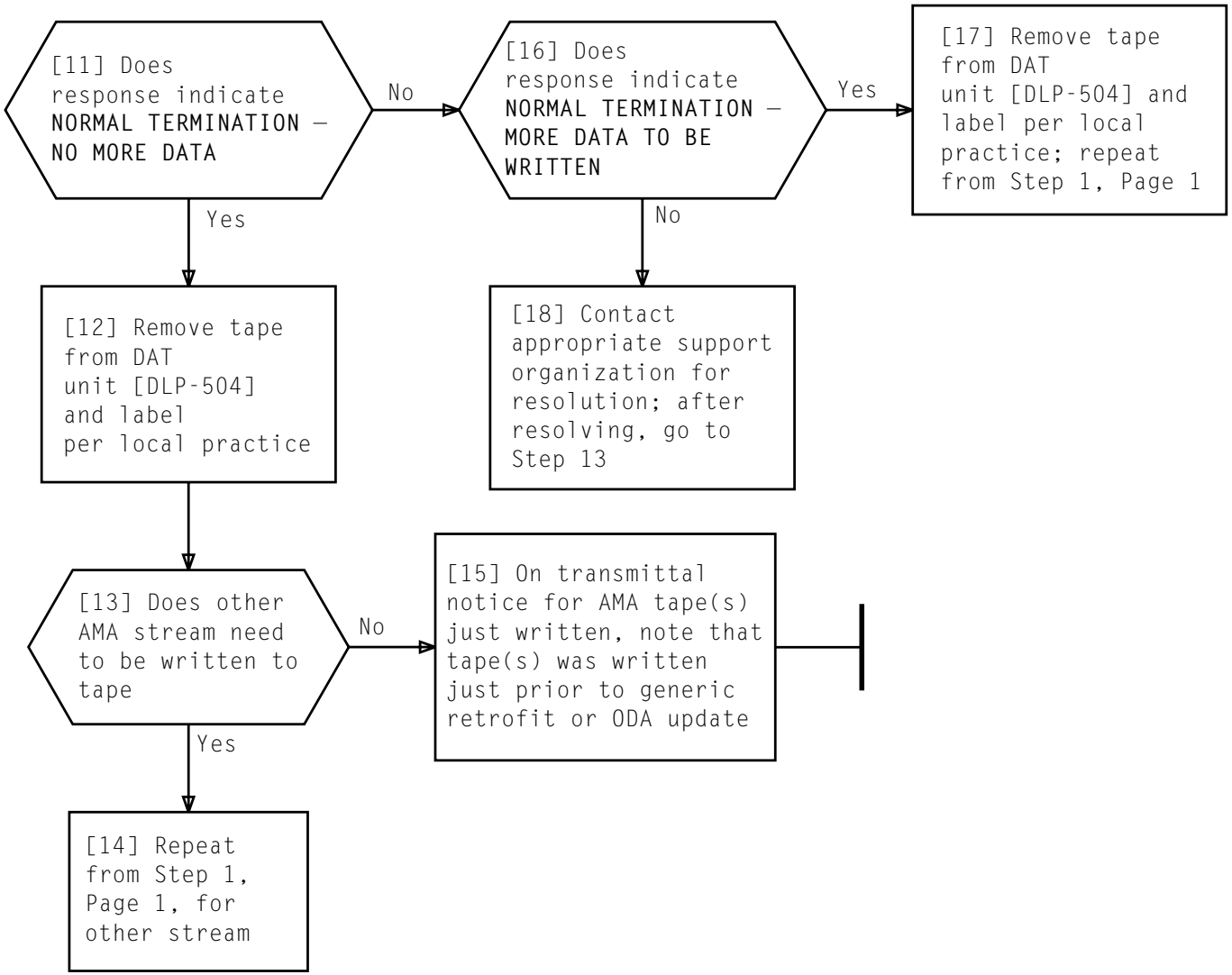
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMATAPE VERIFY FOR a STREAM VOL SER NUMBER b DATA SET ID c EXPIRATION DATE d-e TAPE DRIVE NUMBER f AMA TAPE CAN BE WRITTEN a = IC or OC b = Tape serial number c = Data set ID d = Year of expiration date e = Day of expiration (1 through 365) f = Tape drive number

WRITE AMA TAPE(S)

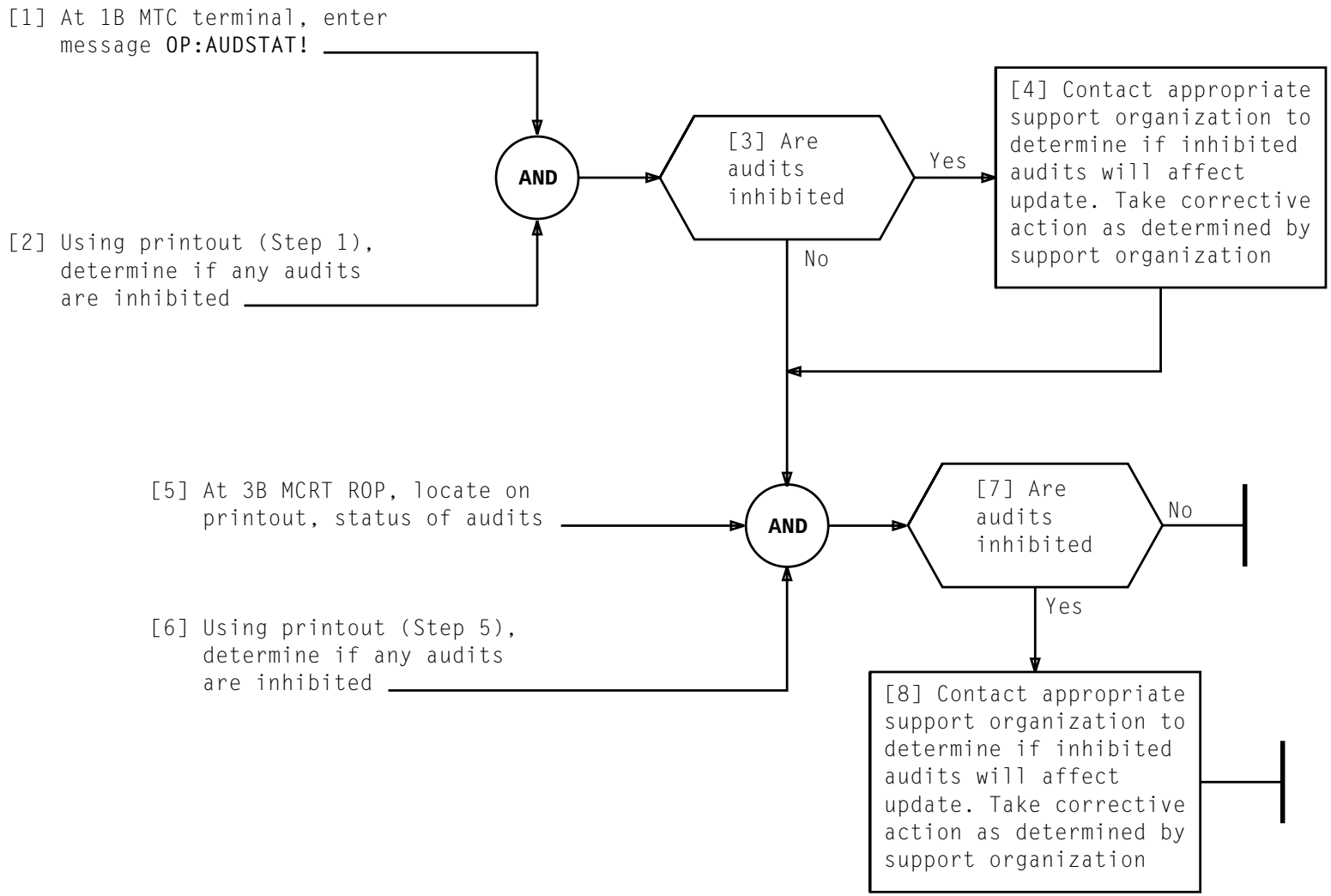


NOTE 1
Output message contains detailed data of AMA tape

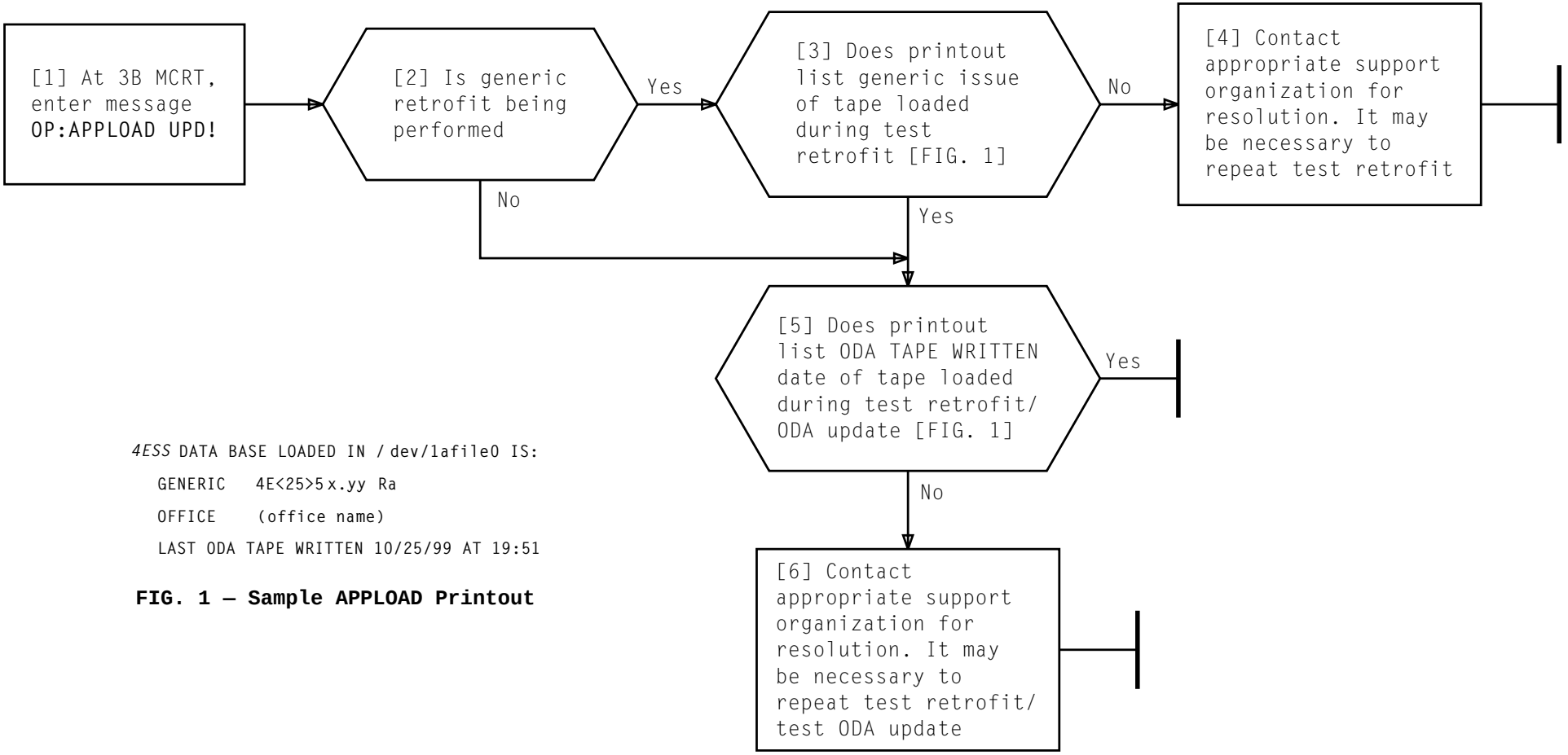
WRITE AMA TAPE(S)



WRITE AMA TAPE(S)



VERIFY NO AUDITS INHIBITED



4ESS DATA BASE LOADED IN / dev/1afile0 IS:

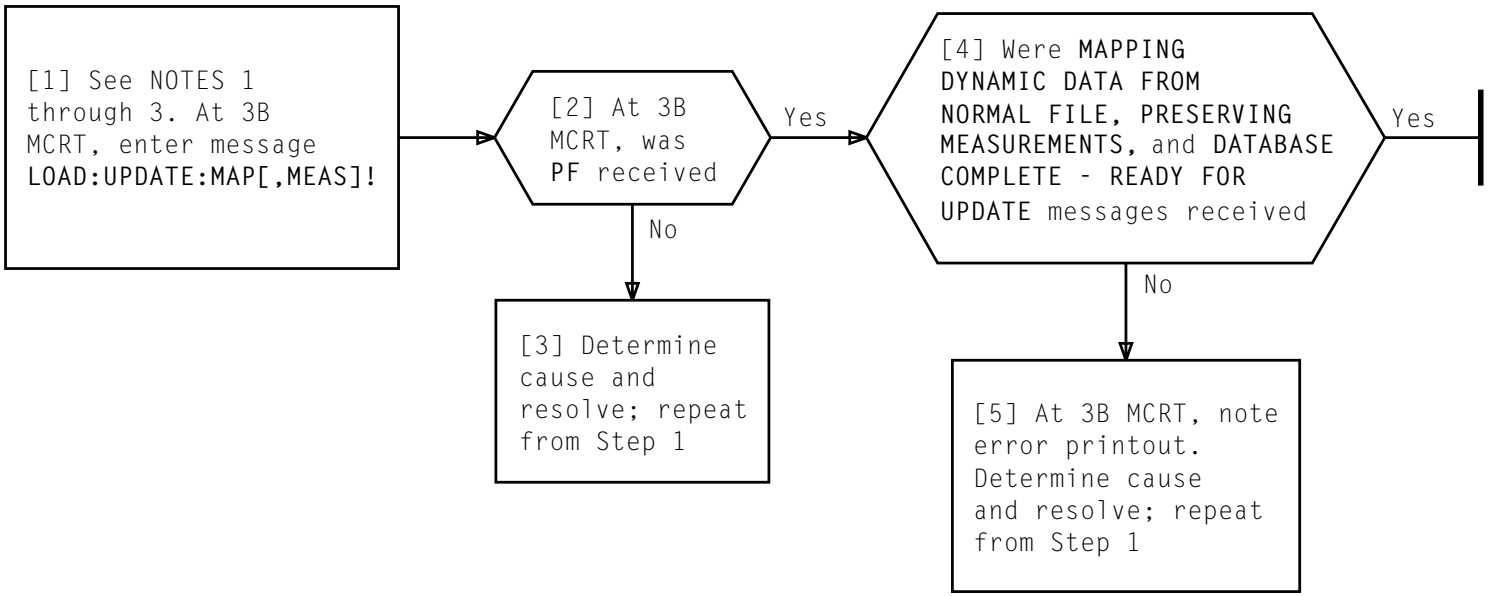
GENERIC 4E<25>5 x.yy Ra

OFFICE (office name)

LAST ODA TAPE WRITTEN 10/25/99 AT 19:51

FIG. 1 — Sample APPLOAD Printout

VERIFY DATA BASE



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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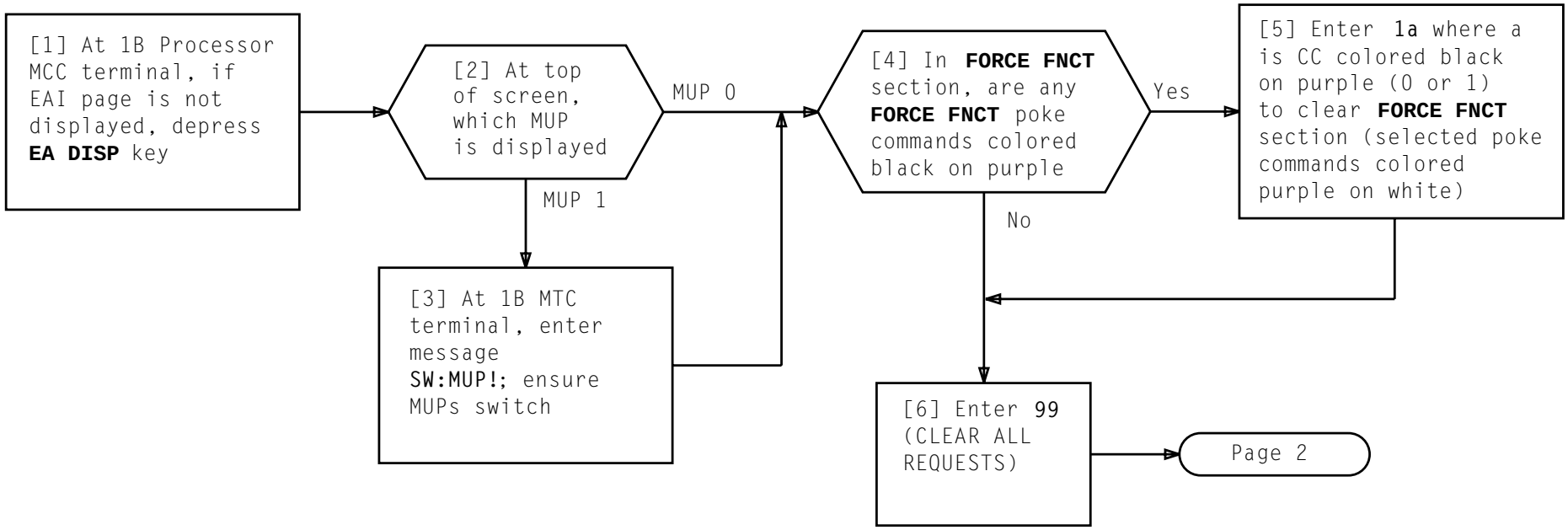
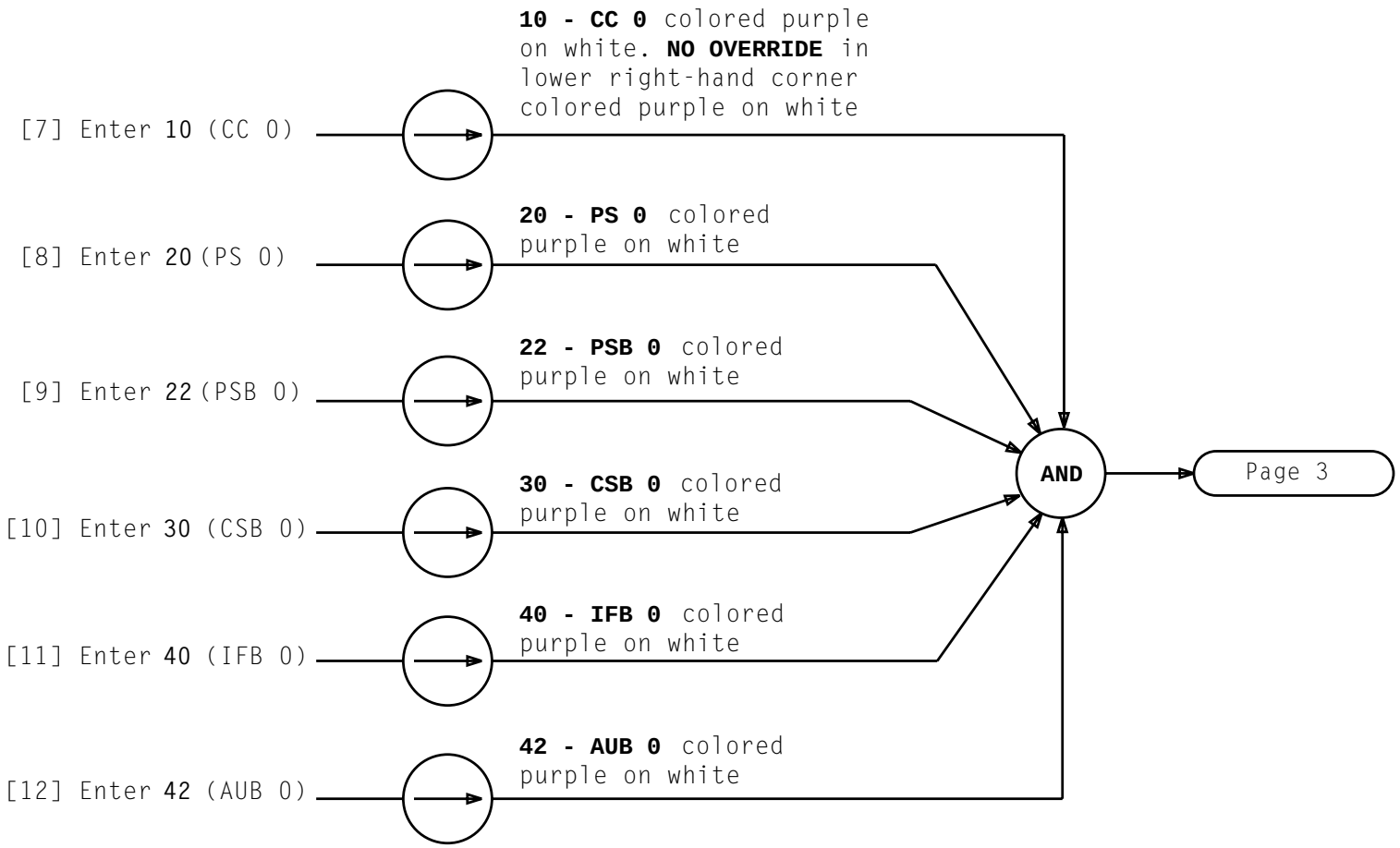
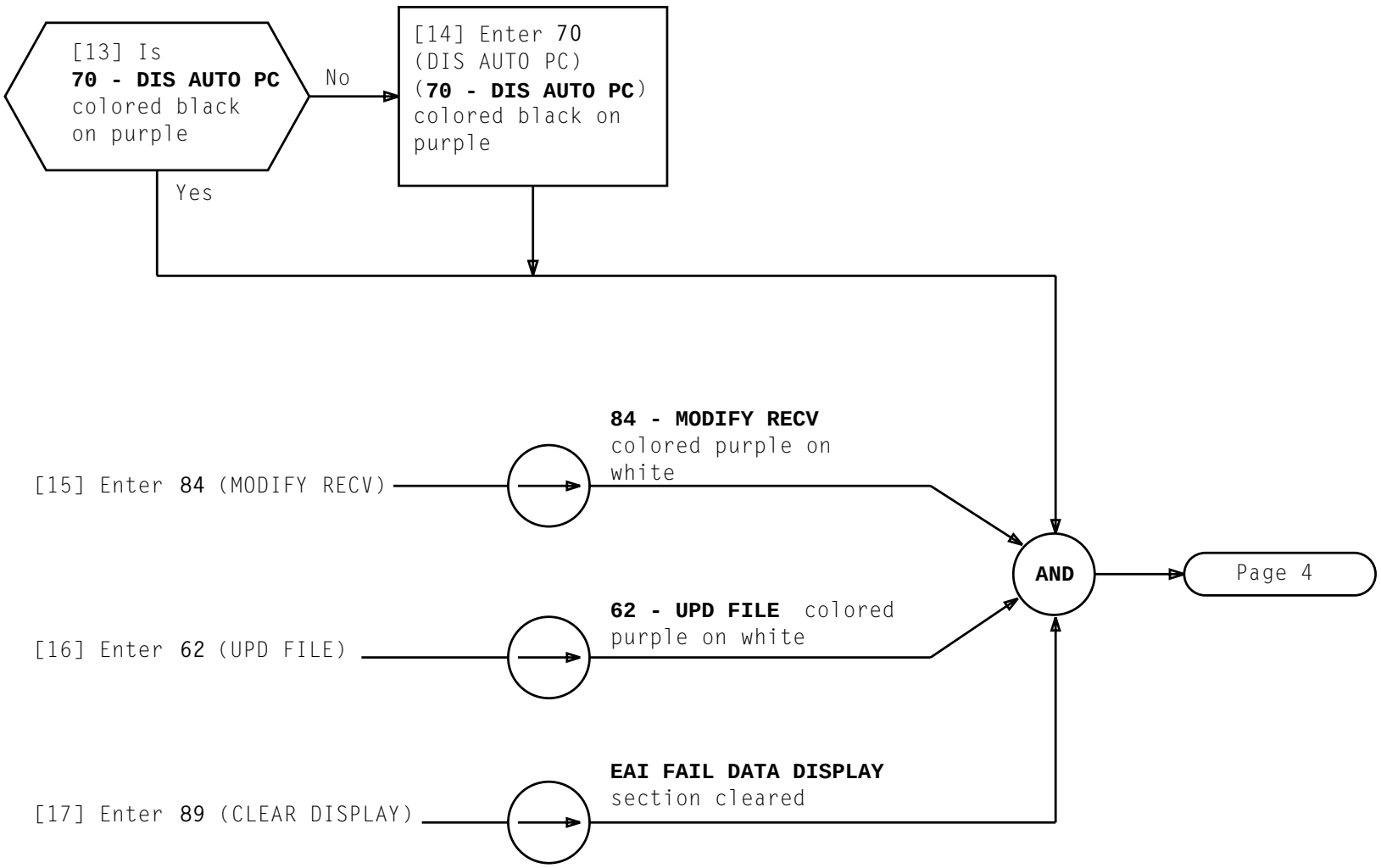
MAP DYNAMIC DATA FROM NORMAL FILE TO UPDATE FILE



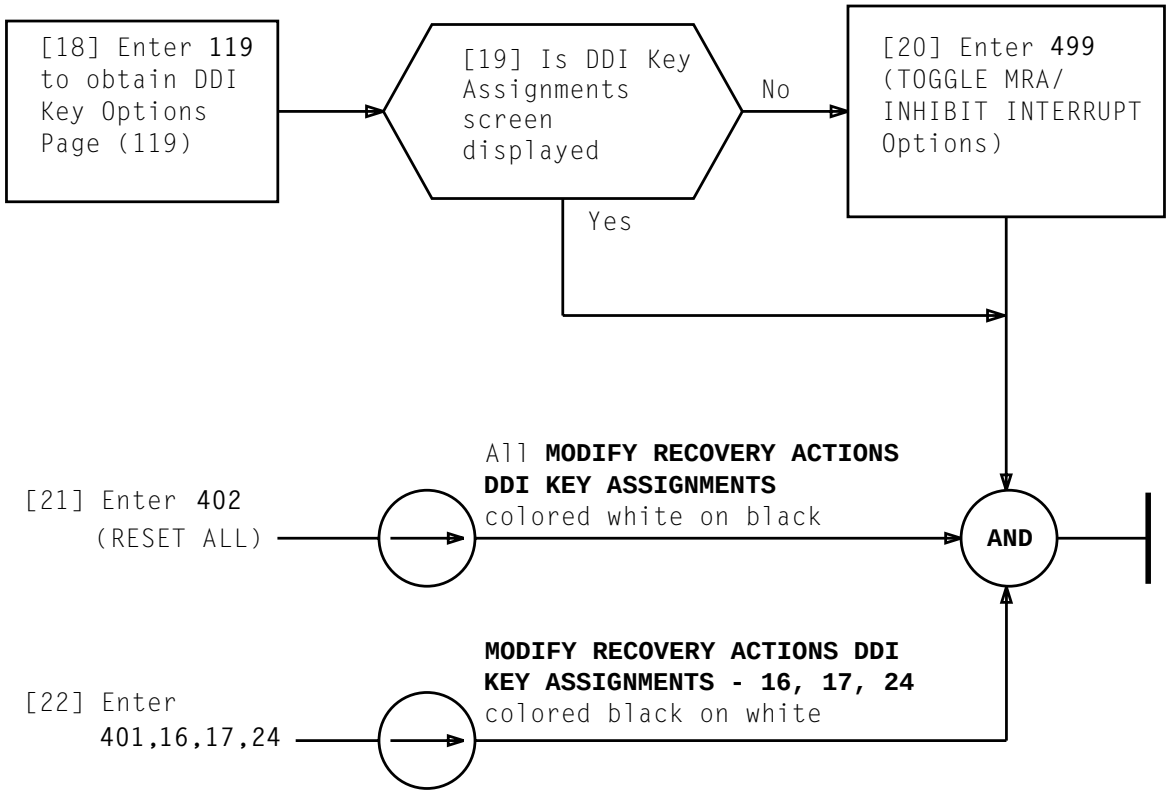
PREPARE 1B PROCESSOR FOR MANUAL RECOVERY - PRIOR TO UPDATE



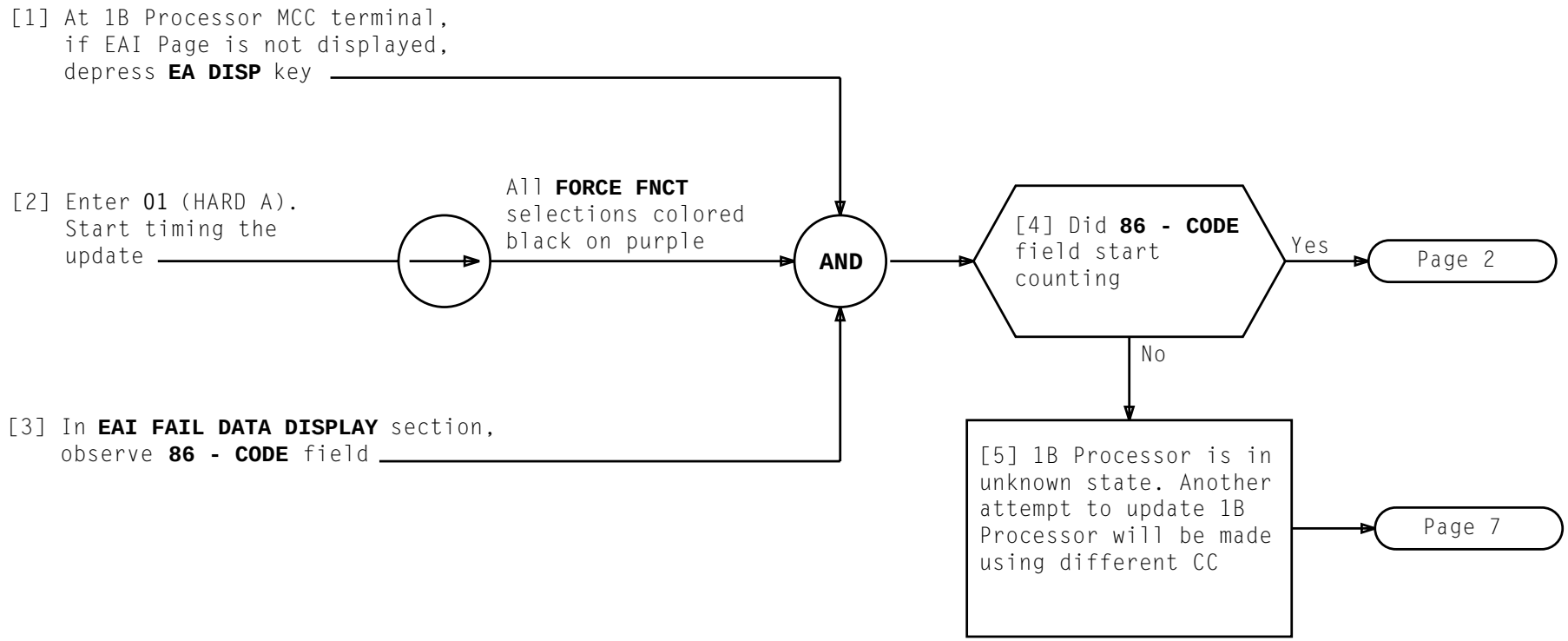
PREPARE 1B PROCESSOR FOR MANUAL RECOVERY - PRIOR TO UPDATE



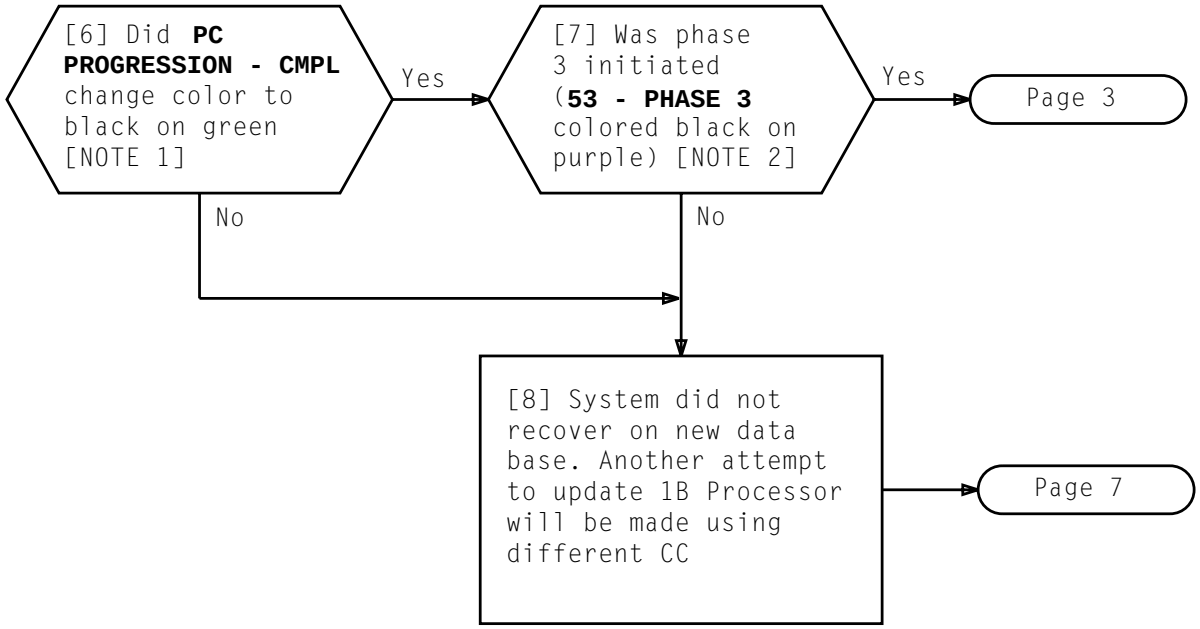
PREPARE 1B PROCESSOR FOR MANUAL RECOVERY - PRIOR TO UPDATE



PREPARE 1B PROCESSOR FOR MANUAL RECOVERY - PRIOR TO UPDATE



PERFORM UPDATE



86 - CODE: O'OOOaaabbbbb

87 - DATA:

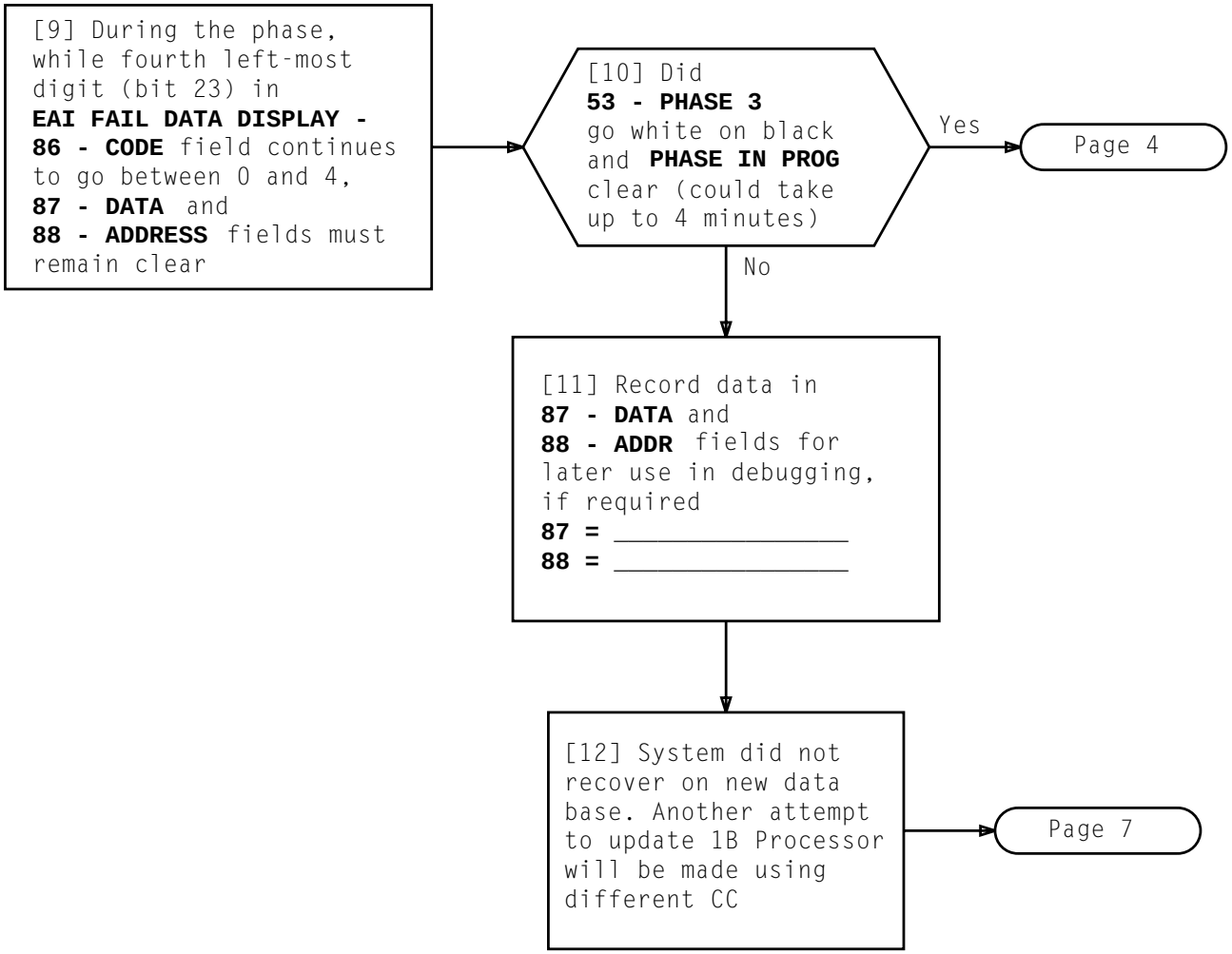
88 - ADDR:

FIG. 1 - 86 - CODE Field Layout

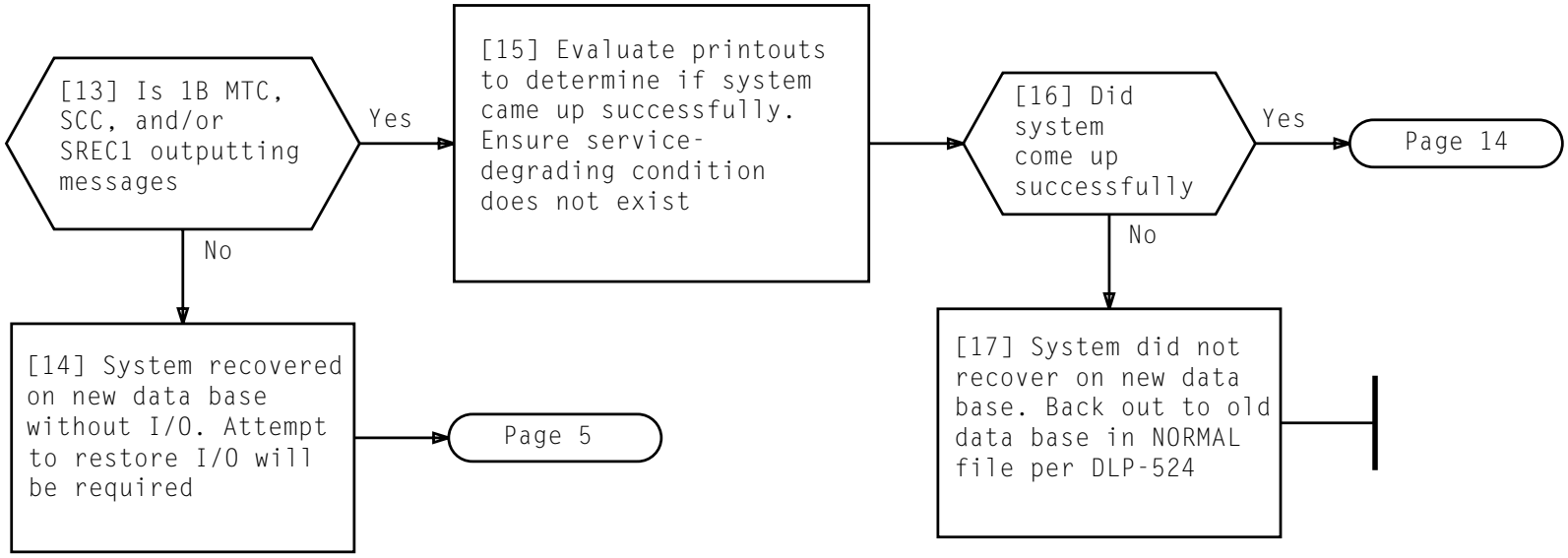
NOTES

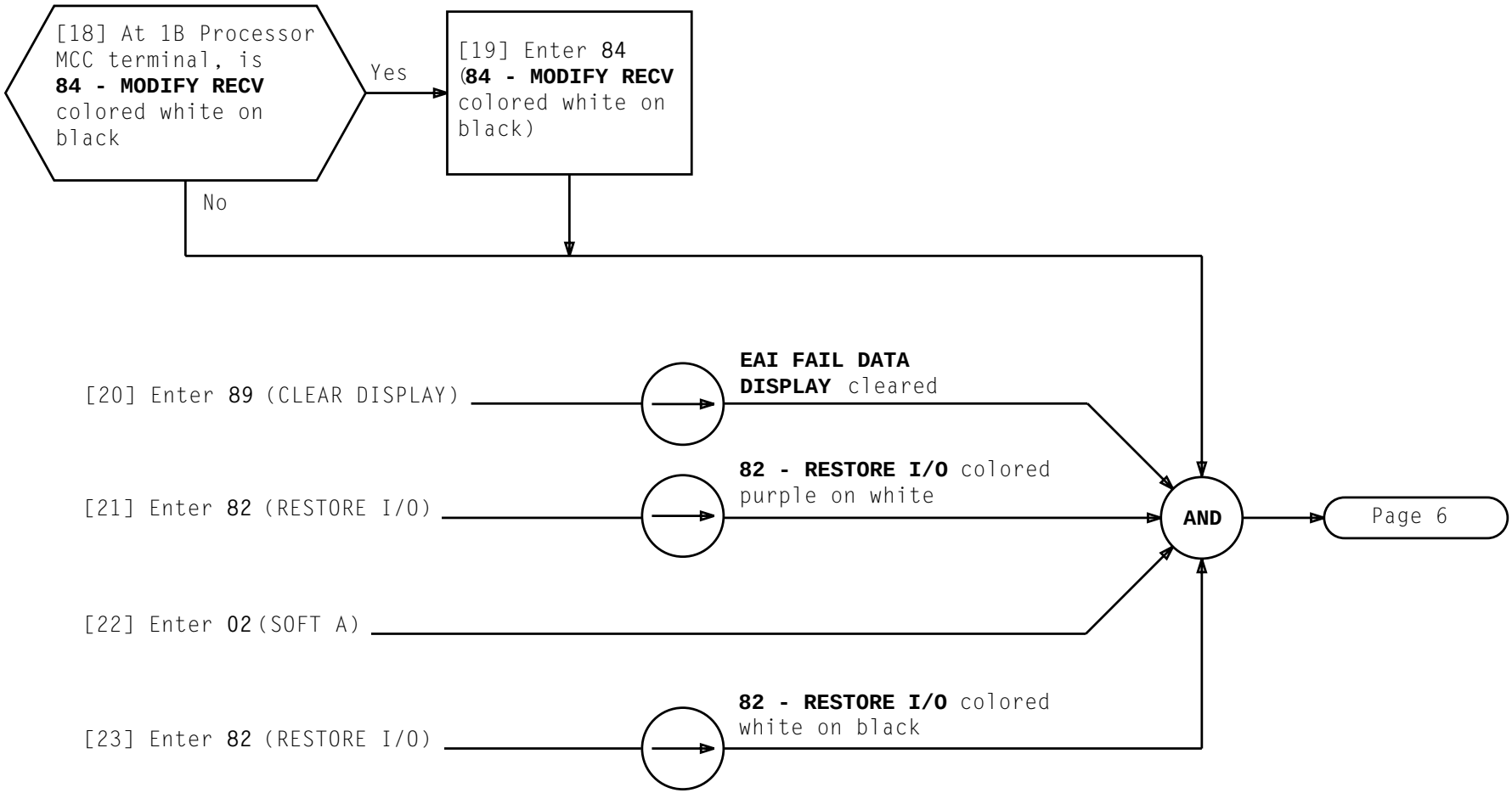
1. During Step 6, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbbb" [FIG. 1] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbbb"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

PERFORM UPDATE

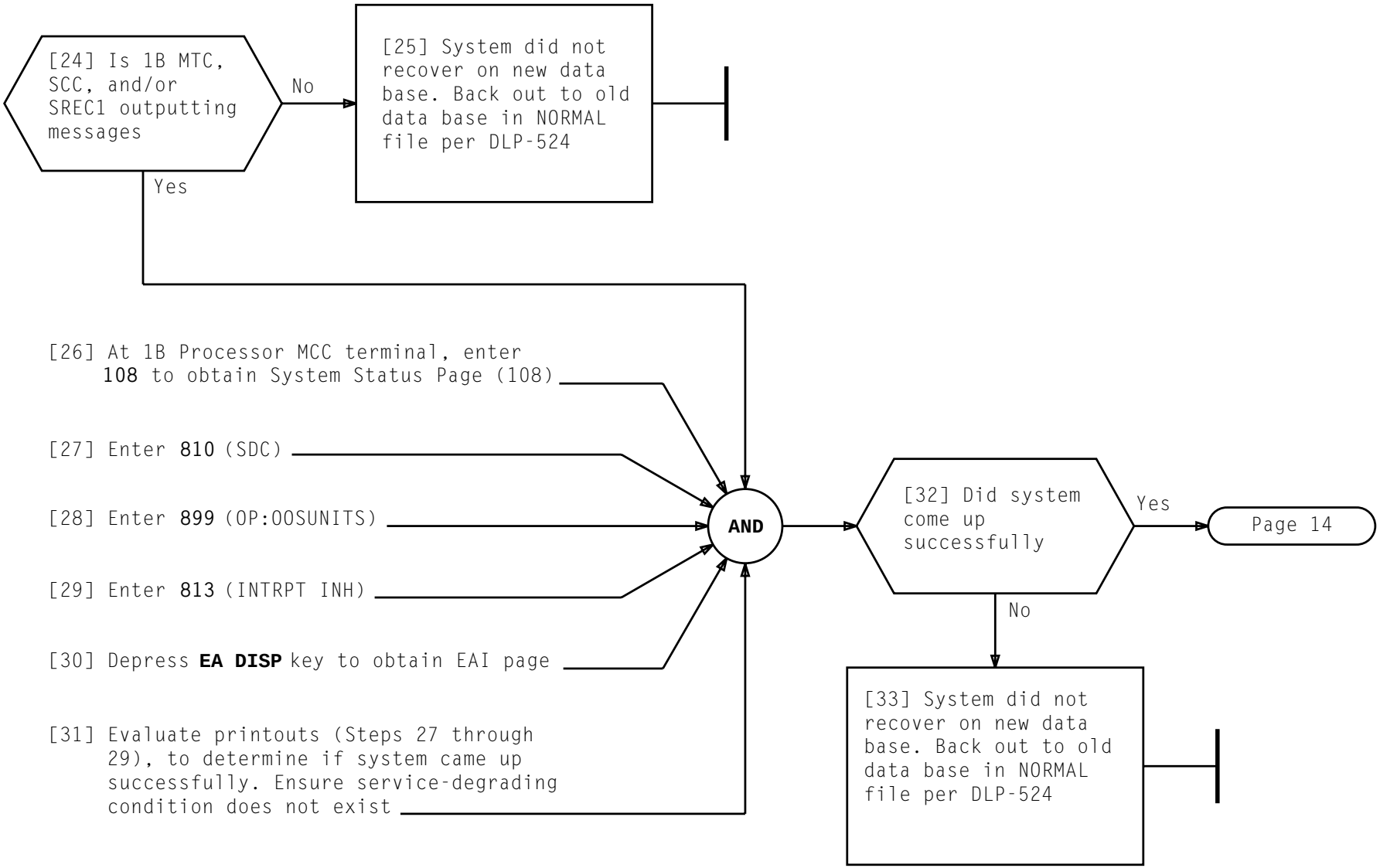


PERFORM UPDATE

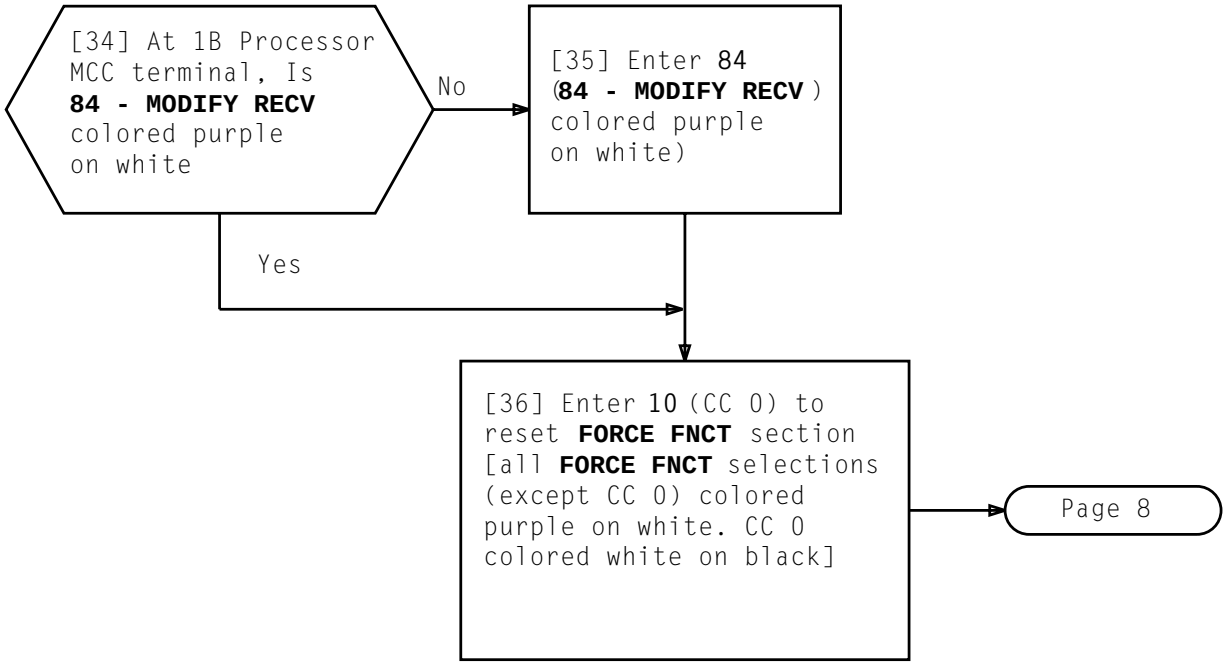

[13] Is 1B MTC, SCC, and/or SREC1 outputting messages
Yes
No
[15] Evaluate printouts to determine if system came up successfully. Ensure service-degrading condition does not exist
[16] Did system come up successfully
Yes
Page 14
No
[14] System recovered on new data base without I/O. Attempt to restore I/O will be required
Page 5
[17] System did not recover on new data base. Back out to old data base in NORMAL file per DLP-524

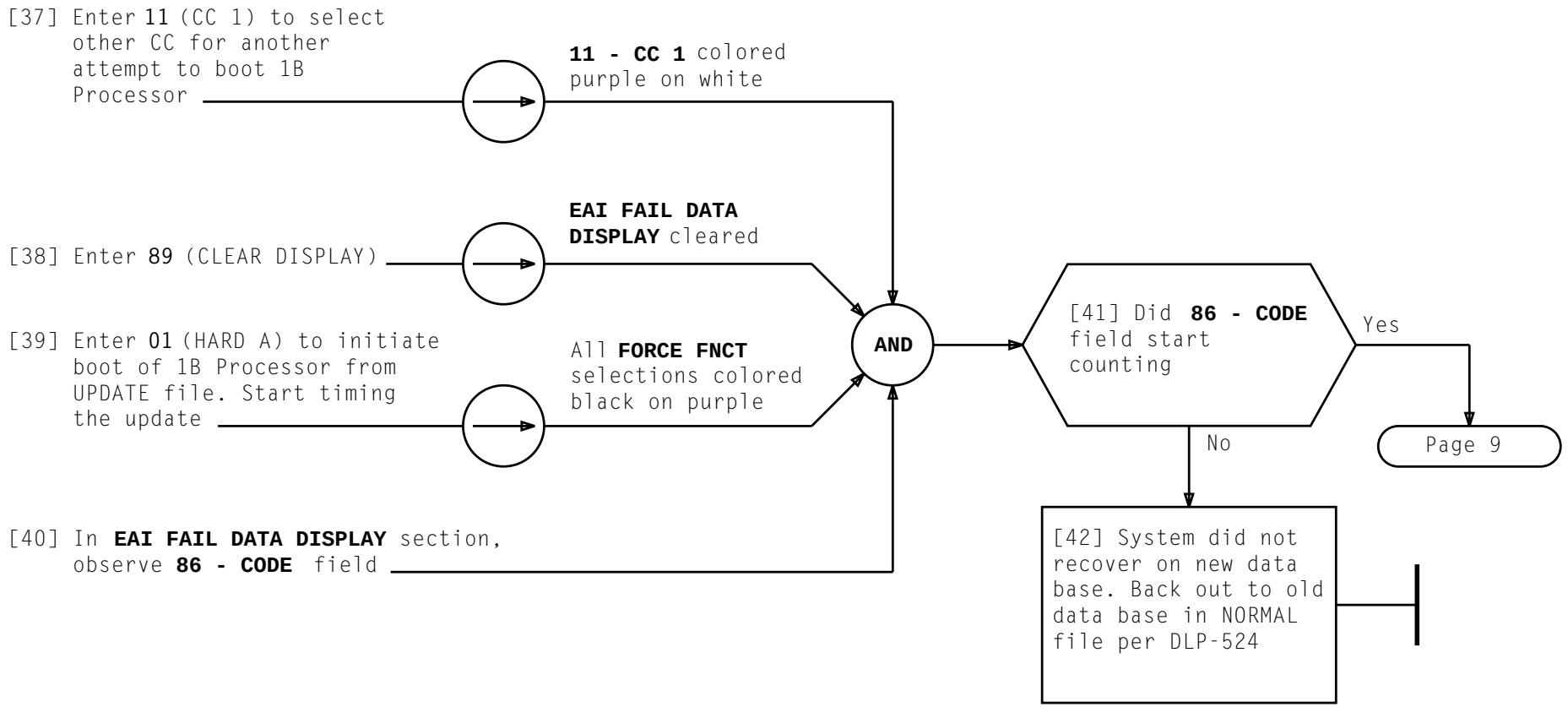


PERFORM UPDATE

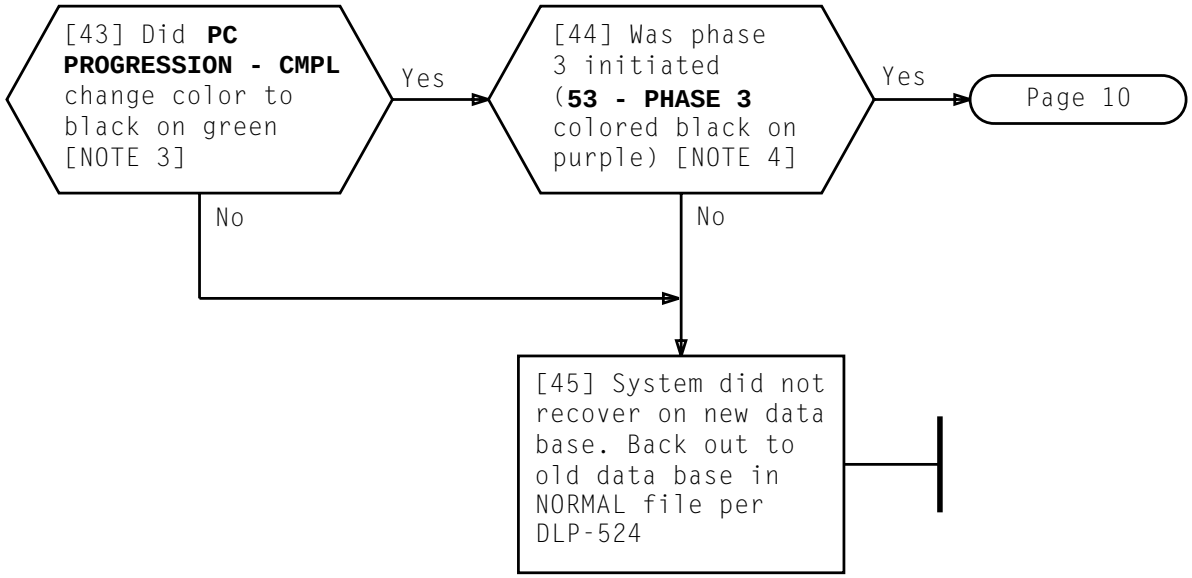


PERFORM UPDATE


[34] At 1B Processor MCC terminal, Is **84 - MODIFY RECV** colored purple on white
No
[35] Enter 84 (**84 - MODIFY RECV**) colored purple on white)
Yes
[36] Enter 10 (CC 0) to reset **FORCE FNCT** section [all **FORCE FNCT** selections (except CC 0) colored purple on white. CC 0 colored white on black]
Page 8



PERFORM UPDATE



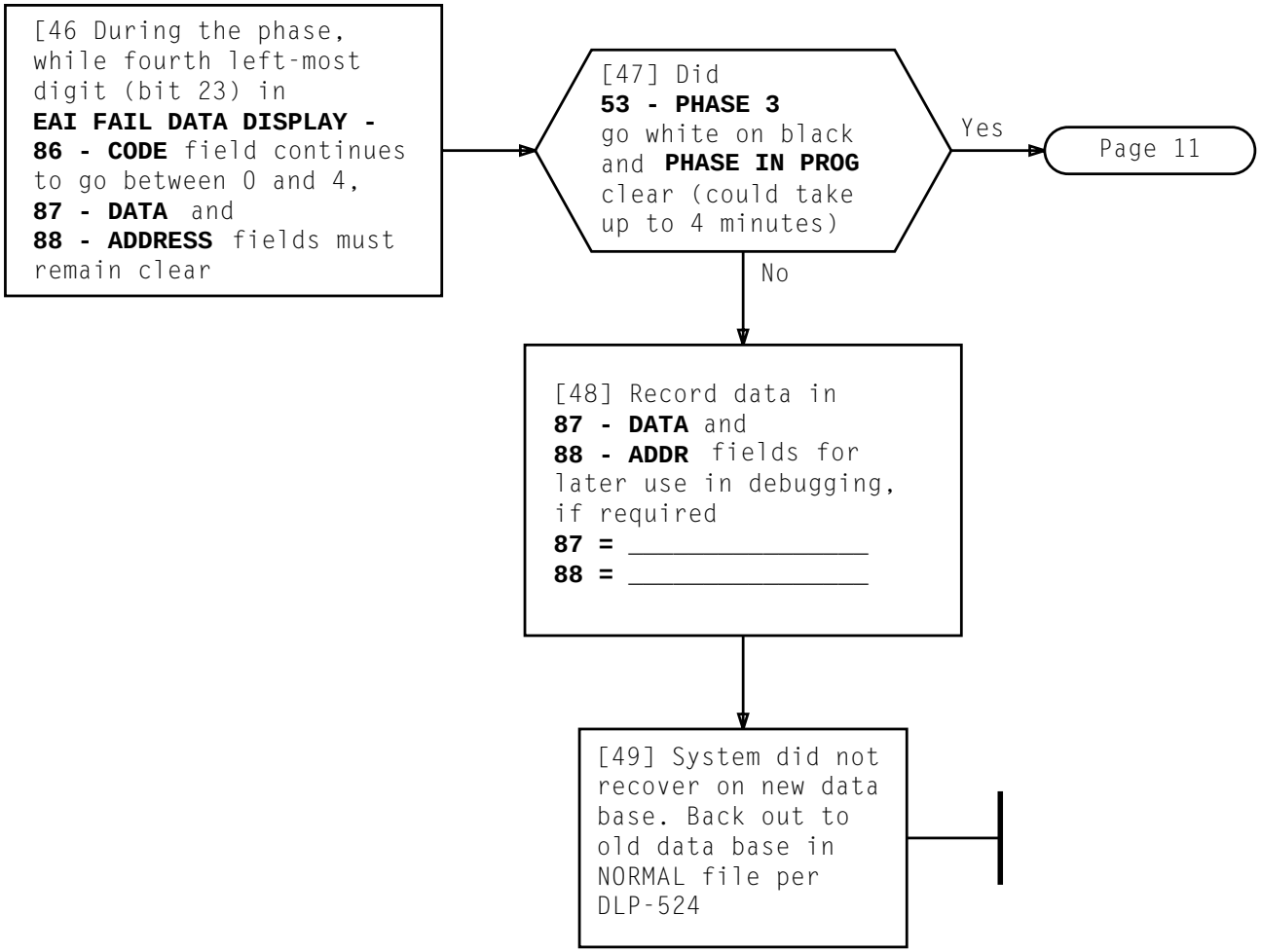
86 - CODE: O'OOOaaabbbbb
87 - DATA:
88 - ADDR:

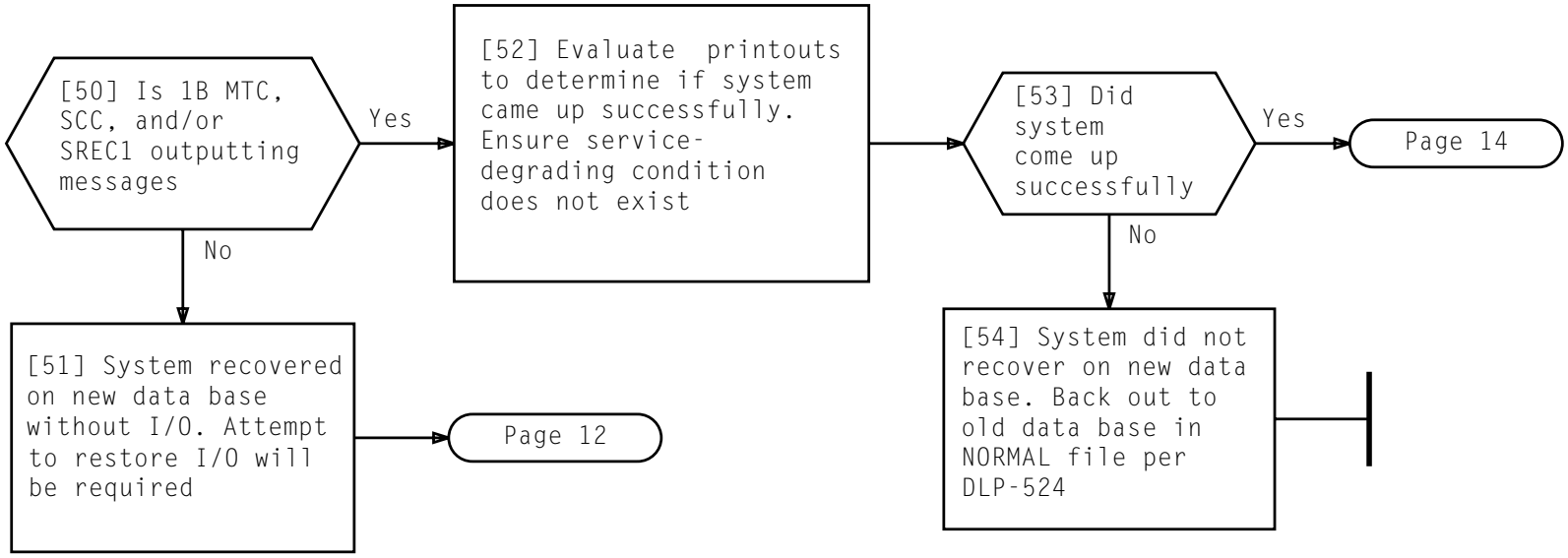
FIG. 2 - 86 - CODE Field Layout

NOTES

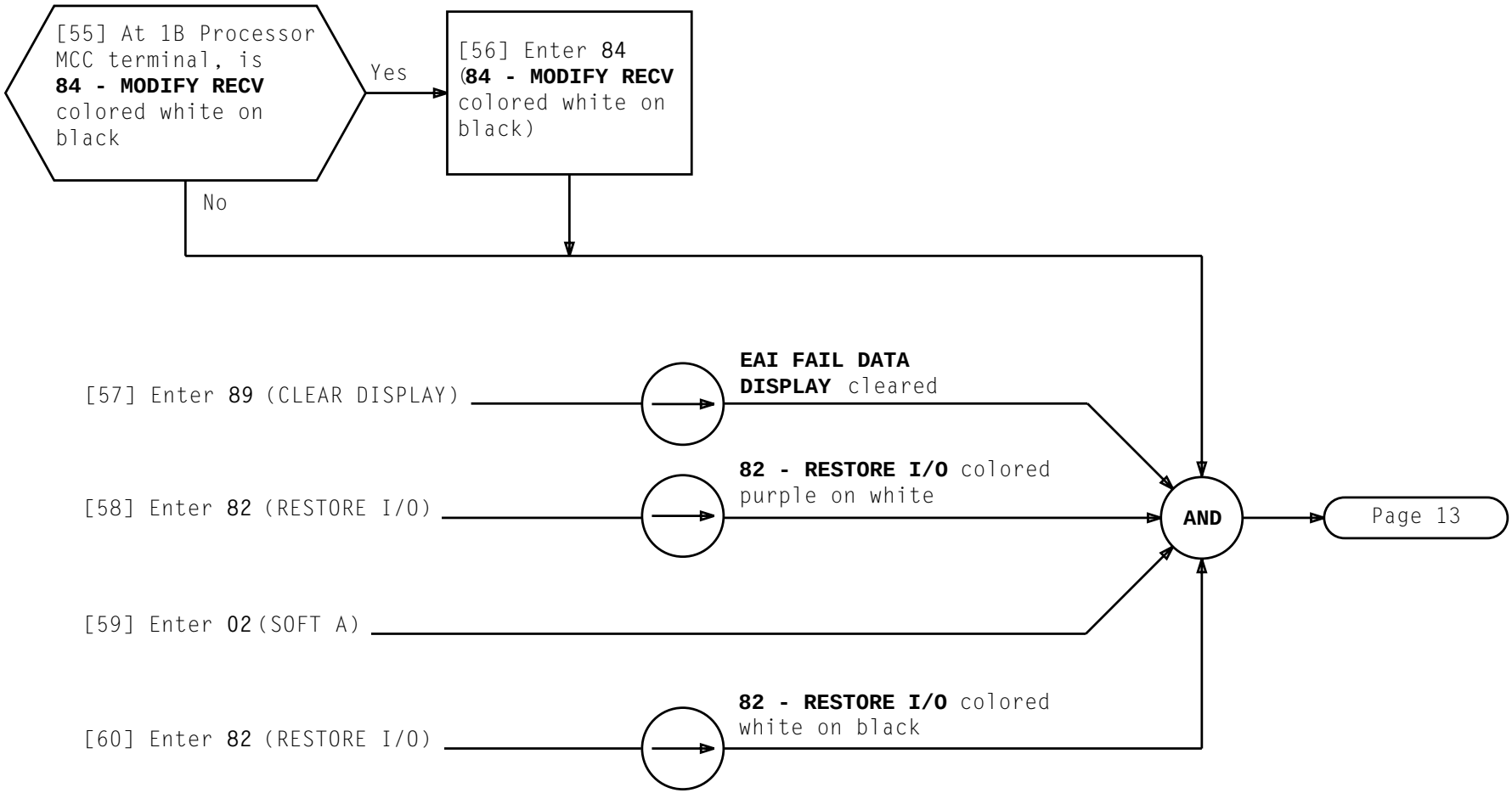
3. During Step 43, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbbb" [FIG. 2] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbbb" 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 "bbbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbbb" continues to increment, this is a failure. If data is received in **87 - DATA** field, this is a failure
4. When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 0 and 4 (bit 23).
   53 - PHASE 3 colored black on purple. In lower left-hand corner, **PHASE IN PROG** colored white on red. **PC PROGRESSION - CMPL** continues to be colored black on green

PERFORM UPDATE

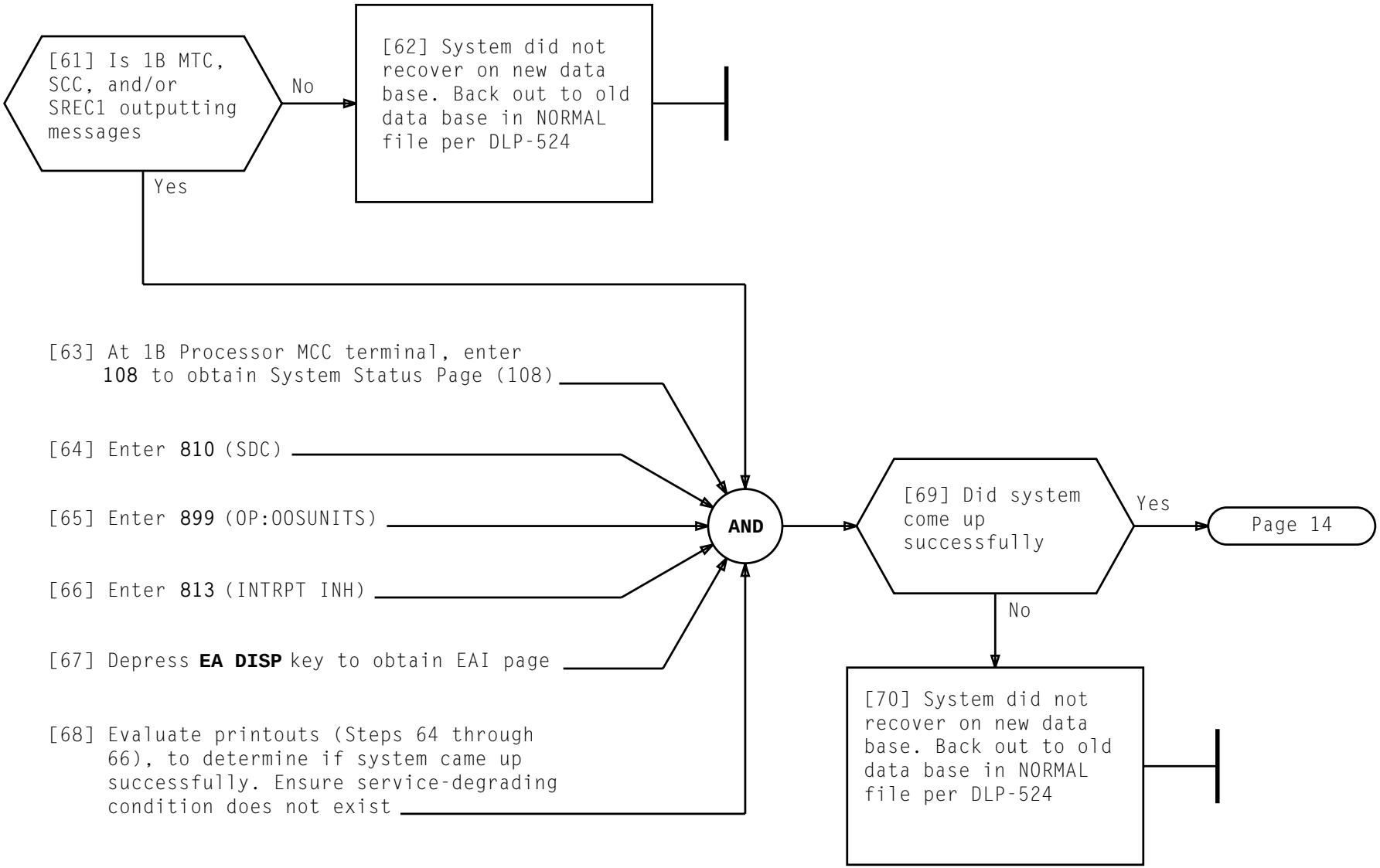

[46 During the phase, while fourth left-most digit (bit 23) in **EAI FAIL DATA DISPLAY - 86 - CODE** field continues to go between 0 and 4, **87 - DATA** and **88 - ADDRESS** fields must remain clear
[47] Did **53 - PHASE 3** go white on black and **PHASE IN PROG** clear (could take up to 4 minutes)
Yes
Page 11
No
[48] Record data in **87 - DATA** and **88 - ADDR** fields for later use in debugging, if required
87 = _____
88 = _____
[49] System did not recover on new data base. Back out to old data base in NORMAL file per DLP-524



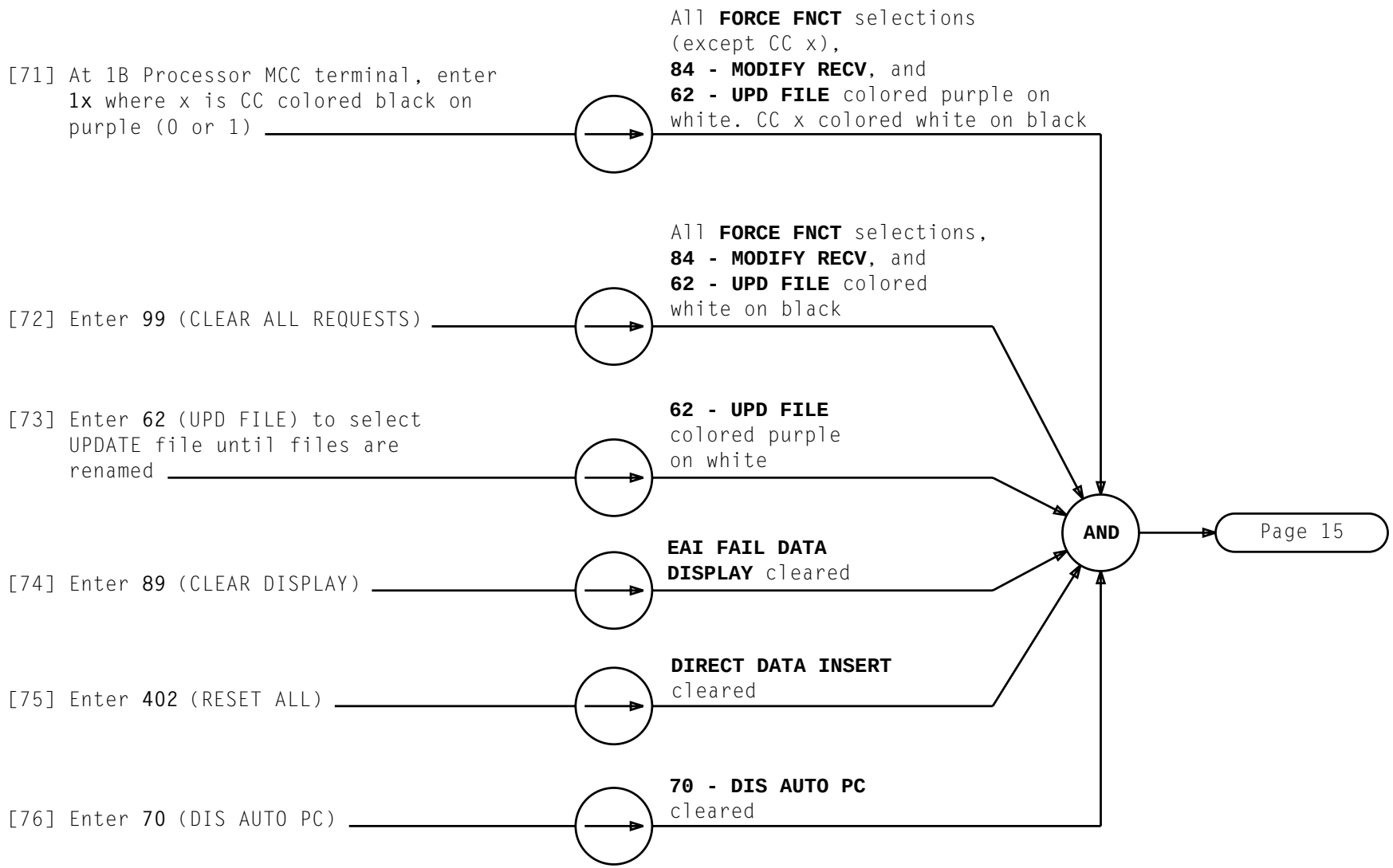
PERFORM UPDATE



PERFORM UPDATE



PERFORM UPDATE



PERFORM UPDATE

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

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

62 - UPD FILE
colored white
on black

[79] Enter **108** to obtain 108 display page

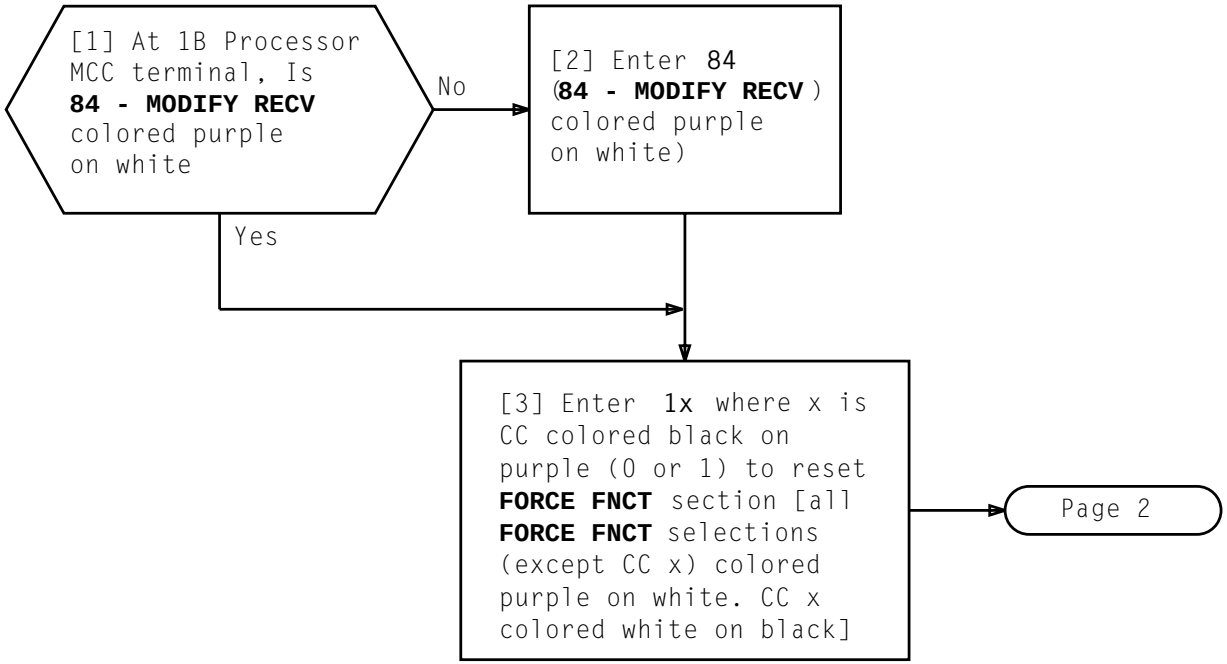
AND

[80] Enter **801** to restrict recent changes

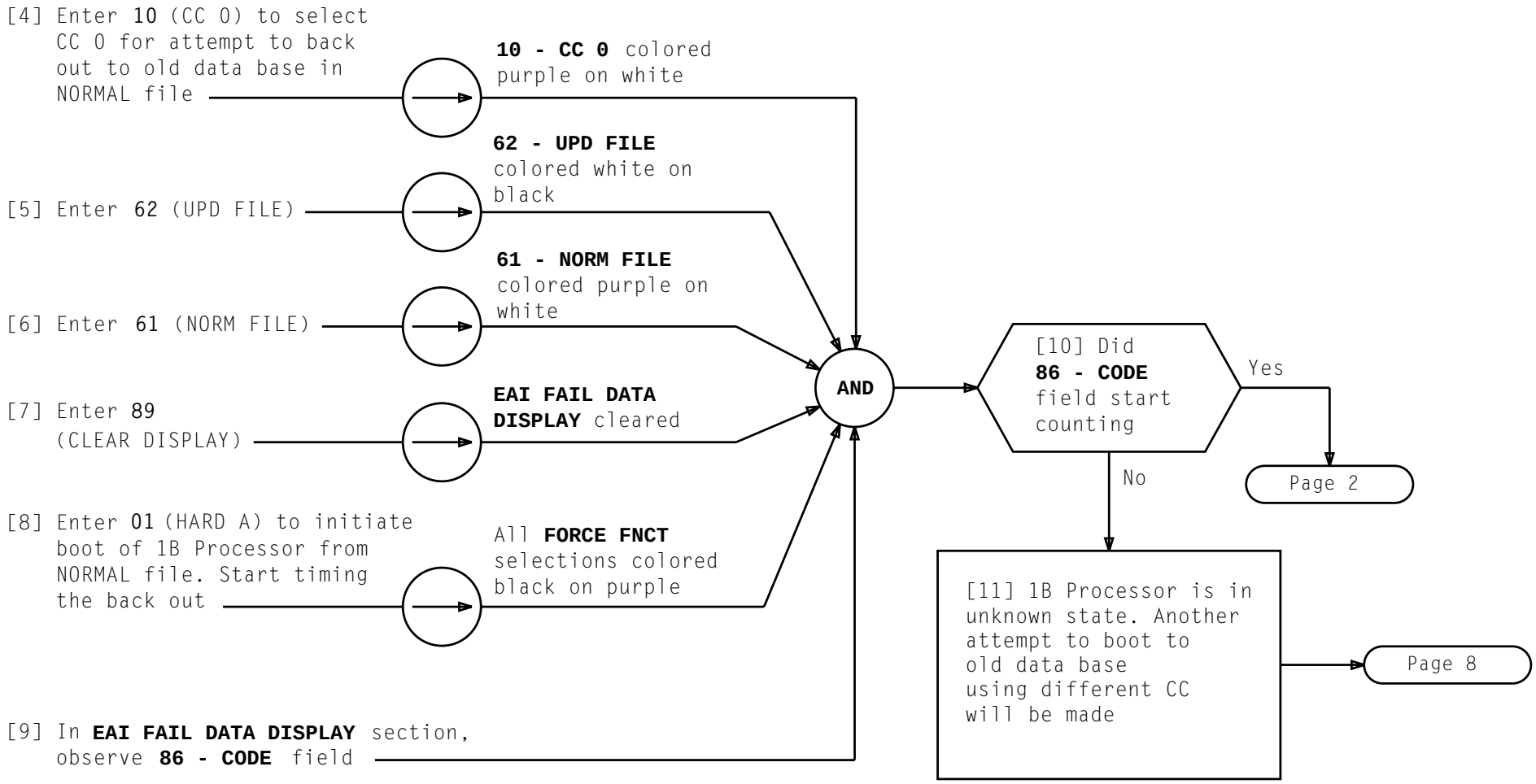
801 - RESTRICT RC
colored black
on white

NOTE 5

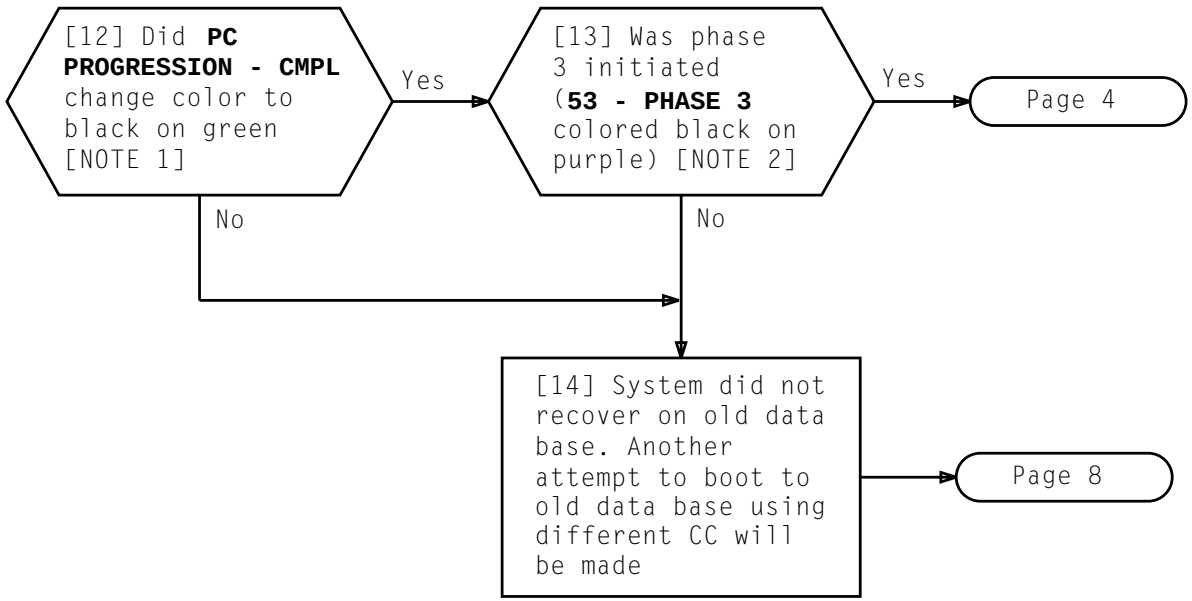
Step 77 is being performed to rename UPDATE file to NORMAL file and precedes the actual commitment to 1B Processor



BACK OUT TO OLD DATA BASE IN NORMAL FILE



BACK OUT TO OLD DATA BASE IN NORMAL FILE



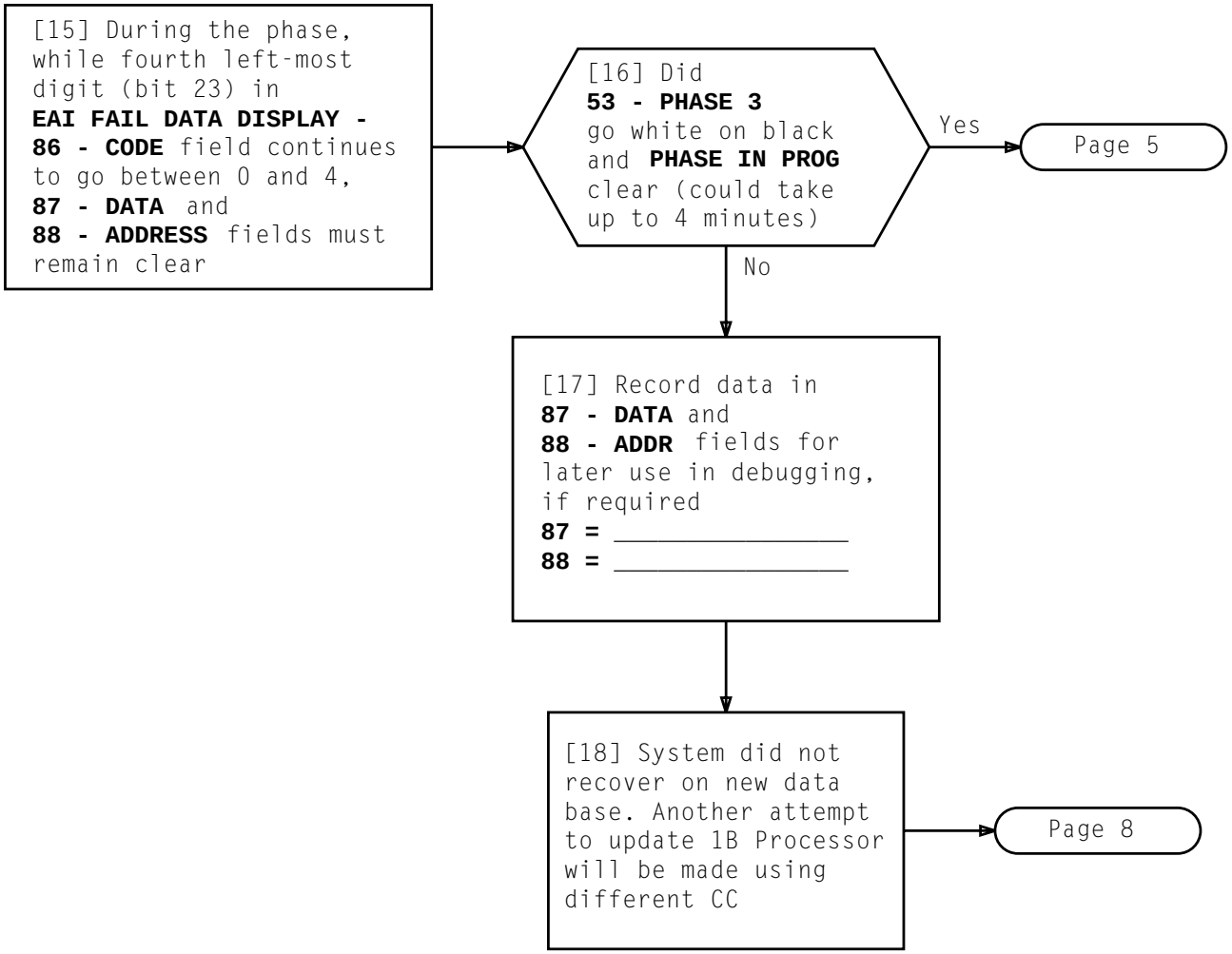
86 - CODE: O'OOOaaabbbbb
87 - DATA:
88 - ADDR:

FIG. 1 - 86 - CODE Field Layout

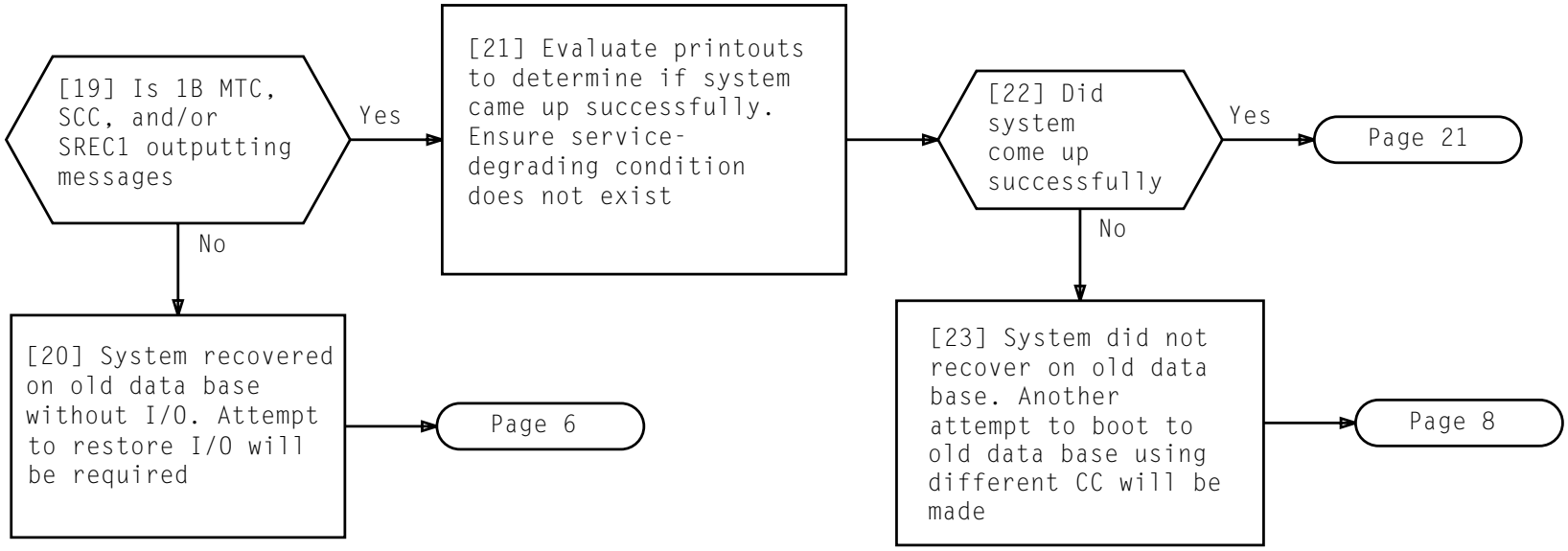
NOTES

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

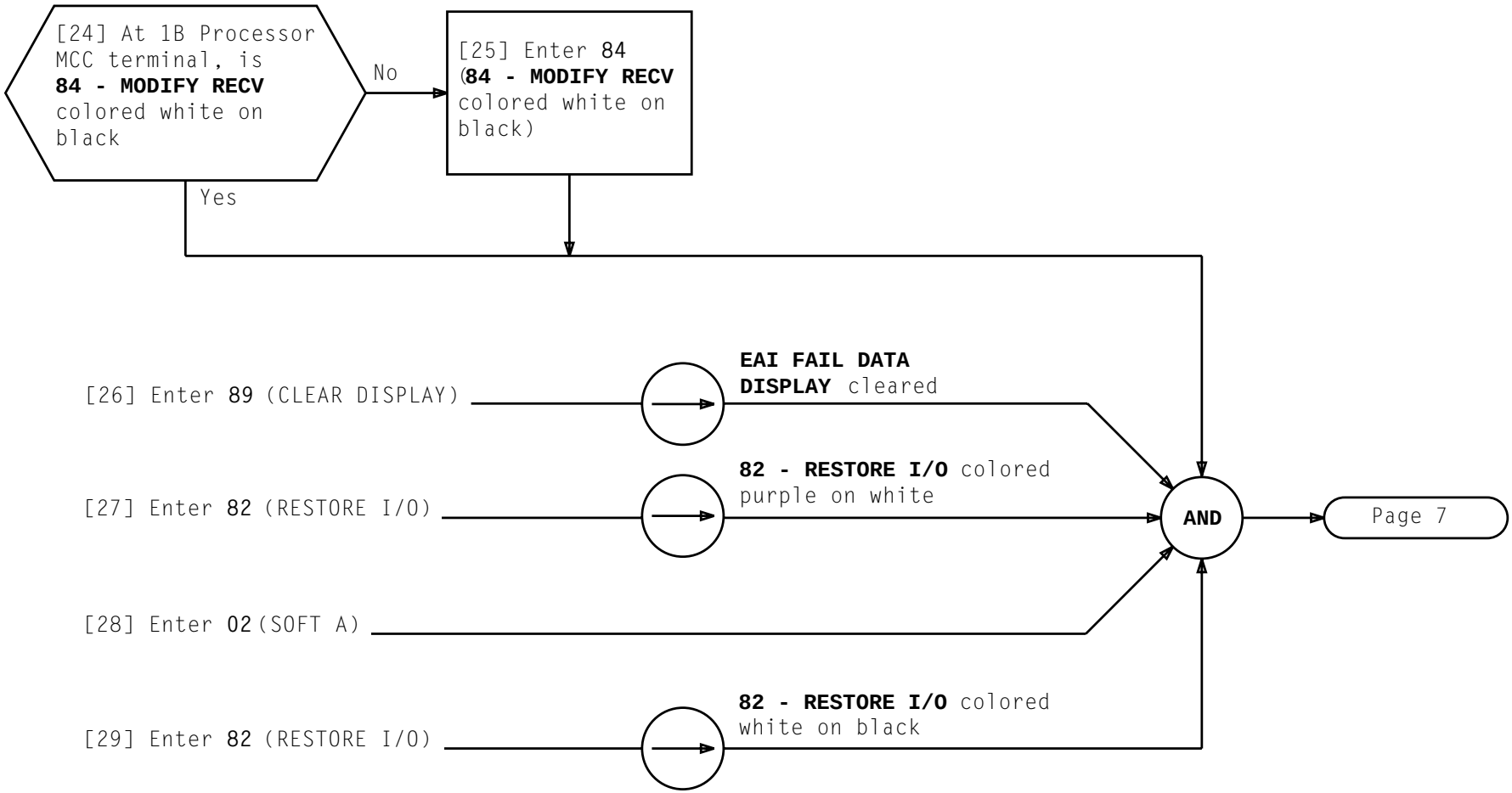
BACK OUT TO OLD DATA BASE IN NORMAL FILE



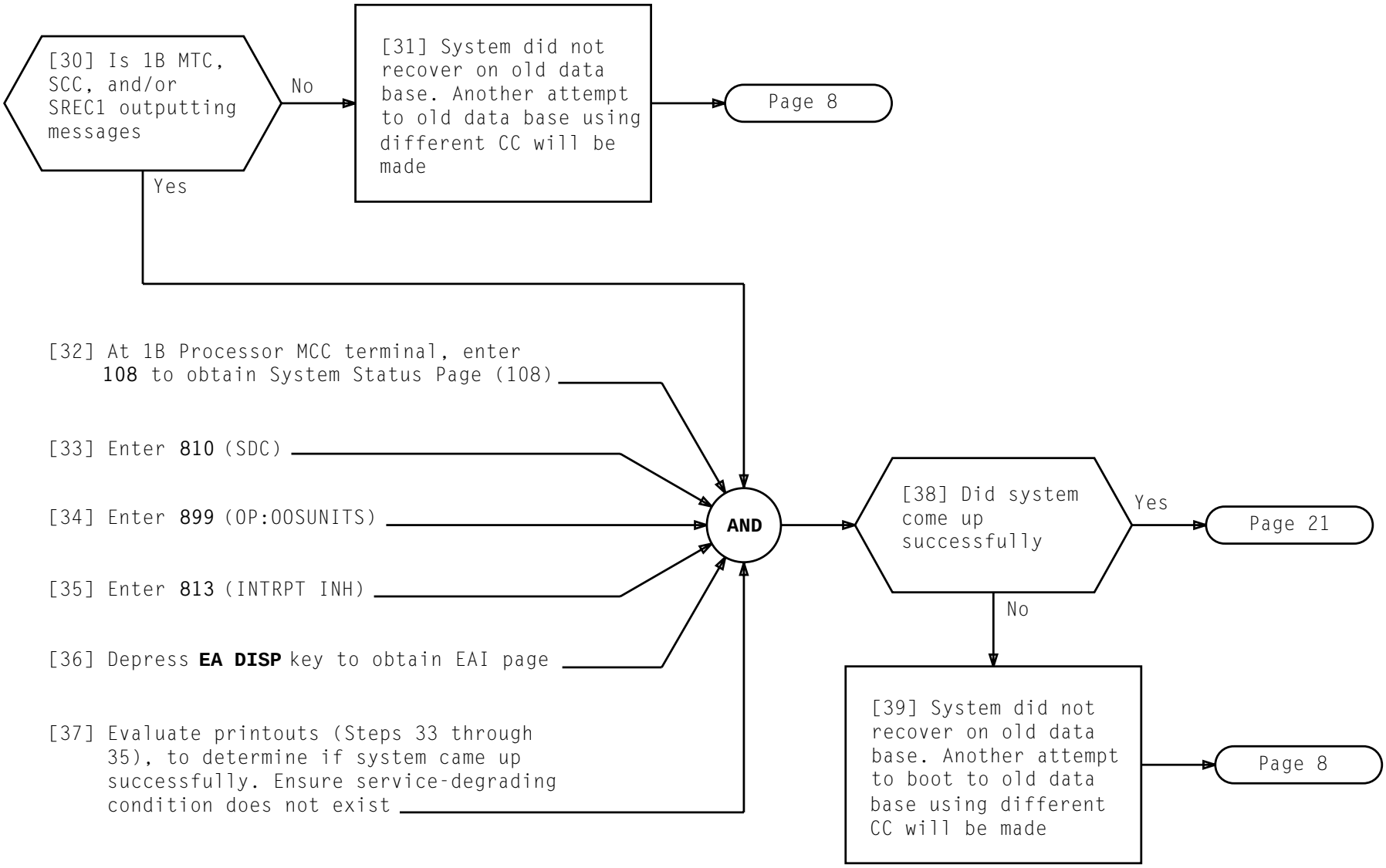
BACK OUT TO OLD DATA BASE IN NORMAL FILE



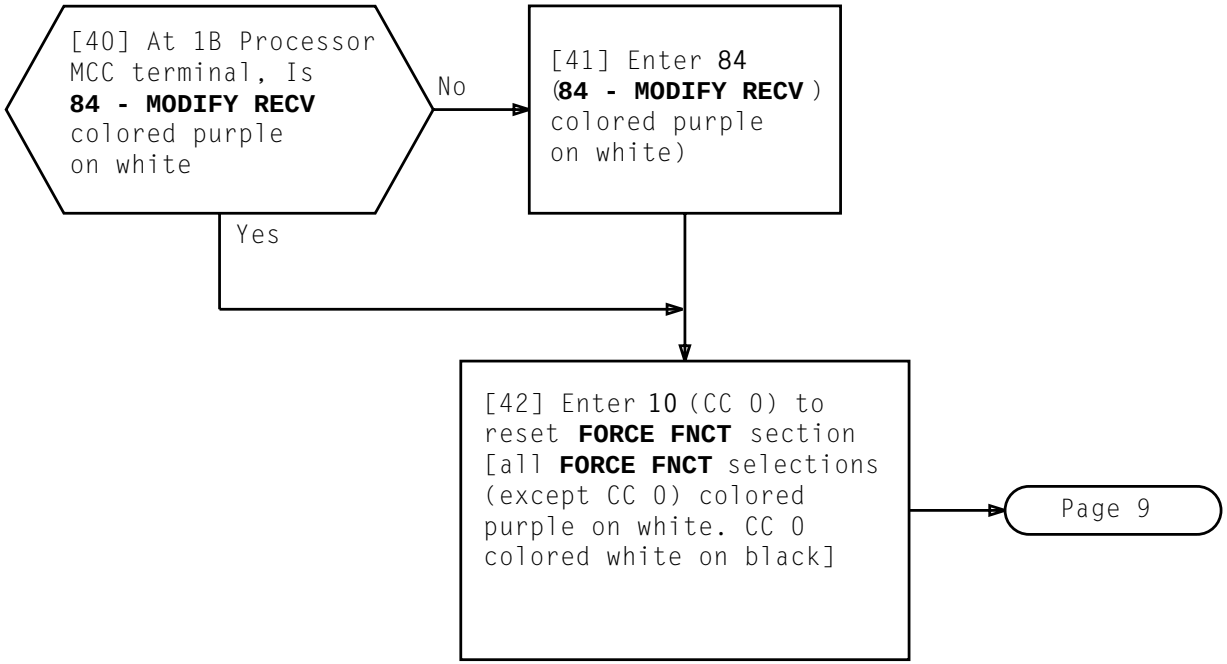
BACK OUT TO OLD DATA BASE IN NORMAL FILE



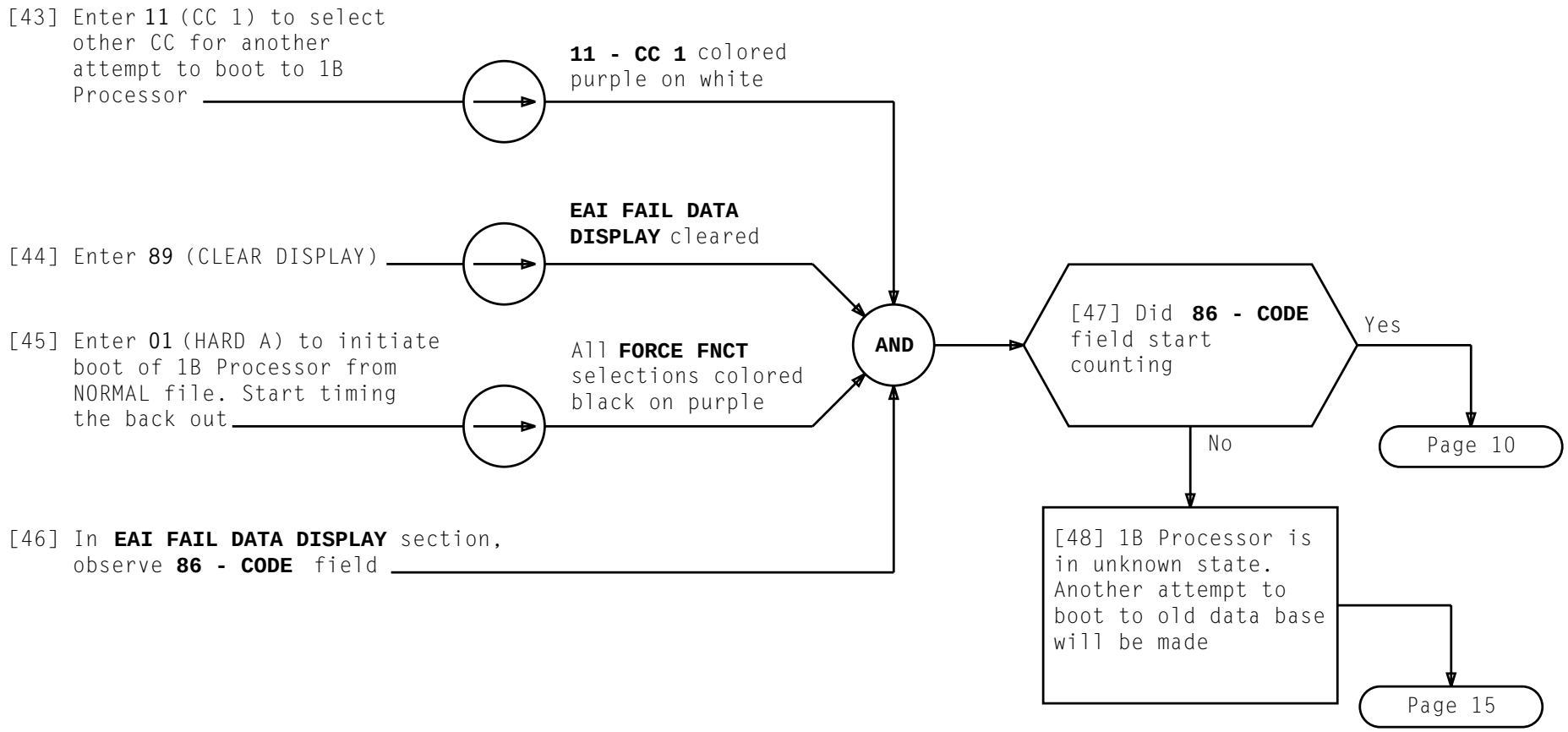
BACK OUT TO OLD DATA BASE IN NORMAL FILE



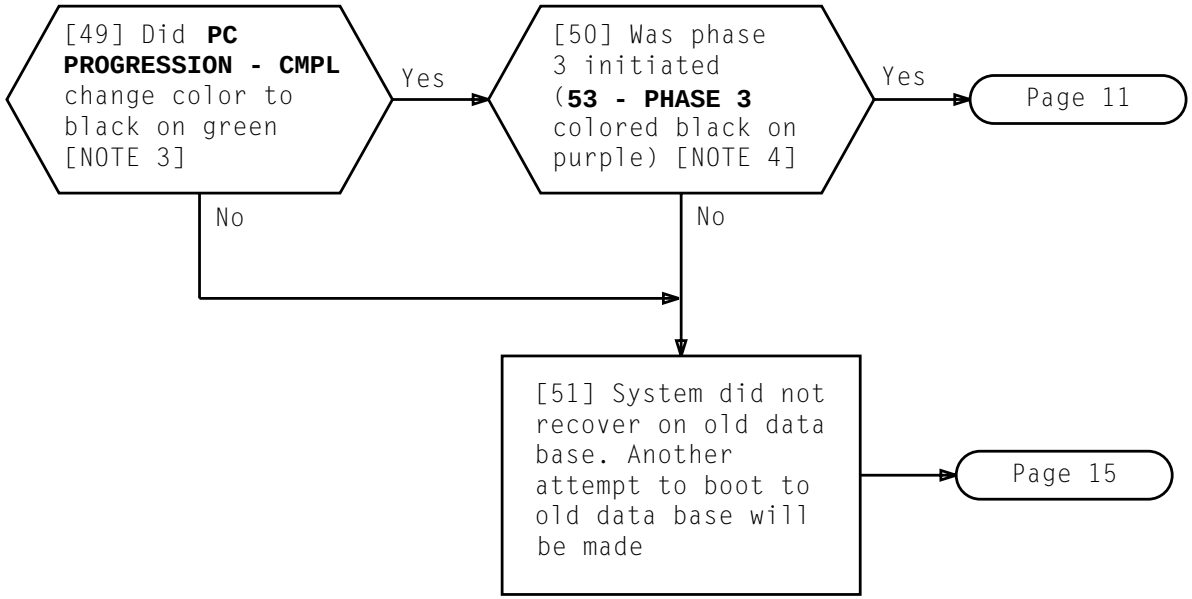
BACK OUT TO OLD DATA BASE IN NORMAL FILE



BACK OUT TO OLD DATA BASE IN NORMAL FILE



BACK OUT TO OLD DATA BASE IN NORMAL FILE



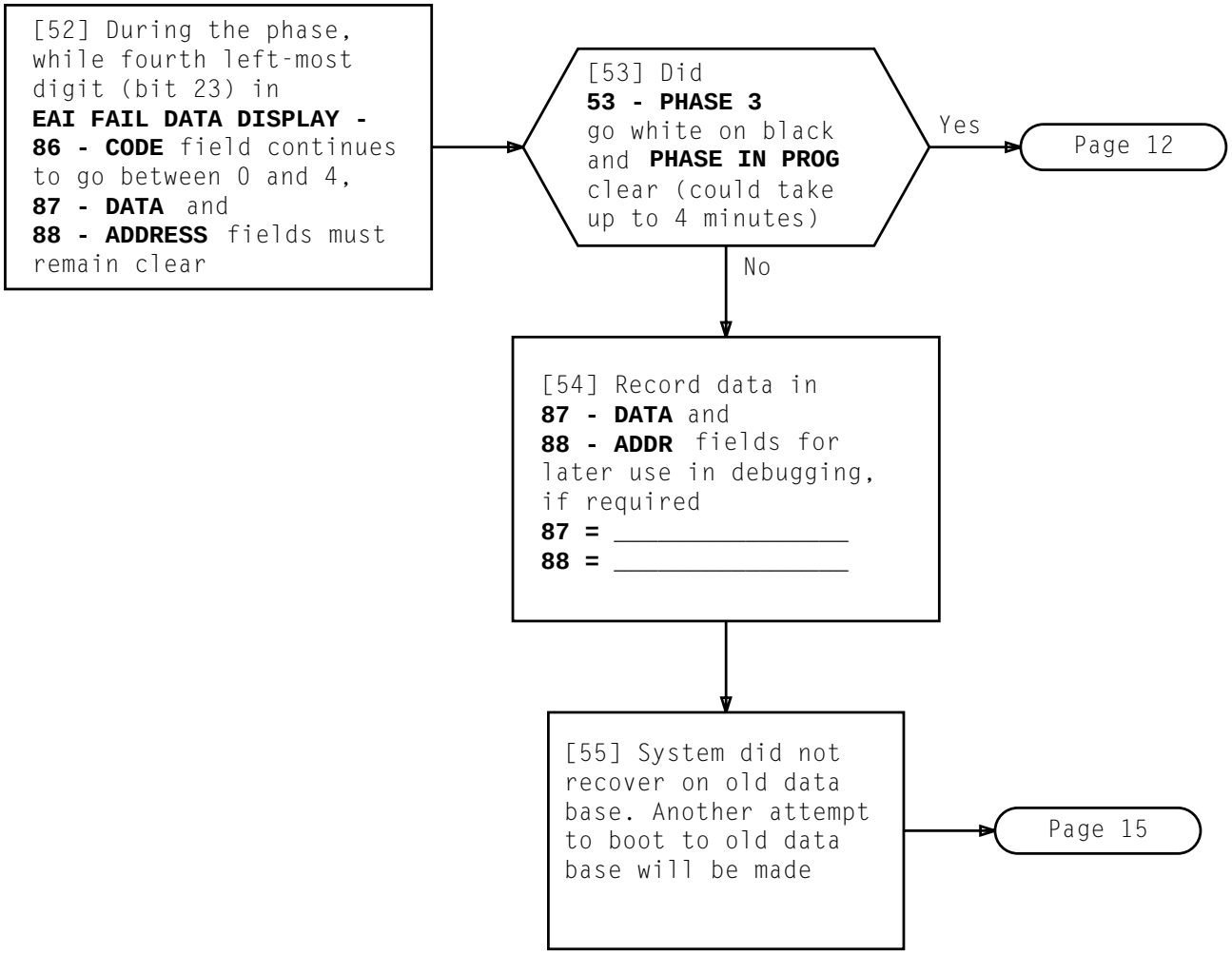
86 - CODE: O'OOOaaabbbbb
87 - DATA:
88 - ADDR:

FIG. 2 - 86 - CODE Field Layout

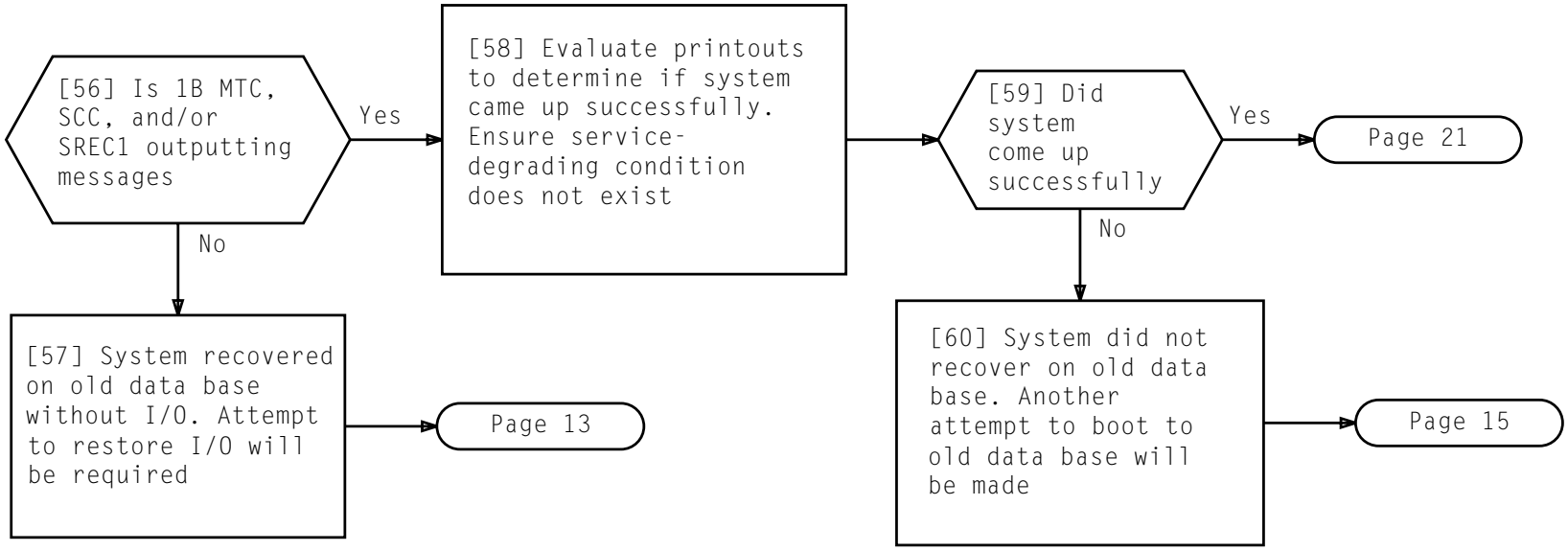
NOTES

3. During Step 49, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbbb" [FIG. 2] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbbb" 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 "bbbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbbb" 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

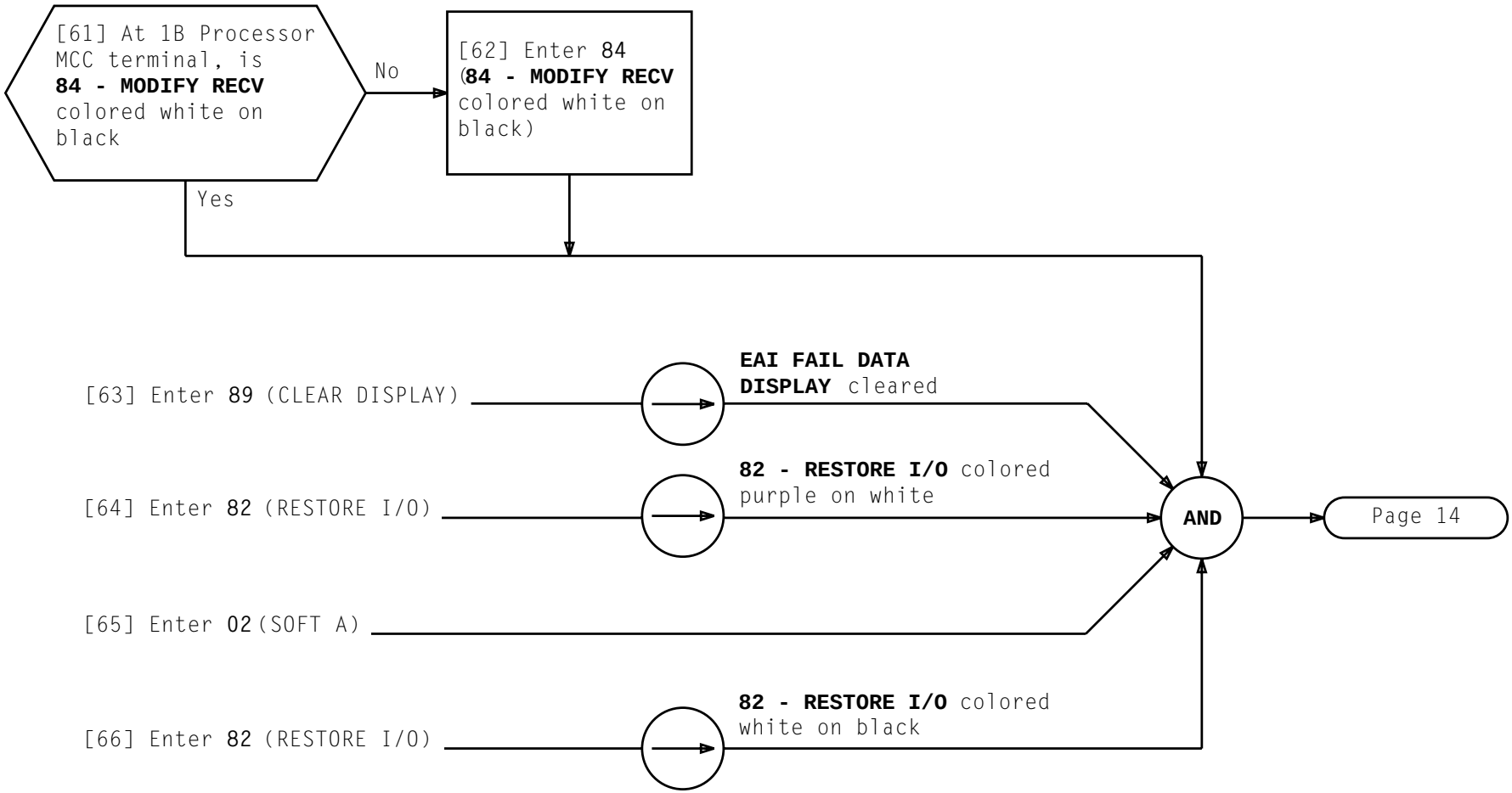
BACK OUT TO OLD DATA BASE IN NORMAL FILE



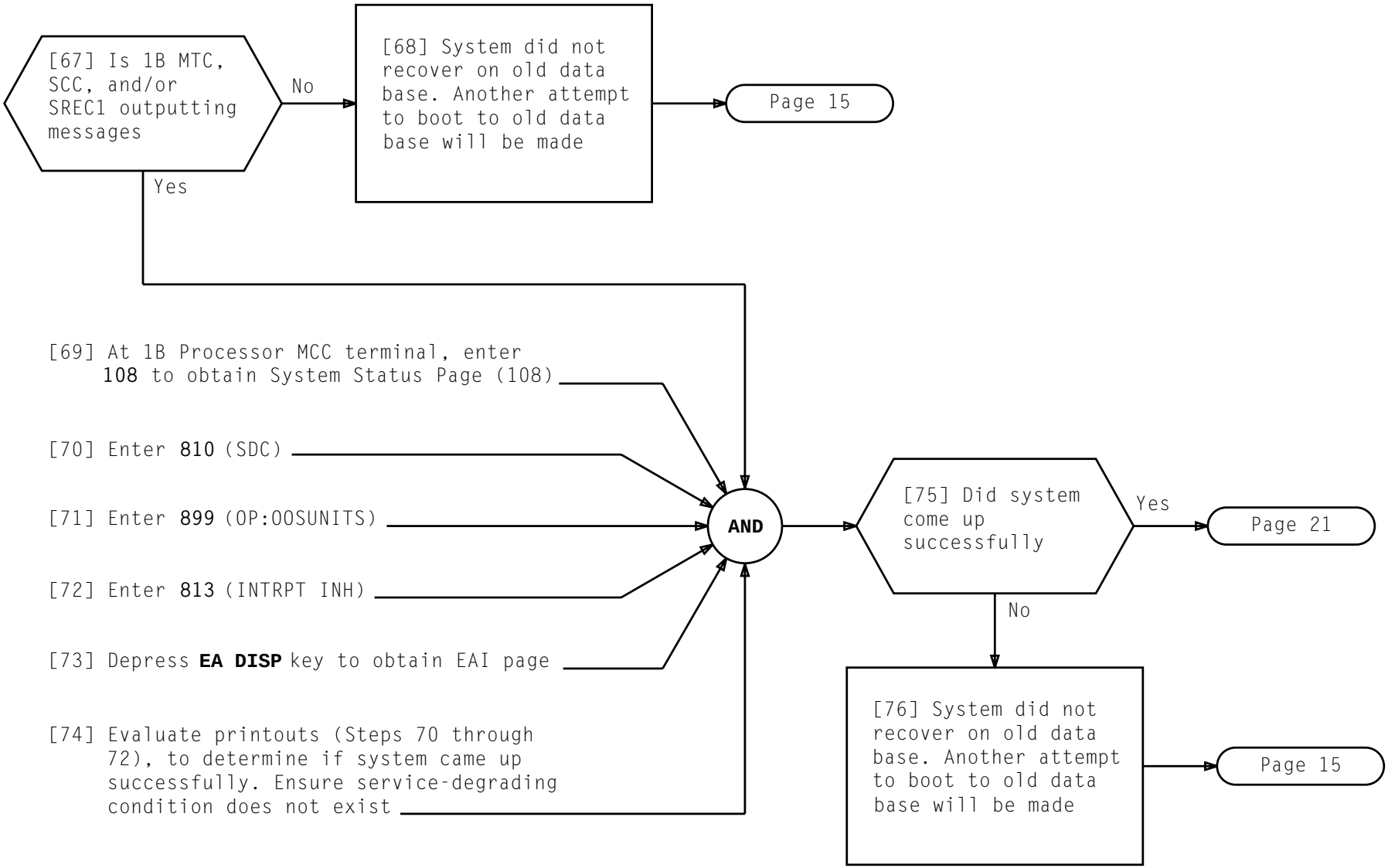
BACK OUT TO OLD DATA BASE IN NORMAL FILE



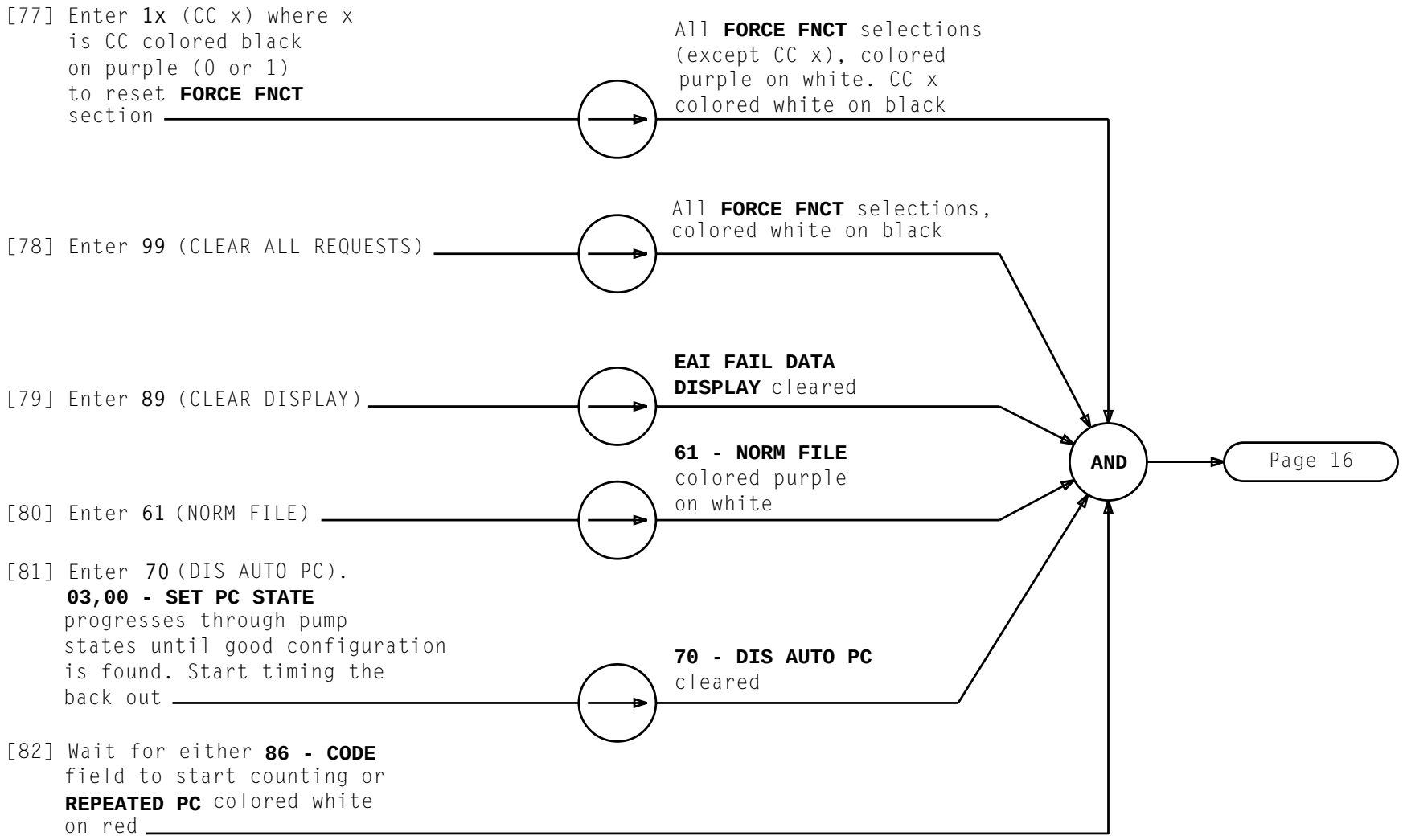
BACK OUT TO OLD DATA BASE IN NORMAL FILE



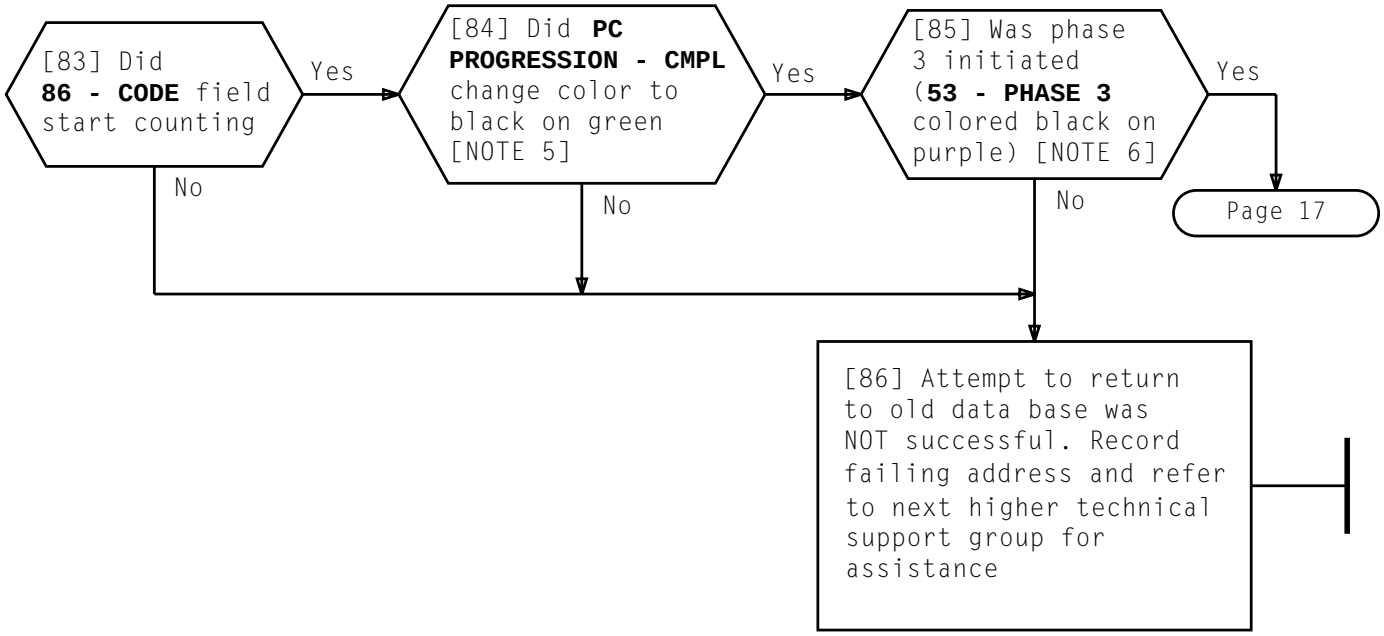
BACK OUT TO OLD DATA BASE IN NORMAL FILE



BACK OUT TO OLD DATA BASE IN NORMAL FILE



BACK OUT TO OLD DATA BASE IN NORMAL FILE



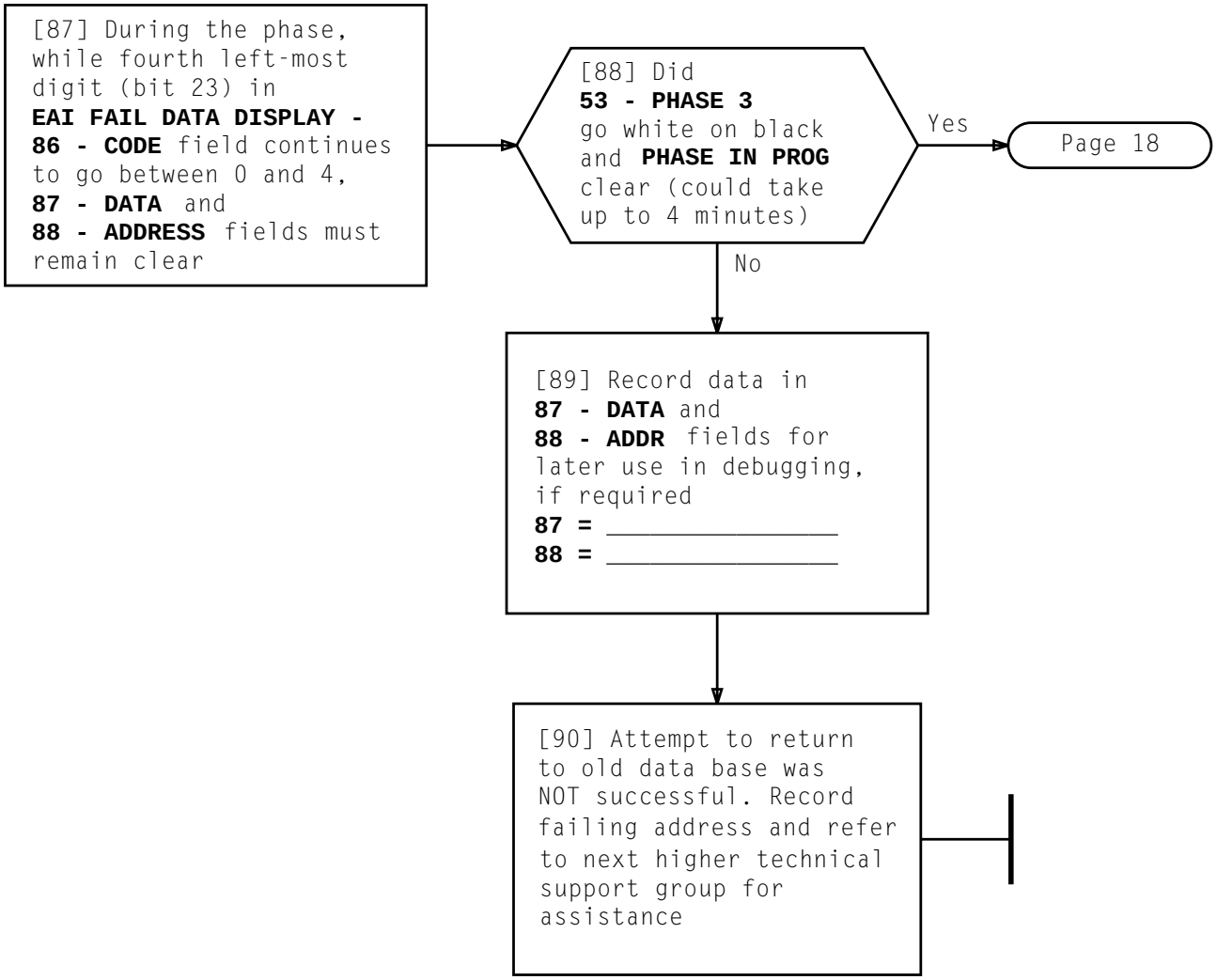
86 - CODE: O'000aaabbbbb
87 - DATA:
88 - ADDR:

FIG. 3 - 86 - CODE Field Layout

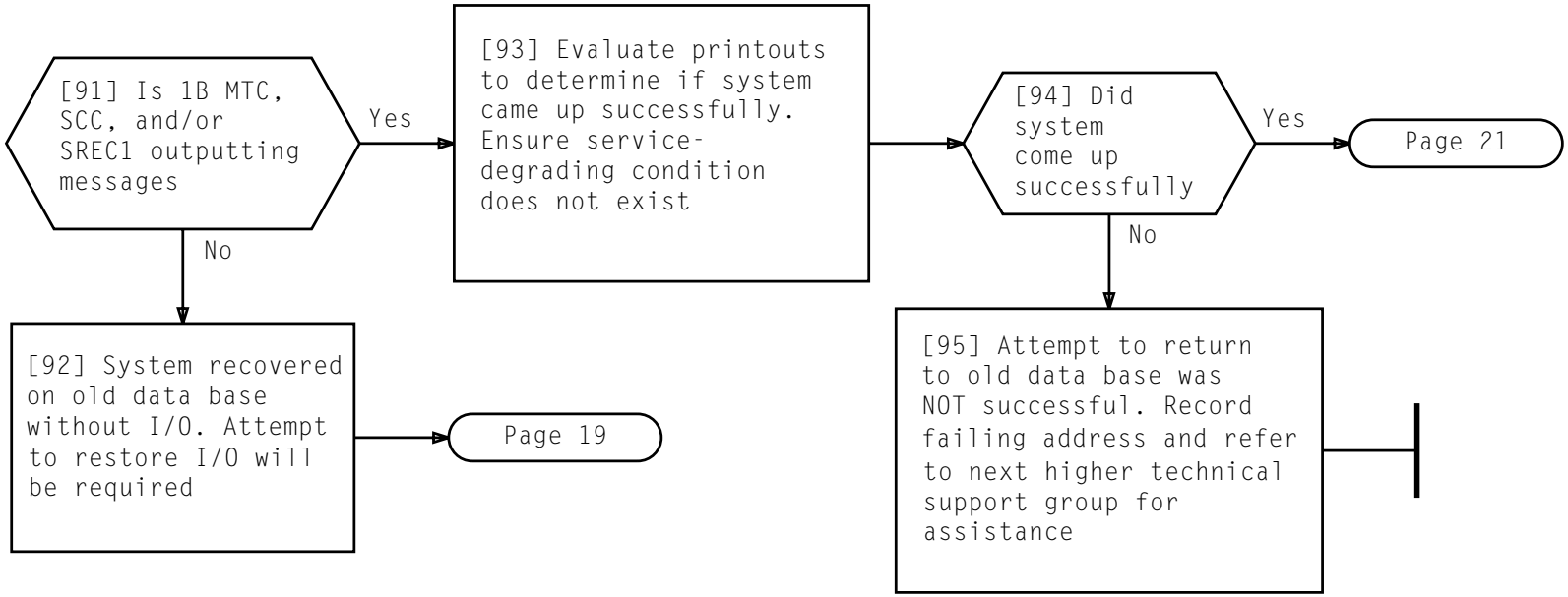
NOTES

5. During Step 83, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbbb" [FIG. 3] in **86 - CODE** field must begin incrementing within 10 seconds after entering 01. "bbbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range being pumped. "aaa" and "bbbbb" 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 "bbbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing and "bbbbb" 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

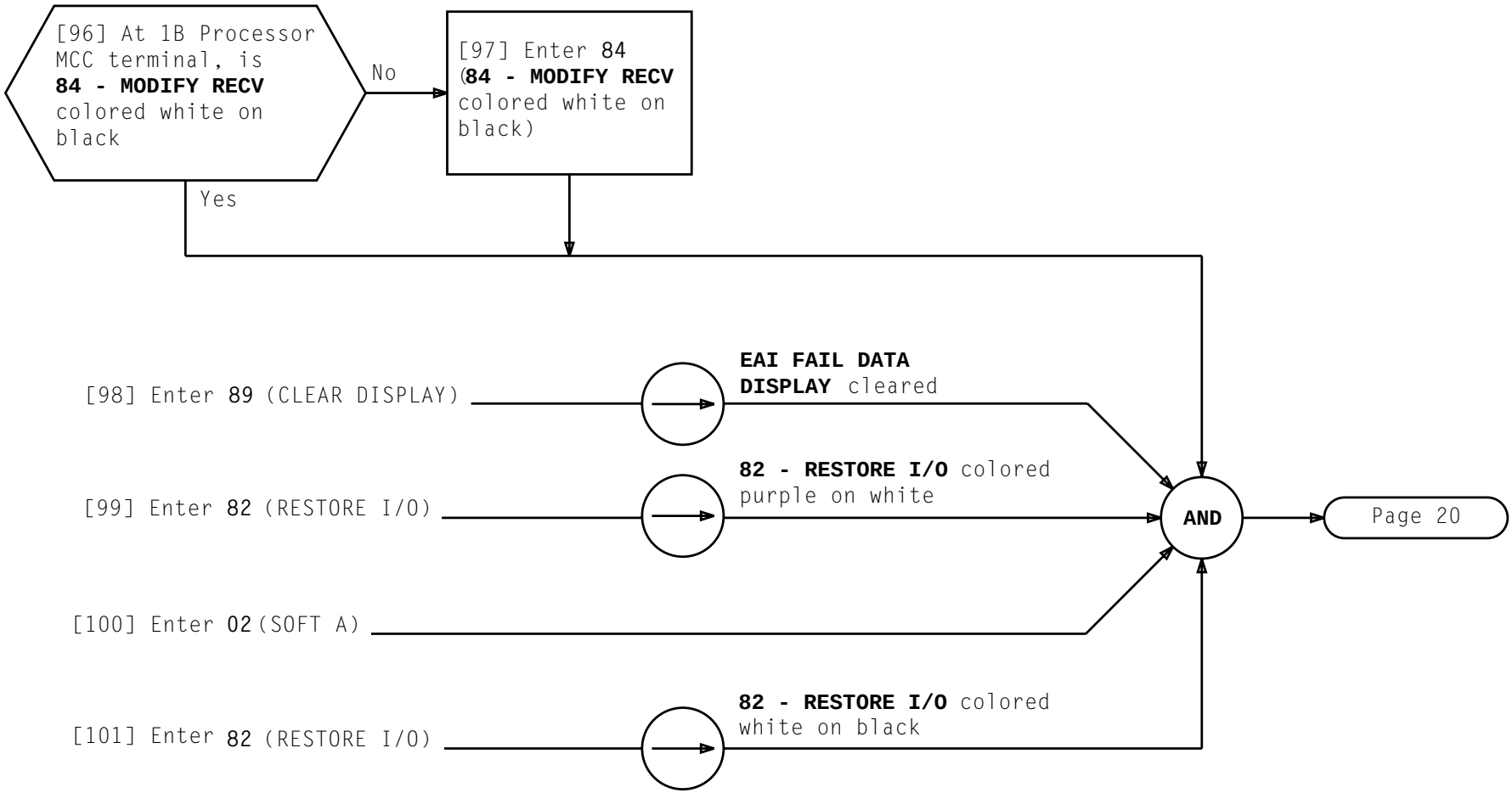
BACK OUT TO OLD DATA BASE IN NORMAL FILE



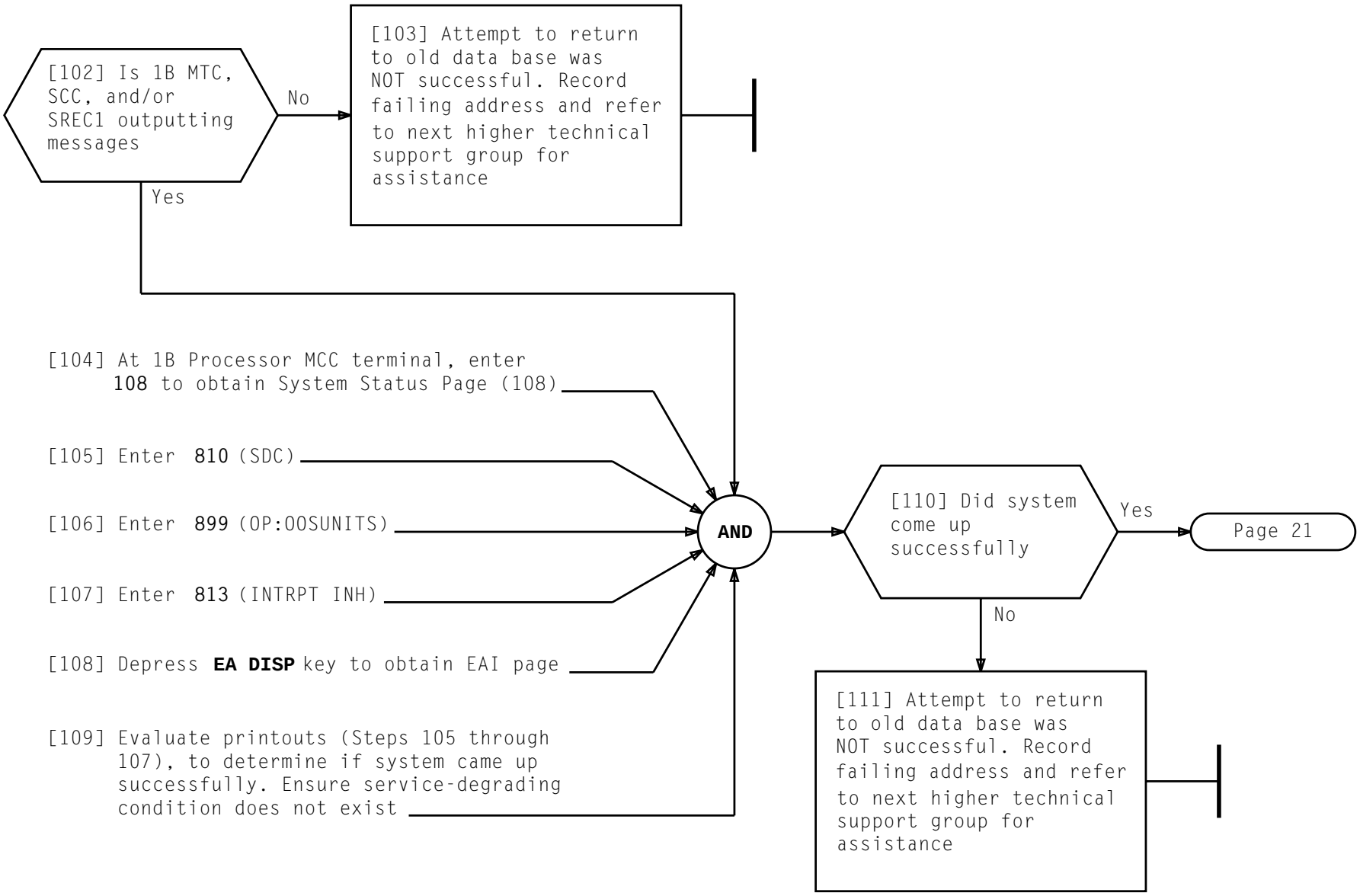
BACK OUT TO OLD DATA BASE IN NORMAL FILE



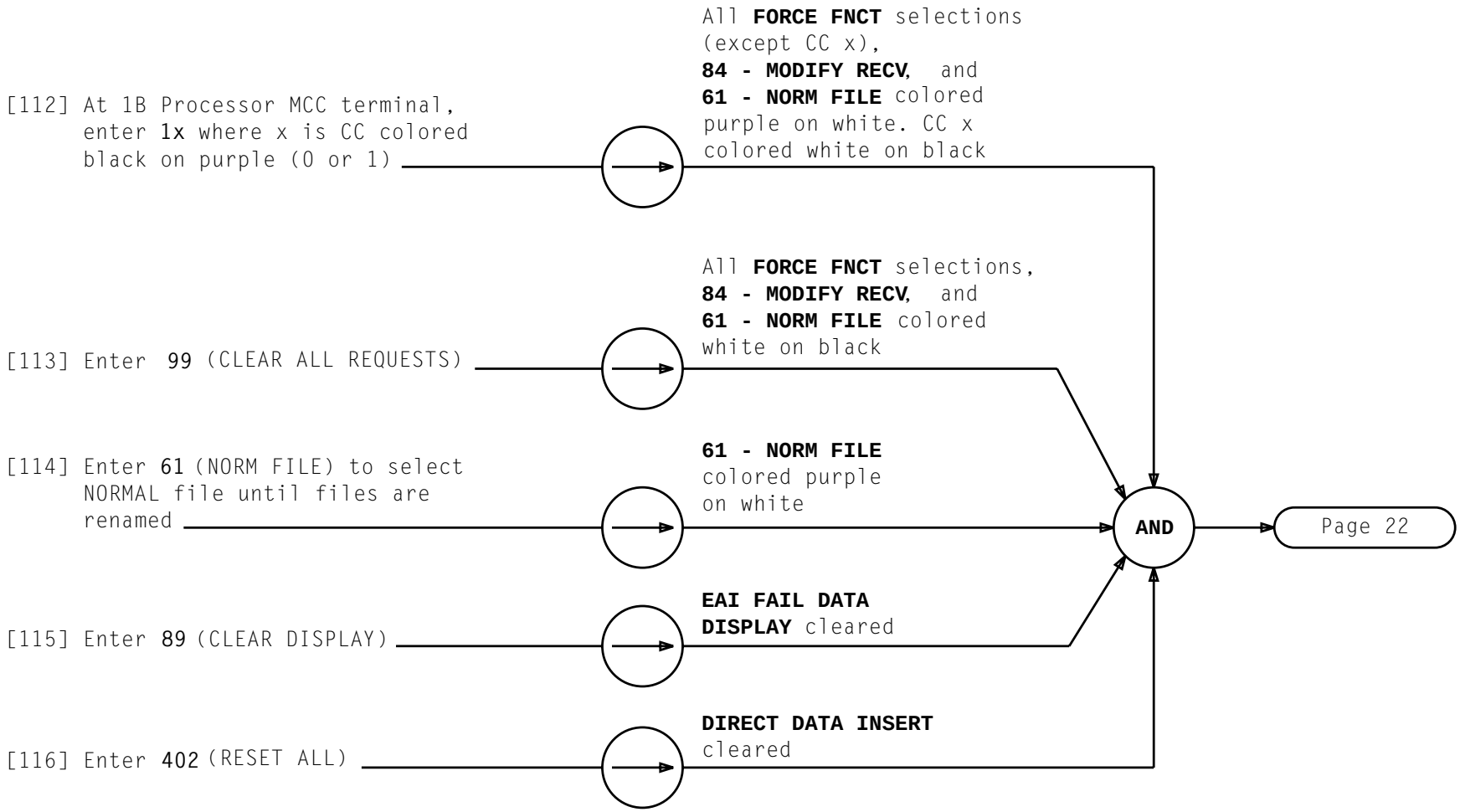
BACK OUT TO OLD DATA BASE IN NORMAL FILE



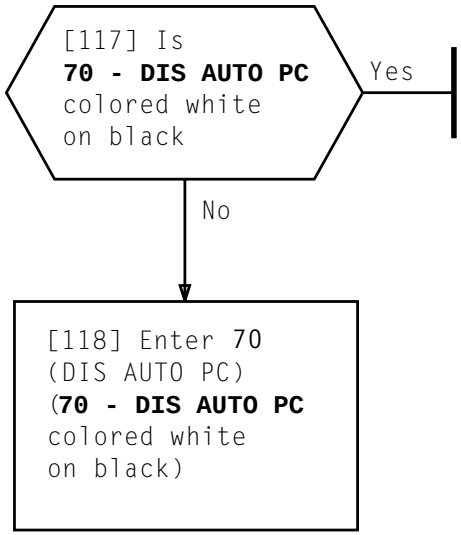
BACK OUT TO OLD DATA BASE IN NORMAL FILE



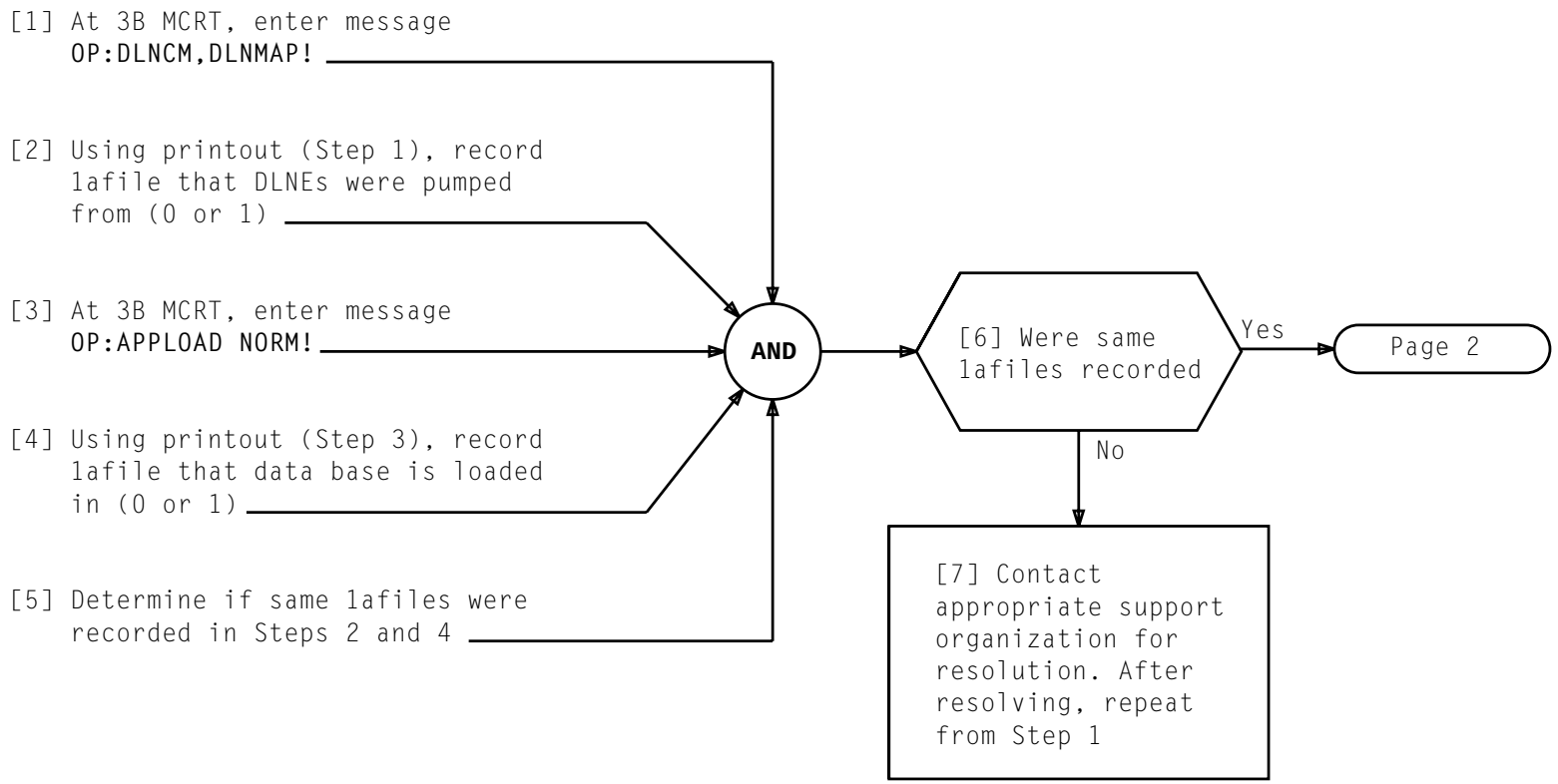
BACK OUT TO OLD DATA BASE IN NORMAL FILE



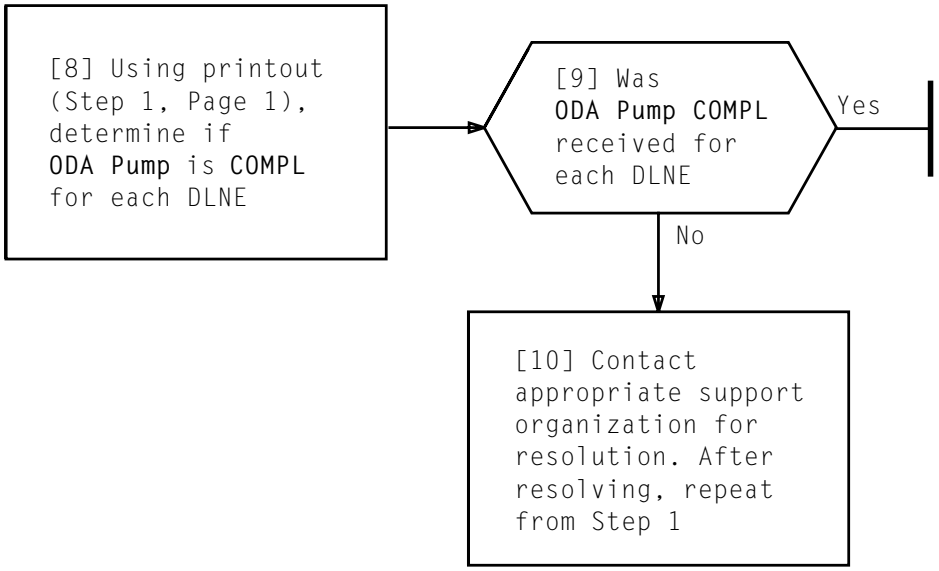
BACK OUT TO OLD DATA BASE IN NORMAL FILE



BACK OUT TO OLD DATA BASE IN NORMAL FILE



VERIFY DLNEs PUMPED FROM PROPER 1AFILE



VERIFY DLNEs PUMPED FROM PROPER 1AFILE

[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

OK

[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

AND

[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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SET SYSTEM CLOCK

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

[2] At 3B MCRT, enter message
VER:UPDATE:TAPE,MT a!
a = DAT unit number with TLP tape being verified (0 or 1)

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

[4] At 3B MCRT, enter message
LOAD:TLP:GEN "a",MT b!
a = Generic Identification number (Step 3)
b = DAT unit number (0 or 1)

AND

[5] Was **LOAD:TLP JOB COMPLETED** message received

Yes

[6] Remove tape from DAT unit [DLP-504]

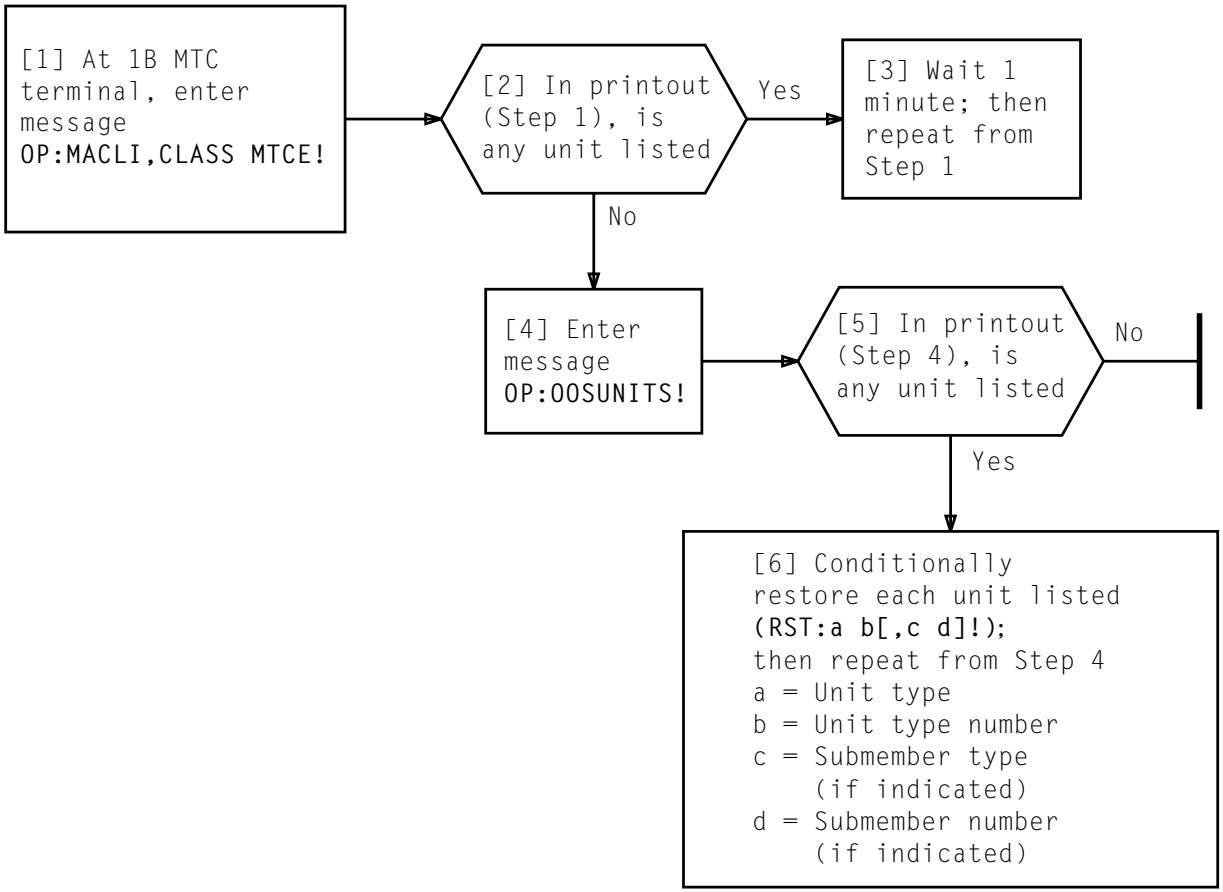
No

[7] At 3B MCRT, note error printout. Determine cause and resolve; repeat from Step 2

```
TAPE TYPE: TLP
GENERIC 4E<25>5A.01 R1  <-- Record This Value
MOST RECENT OFL GENERATION: YR 99,MON 10,DAY 04 AT 11:28
THIS TAPE WRITTEN: YR 99,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

LOAD NEW TLP FROM TAPE ONTO DISK



RESTORE OUT-OF-SERVICE UNITS AFTER UPDATE

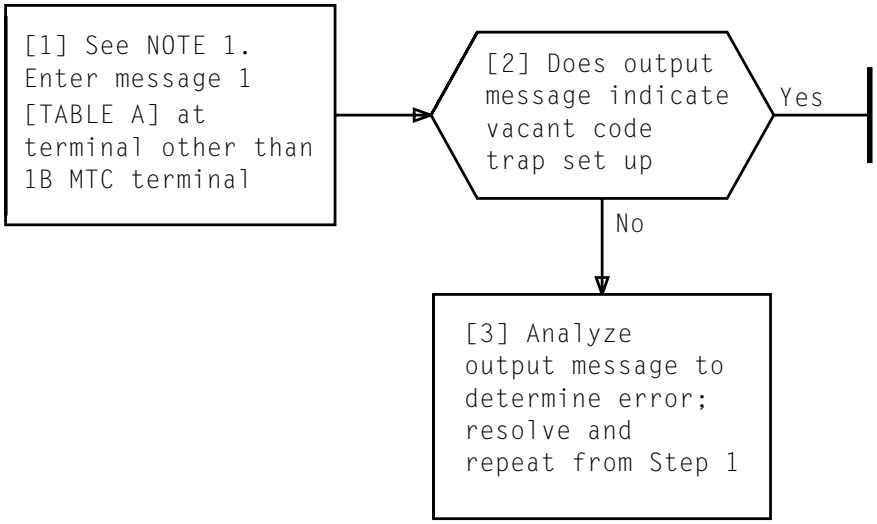


TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	MON:IAOFC,NEW;ADD:IA (a),TIMEON hhmm,COUT!

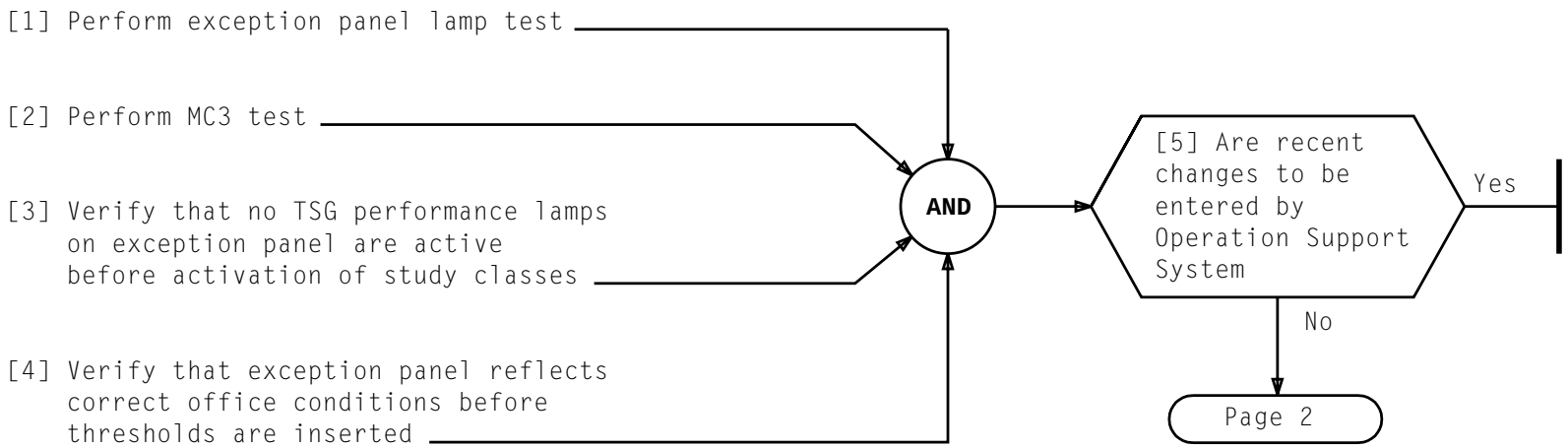
a = VCA,NCA,PDA,PER - Required in AT&T office
= VCA,NCA,PDA,PER,DSF - Required in LEC office

hhmm = Hour (00 to 23) and minute (00 to 59) which specifies time trap is to start collecting data

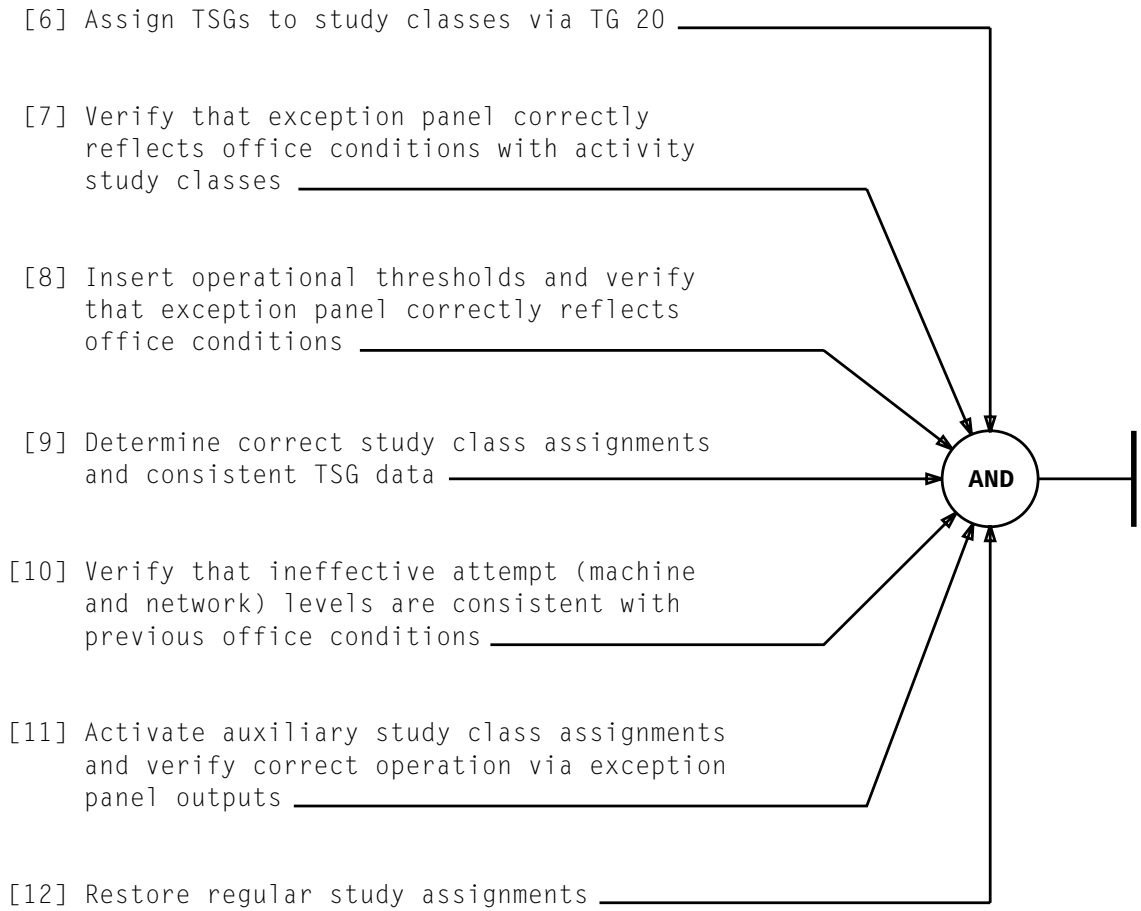
NOTE 1

Retrofitting office must use IO manuals to determine if other traps are to be monitored besides required traps listed in TABLE A

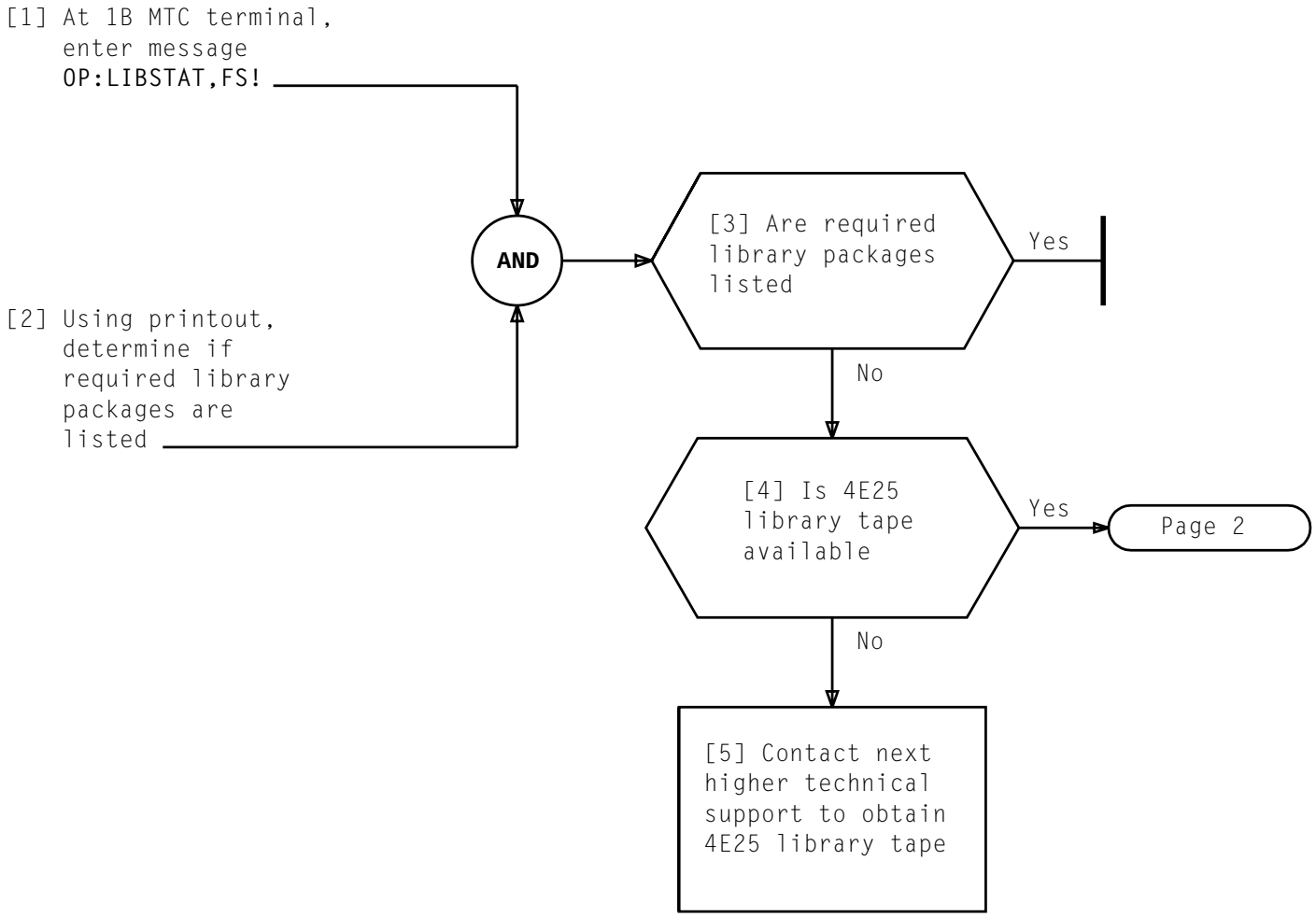
SET UP VACANT CODE TRAPS



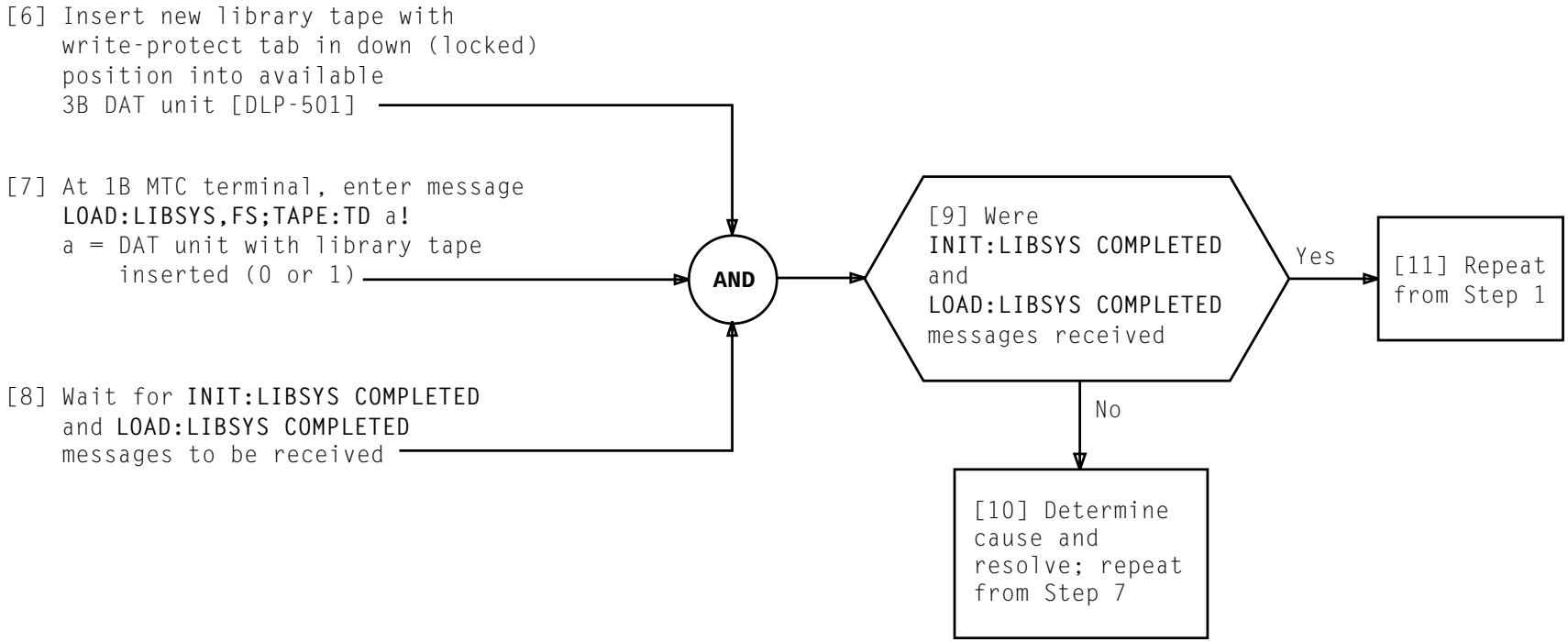
CHECK OUT NETWORK MANAGEMENT SYSTEM



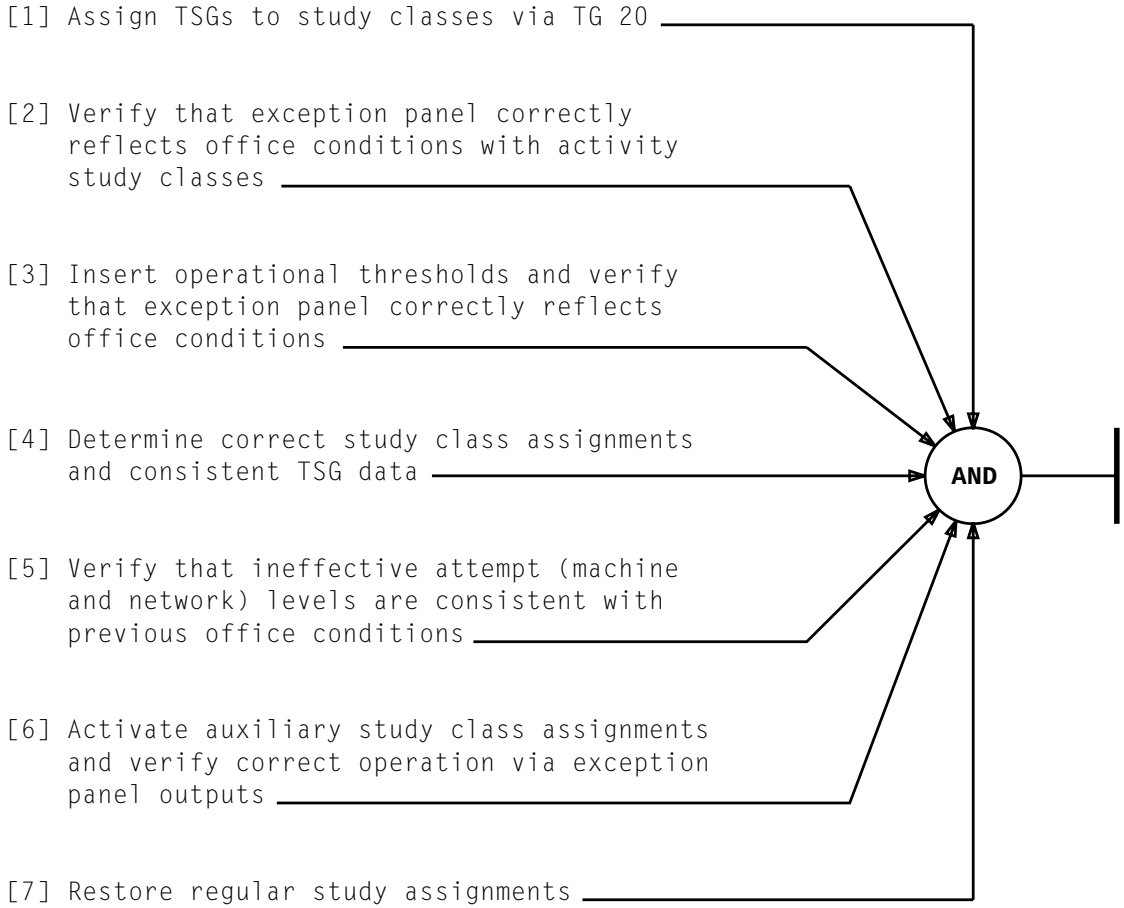
CHECK OUT NETWORK MANAGEMENT SYSTEM



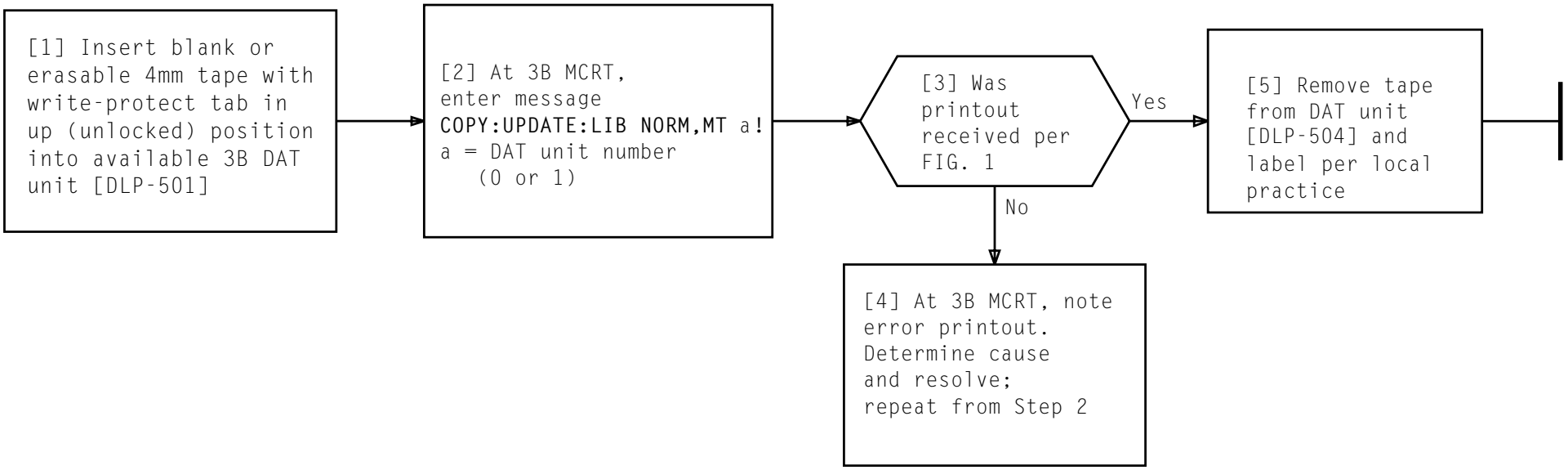
LOAD LIBRARY PROGRAM PACKAGES FROM ORIGINAL TAPE ONTO DISK



LOAD LIBRARY PROGRAM PACKAGES FROM ORIGINAL TAPE ONTO DISK



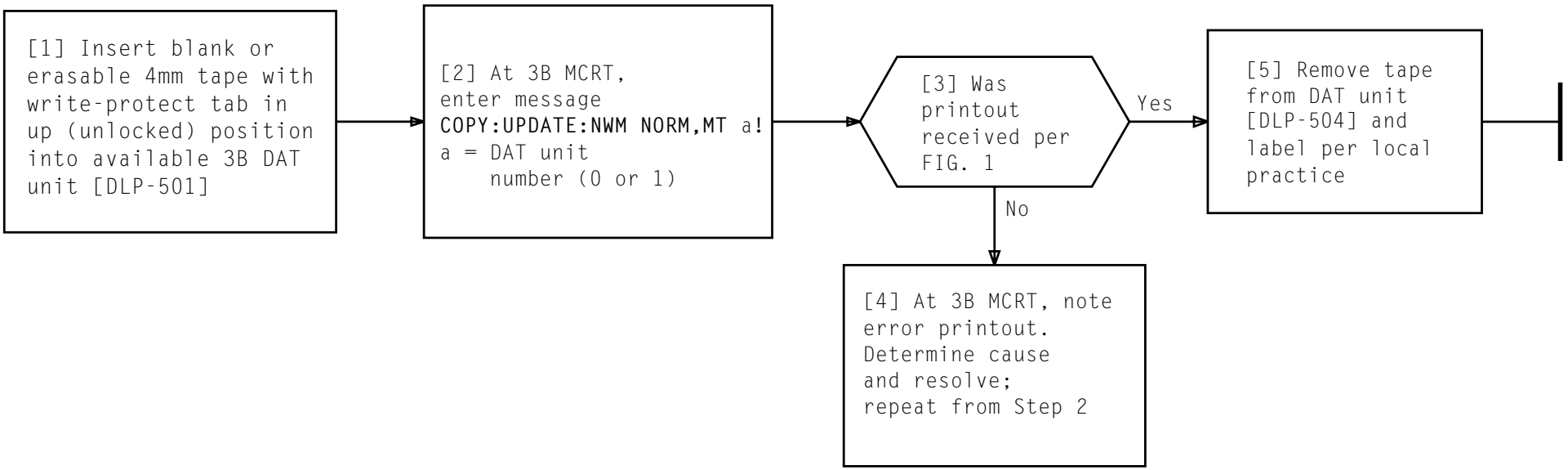
COMPLETE NETWORK MANAGEMENT SYSTEM CHECKOUT




```
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

WRITE LIBRARY (LIB) TAPE




```
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

WRITE NETWORK MANAGEMENT (NWM) TAPE

LOAD NEW ODA ON DISK FOR ODA UPDATE

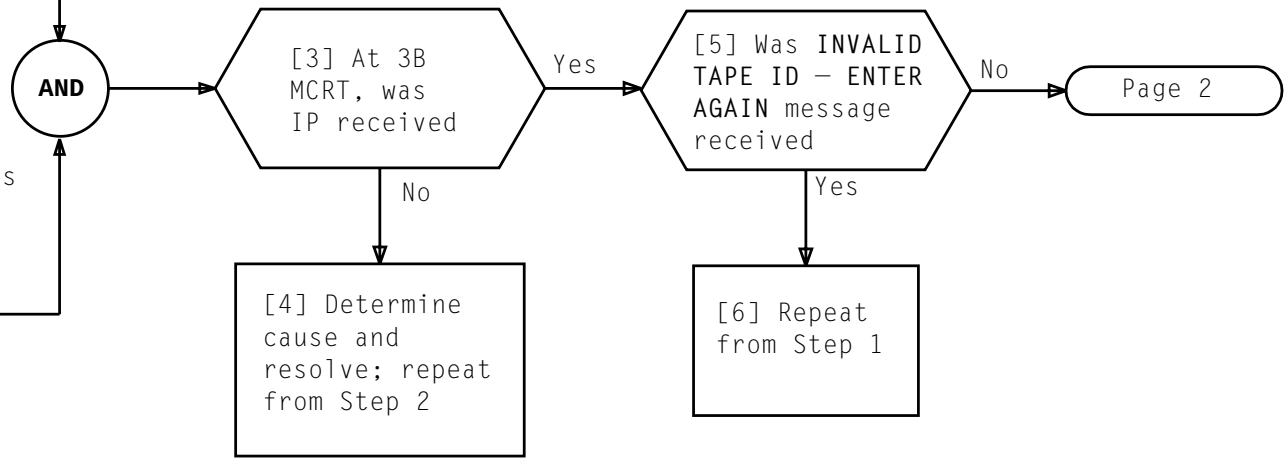
[1] Determine BASE and CONTROL numbers recorded earlier

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

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

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

c = DAT unit number with ODA tape mounted (0 or 1)



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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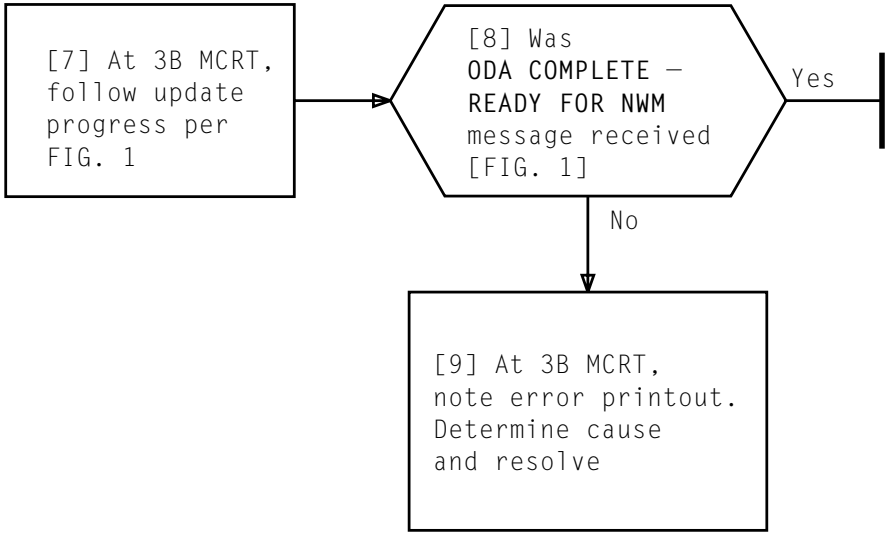
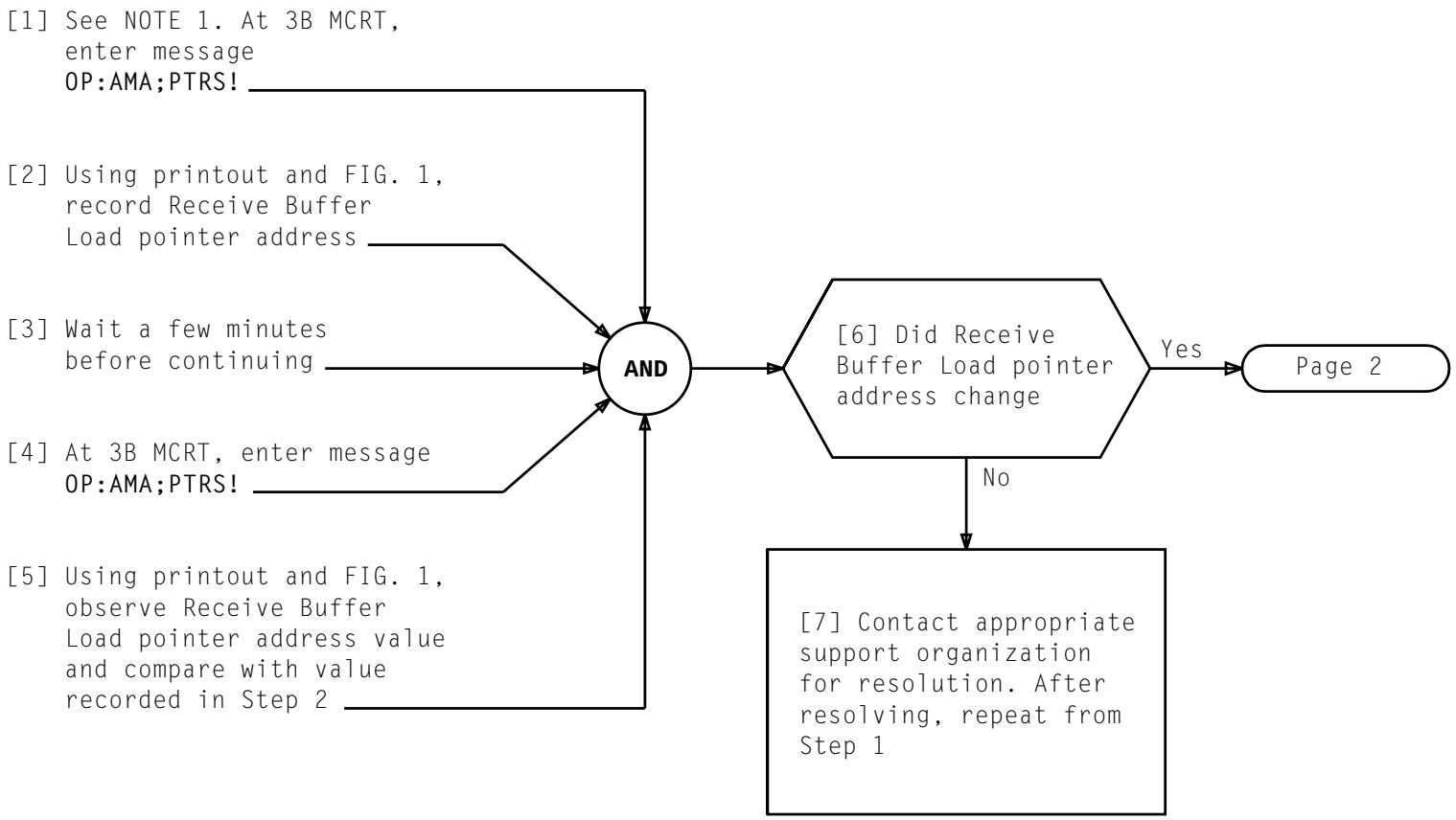



```
ODA UPDATE
TAPE HEADER
          •
          •
          •
/etc/vcp /dev/1afileX /dev/1afileY > /dev/null
TAPE FILE 10 LOADED TO FS
          •
TAPE FILE n LOADED TO FS
ODA COMPLETE – READY FOR NWM
```

FIG. 1 – Sample ODA Load Printout

LOAD NEW ODA ON DISK FOR ODA UPDATE




```
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

CHECK CAMA AND/OR ICDR OPERATION

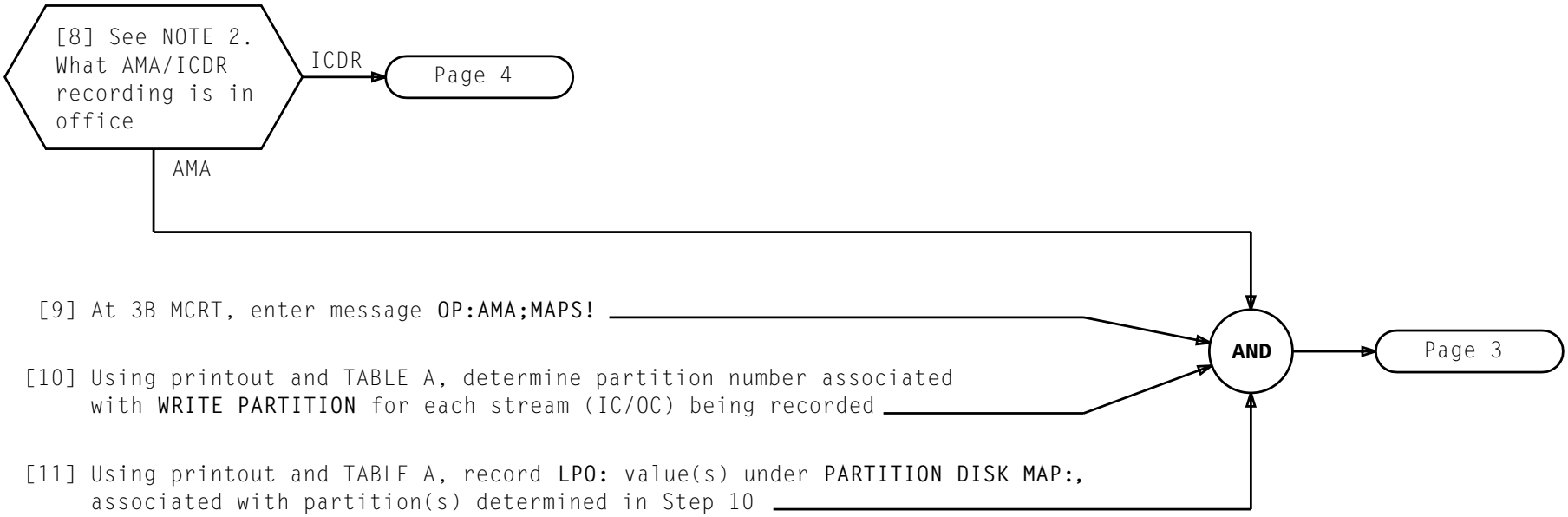
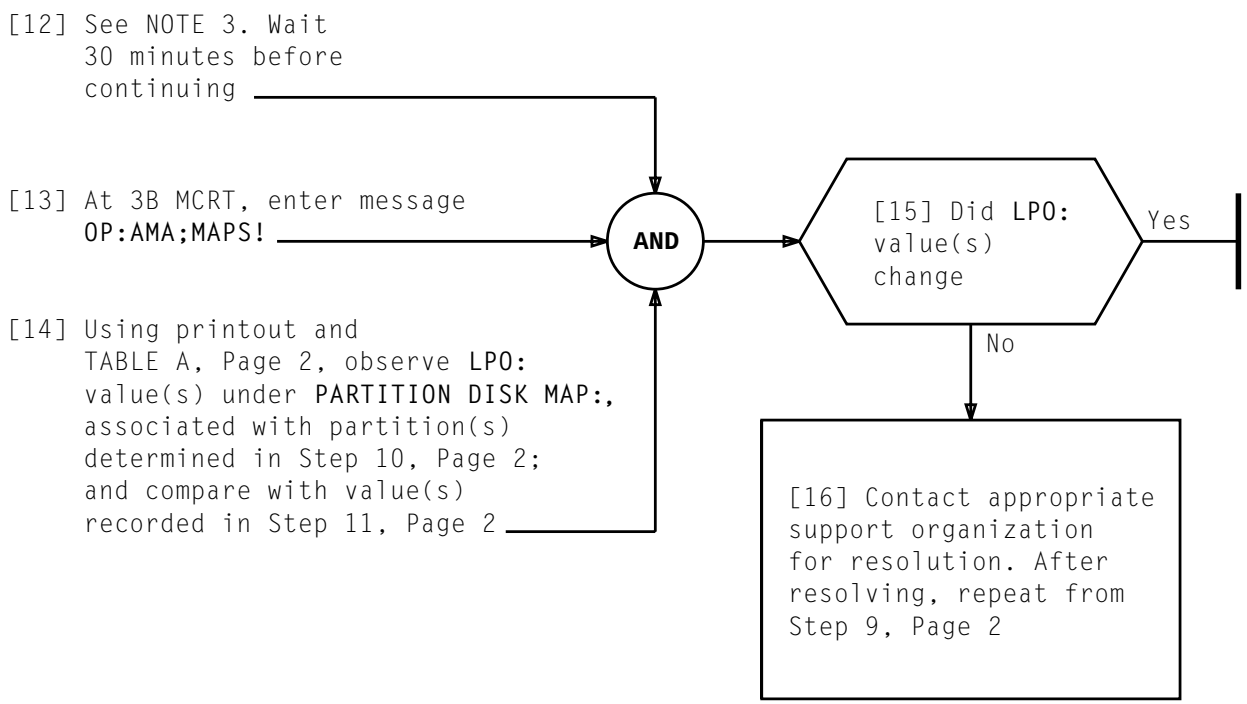


TABLE A

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

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

CHECK CAMA AND/OR ICDR OPERATION

[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

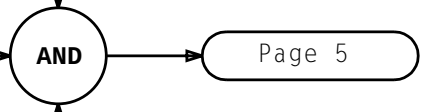
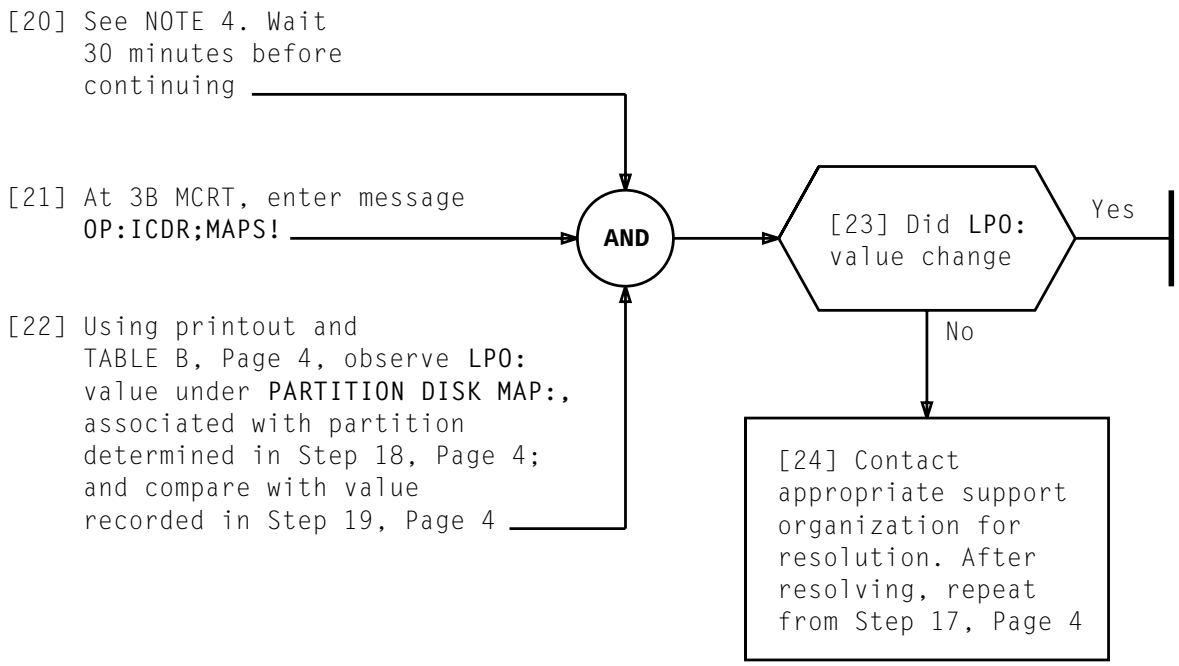


TABLE B

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

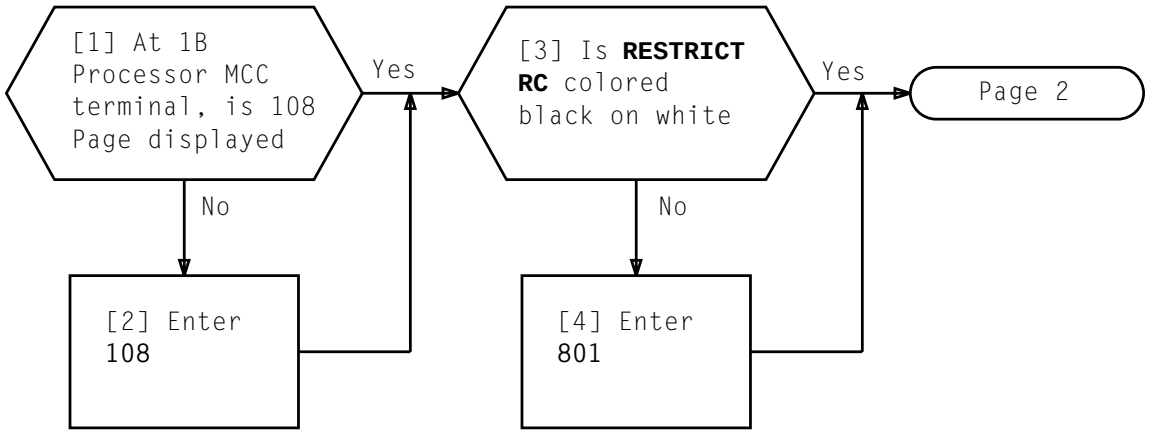
CHECK CAMA AND/OR ICDR OPERATION



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

CHECK CAMA AND/OR ICDR OPERATION



COMMIT TO 4E25 GENERIC

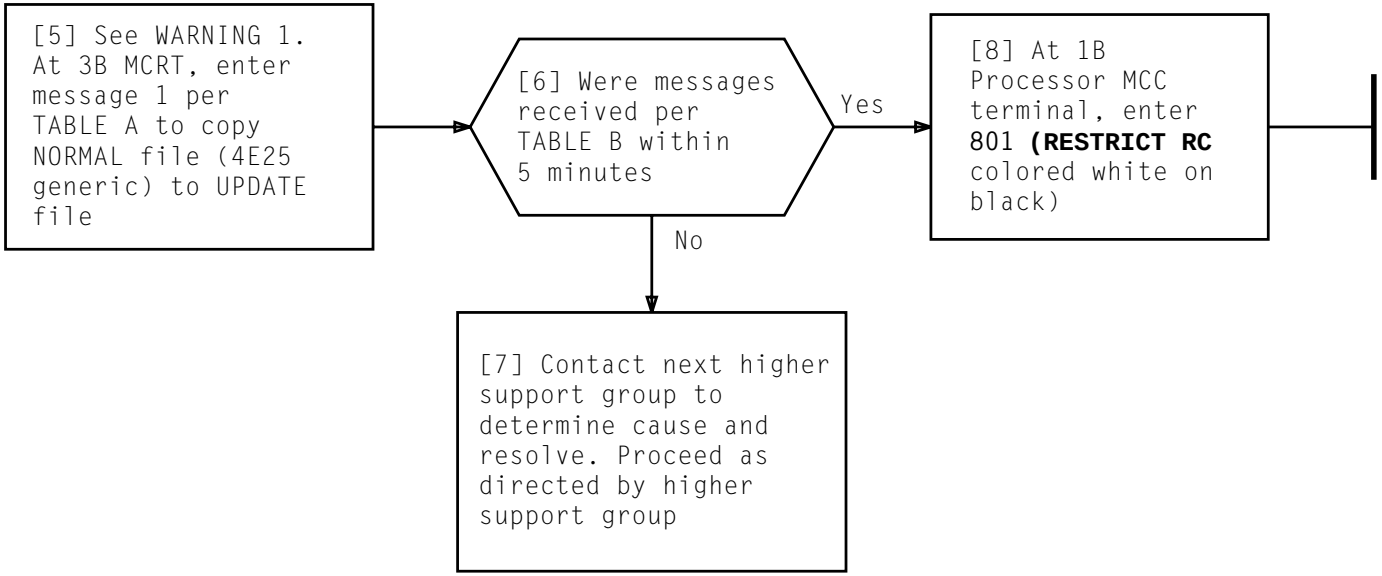


TABLE A

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

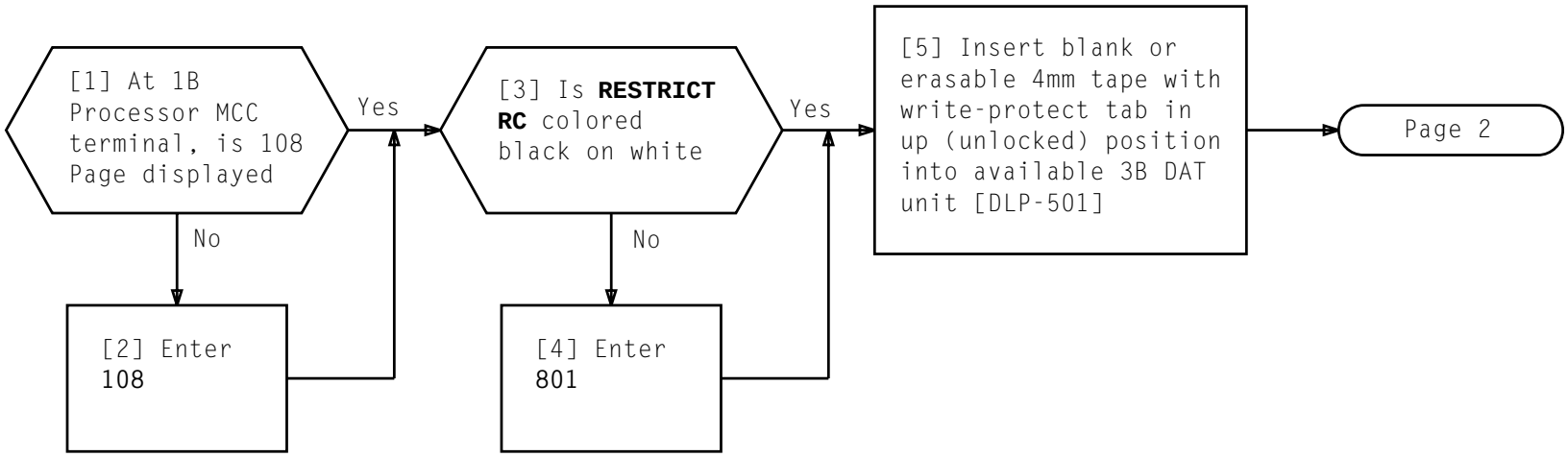
TABLE B

MESSAGE NUMBER	OUTPUT MESSAGES
1	vcp /dev/lafileX /dev/1afileY >/dev/null STARTED COPY APPFILE COMPLETED

X = 0 or 1
Y = 1 or 0

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

COMMIT TO 4E25 GENERIC



WRITE BACKUP 1B PROCESSOR ODA TAPE

[6] At 3B MCRT terminal, enter message **COPY:UPDATE:ODA NORM,MT** a**!**
a = DAT unit number
(0 or 1)

[7] Is **ODA TAPE WRITTEN** message received [FIG. 1]

No

[8] Contact next higher support group and inform personnel of actions performed and results obtained

Yes

[9] Remove tape on DAT unit [DLP-504] and label per local procedure

[10] Is another ODA backup tape required to be written

No

[12] Store tapes per local procedure

Yes

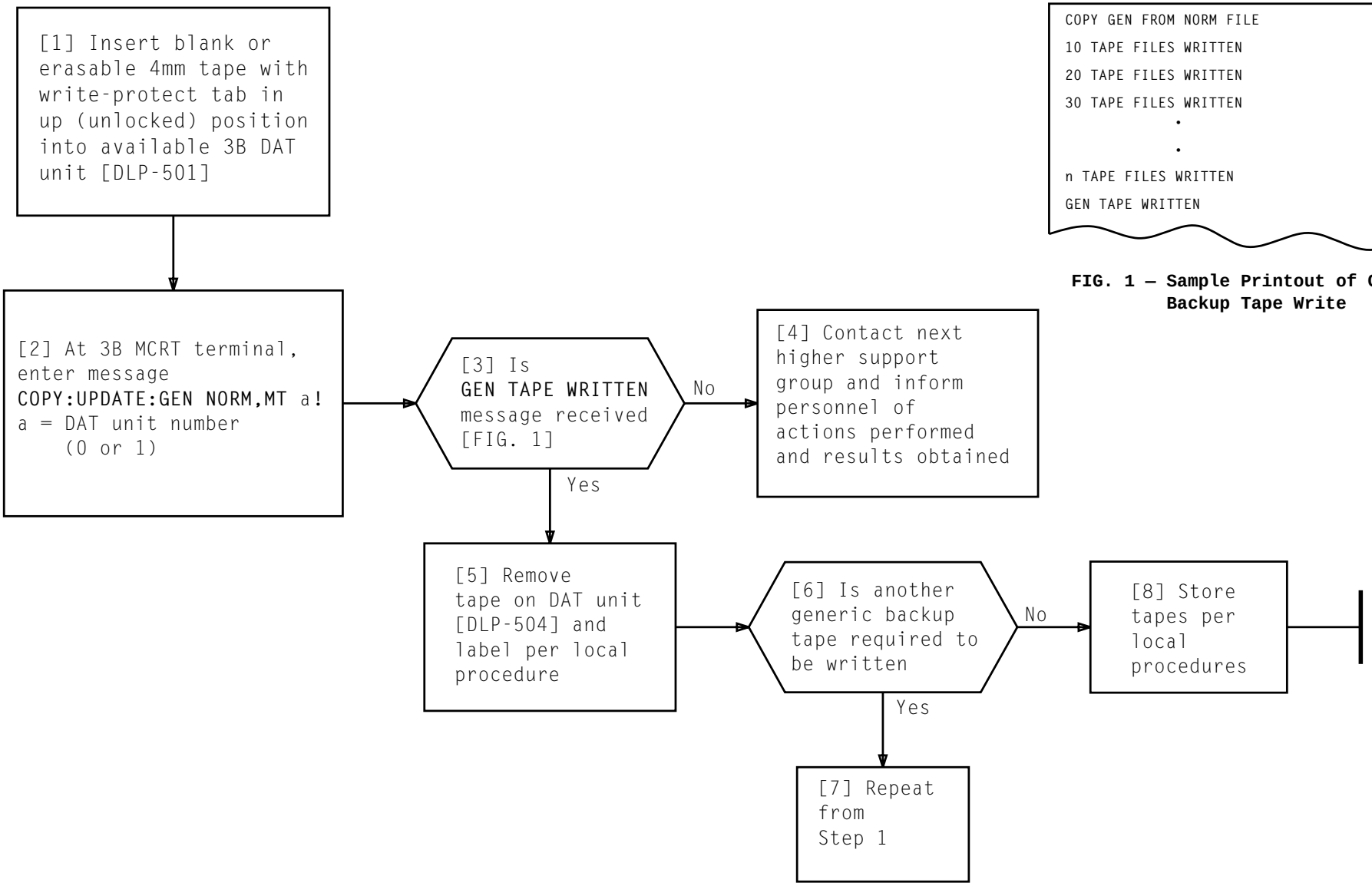
[11] Repeat from Step 5, Page 1

[13] At 1B Processor MCC terminal, enter 801 **(RESTRICT RC** colored white on black)

```
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

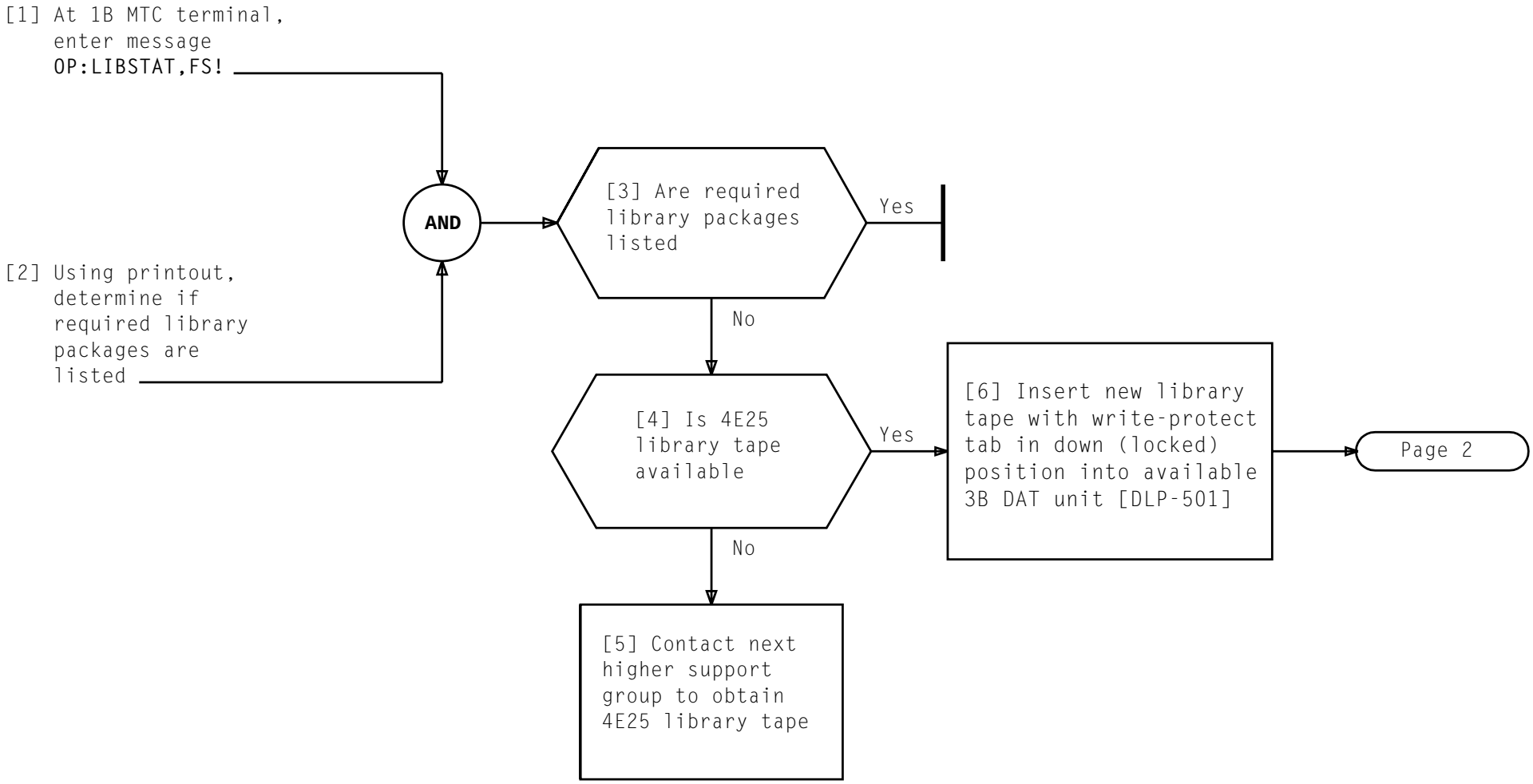
WRITE BACKUP 1B PROCESSOR ODA TAPE




```
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

WRITE BACKUP 1B PROCESSOR GENERIC TAPE



LOAD LIBRARY PROGRAM PACKAGES FROM BACKUP TAPE ONTO DISK

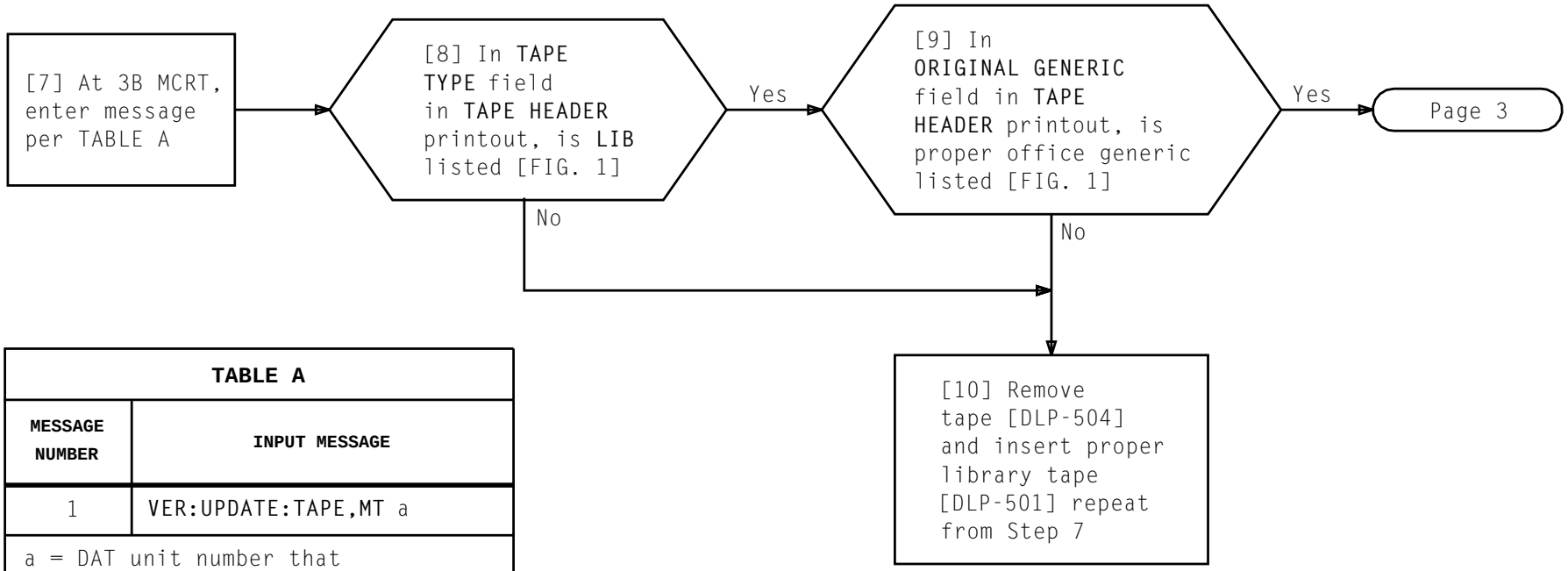


TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	VER:UPDATE:TAPE,MT a

a = DAT unit number that library tape is mounted (0 or 1)

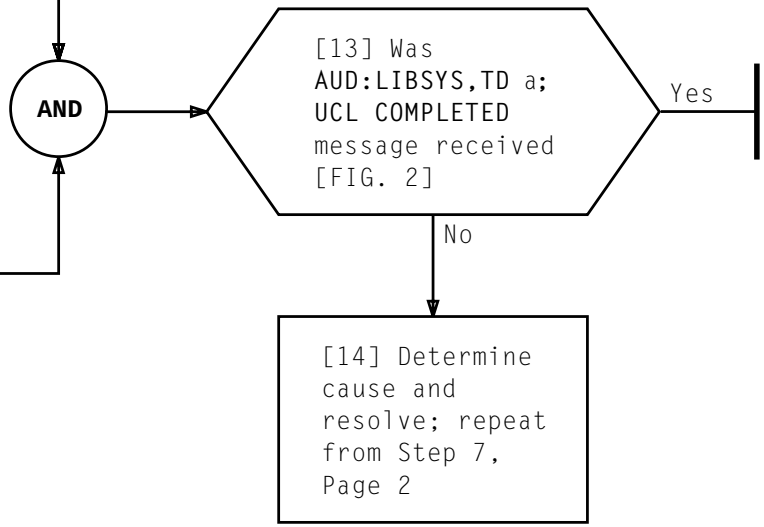
```
                                    THIS VALUE MUST BE
                                    SAME AS GENERIC OFFICE
TAPE HEADER                         IS RUNNING ON

TAPE TYPE: LIB
ORIGINAL GENERIC 4E<(25)>5A.00 R1
MOST RECENT OFL GENERATION: . . . . .
THIS TAPE WRITTEN: . . . . .
FS IDS: . . . . .
PARTL UPD FLG: . . . . .
```

FIG. 1 - Example of TAPE HEADER Printout

[11] At 1B MTC terminal, enter message **AUD:LIBSYS,TD** a**;UCL!**
a = DAT unit number that library tape is mounted (0 or 1)

[12] At 1B MTC terminal, follow loading progress per FIG. 2



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

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

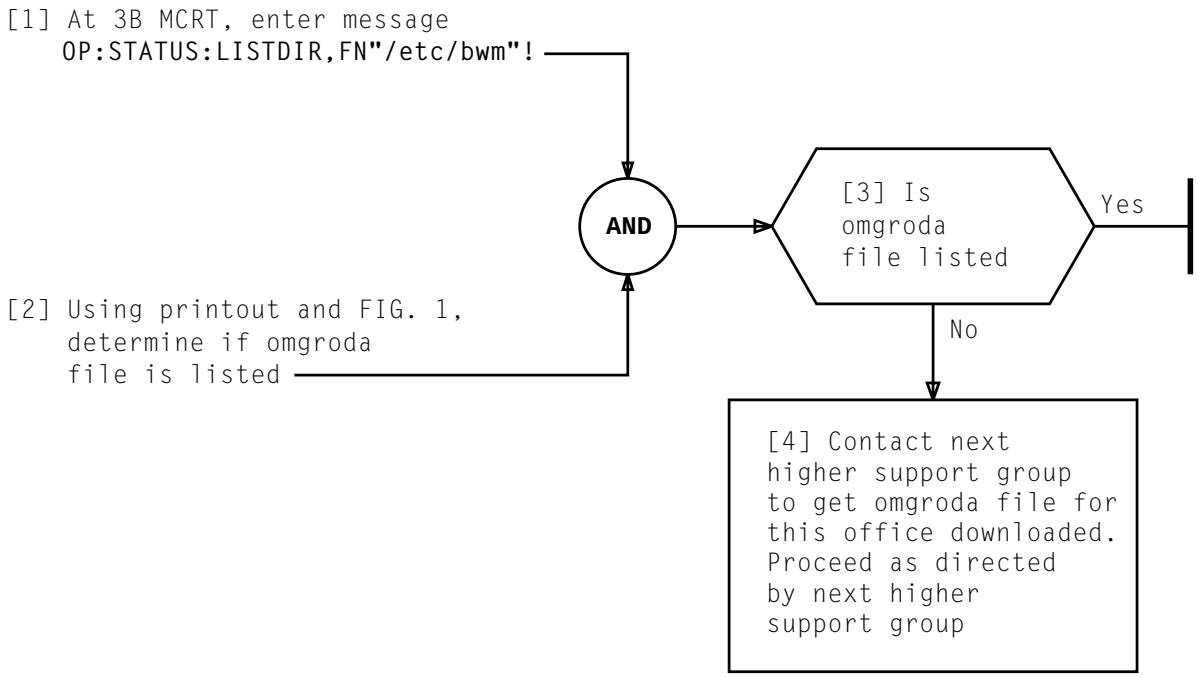
AUD:LIBSYS,TD a;UCL IN PROGRESS
0 ERROR(S) IN SEGPRTRS MAP DETECTED

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

AUD:LIBSYS,TD a;UCL COMPLETED

FIG. 2 - Load Library Printout

LOAD LIBRARY PROGRAM PACKAGES FROM BACKUP TAPE ONTO DISK




```
OP STATUS LISTDIR COMPLETED

total 2468
   1 drwxrwxrwx   3 root      128 MAR 10 16:03 .
   1 drwxr-xr-x   4 root     1024 MAR  3 13:59 ..
   1 -rw-r--r--   1 root       31 MAR 10 15:58 DLN4E.1.0
1231 -rw-r--r--   1 root   624178 MAR 10 16:03 DLN4E.1v
   1 -rw-r--r--   1 root       31 MAR 10 16:03 DLNAP.1.0
1229 -rw-r--r--   1 root   623252 MAR 10 16:06 DLNAP.1V
8350 -rw-r--r--   1 ROOT 12423600 MAR 10 16:09 omgroda  <----- omgroda File Is Listed
   2 -rw-rw-rw-   1 ROOT      882 MAR  3 14:14 savegen.log
```

FIG. 1 – Sample OP:STATUS:LISTDIR Printout

DETERMINE IF OFFICE ODA IS AVAILABLE

[1] At 3B MCRT, enter message
VER:UPDATE:TAPE,MT "/etc/bwm/omgroda"!

AND

[2] Using printout and FIG. 1, record
BASE and CONTROL numbers

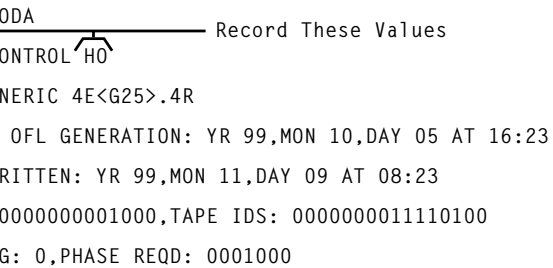


FIG. 1 – Sample ODA Tape Header Printout

RECORD TAPE HEADER INFORMATION

[1] Determine BASE and CONTROL numbers recorded earlier

[2] At 3B MCRT, enter message
LOAD:UPDATE:CONT "aaaabb",MT "/etc/bwm/omgroda"!
aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long
bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long

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

AND

[4] Was any response in TABLE A received

No → Page 2

Yes

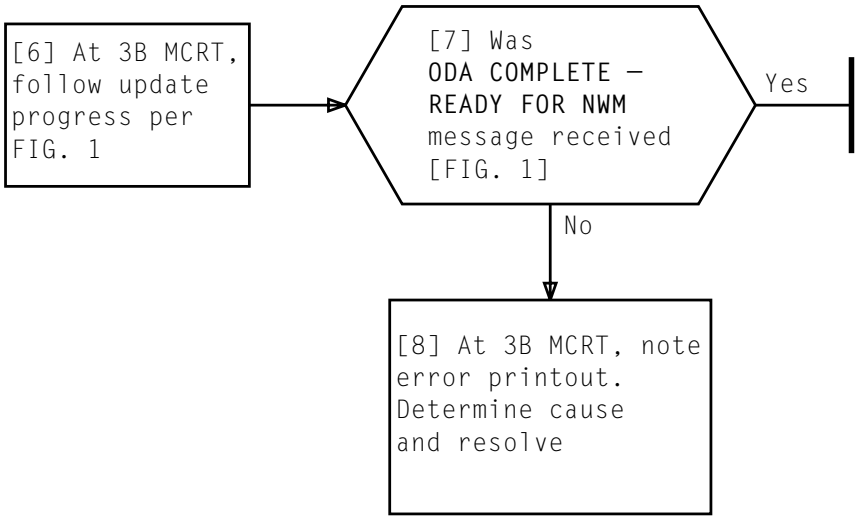
[5] Using TABLE A, take corrective action associated with response that was received

TABLE A

RESPONSE*	CORRECTIVE ACTION
INVALID TAPE ID - ENTER AGAIN	Repeat from Step 2 with correct BASE and CONTROL numbers
WRONG GENERIC — CHANGE TAPE AND ENTER AGAIN	Wrong omgroda file is being loaded. Contact next higher support group for resolution

* TAPE in Response column means omgroda file

LOAD NEW ODA ON DISK FOR GENERIC RETROFIT




```
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

LOAD NEW ODA ON DISK FOR GENERIC RETROFIT

[1] Determine BASE and CONTROL numbers recorded earlier

[2] At 3B MCRT, enter message
LOAD:UPDATE:ODA "aaaabb",MT "/etc/bwm/omgroda"!
aaaa = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long
bb = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long

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

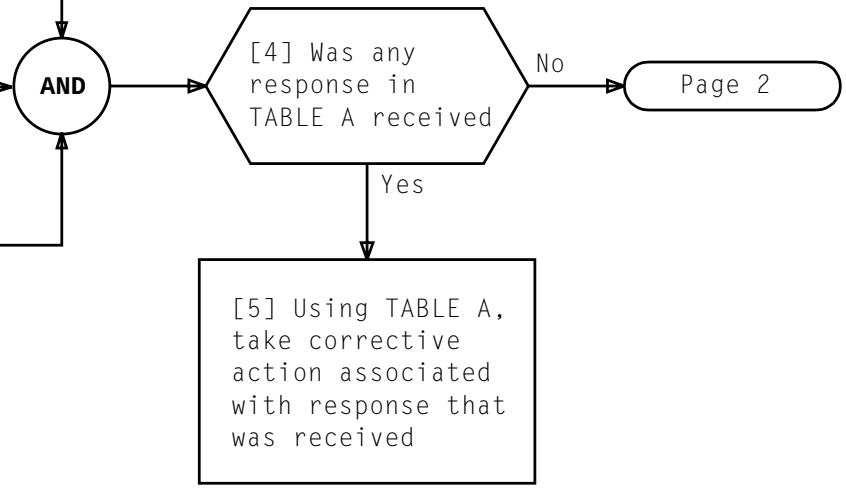
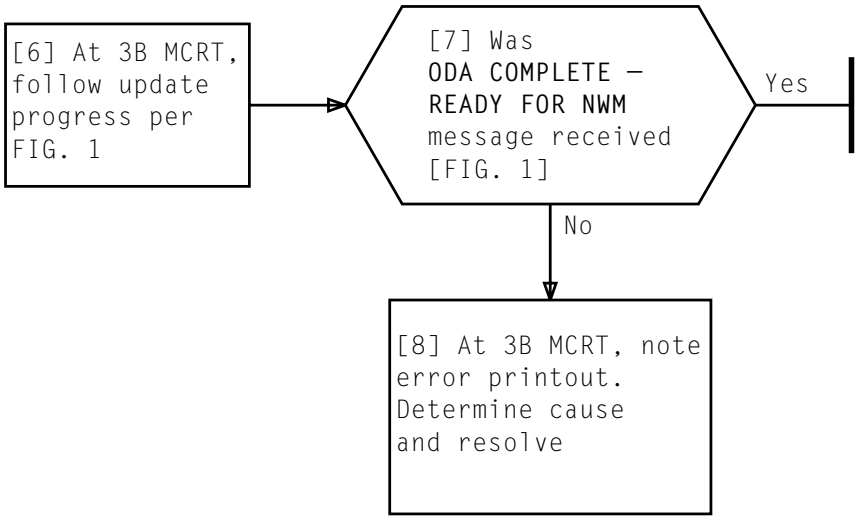


TABLE A

RESPONSE*	CORRECTIVE ACTION
INVALID TAPE ID - ENTER AGAIN	Repeat from Step 2 with correct BASE and CONTROL numbers
WRONG GENERIC — CHANGE TAPE AND ENTER AGAIN	Wrong omgroda file is being loaded. Contact next higher support group for resolution

* TAPE in Response column means omgroda file

LOAD NEW ODA ON DISK FOR ODA UPDATE

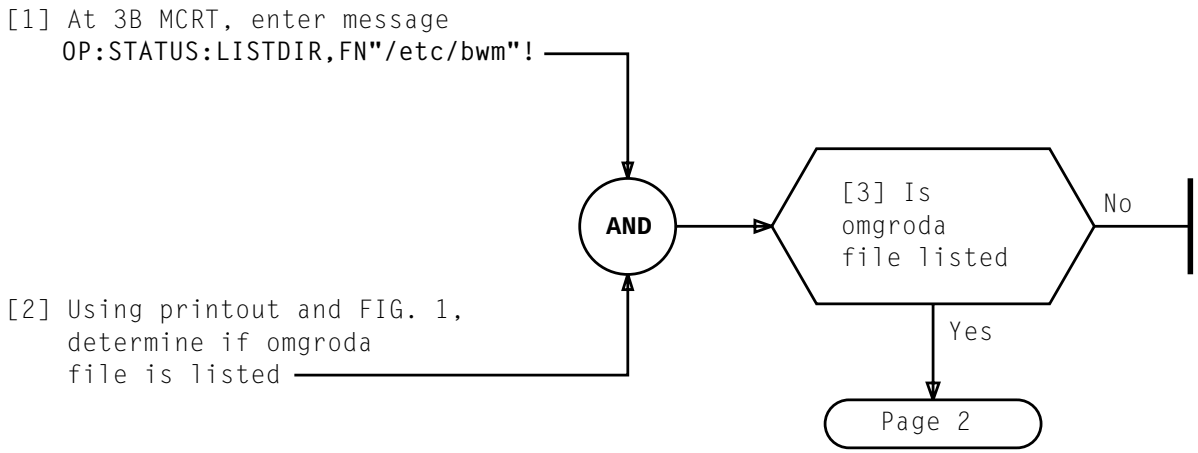



```
TAPE HEADER
              .
              .
              .
TAPE FILE 10 LOADED TO FS
              .
TAPE FILE n LOADED TO FS

ODA COMPLETE - READY FOR NWM
```

FIG. 1 – Sample ODA Load Printout

LOAD NEW ODA ON DISK FOR ODA UPDATE

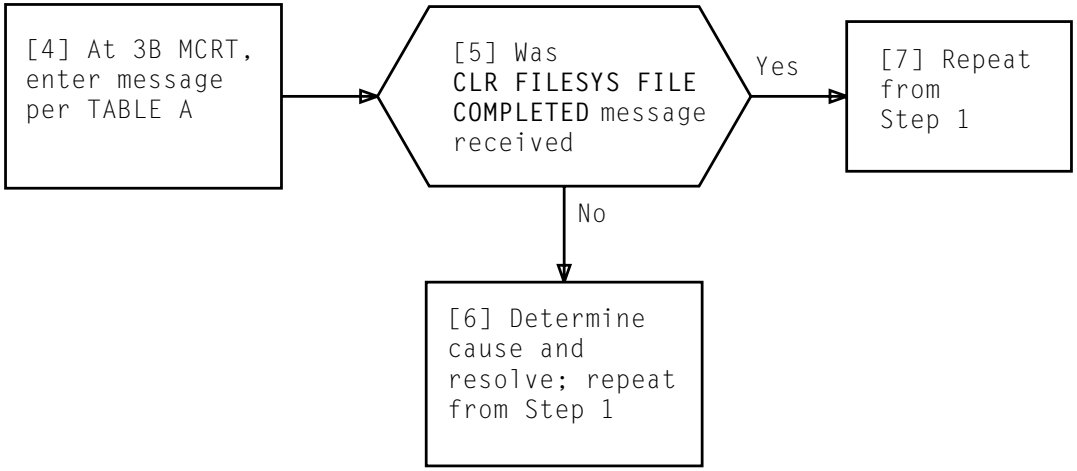



```
OP STATUS LISTDIR COMPLETED

total 2468
   1 drwxrwxrwx   3 root      128 MAR 10 16:03 .
   1 drwxr-xr-x   4 root     1024 MAR  3 13:59 ..
   1 -rw-r--r--   1 root       31 MAR 10 15:58 DLN4E.1.0
1231 -rw-r--r--   1 root   624178 MAR 10 16:03 DLN4E.1v
   1 -rw-r--r--   1 root       31 MAR 10 16:03 DLNAP.1.0
1229 -rw-r--r--   1 root   623252 MAR 10 16:06 DLNAP.1V
8350 -rw-r--r--   1 ROOT 12423600 MAR 10 16:09 omgroda  <----- omgroda File Is Listed
   2 -rw-rw-rw-   1 ROOT      882 MAR  3 14:14 savegen.log
```

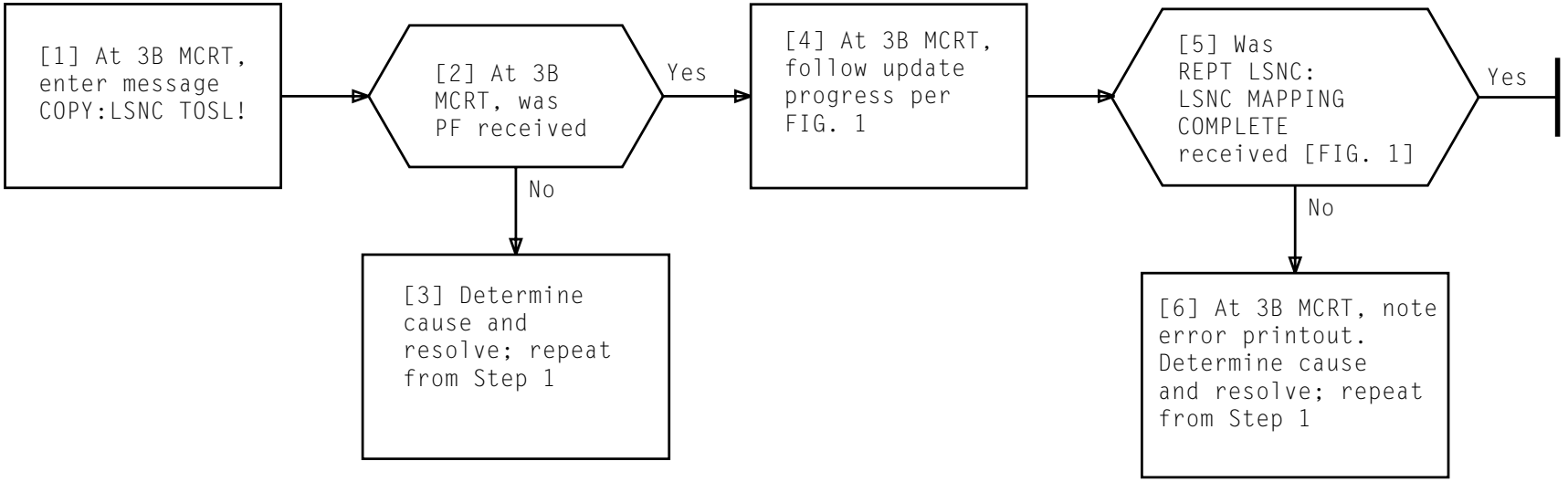
FIG. 1 – Sample OP:STATUS:LISTDIR Printout

REMOVE omgroda FILE FROM /etc/bwm DIRECTORY



MESSAGE NUMBER	INPUT MESSAGE
1	CLR:FILESYS:FILE,FN "/etc/bwm/omgroda"!

REMOVE omgroda FILE FROM /etc/bwm DIRECTORY




```
REPT LSNC OPENED /dev/1afileX AS NORMAL AND /dev/1afileY AS UPDATE
REPT LSNC NOR GEN = 24 UPD GEN = 25
REPT LSNC:STARTING TOSL MAPPING
REPT LSNC:LSNC MAPPING COMPLETE

X = 0 OR 1
Y = 1 OR 0
```

FIG. 1 – Sample of COPY:LSNC TOSL Printout

UPDATE TOSL IN UPDATE FILE

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		DLP-545									
DLP-511		DLP-546									
DLP-512		CKL-891									
DLP-513		TNG-893									
DLP-514											
DLP-515											
DLP-516											
DLP-517											
DLP-518											
DLP-519											
DLP-520											
DLP-521											
DLP-522											
DLP-523											
DLP-524											
DLP-525											
DLP-526											

● REVISED OR ADDED ITEM ☐ CANCELED ITEM

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CHECKLIST

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