

Task Oriented Practice
(TOP)

4 ESSTM SWITCH

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FIND YOUR JOB IN THE LIST BELOW THEN GO TO

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Acceptance of the Maintenance Operations Center (MOC) is part of system evaluation, readiness, and verification tasks completed in Volumes 234-155-001, 234-155-005, and 234-155-010. Readiness of individual frames, which are the responsibility of the MOC, to become a part of the working system was established by successful completion of Installation Handbook test procedures.

ACCEPTANCE

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

1	If Broadcast Warning Messages (BWMs) Are Stored on Support Organization's System, Do Not Perform This Procedure	-
2	Connect Terminal Equipment as Required to Access SCANS Network and Print Hardcopy of BWMs	-
3	If Applicable, at EIA Switch, Depress Key 1 Pushbutton	-
4	Set Up System to Receive SCANS Messages	DLP-547
5	If SCANS Sequence Number of Desired BWM Is Not Known, Print SCANS Summary List of BWMs	DLP-548
6	Print Hard Copy of SCANS BWM	DLP-549
7	Type and Enter STA UPD To Update SCANS Status File	-
8	Type and Enter K/F To Log Off SCANS	-

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

1	Obtain Current Generic Tape	-
2	At MTC Channel, Type and Enter OP:DUSTATUS!	-
3	Using OP:DUSTATUS Response, Select Available Tape Transport	-
4	If Tape Is Mounted on Tape Transport, Demount Tape	DLP-536
5	Mount Generic Tape on Tape Transport	DLP-535
6	Perform Generic SAST	DLP-528
7	Demount Generic Tape on Tape Transport	DLP-536

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

1	Obtain Current Office Data Assembly (ODA) Tape	-
2	At MTC Channel, Type and Enter OP:DUSTATUS!	-
3	Using OP:DUSTATUS Response, Select Available Tape Transport	-
4	If Tape Is Mounted on Tape Transport, Demount Tape	DLP-536
5	Mount ODA Tape on Tape Transport	DLP-535
6	Perform ODA SAST	DLP-529
7	Demount ODA Tape on Tape Transport	DLP-536

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

	<i>NOTE:</i> It Is Recommended That These Subtasks Be Performed During Period of Low Office Traffic and While Routine Diagnostic Exercises Are Not Active. Office Personnel Should Place Telephone Call to Applicable Support Group (PECC, NESAC, or Area Support Group) To Verify Overwrites Before Proceeding.	—
1	Review Overwrite FR Documentation That Accompanied Tape for Description of Problems To Be Corrected And Any Special Instructions Required for Installation	—
2	Notify MOC Supervisor That Overwrites Are Ready for Installation	—
3	Notify Network Management and Recent Change Areas (MAC and Routing Groups) That Any Activities Involving Hash Sum Operations Will Be Suspended During Overwrite Installation Period	—
4	Set System Conditions for Installing Overwrites Manually	DLP-520
5	Check Manual Overwrites for Special Instructions and Needed Authorization	DLP-552
6	Install Manual Overwrites Using Verbal Instructions or Paper Copy as Source	DLP-550
7	If Generic Utilities Were Cleared, Type and Enter SET:TUC a;FUNCTION UTL! To Restore Cleared Generic Utilities (a = TUC Member Number)	—
8	On MCC SYSTEM STATUS Panel, Depress To Turn Off RECENT CHANGE — RESTRICT RECENT CHANGES Pushbutton	—
9	Notify Network Management and RC Areas That System Is Available for Hash Sum Activities	—
10	Notify MOC Supervisor That Overwrite Installation Is Completed	—
11	Obtain Current Generic Tape	—
12	At MTC Channel, Type and Enter OP:DUSTATUS!	—
13	Using OP:DUSTATUS Response, Select Available Tape Transport	—
14	If Tape Is Mounted on Tape Transport, Demount Tape	DLP-536
15	Mount Generic Tape on Tape Transport	DLP-535
16	Perform Generic SAST	DLP-528
17	Demount Generic Tape on Tape Transport	DLP-536

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

1	At 3B Computer MCRT, Type and Enter OP:00S!	—
2	Using OP:00S Response, Identify All 3B Computer Units That Are Out-of-Service	—
3	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—
4	Verify RST:a b COMPLETED Message Is Received for All Restored Units	—
5	Perform CU 0 Diagnostics	DLP-559
6	Perform CU 0 Demand Diagnostics	DLP-560
7	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—
8	Perform Moving Head Disk (MHD) 0 Diagnostics	DLP-561
9	Perform MHD 0 Demand Diagnostics	DLP-562
10	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—
11	Perform Input/Output Processor (IOP) 0 Diagnostics	DLP-563
12	Perform IOP 0 Demand Diagnostics	DLP-564
13	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—
14	Perform CU 1 Diagnostics	DLP-559
15	Perform CU 1 Demand Diagnostics	DLP-560
16	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—
17	Perform Moving Head Disk (MHD) 1 Diagnostics	DLP-561
18	Perform MHD 1 Demand Diagnostics	DLP-562
19	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—
20	Perform Input/Output Processor (IOP) 1 Diagnostics	DLP-563
21	Perform IOP 1 Demand Diagnostics	DLP-564
22	Type and Enter RST: a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	—

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

1	Update Backup Database	DLP-576
2	Select Available 3B Computer Tape Unit	—
3	Install Write Enable Ring on Tape Large Enough To Hold Data To Be Written	—
4	Mount 1600 BPI Tape on Selected Tape Unit	DLP-565
5	Verify That Tape Unit Is On-Line	—
6	At 3B Computer MCRT, Type and Enter DUMP:FILE:ALL, FN "/etc/pdtspec" <i>Response:</i> DUMP FILE ALL COMPLETED Message Received	—
7	Type and Enter COPY:BKDISK;START:SRC "/dev/vtoc", TD "/dev/mta8", TPSIZE b! a = Tape Unit Member Number b = Tape Length in Feet <i>Response:</i> COPY BKDISK DISMOUNT GENERIC TAPE, LABEL AND MOUNT NEXT TAPE Message Received	—
8	Demount First Tape Containing Disk Data; Label (4AP<x> RT0 1) and Remove Write Enable Ring	DLP-566
9	Mount Second Tape With Write Enable Ring Installed on Same Tape Unit	DLP-565
10	Type and Enter COPY:BKDISK;ACK:TPSIZE a! a = Tape Length in Feet <i>Response:</i> COPY BKDISK DISMOUNT GENERIC TAPE, LABEL AND MOUNT NEXT TAPE Message Received	—
11	Demount Second Tape Containing Disk Data; Label (4AP<x> RT0 2) and Remove Write Enable Ring	DLP-566
12	Mount Third Tape With Write Enable Ring Installed on Same Tape Unit	DLP-565
13	Type and Enter COPY:BKDISK;ACK:TPSIZE a! a = Tape Length in Feet <i>Response:</i> COPY BKDISK DISMOUNT GENERIC TAPE, LABEL AND MOUNT NEXT TAPE Or COPY BKDISK COMPLETED, DISMOUNT DATABASE TAPE AND LABEL Message Received	—
14	Demount Third Tape Containing Disk Data; Label (4AP<x> RT0 3) and Remove Write Enable Ring	DLP-566
	(Continued on Page 2)	

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

15	If System Responded With COPY BKDISK DISMOUNT GENERIC TAPE, LABEL AND MOUNT NEXT TAPE After Copy of Last Tape, Perform the Following:	-
	1. Mount Another Tape With Write Enable Ring Installed On Same Tape Unit	DLP-565
	2. Type and Enter COPY:BKDISK;ACK:TPSIZE a! a = Tape Length in Feet <i>Response:</i> COPY BKDISK DISMOUNT GENERIC TAPE, LABEL AND MOUNT NEXT TAPE Or COPY BKDISK COMPLETED, DISMOUNT DATABASE TAPE AND LABEL Message Received	-
	3. Demount Tape Containing Disk Data; Label (4AP<x> RT0 y) and Remove Write Enable Ring	DLP-566
	4. Repeat From Item 15	-
16	Mount Another Tape With Write Enable Ring Installed on Same Tape Unit	DLP-565
17	Type and Enter COPY:BKDISK;ACK:TPSIZE a! a = Tape Length in Feet <i>Response:</i> COPY BKDISK COMPLETED, DISMOUNT DATABASE TAPE AND LABEL Message Received	-
18	Demount Tape Containing Database Data; Label (4AP<x> DB) and Remove Write Enable Ring	DLP-566
19	Verify 3B Computer Backup Tapes	DLP-599

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

1	Remove This Procedure and Reproduce All Pages	-
2	Using Reproduced Pages, Place Checkmark Beside Each Item Number as It Is Completed	-
3	Notify Network Management That Partial Update Is To Be Performed	-
4	Notify Recent Change Groups (MAC and Routing) That Recent Change Activity Will Be Restricted to the MOC	-
5	On MCC SYSTEM STATUS Panel, Depress To Activate RECENT CHANGE - RESTRICT RECENT CHANGES Pushbutton	-
6	At MTC Channel, Type and Enter UPD:COMMIT;NORMFILE!	-
7	Using UPD Command Output Response, Verify That Status of APS 1A Files Is Normal	-
8	Verify Moving Head Disk (MHD) Drives 0 and 1 (VFY:MHD a!)	DLP-588
9	Obtain Generic Partial Update Tape	-
10	Select Available 3B Computer Tape Unit	-
11	If Tape Is Mounted on Tape Unit, Demount Tape	DLP-566
12	Mount Generic Partial Update Tape on Selected Tape Unit	DLP-565
13	At 3B Computer MCRT, Type and Enter VER:UPDATE:TAPE,MT a! a = Tape Unit Member Number	-
14	Using VER Command Output Response, Record Tape Header Generic Identification Number (4E<xx>4x.xx) for Later Use	-
15	At MTC Channel, Type and Enter INH:WPAD!	-
16	Type and Enter INH:MACLI,CLASS MTCE;REX!	-
17	Type and Enter INH:AUD:NUM (43,44,45)!	-
18	Type and Enter STOP:OVRWRT!	-
19	On MCC UPDATE Panel, Depress NORMAL Pushbutton	-
20	Load Generic Partial Update Data on Disk	DLP-583
21	If Required, Insert Critical Generic Overwrites Into Update File and Save Printouts	DLP-582
22	Verify 1A File Hashed Area for Zero Errors (VER:APPFIL UPD)	DLP-584

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

23	Determine Main-Memory Generic Differences Between the Normal File and Update File (LOAD:UPD:DIFF)	DLP-585
24	At MTC Channel, Type and Enter UPD:CORE! <i>Response:</i> System Responds With Error Stop Message, an Audit, and IN PROGRESS Lamp on MCC UPDATE Panel Goes Off	—
	NOTE: At This Point, the System Is Operating on the New Generic. Hereafter, If a Decision Is Made To Back Out of the Update, Contact Area Support Group for Assistance	—
25	At MTC Channel, Type and Enter VER:OFFICE!	—
26	Using VER Command Output Response, Verify Office Is Operating on Updated Generic	—
27	At MTC Channel, Type and Enter ALW:AUD:NUM (43,44,45,)!	—
28	Type and Enter AUD:NUM (43,44,45)!	—
29	Upon Completion of Audits, Verify No Errors Exists	—
30	At MTC Channel, Type and Enter UPD:COMMIT;UPDFILE! <i>Response:</i> UPD COMMIT COMPLETED TO UPDFILE Message Received	—
31	On MCC UPDATE Panel, Release NORMAL Pushbutton	—
32	At MTC Channel, Type and Enter ALW:WPAD!	—
33	Type and Enter ALW:MACLI,CLASS MTCE!	—
34	Write Backup 800 BPI Generic Tapes	DLP-532
35	Write Backup 1600 BPI Generic Tapes	DLP-578

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

1	Remove This Procedure and Reproduce All Pages	-
2	Using Reproduced Pages, Place Check Mark Beside Each Item Number as It Is Completed	-
3	Notify Network Management That Generic Big GULP Update Is To Be Performed	-
4	Notify Recent Change Groups (MAC and Routing) That Recent Change Activity Will Be Restricted to the MOC	-
5	On MCC SYSTEM STATUS Panel, Depress To Activate RECENT CHANGE - RESTRICT RECENT CHANGES Pushbutton	-
6	At MTC Channel, Type and Enter UPD:COMMIT;NORMFILE!	-
7	Using UPD Command Output Response, Verify That Status of APS 1A Files Is Normal	-
8	Verify Moving Head Disk (MHD) Drives 0 and 1 (VFY:MHD a!)	DLP-588
9	At MTC Channel, Type and Enter INH:WPAD!	-
10	Type and Enter INH:MACLI,CLASS MTCE;REX!	-
11	Type and Enter INH:AUD:NUM (43,44,45)!	-
12	Type and Enter STOP:OVRWRT!	-
13	On MCC UPDATE Panel, Depress NORMAL Pushbutton	-
14	Load Generic Big GULP Update Data on Disk	DLP-586
15	If Required, Insert Critical Generic Overwrites Into the Update File and Save Printouts	DLP-582
16	Verify 1A File Hashed Area for Zero Errors (VER:APPFILE UPD)	DLP-584
	<i>Note:</i> At This Point, the System Is Operating on the New Generic. Hereafter, If a Decision Is Made To Back Out of the Update, Contact Area Support Group for Assistance	-
17	Determine Main-Memory Generic Differences Between the Normal File and Update File (LOAD:UPD:DIFF!)	DLP-585
18	At MTC Channel, Type and Enter UPD:CORE! <i>Response:</i> System Responds With Error Stop Message, an Audit, and IN PROGRESS Lamp on MCC UPDATE Panel Goes Off	-
19	At MTC Channel, Type and Enter DUMP:PSS,ADR a! a = Generic Applicable Address <i>Response:</i> System Responds With Big GULP Level (In Octal) It Is Operating On	-

PERFORM GENERIC BIG GULP PARTIAL UPDATE USING 3B COMPUTER TAPE UNITS

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

20	At MTC Channel, Type and Enter ALW:AUD:NUM (43,44,45)!	-
21	Type and Enter AUD:NUM (43,44,45)!	-
22	Upon Completion of Audits, Verify No Errors Exist	-
23	At MTC Channel, Type and Enter UPD:COMMIT;UPDFILE! <i>Response:</i> UPD COMMIT COMPLETED TO UPDFILE Message Received	-
24	On MCC UPDATE Panel, Release NORMAL Pushbutton	-
25	At MTC Channel, Type and Enter ALW:WPAD!	-
26	Type and Enter ALW:MACLI,CLASS MTCE!	-
27	Write Backup 800 BPI Generic Tapes	DLP-532
28	Write Backup 1600 BPI Generic Tapes	DLP-578

**PERFORM GENERIC BIG GULP PARTIAL UPDATE USING 3B COMPUTER
TAPE UNITS**

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

1	If BMW Overwrites Are Stored on Support Organization's System, Do Not Perform This Procedure	—
2	Connect Terminal Equipment as Required To Access SCANS Network and Print Hard Copy of SCANS Broadcast Warning Messages (BWMs)	—
3	At EIA Switch (If Provided), Depress Key 1	—
4	Set Up System To Receive SCANS Messages	DLP-547
5	Print SCANS Summary List of BWMs	DLP-548
6	If SCANS Summary List Contains BWMs With Overwrites Required, Print Hardcopy of SCANS BWMs With Overwrites	DLP-549
7	Type and Enter K/F To Log Off SCANS	—
8	If Required, Prepare MTT Tape Cartridge for SCANS BWM Overwrites as Follows:	—
	1. Connect Hardware as Required To Write SCANS Message on Tape Cartridge	—
	2. Prepare Magnetic Tape Terminal (MTT) To Receive SCANS BWMs	DLP-589
	3. Write SCANS BWM Overwrites on MTT Tape Cartridge	DLP-590
	4. Review and Compare SCANS BWM Overwrite Tape Cartridge With Hardcopy of SCANS BWMs Obtained in Item 5	DLP-591
	5. Demount Tape Cartridge From MTT and Move Write Inhibit Plug to Opposite Side of Cartridge	DLP-521
	<i>Note:</i> Retain Tape Cartridge Per Local Instructions	—
9	Restore Terminal Equipment Used for This Process to Normal Configuration	—

GENERAL

In the event of serious service-affecting trouble, time is of essence and office personnel should follow system recovery guidelines provided to each office. Trouble analysis procedures (TAPs) and detailed level procedures (DLPs) are intended to be used as "backup" to system recovery guidelines.

IXL PHILOSOPHY

The IXL is an alphabetized permuted index that lists all directly accessible NTPs, TAPs, and DLPs. All other procedures in the volume are indirectly accessible. These procedures are written to support the direct accessible procedures and are not intended to be used alone to accomplish a task. Therefore, entrance into the volume on a hunt-and-find basis is a threat to system operations.

TAP PHILOSOPHY

Before an attempt is made to recover the system with trouble analysis procedures (TAPs), it is assumed that:

- Thorough analysis of a situation has been made
- An attempt has been made to contact appropriate support groups
- No specific recovery action is obvious.

Access to the appropriate TAPs is via the IXL. The IXL identifies TAPs that troubleshoot serious system conditions (e.g., Repeated PC, Rolling or repeating phases, etc.). Referenced TAPs provide an orderly sequence for approaching system recovery by using decision-action logic to restore the system to normal operation.

MAINTENANCE PHILOSOPHY

EXAMPLE

Decision has to be made:

Is recent change activity suspected?

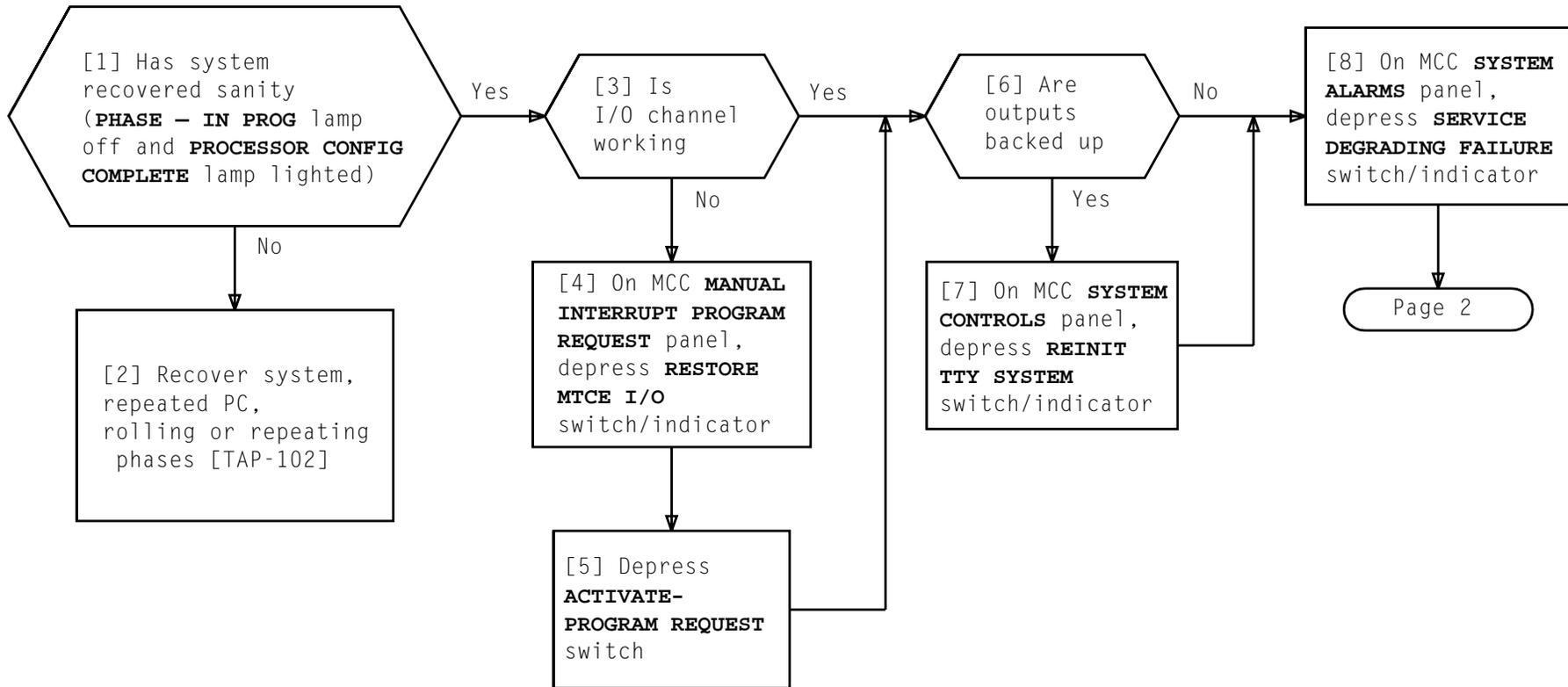
If recent change activity is suspected, take the following action:

- (1) Have MAC check recent changes for errors
- (2) Have MAC reenter recent changes suspected of being in error
- (3) If reentering recent changes does not recover system, perform one of rollback options
- (4) Allow sufficient time for system to recover.

If action taken does not recover system, another decision has to be made as to the next action to be taken.

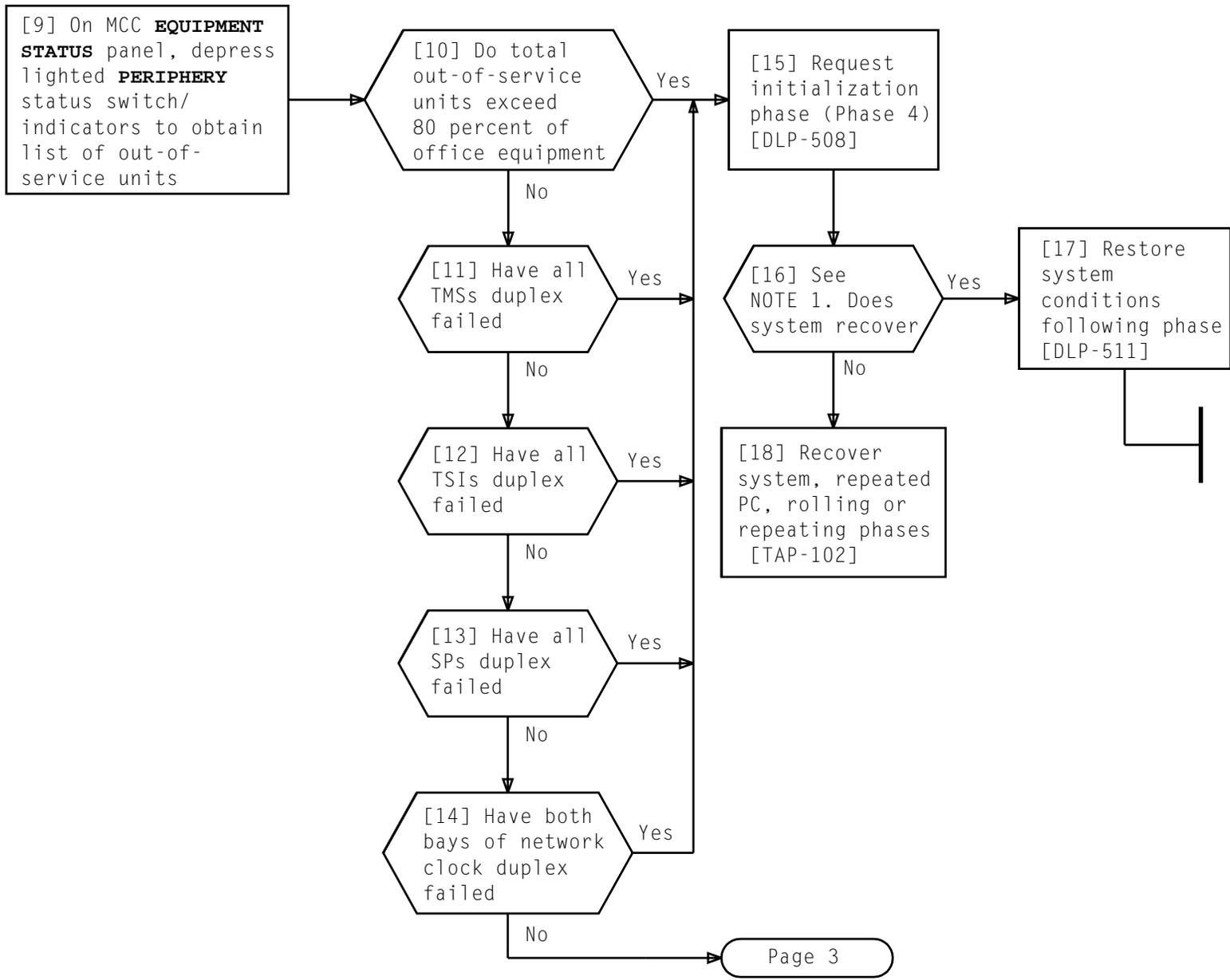
This technique is continued until all logical possibilities have been attempted. Final attempt made to recover the system is the performance of a complete system reinitialization (SR).

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RECOVER SYSTEM, ALL OR LARGE MAJORITY OF CALL PROCESSING LOST

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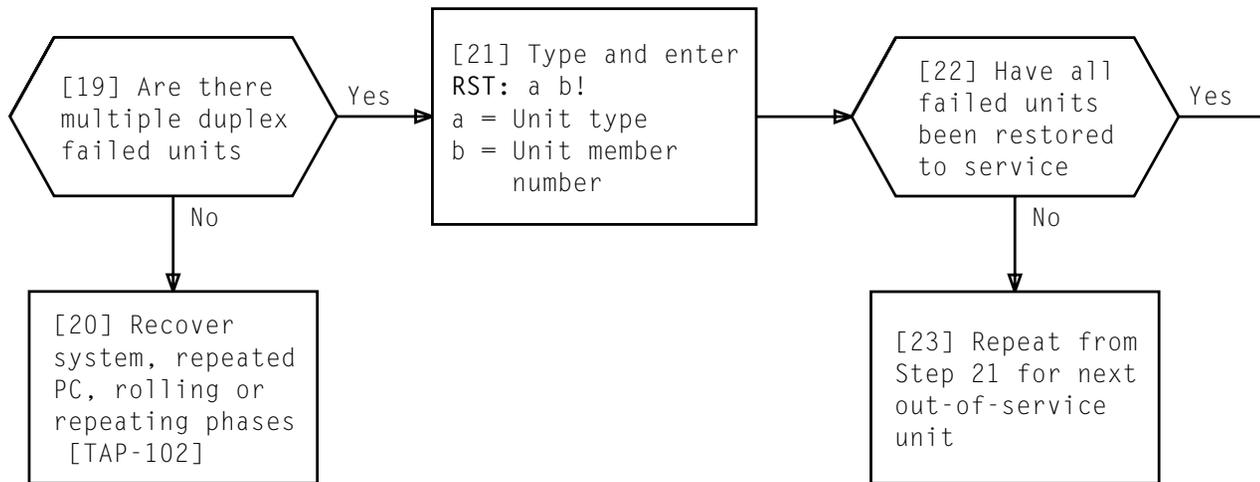


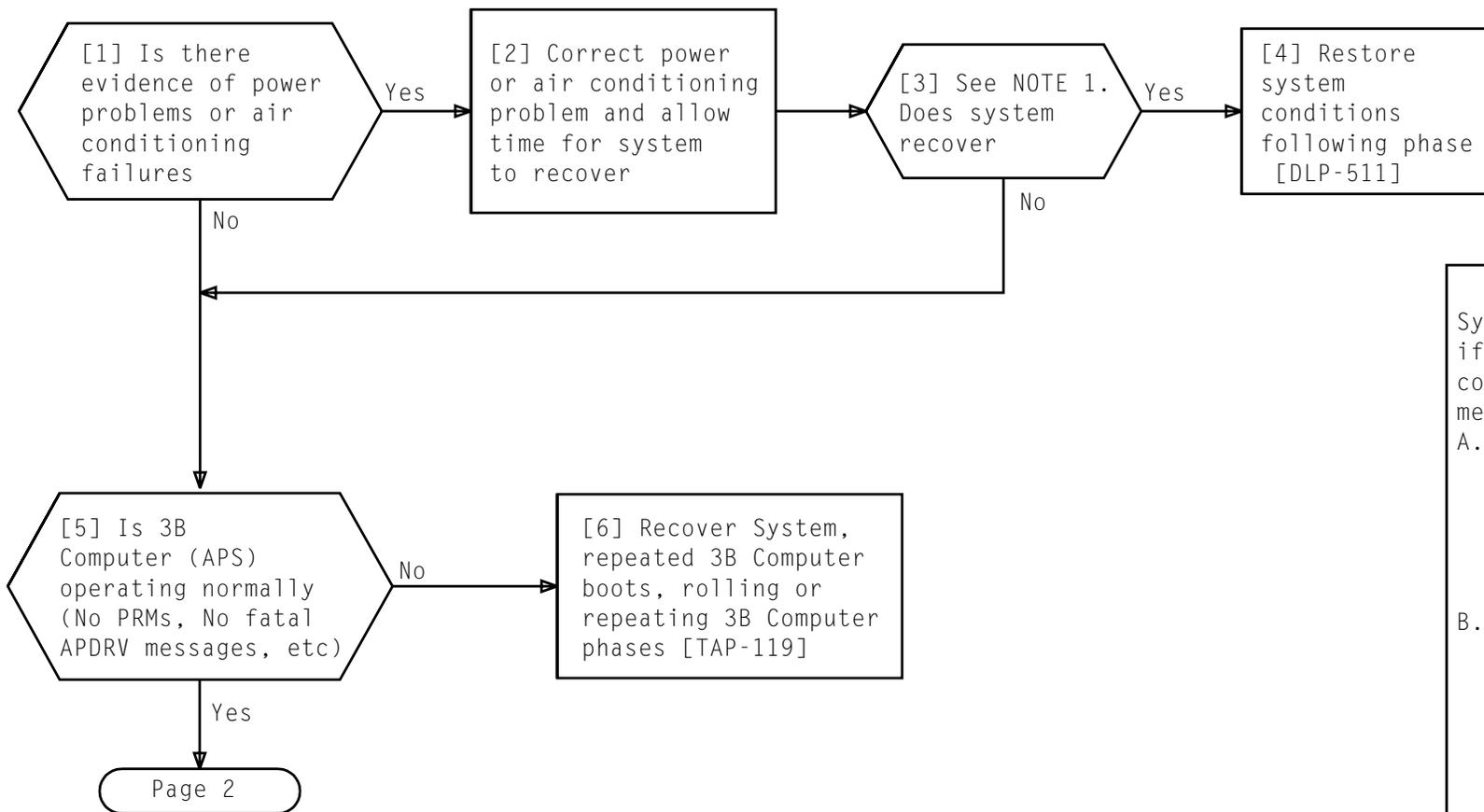
NOTE 1
 System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

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RECOVER SYSTEM, ALL OR LARGE MAJORITY OF CALL PROCESSING LOST



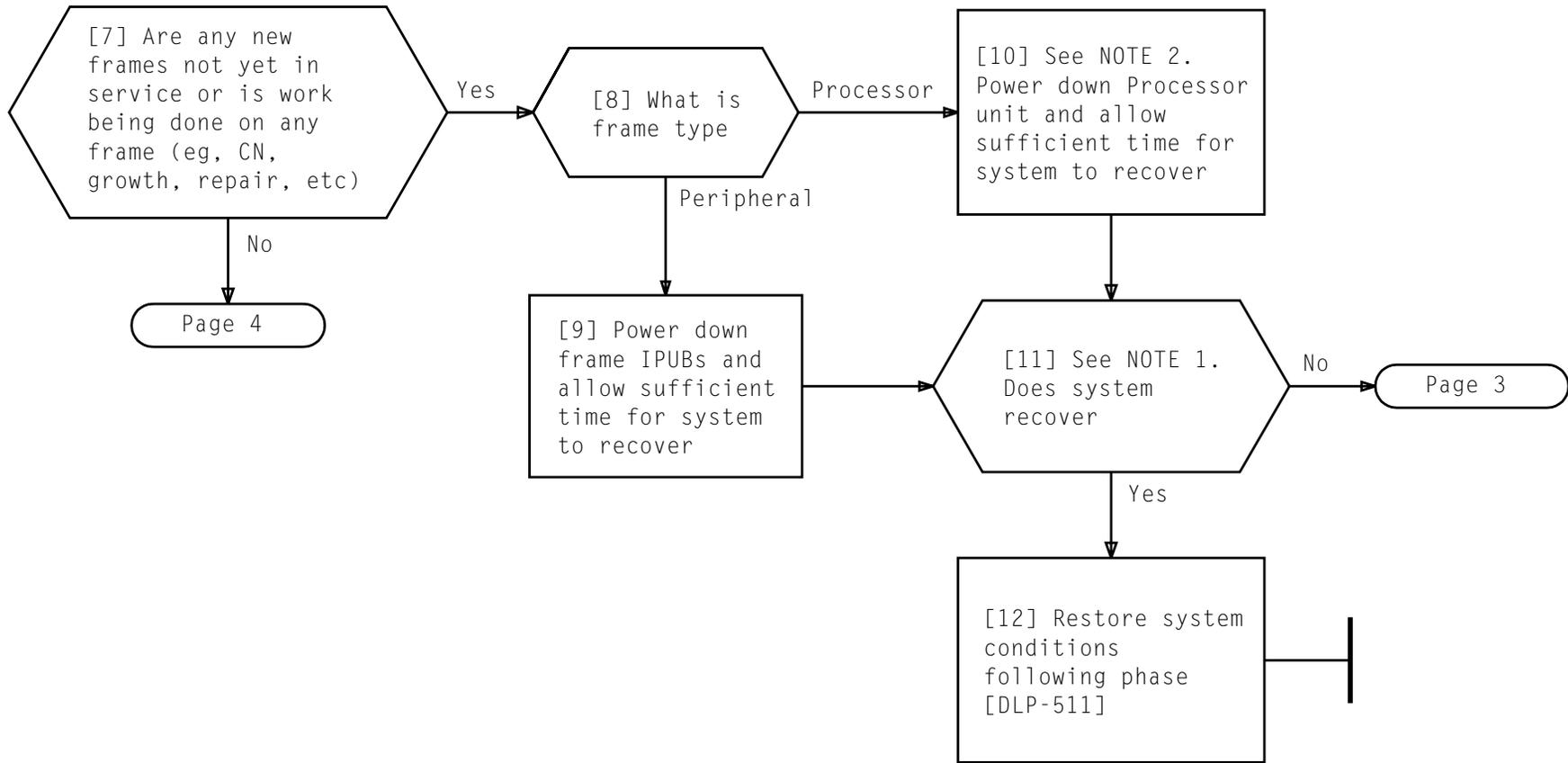


NOTE 1
 System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

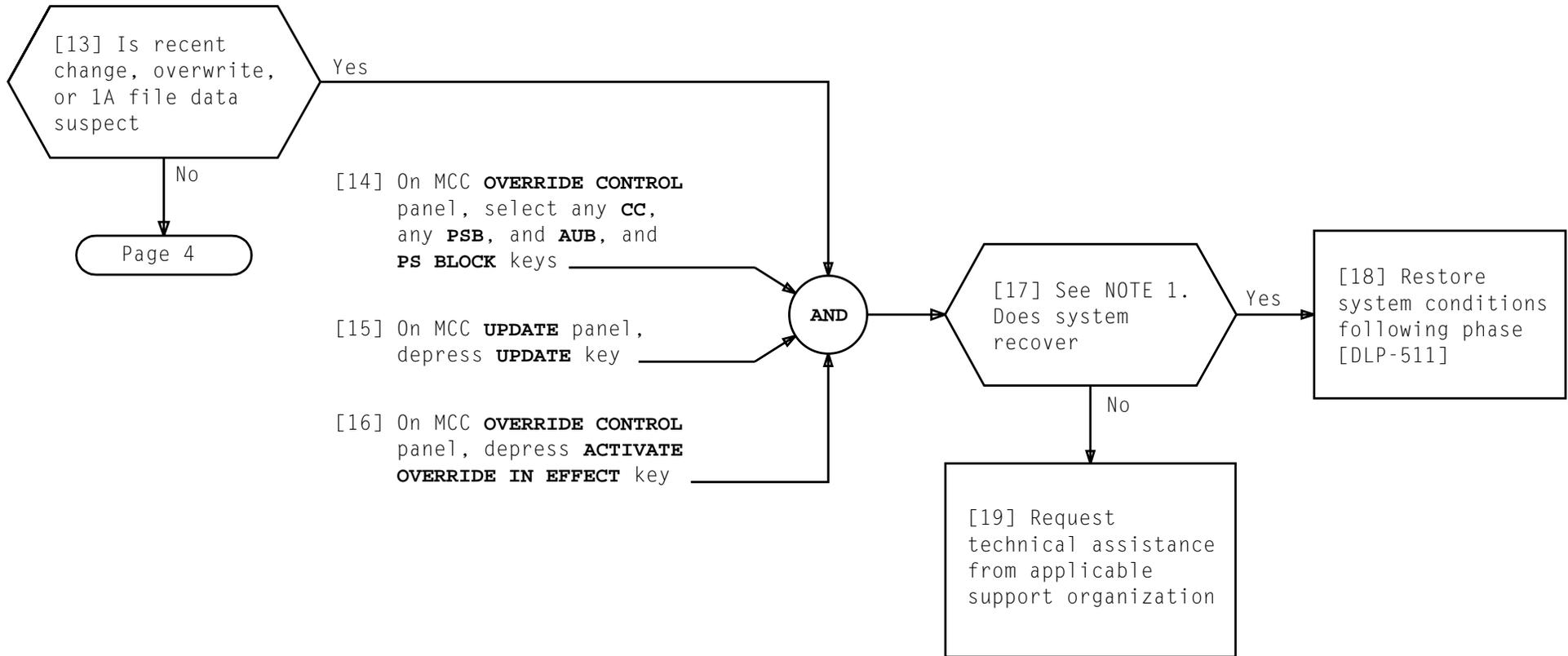
**ECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING
 1A PROCESSOR PHASES**

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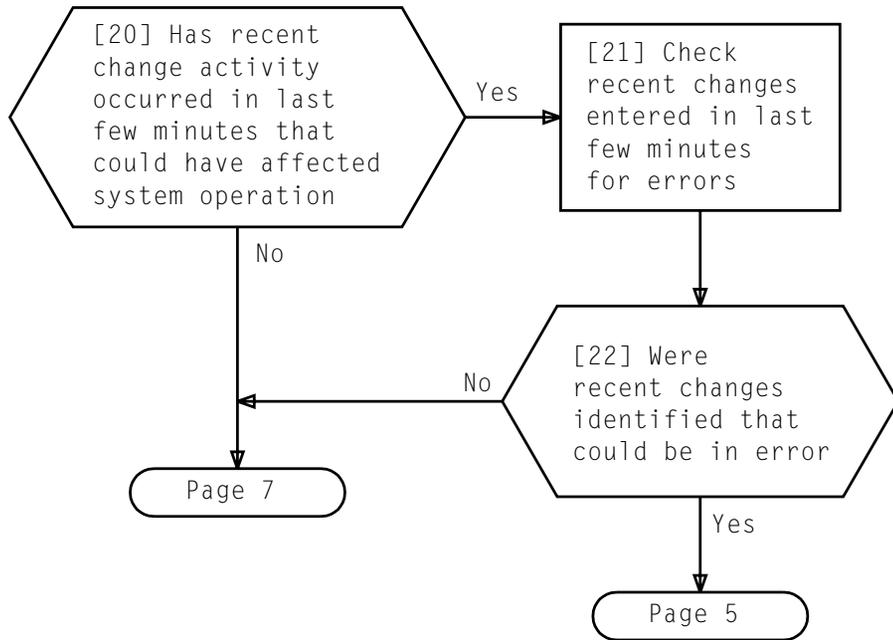
NOTE 2
 If problem develops in active CC, PUB, PSB, CSB or AUB while mate unit is powered down, attempt manual recovery and continue repairs on affected unit if manual recovery fails.

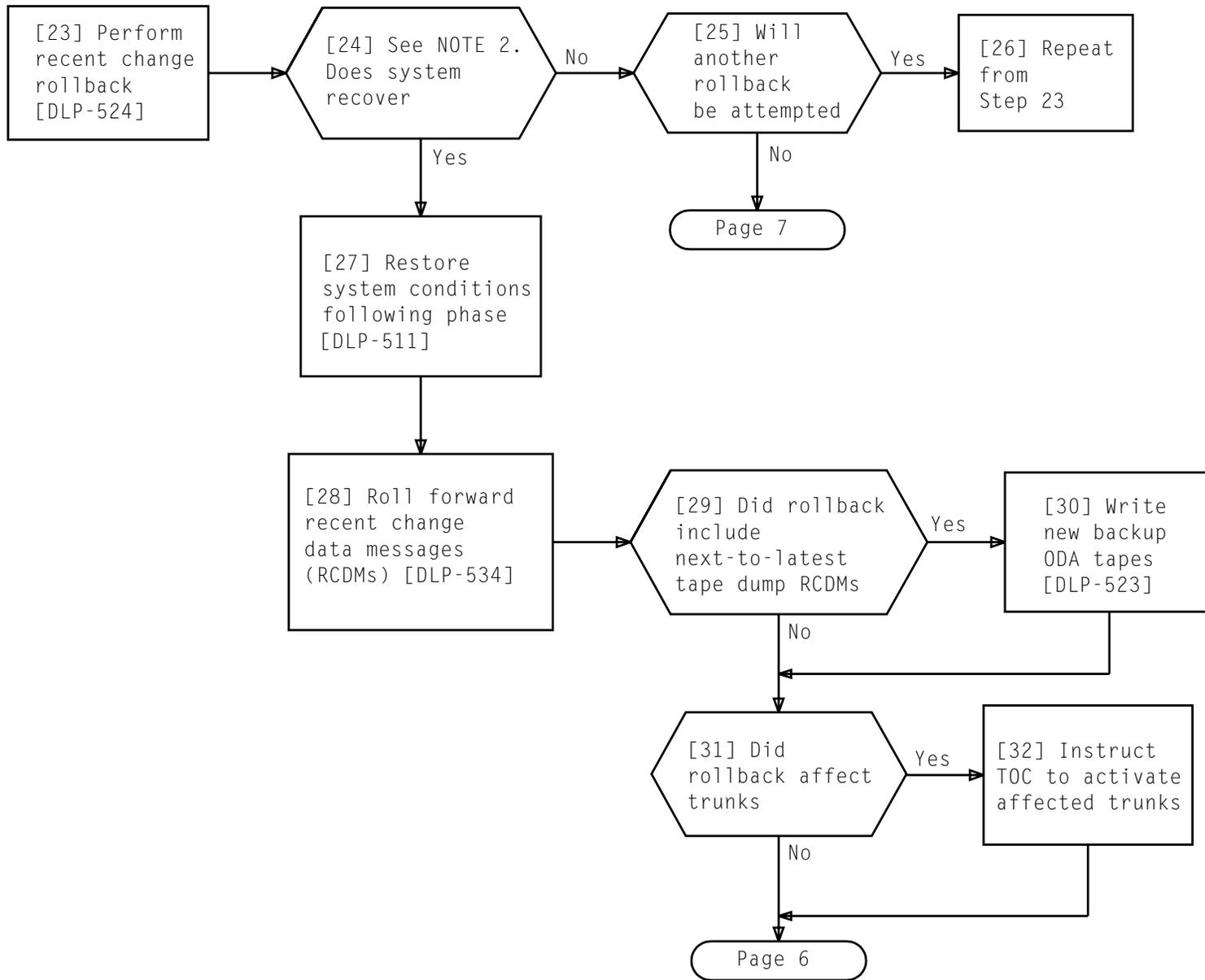
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**RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING
1A PROCESSOR PHASES**

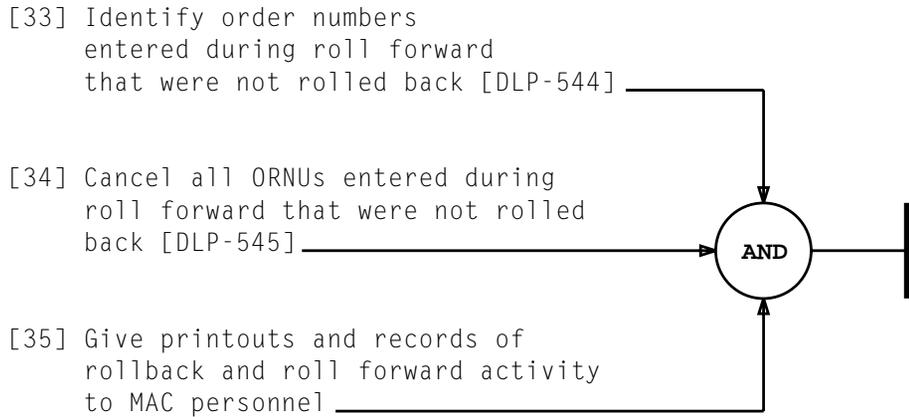
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**RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING
1A PROCESSOR PHASES**

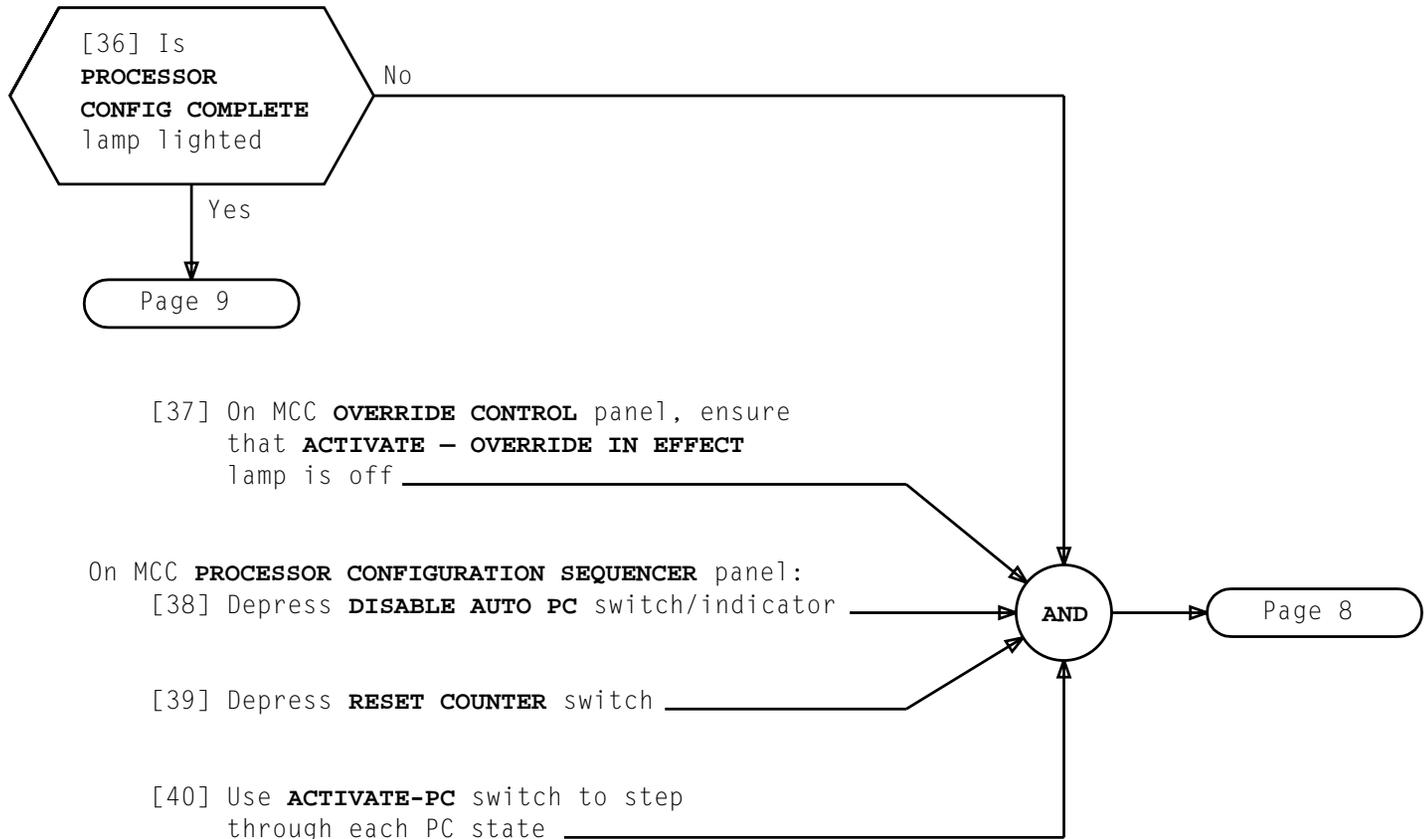
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NOTE 2
 System has recovered if following conditions have been met:

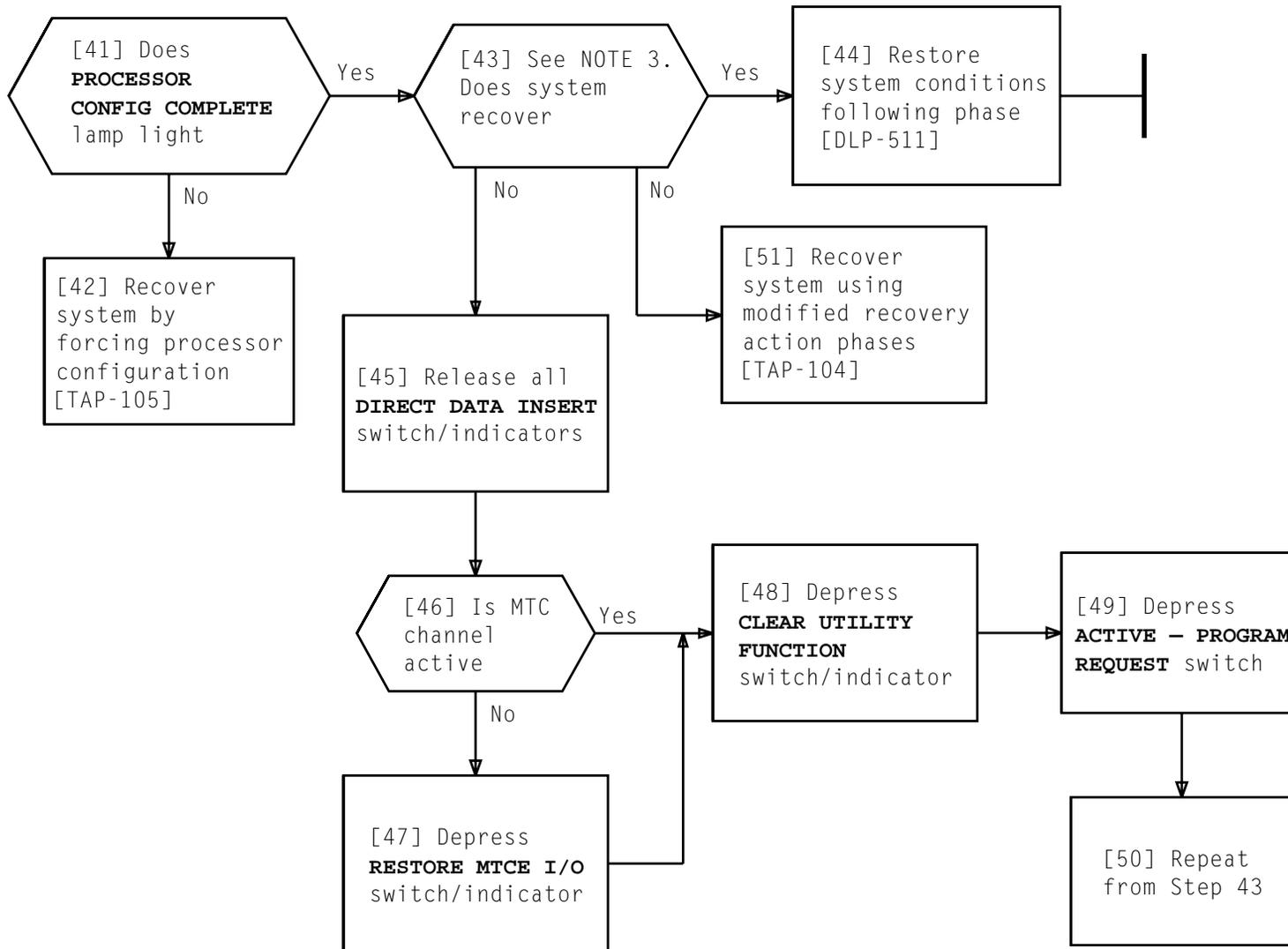
- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

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**RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING 1A
PROCESSOR PHASES**

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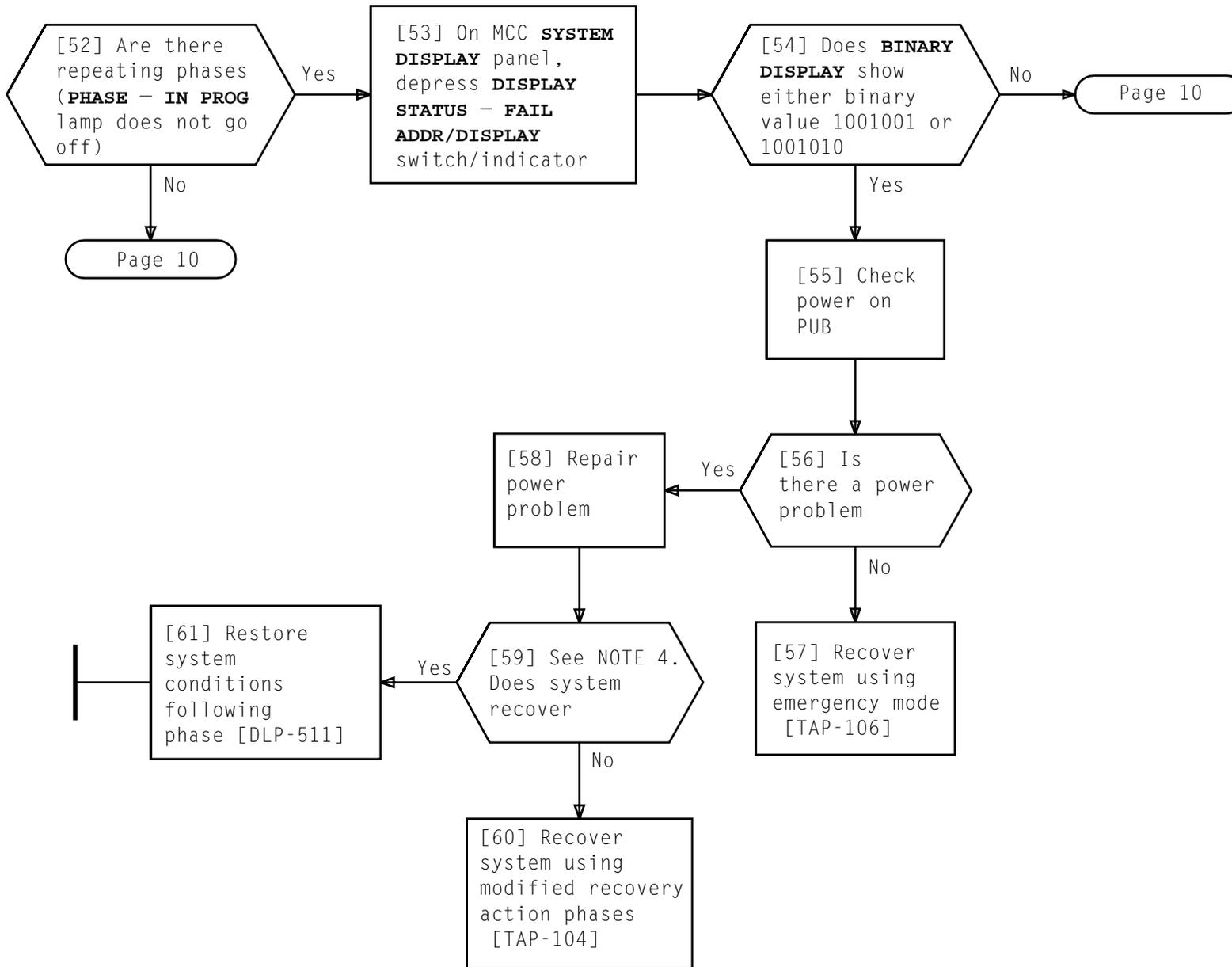


NOTE 3
System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

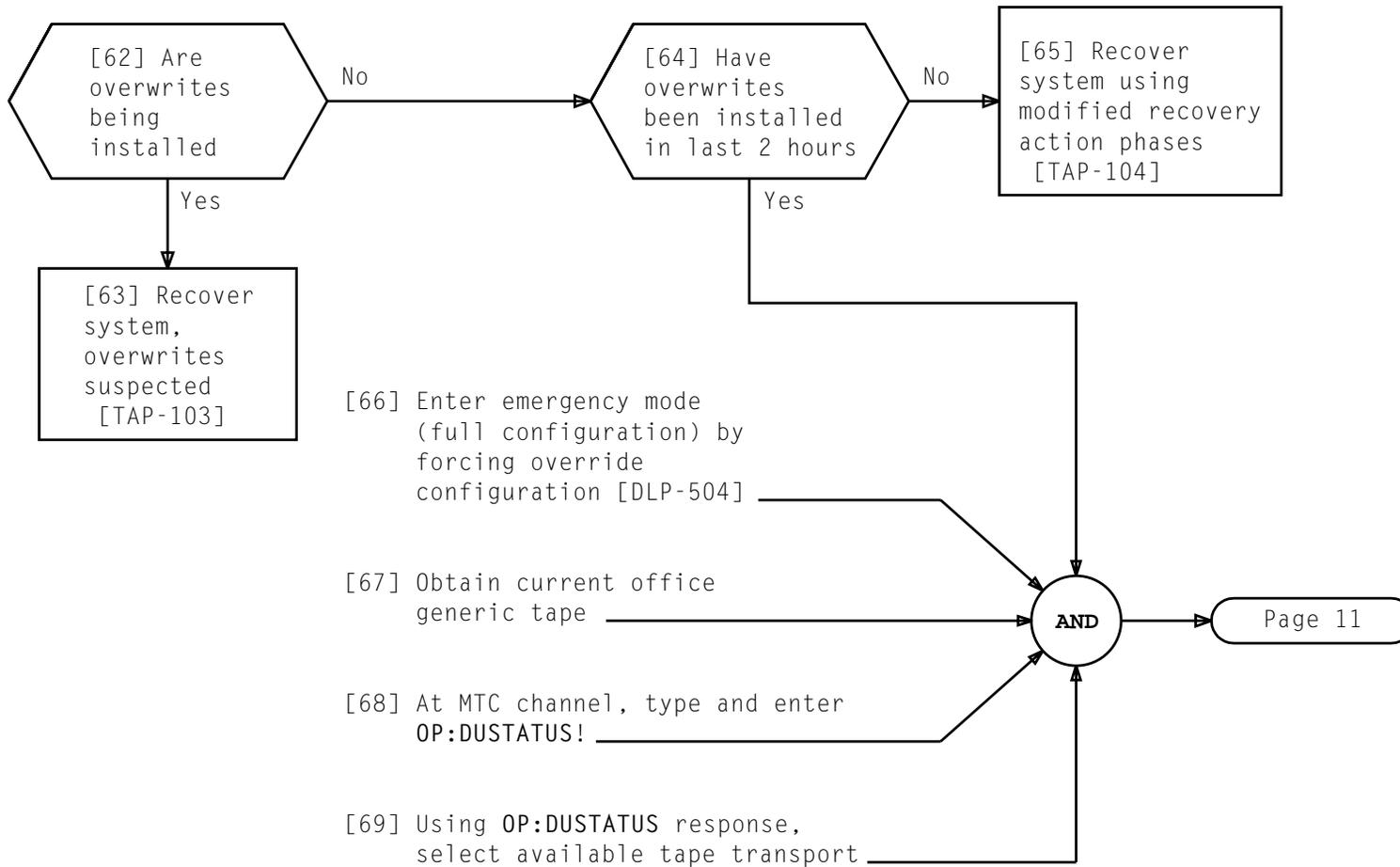
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RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING 1A
PROCESSOR PHASES



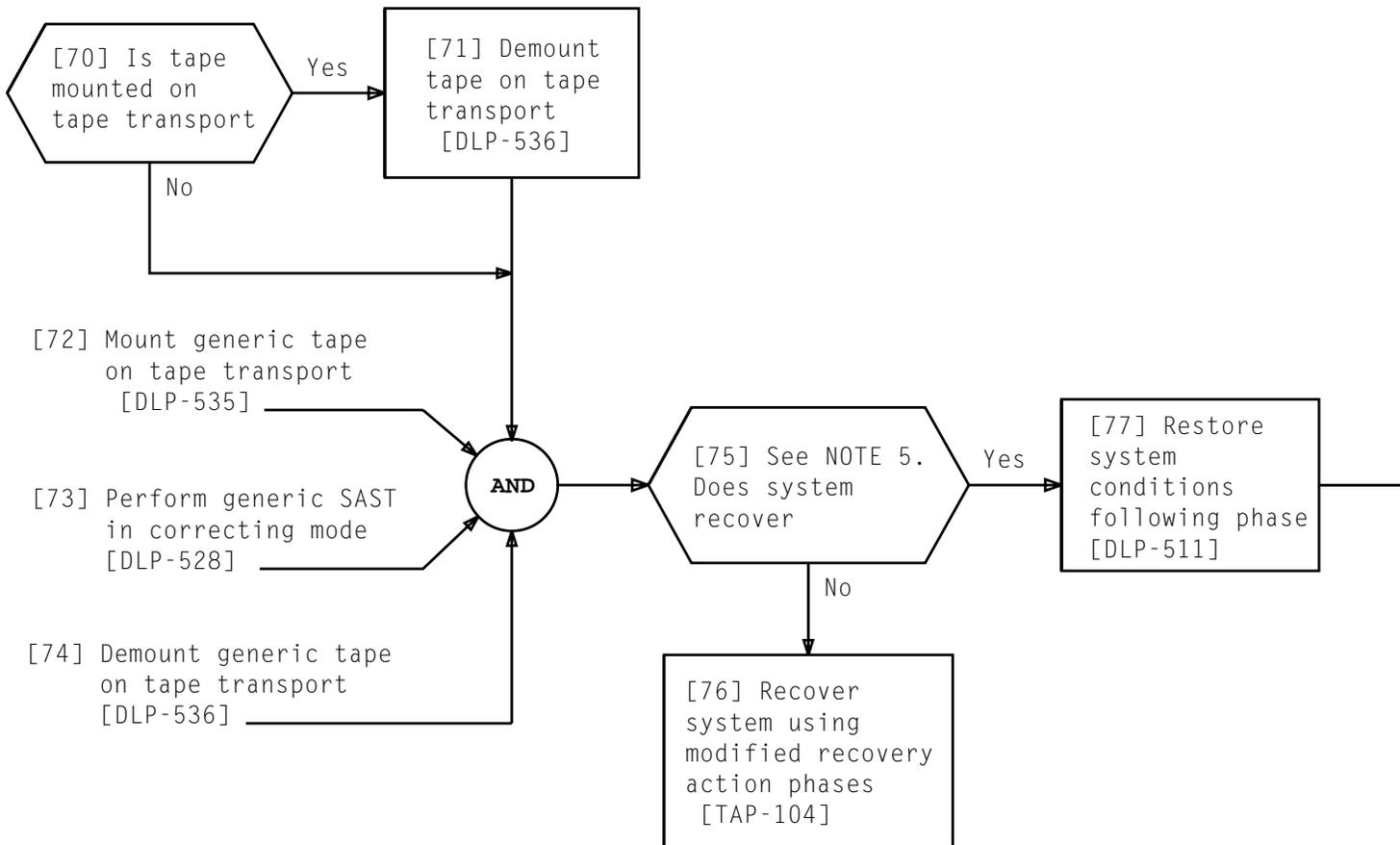
NOTE 4	
System has recovered if following conditions have been met:	
A. On MCC PROCESSOR CONFIGURATION SEQUENCER panel, PROCESSOR CONFIG COMPLETE lamp is lighted	
B. On MCC MANUAL INTERRUPT PROGRAM REQUEST panel, no PHASE - IN PROG lamps have lighted in last few minutes	
C. On MCC SYSTEM PERFORMANCE panel, SYSTEM ACTIVITY lamps are normal for time of day (takes 3 minutes for lamps to be updated)	
D. Calls are being processed.	
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RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING 1A PROCESSOR PHASES



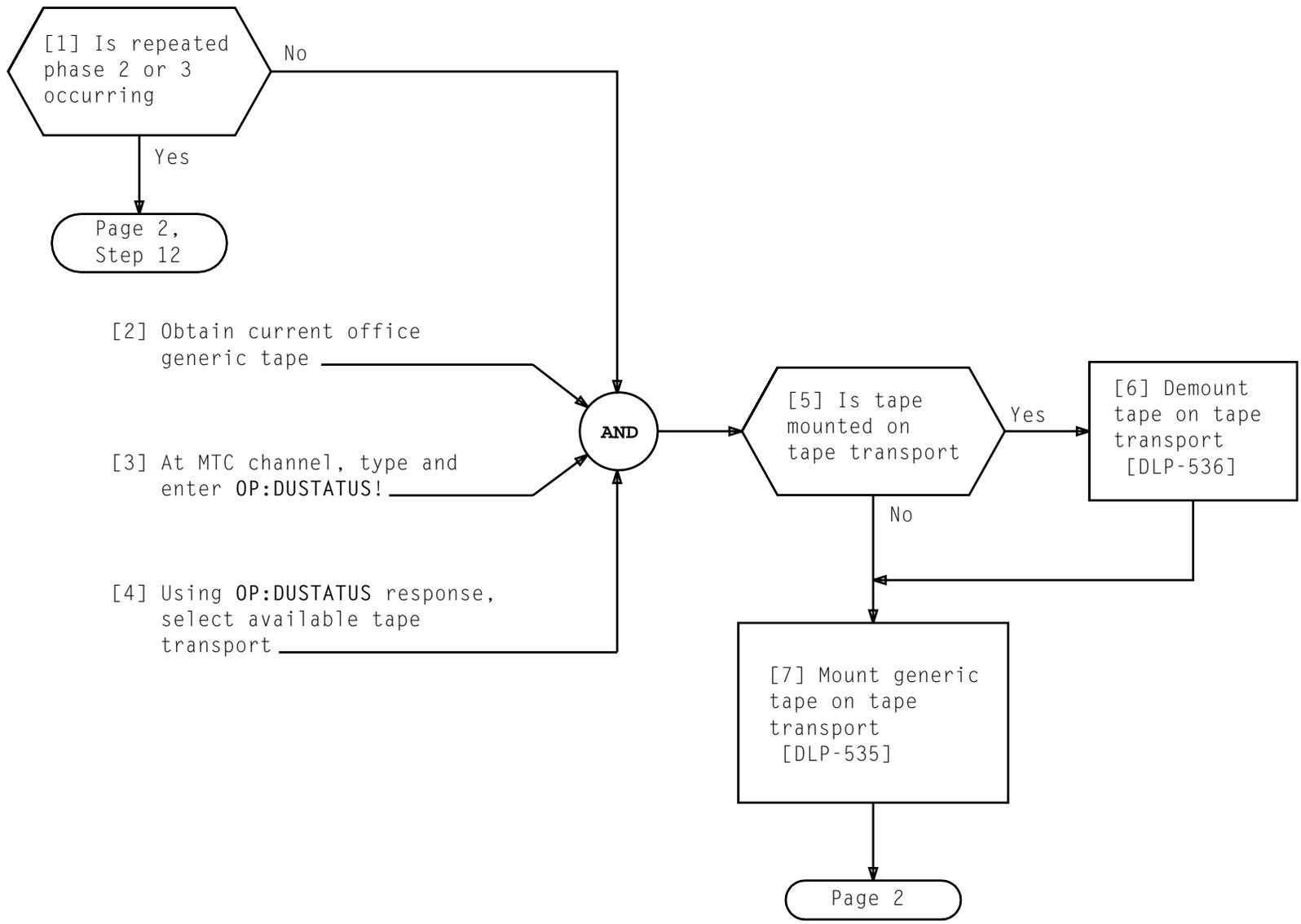
**RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING 1A
PROCESSOR PHASES**

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NOTE 5	
System has recovered if following conditions have been met:	
A. On MCC PROCESSOR CONFIGURATION SEQUENCER panel, PROCESSOR CONFIG COMPLETE lamp is lighted	
B. On MCC MANUAL INTERRUPT PROGRAM REQUEST panel, no PHASE - IN PROG lamps have lighted in last few minutes	
C. On MCC SYSTEM PERFORMANCE panel, SYSTEM ACTIVITY lamps are normal for time of day (takes 3 minutes for lamps to be updated)	
D. Calls are being processed.	
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**RECOVER SYSTEM, REPEATED PC, ROLLING OR REPEATING 1A
PROCESSOR PHASES**



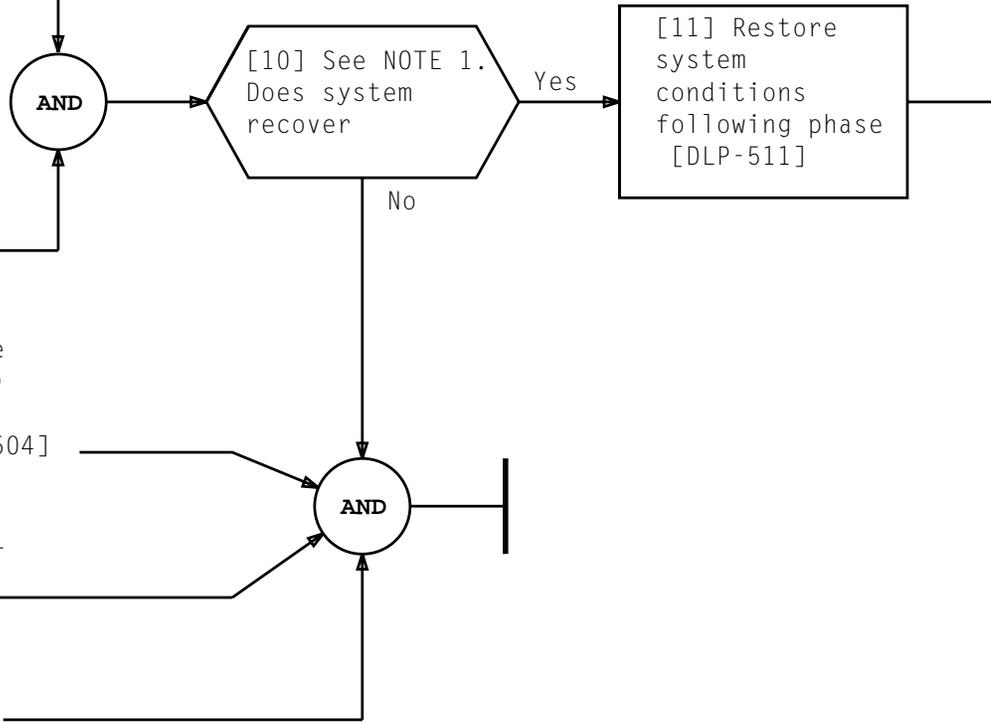
[8] Perform generic SAST in correcting mode [DLP-528]

[9] Demount generic tape on tape transport [DLP-536]

[12] Enter emergency mode (full configuration) by forcing override configuration [DLP-504]

[13] Perform generic SAST [DLP-528]

[14] Exit emergency mode



NOTE 1
System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

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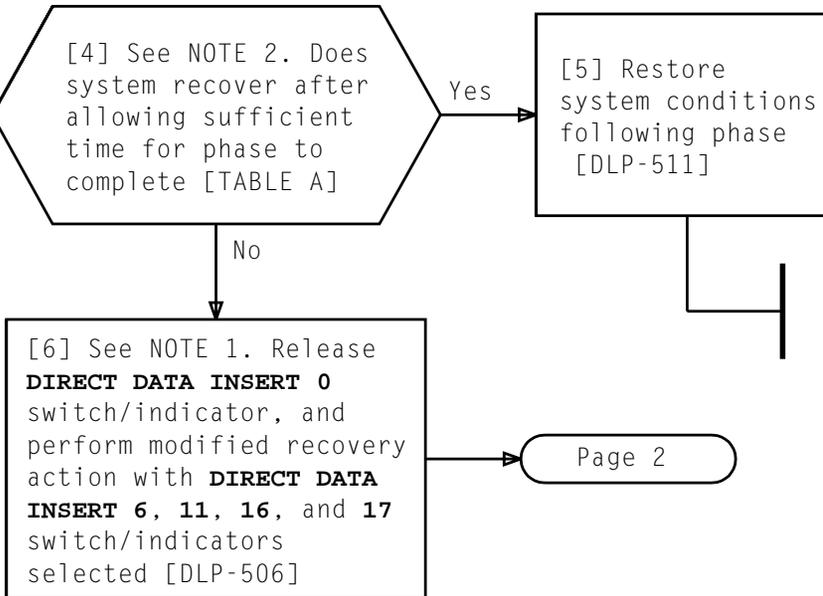
[1] On MCC **SYSTEM STATUS** panel, depress **RECENT CHANGE - RESTRICT RECENT CHANGES** switch/indicator

[2] See NOTE 1. Perform modified recovery action with **DIRECT DATA INSERT 0** switch/indicator selected [DLP-506]

[3] Follow phase progress by observing MCC **BINARY DISPLAY** lamps [FIG. 1]

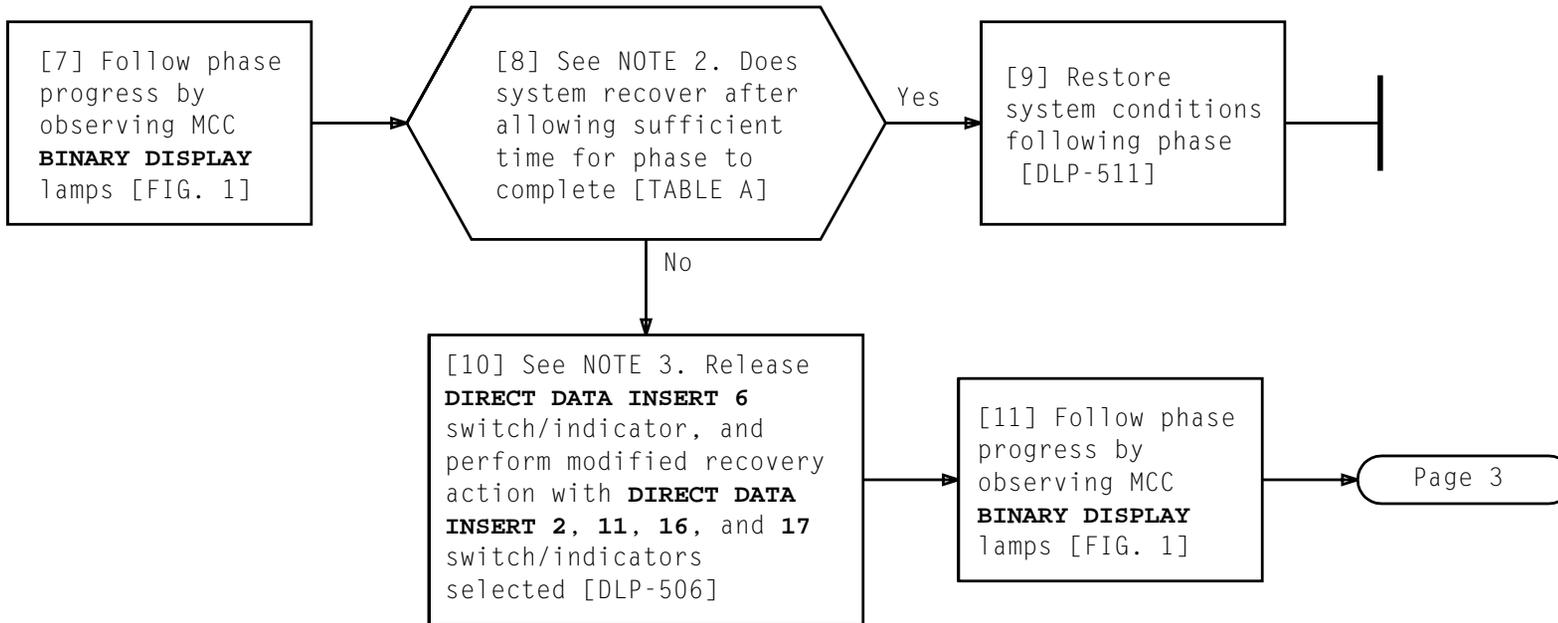
TABLE A APPROXIMATE PHASE TIMES*		
PHASE	BASIC TIME (SECS)	EXTRA TIME PER 10K TRUNKS (SECS)
1	1	—
2	9	4
3	11	20
4	9	15

* Phase times are dependent on call load, etc. Approximate times can be determined as follows:
Phase time = Basic time + (time per 10K trunk x number of 10K trunks)

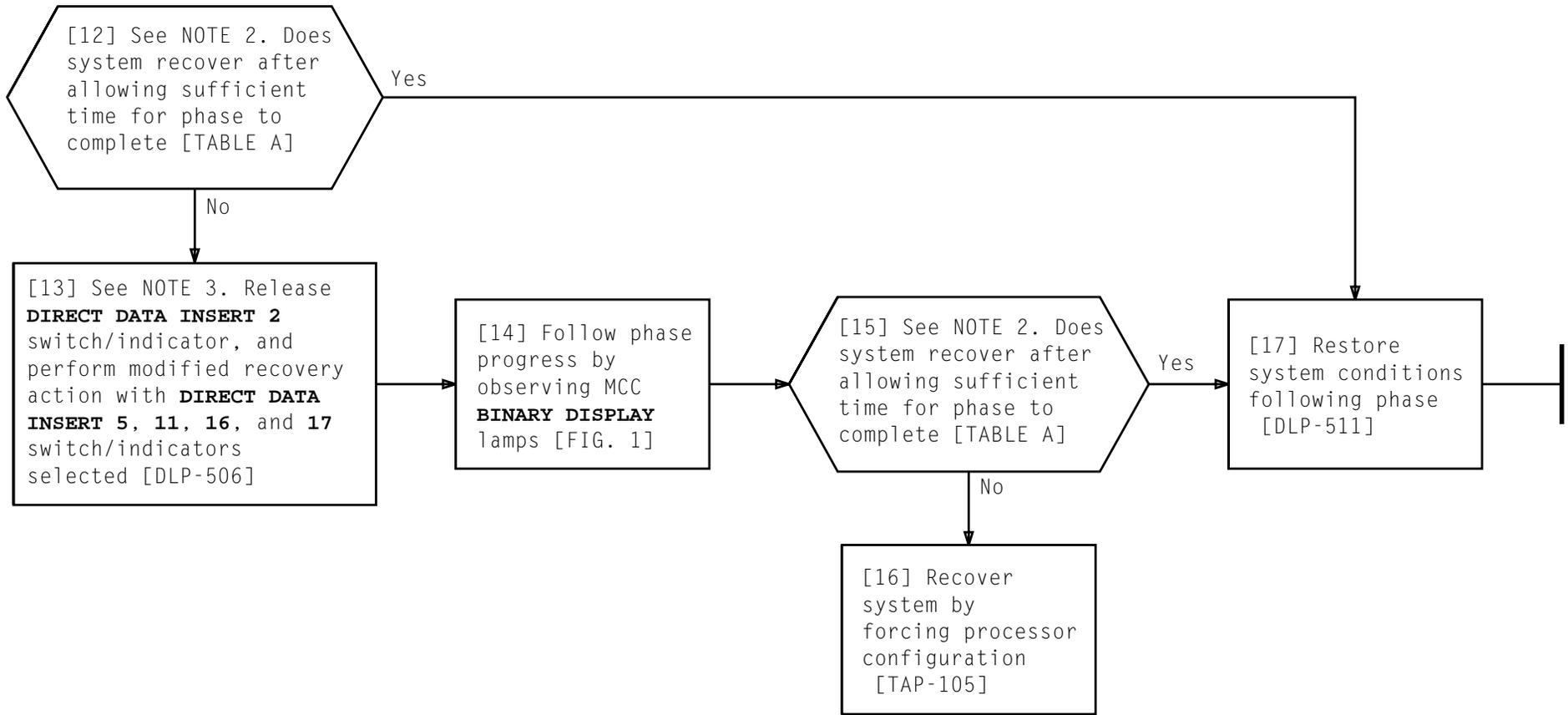


- NOTES
- Functions of **DIRECT DATA INSERT** switch/indicators are:
 - 0** - Inhibits interrupts
 - 6** - Removes any network management controls in effect
 - 11** - Restores all duplex failed peripherals to duplex with access tests
 - 16** - Zeroes all CS and PS memory not backed up on disk
 - 17** - Skips hash sum calculations.
 - System has recovered if following conditions have been met:
 - A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
 - B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
 - C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
 - D. Calls are being processed.

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NOTE 3	
Functions of DIRECT DATA INSERT switch/indicators are:	
2-Rolls back all recent changes	
5-Zeroes disk areas specified by system integrity program.	
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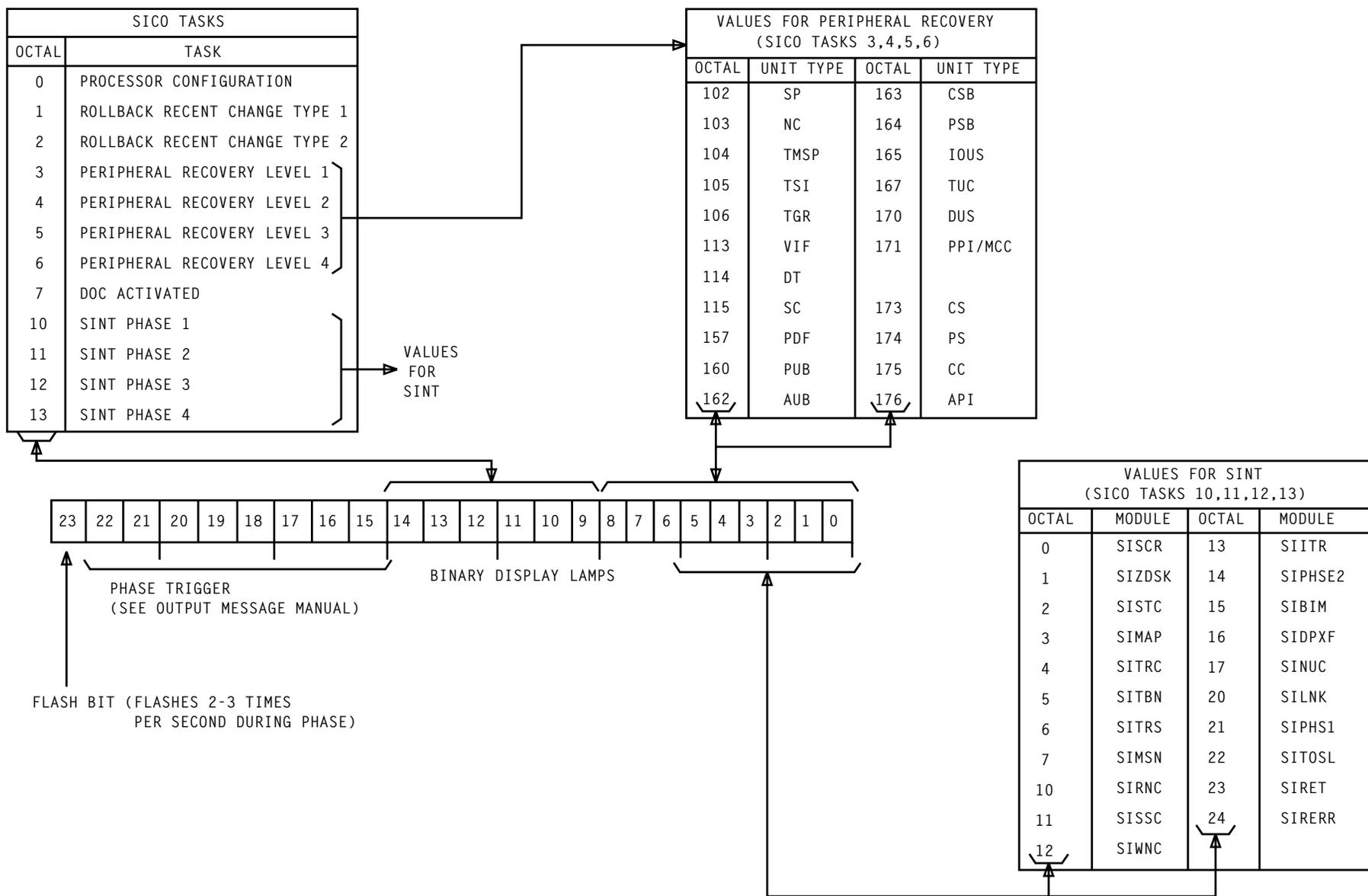
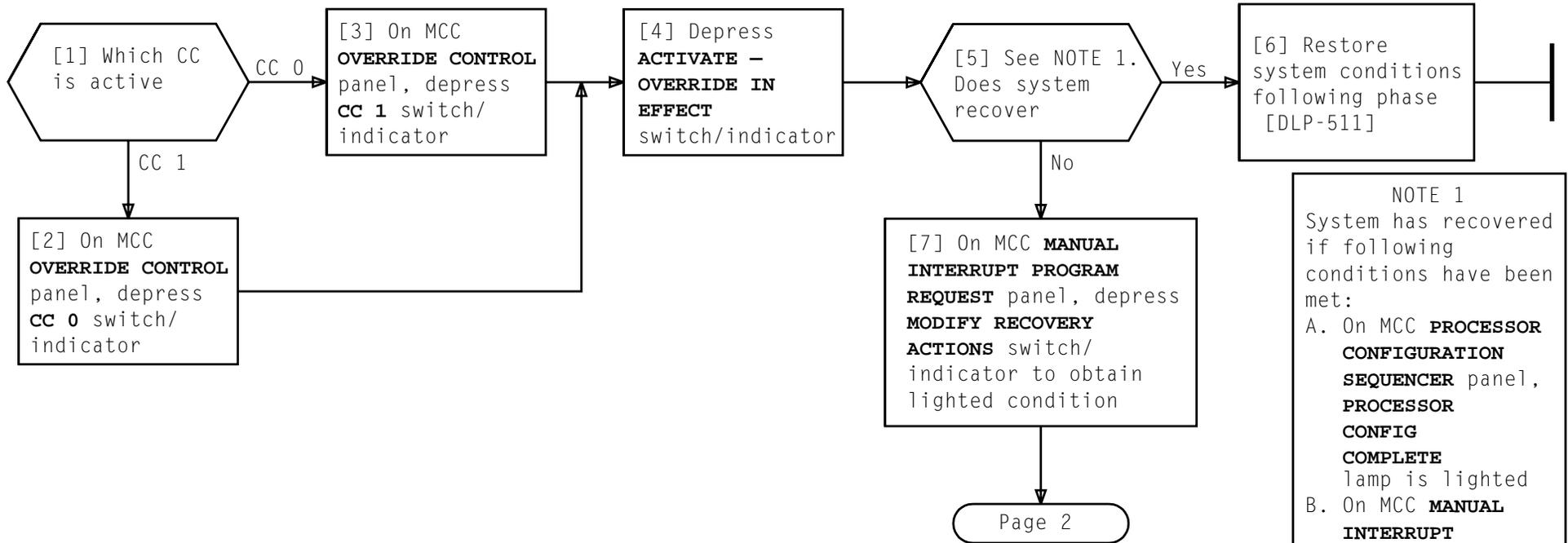


FIG. 1 - MCC Binary Display for Phases



NOTE 1
 System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

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[8] See NOTE 2. Depress **DIRECT DATA INSERT** 16, 17, 18, and 21 switch/indicators

[9] On MCC **VERRIDE CONTROL** panel, select switch/indicators for first override configuration [TABLE A]

[10] Depress **ACTIVATE - OVERRIDE IN EFFECT** switch/indicator

[11] See NOTE 1. Does system recover

[12] Clear trouble which required modified recovery action, without causing system failure

TABLE A VALID OVERRIDE CONFIGURATIONS									
CFG	OVERRIDE CONTROL LAMPS								
	CC 0	CC 1	PSB 0	PSB 1	AUB 0	AUB 1	BLOCK 0 PS 0	VARIABLE PS 0	VARIABLE PS 1
1	X		X		X		X		
2	X			X		X		X	
3		X	X		X				X
4		X		X		X	X		
5	X		X		X			X	
6	X		X		X				X
7	X		X			X	X		
8	X		X			X		X	
9	X		X			X			X
10	X			X	X		X		
11	X			X	X			X	
12	X			X	X				X
13	X			X		X	X		
14	X			X		X			X
15		X	X		X		X		
16		X	X		X			X	
17		X	X			X	X		
18		X	X			X		X	
19		X	X			X			X
20		X		X	X		X		
21		X		X	X			X	
22		X		X	X				X
23		X		X		X		X	
24		X		X		X			X

[13] Have all override configurations been attempted [TABLE A]

[14] Recover system using emergency mode [TAP-106]

[15] On MCC **VERRIDE CONTROL** panel, select switch/indicators for next override configuration [TABLE A]

NOTE 2
Functions of **DIRECT DATA INSERT** switch/indicators are:
16 - Zeroes all CS and PS memory not backed up on disk
17 - Skips hash sum calculation
18 - Bypasses CC sanity tests
21 - Skips MTCE tests of stores.

RECOVER SYSTEM BY FORCING PROCESSOR CONFIGURATION

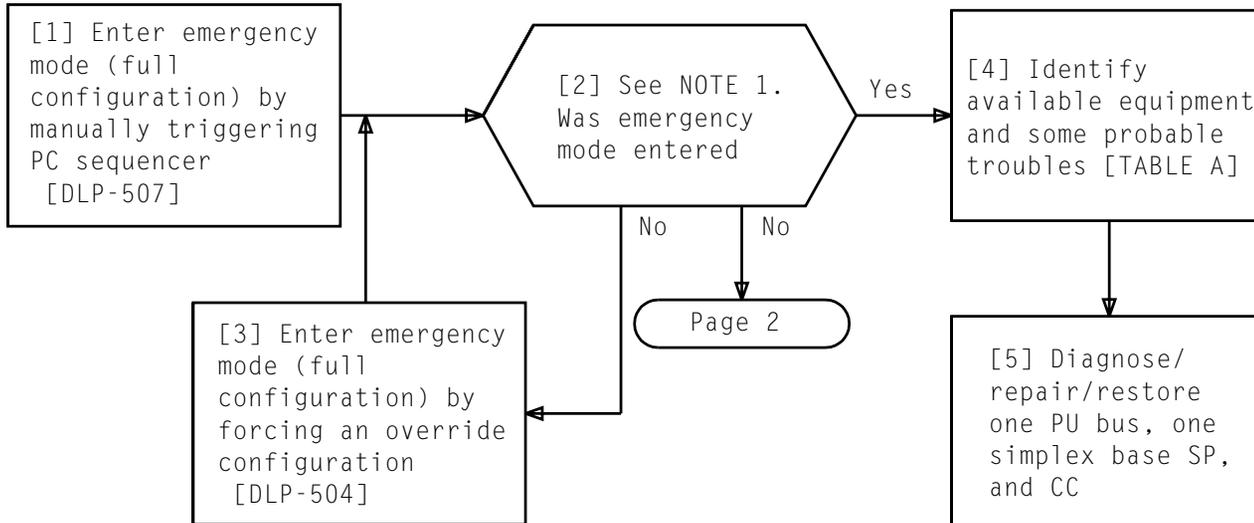


TABLE A EMERGENCY MODE — FULL CONFIGURATION	
EQUIPMENT AVAILABLE	PROBABLE TROUBLE
One CC Simplex PS community Simplex CS community One API One AU bus PS bus CS bus MCC direct functions One tape unit and controller (if EM entered by performing SR) Maintenance TTY	PU bus access problems Duplex SP failure Recent change errors CC cannot process peripheral orders Duplex PU bus failure

NOTE 1
 Indications that emergency mode has been entered are:
 A. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, **FULL CFG** or **MIN CFG** lamp lights
 B. REPT:TROUBLE-EMERGENCY MODE ENTERED {FULL | MIN} PROCESSOR CONFIG message is received.

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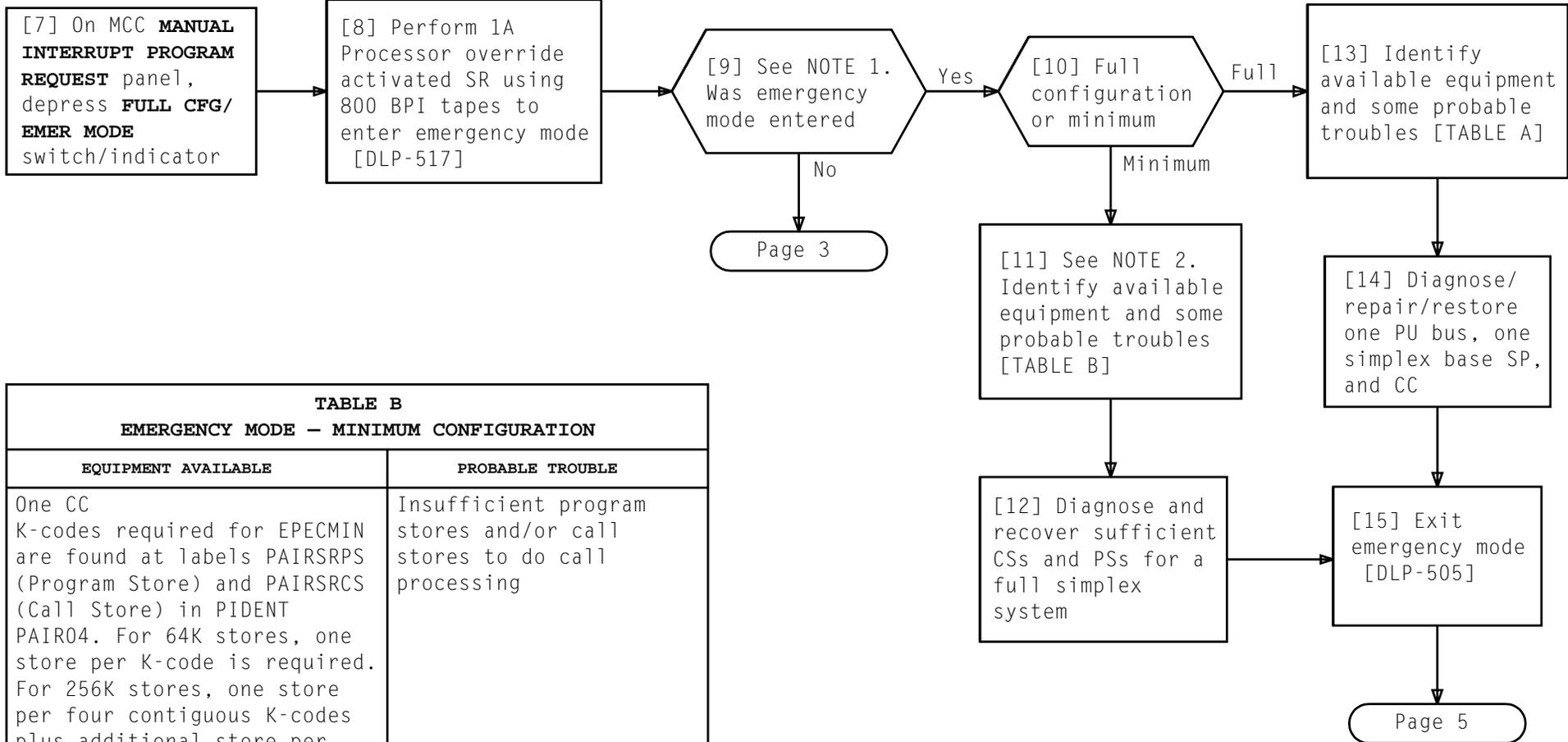
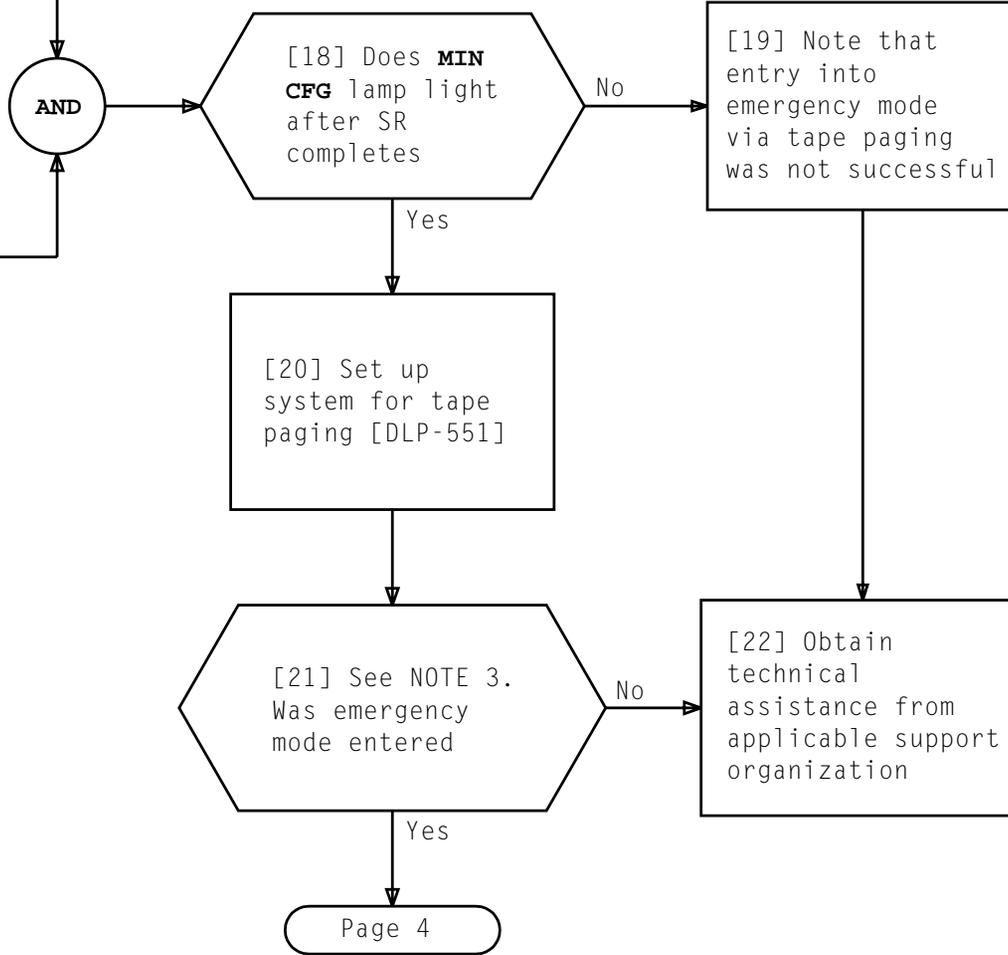


TABLE B EMERGENCY MODE – MINIMUM CONFIGURATION	
EQUIPMENT AVAILABLE	PROBABLE TROUBLE
One CC K-codes required for EPECMIN are found at labels PAIRSRPS (Program Store) and PAIRSRCS (Call Store) in PIDENT PAIR04. For 64K stores, one store per K-code is required. For 256K stores, one store per four contiguous K-codes plus additional store per noncontiguous K-code are required. One API One AU bus PS bus CS bus MCC direct functions One tape unit and controller Maintenance TTY	Insufficient program stores and/or call stores to do call processing Insufficient program stores and/or call stores to enter full configuration emergency mode

NOTE 2
 Minimum configuration (MIN CFG) mode was entered because insufficient CSs and/or PSs are available. MIN CFG is not as stable as FULL CFG and some manual actions performed in MIN mode may cause loss of sanity. If sanity is lost, the only way to reenter MIN CFG is by performing another SR.

[16] Select tape paging with minimum configuration [DLP-510]

[17] Perform 1A Processor override activated SR using 800 BPI tapes [DLP-517]



NOTE 3
 Indications that emergency mode has been entered are:

- A. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, **FULL CFG** or **MIN CFG** lamp lights
- B. REPT:TROUBLE-EMERGENCY MODE ENTERED{FULL | MIN} PROCESSOR CONFIG message is received.

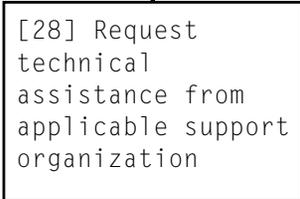
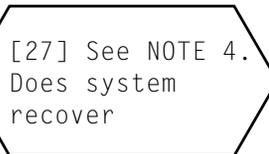
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[23] Identify available equipment and probable trouble [TABLE C]

[24] Diagnose, repair, and restore API and/or AU BUS

[25] On MCC, set override controls for exiting emergency mode by performing SR [DLP-509]

[26] Perform 1A Processor override activated SR using 800 BPI tapes [DLP-517]



[29] Restore system conditions following SR using 800 BPI tapes [DLP-512]

[30] Roll forward recent change data messages (RCDMs) following SR [DLP-546]

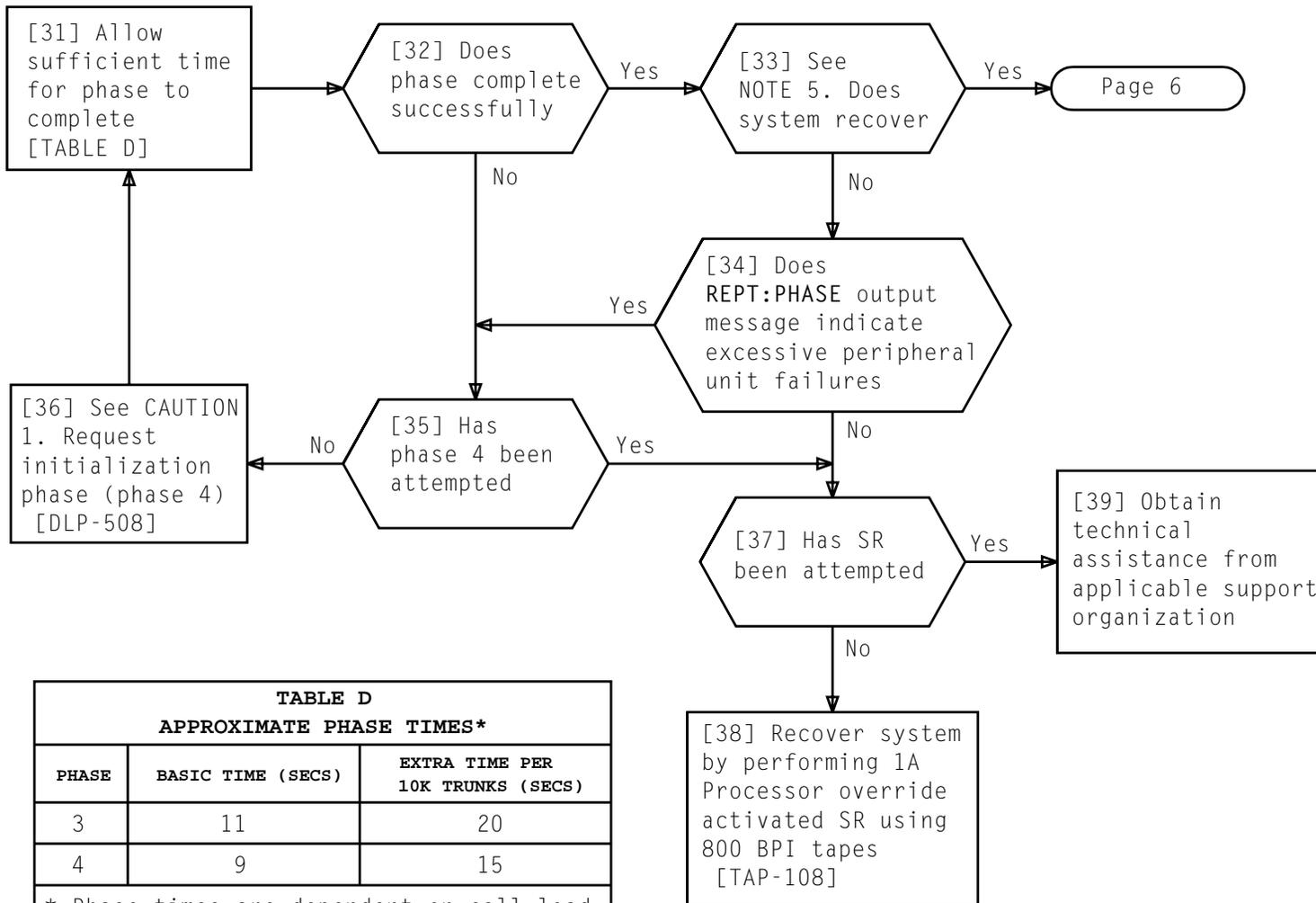


TABLE C EMERGENCY MODE — ENTERED BY TAPE PAGING	
EQUIPMENT AVAILABLE	PROBABLE TROUBLE
One CC Simplex PS community Simplex CS community One AU BUS PS BUS CS BUS MCC direct functions One tape unit and controller Maintenance TTY	Duplex API or 3B computer problems

NOTE 4
System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE — IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

RECOVER SYSTEM USING EMERGENCY MODE



NOTE 5
 System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

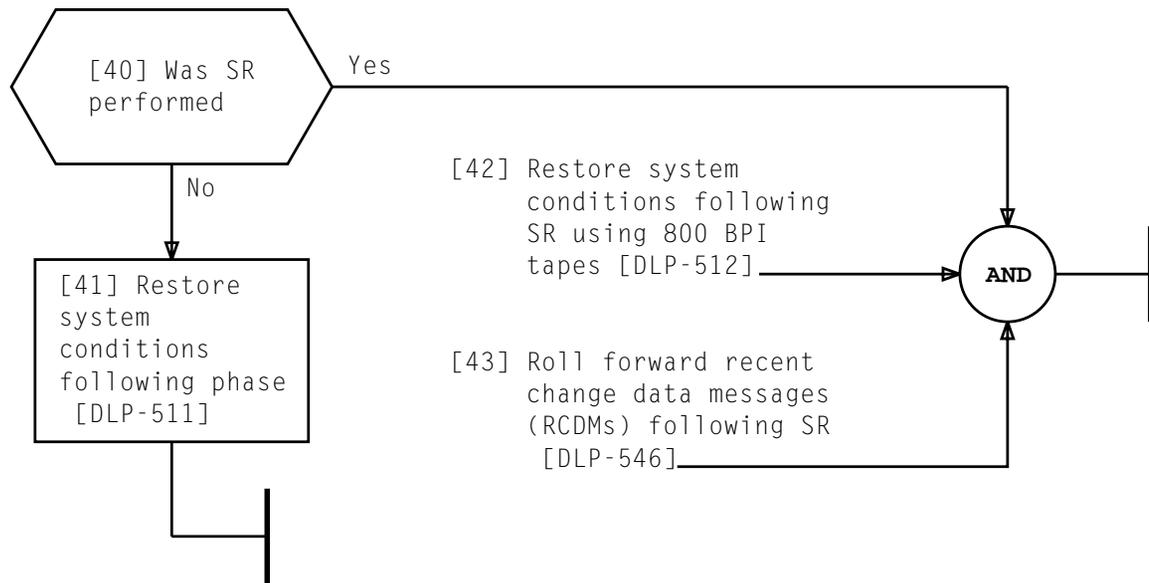
TABLE D
APPROXIMATE PHASE TIMES*

PHASE	BASIC TIME (SECS)	EXTRA TIME PER 10K TRUNKS (SECS)
3	11	20
4	9	15

* Phase times are dependent on call load, etc. Approximate times can be determined as follows:
 Phase time = Basic time + (time per 10K trunks x number of 10K trunks)

CAUTION 1
All existing network connections that are still made will be lost when phase 4 is initiated

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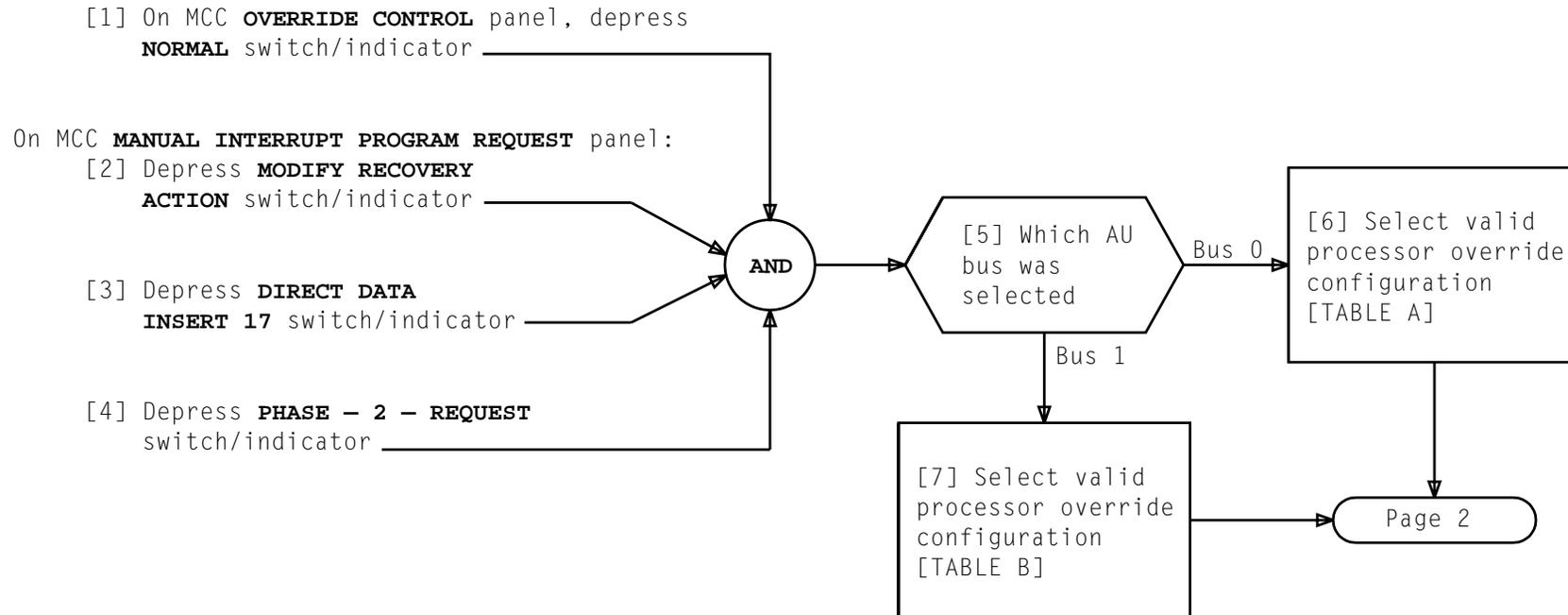
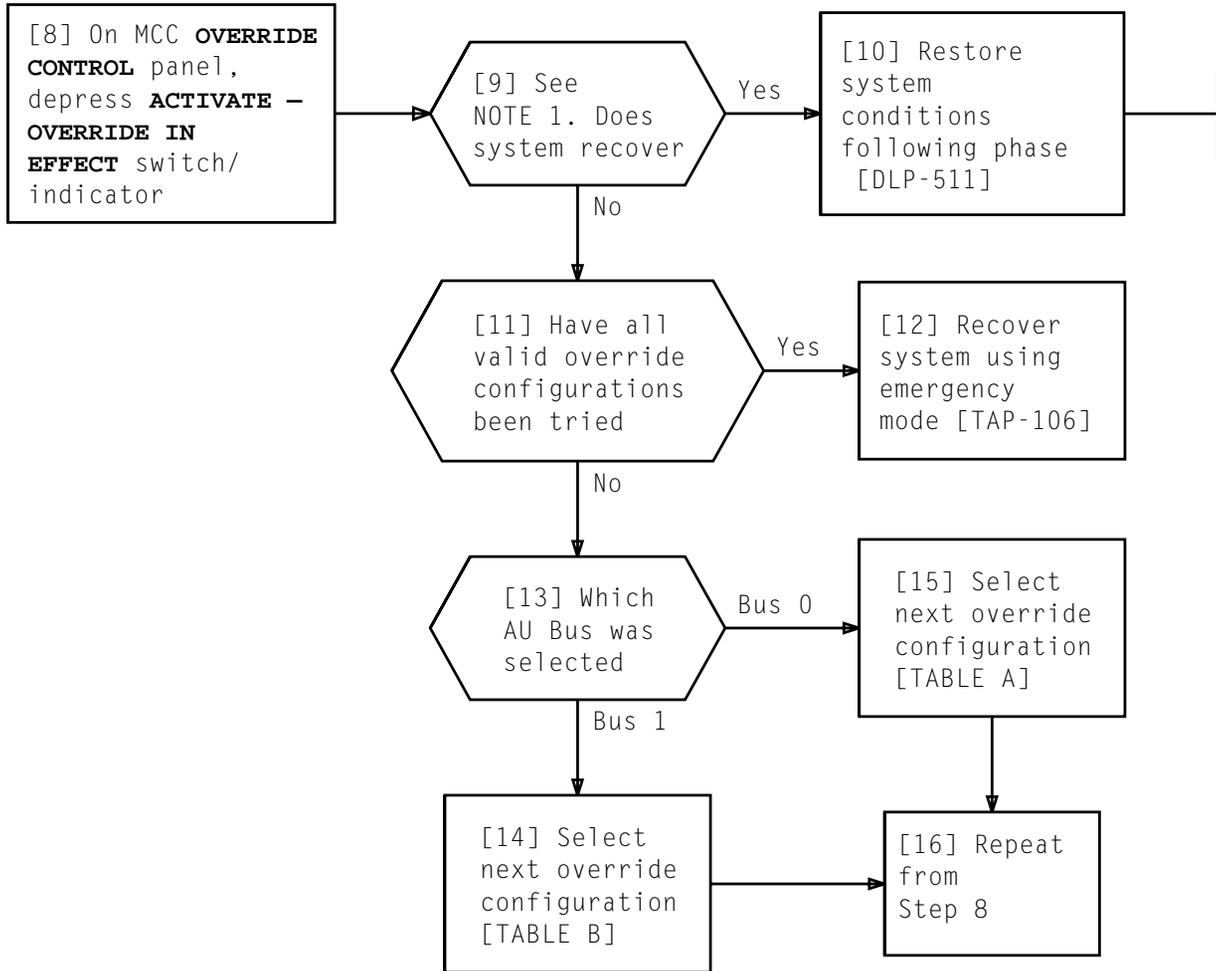


TABLE A VALID OVERRIDE CONFIGURATION AU BUS 0							
CONFIGURATION	OVERRIDE CONTROL LAMPS						
	CC 0	CC 1	PSB 0	PSB 1	BLOCK PS0	VARIABLE PS0	VARIABLE PS1
1	X		X		X		
2	X		X				X
3	X			X	X		
4		X		X		X	
5		X	X				X

TABLE B VALID OVERRIDE CONFIGURATION AU BUS 1							
CONFIGURATION	OVERRIDE CONTROL LAMPS						
	CC 0	CC 1	PSB 0	PSB 1	BLOCK PS0	VARIABLE PS0	VARIABLE PS1
1	X		X			X	
2	X			X		X	
3		X		X		X	
4		X		X	X		
5		X	X		X		

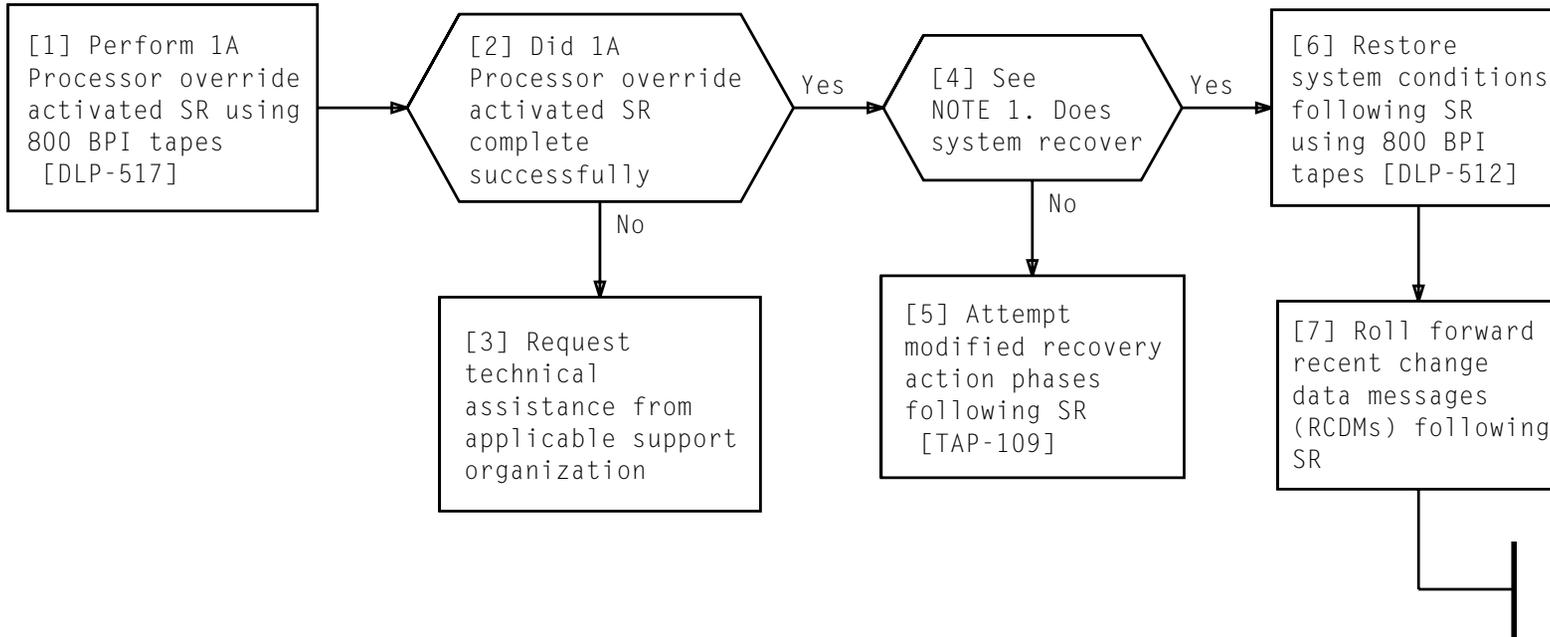
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NOTE 1
 System has recovered if following conditions have been met:

- A. On MCC **ROCESSOR CONFIGURATION SEQUENCER** panel, **ROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

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NOTE 1
System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

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RECOVER SYSTEM BY PERFORMING 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION (SR) USING 800 BPI TAPES

[1] On MCC **SYSTEM STATUS** panel, depress **RECENT CHANGE - RESTRICT RECENT CHANGES** switch/indicator

[2] See NOTE 1. Perform modified recovery action with **DIRECT DATA INSERT 0** switch/indicator selected [DLP-506]

[3] Follow phase progress by observing MCC **BINARY DISPLAY** lamps [FIG. 1]

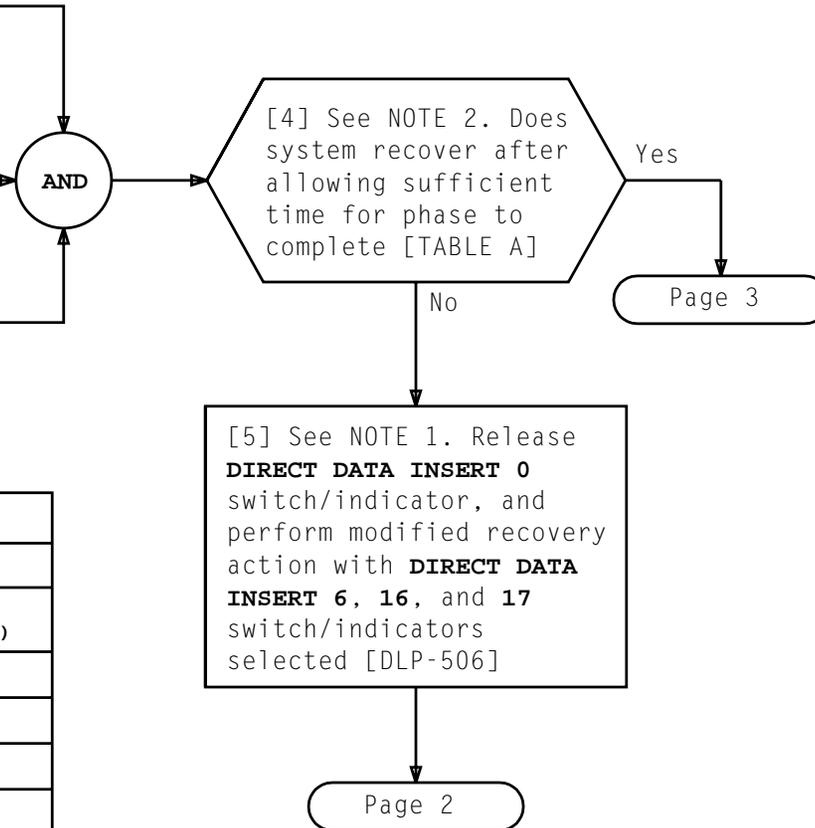
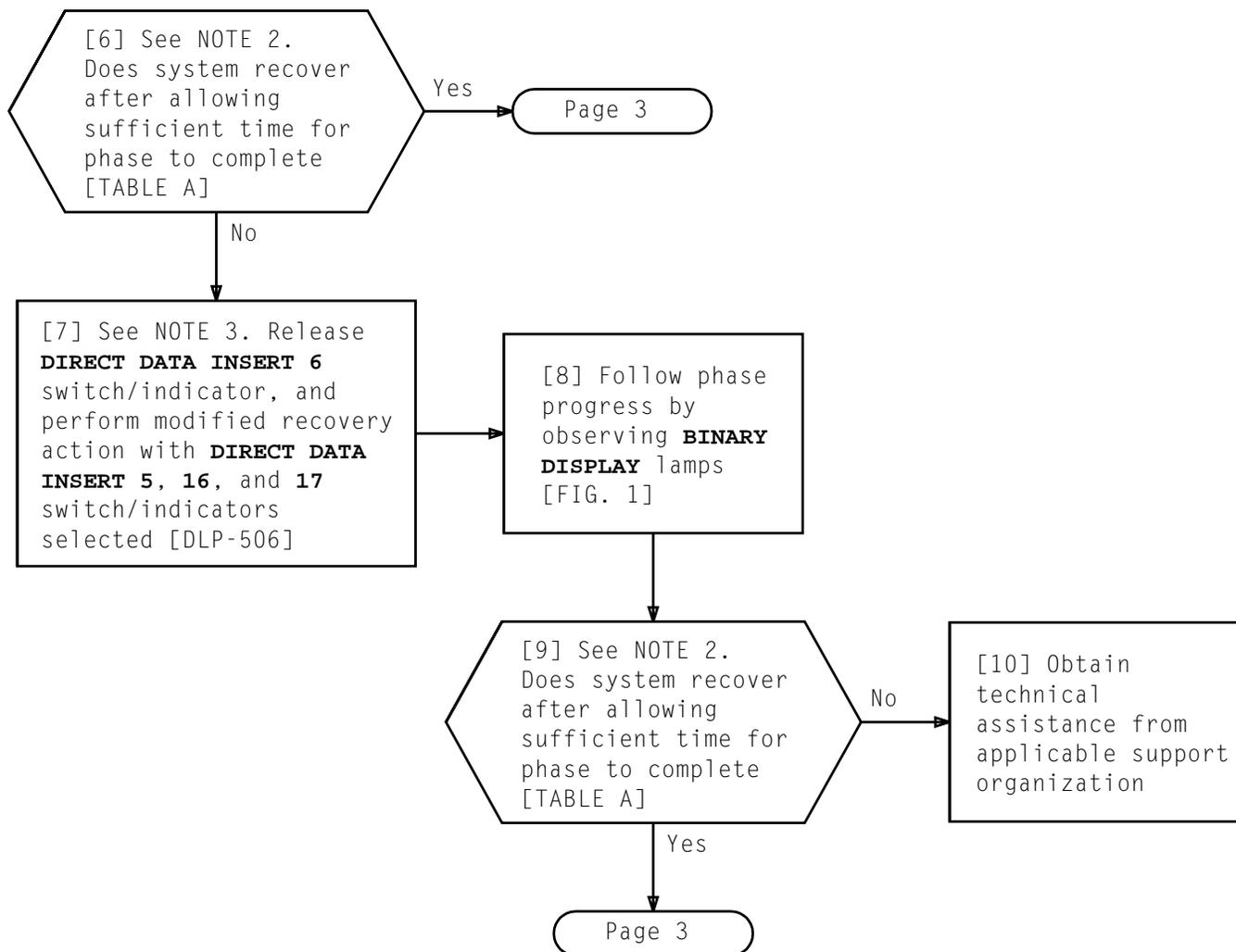


TABLE A		
APPROXIMATE PHASE TIMES*		
PHASE	BASIC TIME (SECS)	EXTRA TIME PER 10K TRUNKS (SECS)
1	1	—
2	9	4
3	11	20
4	9	15

* Phase times are dependent on call load, etc. However, approximate times can be determined as follows:
 Phase time = Basic time + (time per 10K trunk x number of 10K trunks)

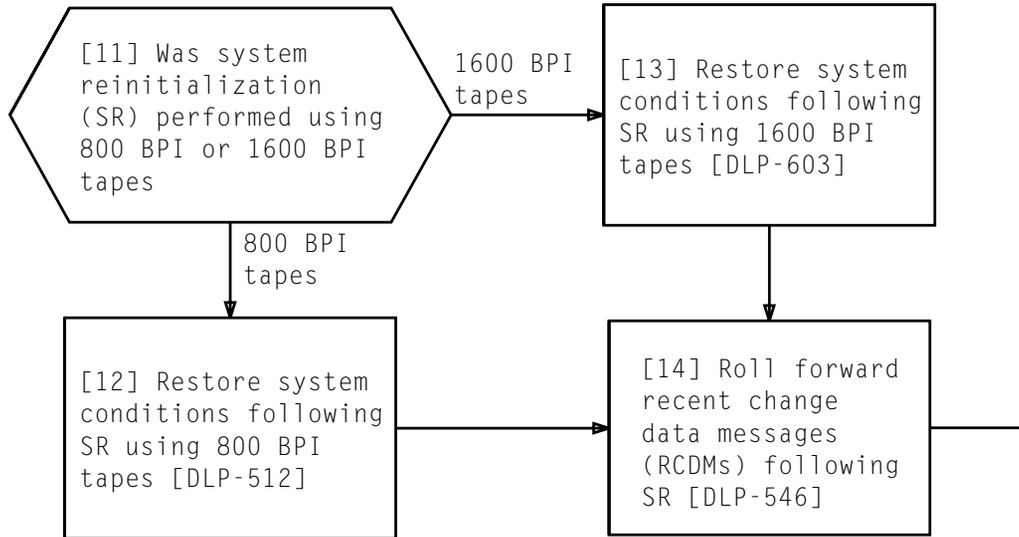
- NOTES
1. Functions of **DIRECT DATA INSERT** switch/indicators are:
 - 0 - Inhibits interrupts
 - 6 - Removes any network management controls in effect
 - 16 - Zeroes all CS and PS memory not backed up on disk
 - 17 - Skips hash sum calculations.
 2. System has recovered if following conditions have been met:
 - A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
 - B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
 - C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
 - D. Calls are being processed.

ATTEMPT MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)



NOTE 3	
Function of DIRECT DATA INSERT switch/indicator is:	
5 - Zeroes disk area specified by system integrity program	
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ATTEMPT MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)



ATTEMPT MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)

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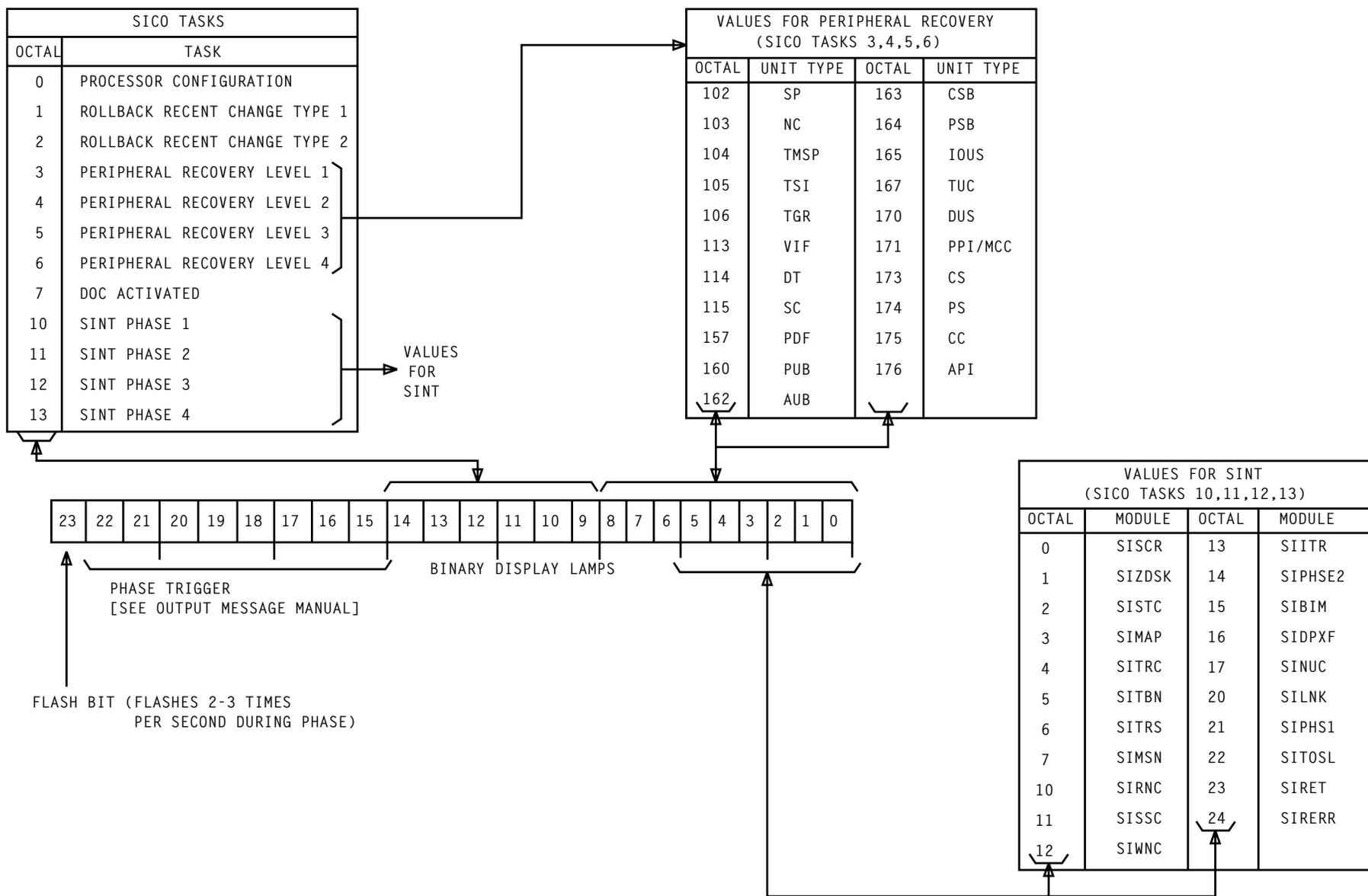


FIG. 1 - MCC Binary Display for Phases

**ATTEMPT MODIFIED RECOVERY ACTION PHASES FOLLOWING
SYSTEM REINITIALIZATION (SR)**

[1] At 3B Computer MCRT,
identify input message
and response received

[2] Using TABLE A, locate identified
input message and perform
corrective action listed

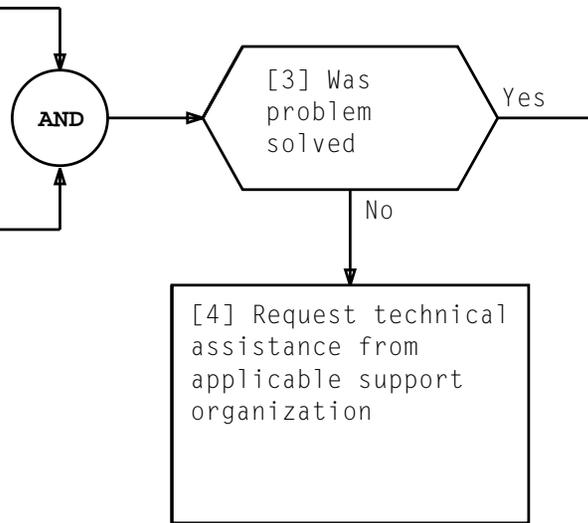


TABLE A		
INPUT MESSAGE	RESPONSE	CORRECTIVE ACTION
SET:AMA;STREAM	RL	Use input message CLR:FILESYS:FILE, FN"a" to delete the file. Create a new file using the SET:AMA;STREAM input message. If problem persists, contact applicable support organization.

TABLE A (Contd)		
INPUT MESSAGE	RESPONSE	CORRECTIVE ACTION
ABORT:AMATAPE ALW:AMA;AUTOST ALW:AMA;SESSION COPY:AMATAPE INH:AMA;AUTOST INH:AMA;SESSION OP:AMA;CONFIG OP:AMA;CONTROLFILE OP:AMA;DISK OP:AMA;SESSION OP:AMA;TELEPROCESSING SET:AMA;CONTROL STOP:AMATAPE VER:AMATAPE	RL	Use the OP:STATUS:PROCESS,ALL input message to get the process id of AMmon. If AMmon is running, use the STOP:EXC:USER input message to kill AMmon. If AMmon is not running, do an INIT:ULARP and OP:STATUS:PROCESS,ALL. If the problem persists, contact applicable support organization. Any tape or teleprocessing session that was in progress will have to be restarted after the monitor comes up. Also any AMA tape that was aborted can be saved and reused after the new expiration date on tape is met.
ABORT:AMATAPE ALW:AMA;AUTOST ALW:AMA;SESSION COPY:AMATAPE INH:AMA;AUTOST INH:AMA;SESSION OP:AMA;CONTROLFILE OP:AMA;CONFIG OP:AMA;DISK OP:AMA;SESSION OP:AMA;TELEPROCESSING SET:AMA;CONTROL STOP:AMATAPE VER:AMATAPE	NG	Check stream value entered, use the OP:AMA;STREAM to determine office configuration. Retype message with the correct stream specified. If the stream value is invalid, use the SET:AMA;STREAM to set the stream to the correct value.

CLEAR AUTOMATIC MESSAGE ACCOUNTING (AMA) INPUT MESSAGE RL OR NG RESPONSE PROBLEM

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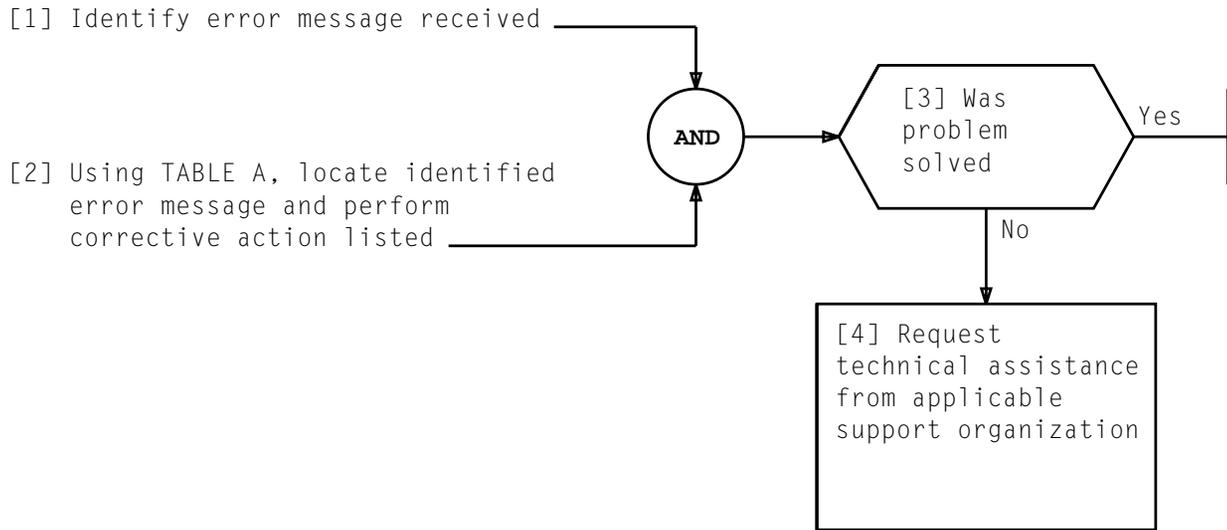


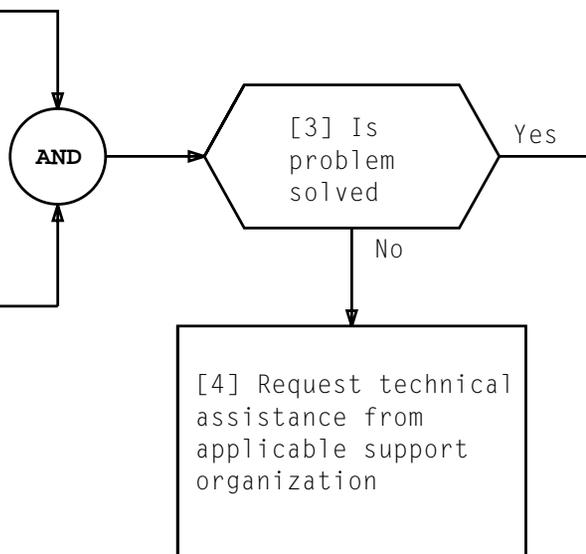
TABLE A	
ERROR MESSAGE	CORRECTIVE ACTION
Nonstandard tape labels	Return tape with explanation to RAO for erasure and relabeling. Mount, verify, and write new AMA tape.
Could not mark blocks secondary	Type and enter <code>OP:STATUS;PROCESS,ALLKERN!</code> message to ensure that AM data writer is running. If so, send tape to RAO for erasure and relabeling. If not, obtain technical assistance. Mount, verify, and write new AMA tape.
Tape has not expired	Type and enter <code>VER:AMATAPE!</code> message. If verify is successful, try writing tape again. If error persists, send tape to RAO for erasure and relabeling. If error does not recur, write is successful. If verify is not successful, act according to error indication. Mount, verify, and write new AMA tape.
(Continued on Page 2)	

TABLE A (Contd)

ERROR MESSAGE	CORRECTIVE ACTION
Tape aborted by operator	Return tape to RAO for erasure and relabeling. Find out why session was aborted, then decide if new tape should be written. If yes, mount, verify, and write new AMA tape.
Tape could not be opened	Check that tape is properly loaded on tape drive. If not, reload, verify, and write tape. If so, diagnose tape drive and act according to diagnosis. If tape drive is not usable, try different drive to write tape. If error persists on same tape, return to RAO for erasure, relabeling, or disposal.
Tape could not be closed	Return tape to RAO for erasure and relabeling. Mount, verify, and write new AMA tape. If error persists across different tapes, diagnose tape unit and take appropriate action.
Tape could not be read	Return tape to RAO with indication of problem stated. RAO should erase, relabel, and return tape to office. Mount, verify, and write new AMA tape. If error persists across different tapes, diagnose tape unit and take appropriate action.
Tape could not be written	Remove tape and check to see if write ring is installed. If not, install ring, remount, verify, and write same tape. If write ring is properly in place, diagnose tape drive and take appropriate action. If tape drive is not usable, try different one. If error persists on same tape, return tape to RAO for disposition.
Data is not retrievable	<p>Determine if tape write session deals with primary or secondary data. If primary, save tape for reuse. Type and enter OP:AMA;DISK! to obtain disk occupancy. Obtain technical assistance immediately. If data is secondary on disk and session is secondary, do following:</p> <ul style="list-style-type: none"> • Check that block numbers requested by RAO were entered correctly. If not, reenter COPY:AMATAPE message using correct block numbers. If block numbers were entered correctly, inform RAO that blocks requested are no longer available. • Give RAO sequence number of first available block of data; and if requested to do so by RAO, write another tape.

[1] See NOTE 1. From displayed response on 3B Computer MCRT, identify trouble report

[2] Using TABLE A, locate identified trouble report and perform corrective action listed



NOTE 1 When dealing with teleprocessing problems, close coordination should be maintained with HOC/RAO	
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TABLE A		
TROUBLE REPORT	REASON	CORRECTIVE ACTION
1A AUDIT STATES THAT AMA INTERFACE WAS INITIALIZED		Contact local support organization if this occurs more than once in a few minutes. Save printouts for analysis.
AIMCHECK a a = AMdwriter or AMarcvr pathname	FAILED TO CREATE PROCESS	Contact local support organization.
AMA CONTROL FILE AUDIT	<ul style="list-style-type: none"> DID NOT AUDIT [IC/OC] CONTROL FILE 	If AMA monitor is not running, use INIT:ULARP input message to restart it. If problem persists, contact local support organization.
	<ul style="list-style-type: none"> COULD NOT ATTACH TO PAS 	Contact local support organization.
	<ul style="list-style-type: none"> (FORMAT 2) 	Use the OP:STATUS:LISTDIR message to see if /dev/amacfile is there. If it is not there, contact local support organization. If it is there, use the OP:AMA;CONTROLFILE message to check the contents of the file. If any fields need changing, use SET:AMA;CONTROL, ALW:AMA, or INH:AMA input message to make appropriate changes.
AMA DISK READER a a = Variable test phrase		Save printouts for analysis. Contact local support organization.
(Continued on Page 3)		

TABLE A (Contd)

TROUBLE REPORT	REASON	CORRECTIVE ACTION
AMA DISK READER FOR [IC/OC] STREAM	END OF SESSION UPDATING OF DISK MAPS FAILED	Send tape to RAO for reissue. Tape should not be read by RAO. Mount and verify another tape. When good tape is ready to be written, use completion message printout to rewrite data as secondary. Use COPY:AMATAPE message specifying SECONDARY as type of data, setting SBLK as START BLOCK, and EBLK as END BLOCK. When writing is complete, send tape to RAO with indication that data is secondary.
AMA DISK WRITER	<ul style="list-style-type: none"> • TERMINATION CODE a a = Termination code number • FAULT CODE a a = Fault code number (Hex) 	Do not worry about intermittent cases. If problem persists, contact local support organization.
AMA FORMATTER	COULD NOT ENABLE MESSAGES	Contact local support organization.
	<ul style="list-style-type: none"> • LOST AN AMA RECORD - a a = Test phrase • JUST KILLED THE AMA RECEIVER 	Save printouts for analysis. If problem persists, contact local support organization.
AMA FORMATTER [IC/OC] RECORD LOST – CALL CODE a AT x'b		Dump data using input message DUMP:UID 1573,ADDR x'b,L 128! Contact local support organization.
AMA FORMATTER [IC/OC] CALL CODE a (Continued on Page 4)	STREAM INDICATOR DOES NOT ALLOW RECORD STREAM; RECORD IS BUFFERED IN THE SHARED SEGMENT	Use the OP:AMA;STREAM message to determine the stream indicator setting. If stream value is invalid, use the SET:AMA;STREAM message to correct the value. If a partition needs to be equipped, equip partition for stream as necessary. If problem persists, contact local support organization.

TABLE A (Contd)

TROUBLE REPORT	REASON	CORRECTIVE ACTION
AMA FORMATTER [IC/OC] SDS FULL	DISK WRITER FOR STREAM IS NOT RUNNING, OR OCCUPANCY IS 100 PERCENT FULL	Use the OP:STATUS;ALLKERNs input message to check if the streams disk writer is running. If it is not running, it must be restarted. If stream's disk occupancy is 100 percent, full-reduce disk occupancy
AMA FORMATTER [IC/OC] SDS PTRS ERROR LOAD a UNLOAD b	(SDS) SHARED SEGMENT LOAD OR UNLOAD POINTER OUT OF RANGE	Contact local support organization.
AMA FORMATTER [IC/OC] SDS SAVE ERROR AMA FORMATTER [LOAD/UNLOAD] PTR ERROR PAS a OFFSET b	INVALID AMA DATA SOME PROCESS OVERWRITTEN THE FORMATTED AMA DATA	Contact local support organization.
AMA FORMATTER PROCESS	<ul style="list-style-type: none"> • COULD NOT CONNECT TO ITS PORT • COULD NOT CONNECT PROTECTED AREA SEGMENT 1 OR 2 	Contact local support organization.
AMA MONITOR	CANNOT CREATE AMA MAINTENANCE FILE	Contact local support organization.
	<ul style="list-style-type: none"> • MAINTENANCE FILE INITIALIZED • SOME AMA MTC RECORDS UNREADABLE 	Contact local support organization if this happens once a day for 2 or 3 days consecutively. Save printouts for analysis.
AMA MONITOR FOR [IC/OC] STREAM INIT FAILED	<ul style="list-style-type: none"> • COULD NOT ATTACH TO PROTECTED APPLICATION SEGMENT • COULD NOT INITIALIZE STREAM FILE 	Contact local support organization.
(Continued on Page 5)	• SANITY TIMER RUNOUT TELEPROCESSING	Use OP:AMA;DISK and get disk space occupancy for HOC/RAO. Call HOC/RAO and request poll.
	TAPE	Send tape to HOC/RAO for reissue. Tape should not be read by RAO. Mount, verify, and write another tape.

TABLE A (Contd)

TROUBLE REPORT	REASON	CORRECTIVE ACTION
AMA MONITOR AMA SESSION ABORTED (Contd)	<ul style="list-style-type: none"> CONTROL FILE WAS AUDITED TELEPROCESSING 	Use OP:AMA;DISK and get disk space occupancy for HOC/RAO. Enter OP:AMA;CONTROL FILE message to examine all field entries. Correct any errors using SET:AMA;CONTROL message. Call HOC/RAO and request poll.
	TAPE	Send tape to HOC/RAO for reissue. Tape should not be read by RAO. Mount, verify, and write new tape
AMA MONITOR SANITY CHECK FAILURE	<ul style="list-style-type: none"> RECVW CALL FAILED BAD PROCESS TYPE PARAM. IN AM_START_PROC BAD TIMER INDEX PARA. IN AMSET_TIMER BAD TIMER DURATION PARAM. IN_AMSET_TIMER BAD TIME PARRAM. IN AMTIME_UNTIL 	If teleprocess session was in progress: Use OP:AMA;DISK to get disk space occupancy for HOC/RAO. Call HOC/RAO and request poll. If tape session was in progress: Send tape to HOC/RAO for reissue. Tape should not be read by RAO. Mount, verify, and write another tape.
(Continued on Page 6)	INTERNAL INCONSISTENCY FOLLOWING CONTROL FILE AUDIT	Enter OP:AMA;CONTROLFILE message and examine all field entries. Correct any errors using SET:AMA;CONTROL, or INH:AMA, or ALW:AMA message. If teleprocessing session was in progress: Use OP:AMA;DISK to get monitor disk space occupancy for HOC/RAO. Call HOC/RAO and request poll. If tape session was in progress: Send tape to HOC/RAO for reissue. Tape should not be read by RAO. Mount, verify, and write another tape.

TABLE A (Contd)

TROUBLE REPORT	REASON	CORRECTIVE ACTION
AMA RECEIVER	<ul style="list-style-type: none"> • COULD NOT DEVELOP RECEIVE BUFFER, PROCESS TERMINATING AND RESTARTING • RECEIVE BUFFER POINTER OUT OF RANGE, PROCESS TERMINATING AND RESTARTING • COULD NOT ATTACH TO MESSAGE HANDLER, PROCESS TERMINATING AND RESTARTING • FAULT THRESHOLD REACHED, PROCESS TERMINATING AND RESTARTING 	Contact local support organization.
AMA SESSION TERMINATED	ABNORMAL SESSION TERMINATION	Call HOC/RAO and request another poll. Monitor disk space occupancy to avoid overwrite. Give HOC/RAO disk occupancy and reported reason for termination. Make sure AMdwriter is running. Follow HOC/RAO operator instruction, or obtain technical assistance.
(Continued on Page 7)	INVALID SESSION CONNECT MESSAGE UNRECOGNIZABLE MESSAGE RECEIVED HIGHER LEVEL FAILURE	Use OP:OOS message to identify out-of-service units. If AMA data link or its controller is OOS, using RST:SDL or RST:SDLC message, call HOC/RAO and request another poll. Monitor disk space occupancy to avoid overwrite. If session still cannot be established, test for teleprocessing capability [DLP-557].
	<ul style="list-style-type: none"> • INCORRECT PASSWORD 	Use OP:AMA;CONTROLFILE message to check HOC password. If incorrect, use SET:AMA;CONTROL message to correct. Keep HOC/RAO informed about disk space occupancy and results of corrective action. IMPORTANT: Check with HOC/RAO and make sure they attempted poll. If not, notify security. If so, try another poll.

TABLE A (Contd)

TROUBLE REPORT	REASON	CORRECTIVE ACTION
AMA TAPE VERIFY (Contd)	<ul style="list-style-type: none"> • TAPE COULD NOT BE WRITTEN 	Remove tape from tape drive, and make sure write enable ring is installed. Install if necessary. Diagnose tape drive and if not usable, move to another. Mount and verify tape. If error persists in more than one tape, have tape unit diagnosed. Otherwise, send tape to RAO for reissue.
AMA TAPE VERIFY FOR [IC/OC] STREAM	COULD NOT ATTACH TO PAS	Retry verify tape and if problem persists, obtain technical assistance.
AMA TELEPROCESSING	<ul style="list-style-type: none"> • FAILED TO CREATE TEST FILE • FAILED TO WRITE ENTIRE TEST FILE • ERROR DURING OPEN OF AMA TEST FILE 	To resolve problems in this area, refer to TOP 254-301-812.
	<ul style="list-style-type: none"> • CANNOT CREATE MAINTENANCE FILE • ERROR DURING WRITE OF AMA MTC FILE 	Obtain technical assistance.
	<ul style="list-style-type: none"> • MAINTENANCE FILE INITIALIZED • SOME AMA MTC RECORDS UNREADABLE 	If this happens once a day for 2 or 3 days consecutively, obtain technical assistance. Save printouts for analysis.
AMA TELEPROCESSING FOR [IC/OC] STREAM	<ul style="list-style-type: none"> • FAILED TO ATTACH TO PAS 1 	Obtain technical assistance.
	<ul style="list-style-type: none"> • AMA DATA UNREADABLE - NEXT PARTITION OOS 	Send tape to RAO for processing, and obtain technical assistance.
AMA TELEPROCESSING HOC REJECTED SESSION	CHECK AMAT PASSWORD	Use OP:AMA;CONTROLFILE to identify value of AMAT password. If wrong, correct with SET:AMA;CONTROL message. Monitor disk space occupancy to avoid overwrite. Call HOC/RAO and request poll.
AMA TRANSFER BUFFER ALARM BUFFER IS a% FULL	3B COMPUTER RECEIVE BUFFER IS FULL, CU IS RESTORED, AND ALSO IF A SHARED SEGMENT IS FULL	Obtain technical assistance.

(Continued on Page 9)

TABLE A (Contd)

TROUBLE REPORT	REASON	CORRECTIVE ACTION
PRM yBxx 05xx xxxx xxxx xx xx xx		Obtain technical assistance.
SDL a (FORMATS 1, 2, 3) a = AMA data link member number		Call HOC/RAO and ask if they had just tried to poll the office. If so, inform them of problems with the AMA data links. If not, inform security.

[1] At 3B Computer Read-Only Printer,
identify message reporting problem

[2] Using TABLE A, locate identified message and
perform corrective action listed

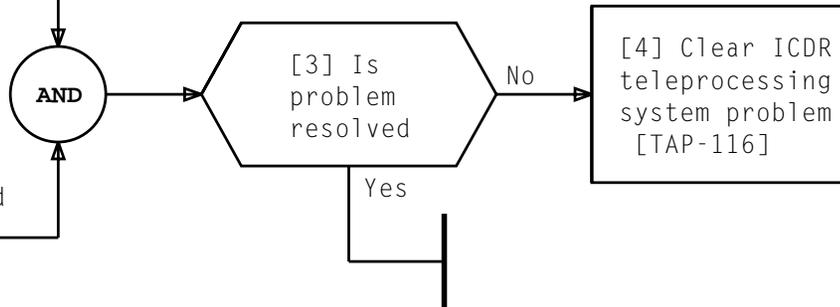


TABLE A	
MESSAGE	CORRECTIVE ACTION
REPT ICDR DISK STORAGE IS (70-89) PERCENT FULL REPT ICDR DISK STORAGE IS (90-99) PERCENT FULL	<ol style="list-style-type: none"> 1. Call the processing center, and request that a polling session be started as soon as possible. 2. Polling session should continue at least long enough to allow the occupancy to drop to the 87% level or, preferably, until the data level has reached a level that is normal for this time of day for this office.
REPT ICDR DISK STORAGE IS 100 PERCENT FULL	<ol style="list-style-type: none"> 1. Call the processing center and request that a polling session be started IMMEDIATELY. The oldest 1000 blocks of primary ICDR data will be overwritten when the occupancy reaches the 100% full level. 2. Polling session should continue at least long enough to allow the occupancy to drop to the 87% level or, preferably, until the data level has reached a level that is normal for this time of day for this office.
REPT ICDR MAJOR ALARM DOWNGRADED TO A MINOR ALARM REPT ICDR MINOR ALARM HAS BEEN RETIRED	<ol style="list-style-type: none"> 1. Continue polling until the occupancy level has reached a level that is "normal" for this time of day for this office.

**CLEAR ICDR TELEPROCESSING PROBLEM DISPLAYED AT 3B COMPUTER
READ-ONLY PRINTER**

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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
REPT ICDR SESSION TERMINATED (FORMAT 1) where this was an ABNORMAL SESSION TERMINATION	<ol style="list-style-type: none"> 1. Call processing center and set up another poll. 2. Continue monitoring the ICDR disk space occupancy using the OP:ICDR;DISK input message. 3. Be prepared to give the following information to processing center personnel: Current disk space occupancy Abnormal termination reason from printout. 4. Use the OP:STATUS:PROCESS,ALLKERNs input message to make sure INdwriter is running. (In the UTID column of the printout, INdwriter is 0x671.) If INdwriter is not running, seek technical assistance.
REPT ICDR UNABLE TO ESTABLISH SESSION	<ol style="list-style-type: none"> 1. Use the OP:OOS input message to see what units are out of service. 2. If the ICDR data link or the data link controller is out of service, restore it using the RST:SDL or RST:SDLC input commands, respectively. 3. Call processing center and set up another poll. 4. Continue monitoring disk space occupancy by using OP:ICDR;DISK input message. Be prepared to relate the current disk space occupancy to processing center personnel. 5. If the session still cannot be established, clear ICDR teleprocessing system problems [TAP-116]
REPT ICDR SESSION CONNECT FAILED REASON AMAT PORT UNAVAILABLE	<ol style="list-style-type: none"> 1. Use the OP:ICDR;CONTROLFILE input message to see what the polling window is set to. If it is wrong, use the SET:ICDR;CONTROL input message to correct it. In either case, continue to Step 2. 2. Using the data obtained from Step 1 above, make sure that ICDR sessions are allowed, not inhibited. The ALW:ICDR;SESSION input message can be used to allow ICDR sessions. 3. Enter the OP:ICDR;DISK input message to get the current ICDR disk space occupancy. 4. Call processing center and request a poll. Be prepared to give the processing center personnel the information obtained from the above steps.

**CLEAR ICDR TELEPROCESSING PROBLEM DISPLAYED AT 3B COMPUTER
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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
<p>REPT AMA/ICDR TRANSFER BUFFER ALARM 3B BUFFER IS x% FULL</p>	<ol style="list-style-type: none"> 1. Investigate any disk alarms that accompany this message. 2. Otherwise, use the <code>OP:STATUS:PROCESS,ALLKERNs</code> input message to make sure AMarcvr and AMformat are running. (In the UTID column of the printout, AMarcvr is 0x624; AMformat is 0x625.) If not, restart 3B computer processes [DLP-575]. 3. Use the same message to see if they are now running. If they are, watch for a message of alarm downgrade and eventually a message of alarm retiring. If they are not now running, go to Step 4. 4. Boot to the backup database [DLP-602]. 5. Check again to see that AMarcvr and AMformat are running. If so, no further actions are required. Otherwise, seek technical assistance.
<p>REPT ICDR MONITOR SANITY CHECK FAILURE INTERNAL INCONSISTENCY FOLLOWING CONTROL FILE AUDIT</p>	<ol style="list-style-type: none"> 1. Enter the <code>OP:ICDR;CONTROLFILE</code> input message. 2. Examine the fields and their values. Change any that are not correct by using the <code>SET:ICDR;CONTROL</code> and/or the <code>ALW:ICDR;SESSION</code> input message(s).
<p>REPT ICDR CONTROL FILE AUDIT (FORMAT 2)</p>	<ol style="list-style-type: none"> 1. Use the <code>OP:STATUS:LISTDIR</code> input message to see if /amafiles/infile exists and has a nonzero length. If these conditions are met, proceed to Step 4. If these conditions are not met, proceed to Step 2. 2. Use the <code>OP:STATUS:PROCESS,ALL</code> input message to get the process id for /ama/INmon. (In the UTID column of the printout, INmon is 0x674.) 3. Kill INmon unconditionally using the <code>STOP:EXC:ANY,PID a,UCL</code> input message and the process id from Step 2. After the REPT ICDR MONITOR INIT COMPLETE message appears, go to Step 4. 4. Enter the <code>OP:ICDR;CONTROLFILE</code> input message to dump the contents of the control file. 5. Check the contents of the file. If any fields are incorrect, change them using the <code>SET:ICDR;CONTROL</code>, <code>ALW:ICDR;SESSION</code>, or <code>INH:ICDR;SESSION</code> input messages.

**CLEAR ICDR TELEPROCESSING PROBLEM DISPLAYED AT 3B COMPUTER
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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
REPT AMA FORMATTER ICDR SDS FULL	<ol style="list-style-type: none"> 1. Use the <code>OP:STATUS:PROCESS,ALLKERNS</code> input message to make sure /ama/INdwriter is running. (In the UTID column of the printout, INdwriter is 0x671.) If it is running, go to Step 3. If it is not running, restart 3B computer processes [DLP-575] and then go to Step 2. 2. Check to make sure that INdwriter is now running. If it is, go to Step 3. If it is still not running, seek technical assistance immediately. 3. Use the <code>OP:ICDR;DISK</code> input message to determine the ICDR disk space occupancy. If it is above the 70% level, use procedure in this TABLE associated with the output message received.
REPT AIMCHECK a FAILED TO CREATE PROCESS a = INmon, INdwriter, INarcvr, or INformat pathname	<ol style="list-style-type: none"> 1. Verify character position 3 of the SYSTYPE field on the EAIOPT page of the 3B computer MCRT is set to "I" by verifying SYSTYPE field data [DLP-569]. In either case, go to the next step. 2. Enter message to make process executable <code>ALW:FILESYS:ACCESS "06755", FN "a"!</code> a = full pathname of file or directory 3. Restart 3B computer processes [DLP-575]. 4. Use the <code>OP:STATUS:PROCESS,ALLKERNS</code> input message to see if INdwriter, AMformat, and AMarcvr are now running. Use the <code>OP:STATUS:PROCESS,ALL</code> message to see if INmon is running. (In the UTID column of the printout, INdwriter is 0x671, AMarcvr is 0x624, AMformat is 0x625, and INmon is 0x674.) If they are all running, no further actions are required. If any of them are not running, go to Step 5. 5. Boot to the backup database [DLP-602]. 6. Check to see if INdwriter, AMformat, and AMarcvr are running now (<code>OP:STATUS:PROCESS,ALLKERNS</code>). Use the <code>OP:STATUS:PROCESS,ALL</code> message to see if INmon is running. If they are all running, no further actions are required. If any of them are still not running, seek technical assistance.

**CLEAR ICDR TELEPROCESSING PROBLEM DISPLAYED AT 3B COMPUTER
 READ-ONLY PRINTER**

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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION								
<p>REPT ICDR DISK WRITER TERMINATION CODE a a = Reason for termination</p>	<table border="1"> <thead> <tr> <th data-bbox="919 264 989 334">Term Code</th> <th data-bbox="1035 297 1913 334">Consequences/Actions To Be Taken</th> </tr> </thead> <tbody> <tr> <td data-bbox="947 345 968 370">1</td> <td data-bbox="1035 345 1976 467">Use the OP:STATUS:PROCESS,ALLKERNS input message to make sure INdwriter is running. (In the UTID column of the printout, INdwriter is 0x671.) If INdwriter is not running, seek technical assistance.</td> </tr> <tr> <td data-bbox="947 488 968 513">9</td> <td data-bbox="1035 488 1892 740">Verify that all the AMA partition device files have the correct LDIN. Use the OP:ICDR;CONFIG message to verify that all the partition sizes are correct in the configuration file. If they are incorrect, restore the configuration file from the backup copy. If they are still incorrect, verify that the VTOC on the AMA disks is correct.</td> </tr> <tr> <td data-bbox="932 761 968 786">22</td> <td data-bbox="1035 761 1934 1122">Both copies of the configuration file are unusable, so the disk writer does not know what partitions are equipped. Seek technical assistance to initialize the configuration file and reequip the partitions. NOTE: It may take several minutes after a boot for the AMA file systems to be mounted, during which time, the configuration files are inaccessible. This will cause one or more sets of error 18 and termination 22 messages before the boot is finished. These messages can be ignored unless they continue well past the completion of the boot.</td> </tr> </tbody> </table>	Term Code	Consequences/Actions To Be Taken	1	Use the OP:STATUS:PROCESS,ALLKERNS input message to make sure INdwriter is running. (In the UTID column of the printout, INdwriter is 0x671.) If INdwriter is not running, seek technical assistance.	9	Verify that all the AMA partition device files have the correct LDIN. Use the OP:ICDR;CONFIG message to verify that all the partition sizes are correct in the configuration file. If they are incorrect, restore the configuration file from the backup copy. If they are still incorrect, verify that the VTOC on the AMA disks is correct.	22	Both copies of the configuration file are unusable, so the disk writer does not know what partitions are equipped. Seek technical assistance to initialize the configuration file and reequip the partitions. NOTE: It may take several minutes after a boot for the AMA file systems to be mounted, during which time, the configuration files are inaccessible. This will cause one or more sets of error 18 and termination 22 messages before the boot is finished. These messages can be ignored unless they continue well past the completion of the boot.
Term Code	Consequences/Actions To Be Taken								
1	Use the OP:STATUS:PROCESS,ALLKERNS input message to make sure INdwriter is running. (In the UTID column of the printout, INdwriter is 0x671.) If INdwriter is not running, seek technical assistance.								
9	Verify that all the AMA partition device files have the correct LDIN. Use the OP:ICDR;CONFIG message to verify that all the partition sizes are correct in the configuration file. If they are incorrect, restore the configuration file from the backup copy. If they are still incorrect, verify that the VTOC on the AMA disks is correct.								
22	Both copies of the configuration file are unusable, so the disk writer does not know what partitions are equipped. Seek technical assistance to initialize the configuration file and reequip the partitions. NOTE: It may take several minutes after a boot for the AMA file systems to be mounted, during which time, the configuration files are inaccessible. This will cause one or more sets of error 18 and termination 22 messages before the boot is finished. These messages can be ignored unless they continue well past the completion of the boot.								
<p>REPT ICDR DISK WRITER FAULT CODE a a = Fault code number (Hex)</p>	<p>Do not be concerned about intermittent cases. If the problem persists, seek technical assistance.</p>								

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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION						
<p>REPT ICDR DISK WRITER ERROR CODE a a = Error code number</p>	<table border="1"> <thead> <tr> <th data-bbox="919 264 1018 332">Error Code</th> <th data-bbox="1035 297 1911 332">Consequences/Actions To Be Taken</th> </tr> </thead> <tbody> <tr> <td data-bbox="919 345 1018 876">6</td> <td data-bbox="1035 345 1911 876"> <p>Both copies of a partition's disk map were invalid (this message will always be preceded by a code 4 error). Both disk maps are initialized as a result, so any primary data that may have been on the partition is lost.</p> <p>Use the OP:ICDR;CONFIG message to verify that the partition's file name and size are correct. If incorrect, restore the primary copy of the configuration file from the backup copy; or use the SET:ICDR;CONFIG message to unequip the partition, then reequip the partition with the "NOINIT" option. If the size is still incorrect, the VTOC on the disk may be in error. Once the size is corrected, the "lost" data on the partition will probably reappear since the partition size is used to determine the location of the backup copy of the disk map which, therefore, would not have been initialized after the original error 6.</p> </td> </tr> <tr> <td data-bbox="919 885 1018 1347">9 to 13</td> <td data-bbox="1035 885 1911 1347"> <p>These indicate possible problems in the ECD. When the writer is accessing ECD to obtain the local time zone, errors 9, 11, or 12 are possible and may result in incorrect time stamps in the ICDR block headers. Errors 9, 11, and 13 are possible when the writer has received an IOBADMSG response from the disk driver and is checking whether that response is due to a duplex disk failure. In this context, error 9 or 13 will be followed by a termination message with term code 9. Error 11 may cause the disk pair to appear out-of-service to the disk writer even though the disk may actually be active; this will in turn cause an error 15, 16, or 17.</p> <p>Error 10 can occur in either of the above contexts but has no adverse effect on the operation of the disk writer.</p> </td> </tr> </tbody> </table>	Error Code	Consequences/Actions To Be Taken	6	<p>Both copies of a partition's disk map were invalid (this message will always be preceded by a code 4 error). Both disk maps are initialized as a result, so any primary data that may have been on the partition is lost.</p> <p>Use the OP:ICDR;CONFIG message to verify that the partition's file name and size are correct. If incorrect, restore the primary copy of the configuration file from the backup copy; or use the SET:ICDR;CONFIG message to unequip the partition, then reequip the partition with the "NOINIT" option. If the size is still incorrect, the VTOC on the disk may be in error. Once the size is corrected, the "lost" data on the partition will probably reappear since the partition size is used to determine the location of the backup copy of the disk map which, therefore, would not have been initialized after the original error 6.</p>	9 to 13	<p>These indicate possible problems in the ECD. When the writer is accessing ECD to obtain the local time zone, errors 9, 11, or 12 are possible and may result in incorrect time stamps in the ICDR block headers. Errors 9, 11, and 13 are possible when the writer has received an IOBADMSG response from the disk driver and is checking whether that response is due to a duplex disk failure. In this context, error 9 or 13 will be followed by a termination message with term code 9. Error 11 may cause the disk pair to appear out-of-service to the disk writer even though the disk may actually be active; this will in turn cause an error 15, 16, or 17.</p> <p>Error 10 can occur in either of the above contexts but has no adverse effect on the operation of the disk writer.</p>
Error Code	Consequences/Actions To Be Taken						
6	<p>Both copies of a partition's disk map were invalid (this message will always be preceded by a code 4 error). Both disk maps are initialized as a result, so any primary data that may have been on the partition is lost.</p> <p>Use the OP:ICDR;CONFIG message to verify that the partition's file name and size are correct. If incorrect, restore the primary copy of the configuration file from the backup copy; or use the SET:ICDR;CONFIG message to unequip the partition, then reequip the partition with the "NOINIT" option. If the size is still incorrect, the VTOC on the disk may be in error. Once the size is corrected, the "lost" data on the partition will probably reappear since the partition size is used to determine the location of the backup copy of the disk map which, therefore, would not have been initialized after the original error 6.</p>						
9 to 13	<p>These indicate possible problems in the ECD. When the writer is accessing ECD to obtain the local time zone, errors 9, 11, or 12 are possible and may result in incorrect time stamps in the ICDR block headers. Errors 9, 11, and 13 are possible when the writer has received an IOBADMSG response from the disk driver and is checking whether that response is due to a duplex disk failure. In this context, error 9 or 13 will be followed by a termination message with term code 9. Error 11 may cause the disk pair to appear out-of-service to the disk writer even though the disk may actually be active; this will in turn cause an error 15, 16, or 17.</p> <p>Error 10 can occur in either of the above contexts but has no adverse effect on the operation of the disk writer.</p>						

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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION										
<p>REPT ICDR DISK WRITER ERROR CODE a a = Error code number</p>	<table border="1"> <thead> <tr> <th data-bbox="913 264 1039 332">Error Code</th> <th data-bbox="1039 264 1921 332">Consequences/Actions To Be Taken</th> </tr> </thead> <tbody> <tr> <td data-bbox="913 341 1039 406">9 to 13 (Contd)</td> <td data-bbox="1039 341 1921 503">Error 13 may also be caused by an invalid device file for one of the AMA partititons (eg, pointing to a nonexistent disk). Verify that all the AMA partition device file LDIN's are correct.</td> </tr> <tr> <td data-bbox="913 511 1039 682">14</td> <td data-bbox="1039 511 1921 682">Use the OP:ICDR;CONFIG message to verify that the partition name is correct. If incorrect, restore the configuration file from the backup copy. If correct, verify that the partition's device file exists in the /dev directory.</td> </tr> <tr> <td data-bbox="913 690 1039 1079">15 to 17</td> <td data-bbox="1039 690 1921 1079"> <p>If not preceded by an error 11 message, the disk pair containing the partition is probably duplex failed.</p> <p>For error 15, it is also possible that the partition's device file is incorrect.</p> <p>Error 16 may cause an ICDR session in progress to be aborted if the disk writer was attempting to update the disk map for the disk reader.</p> <p>Error 17 may result in a small sequence gap when the disk pair is restored to service and the ICDR data is transmitted.</p> </td> </tr> <tr> <td data-bbox="913 1088 1039 1323">18 to 20</td> <td data-bbox="1039 1088 1921 1323">These errors indicate a problem with ICDR configuration file or one of the AMA file systems. The disk writer will automatically attempt to use the backup copy of the configuration file if the primary copy is unusable. If both are unusable, the writer will terminate with term code 22.</td> </tr> </tbody> </table>	Error Code	Consequences/Actions To Be Taken	9 to 13 (Contd)	Error 13 may also be caused by an invalid device file for one of the AMA partititons (eg, pointing to a nonexistent disk). Verify that all the AMA partition device file LDIN's are correct.	14	Use the OP:ICDR;CONFIG message to verify that the partition name is correct. If incorrect, restore the configuration file from the backup copy. If correct, verify that the partition's device file exists in the /dev directory.	15 to 17	<p>If not preceded by an error 11 message, the disk pair containing the partition is probably duplex failed.</p> <p>For error 15, it is also possible that the partition's device file is incorrect.</p> <p>Error 16 may cause an ICDR session in progress to be aborted if the disk writer was attempting to update the disk map for the disk reader.</p> <p>Error 17 may result in a small sequence gap when the disk pair is restored to service and the ICDR data is transmitted.</p>	18 to 20	These errors indicate a problem with ICDR configuration file or one of the AMA file systems. The disk writer will automatically attempt to use the backup copy of the configuration file if the primary copy is unusable. If both are unusable, the writer will terminate with term code 22.
Error Code	Consequences/Actions To Be Taken										
9 to 13 (Contd)	Error 13 may also be caused by an invalid device file for one of the AMA partititons (eg, pointing to a nonexistent disk). Verify that all the AMA partition device file LDIN's are correct.										
14	Use the OP:ICDR;CONFIG message to verify that the partition name is correct. If incorrect, restore the configuration file from the backup copy. If correct, verify that the partition's device file exists in the /dev directory.										
15 to 17	<p>If not preceded by an error 11 message, the disk pair containing the partition is probably duplex failed.</p> <p>For error 15, it is also possible that the partition's device file is incorrect.</p> <p>Error 16 may cause an ICDR session in progress to be aborted if the disk writer was attempting to update the disk map for the disk reader.</p> <p>Error 17 may result in a small sequence gap when the disk pair is restored to service and the ICDR data is transmitted.</p>										
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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION						
<p>REPT ICDR DISK WRITER ERROR CODE a a = Error code number</p>	<table border="0"> <tr> <td data-bbox="936 269 1024 331">Error Code</td> <td data-bbox="1052 298 1927 331"><u>Consequences/Actions To Be Taken</u></td> </tr> <tr> <td data-bbox="919 347 1041 409">18 to 20 (Contd)</td> <td data-bbox="1052 376 1940 980"> <p>If the problem is with the primary copy, restore the primary copy from the backup copy. If the problem is with the backup copy, then both copies must be initialized and all partitions reequipped from scratch (be sure to use the "NOINIT" option so the partitions disk maps are not initialized). Seek technical assistance for this procedure.</p> <p>If the primary copy cannot be opened or read, the disk reader will probably be unable to access it also, which will prevent ICDR sessions from starting up (the disk reader does not access the backup copy).</p> <p>NOTE: It may take several minutes after a boot for the AMA file systems to be mounted, during which time, the configuration files are inaccessible. This will cause one or more sets of error 18 and termination 22 messages before the boot is finished. These messages can be ignored unless they continue well past the completion of the boot.</p> </td> </tr> <tr> <td data-bbox="919 984 1041 1013">21 to 26</td> <td data-bbox="1052 1016 1969 1305"> <p>These errors indicate a problem with the ICDR global map or one of the AMA file systems. The disk writer always opens both copies, but only reads the backup copy if there is a problem with the primary copy. Both copies are updated whenever the disk writer updates the global map. If the open of either copy fails (error 21), the disk writer will try to recreate it. If the create also fails, it will reattempt the create the next time it updates the global map.</p> </td> </tr> </table>	Error Code	<u>Consequences/Actions To Be Taken</u>	18 to 20 (Contd)	<p>If the problem is with the primary copy, restore the primary copy from the backup copy. If the problem is with the backup copy, then both copies must be initialized and all partitions reequipped from scratch (be sure to use the "NOINIT" option so the partitions disk maps are not initialized). Seek technical assistance for this procedure.</p> <p>If the primary copy cannot be opened or read, the disk reader will probably be unable to access it also, which will prevent ICDR sessions from starting up (the disk reader does not access the backup copy).</p> <p>NOTE: It may take several minutes after a boot for the AMA file systems to be mounted, during which time, the configuration files are inaccessible. This will cause one or more sets of error 18 and termination 22 messages before the boot is finished. These messages can be ignored unless they continue well past the completion of the boot.</p>	21 to 26	<p>These errors indicate a problem with the ICDR global map or one of the AMA file systems. The disk writer always opens both copies, but only reads the backup copy if there is a problem with the primary copy. Both copies are updated whenever the disk writer updates the global map. If the open of either copy fails (error 21), the disk writer will try to recreate it. If the create also fails, it will reattempt the create the next time it updates the global map.</p>
Error Code	<u>Consequences/Actions To Be Taken</u>						
18 to 20 (Contd)	<p>If the problem is with the primary copy, restore the primary copy from the backup copy. If the problem is with the backup copy, then both copies must be initialized and all partitions reequipped from scratch (be sure to use the "NOINIT" option so the partitions disk maps are not initialized). Seek technical assistance for this procedure.</p> <p>If the primary copy cannot be opened or read, the disk reader will probably be unable to access it also, which will prevent ICDR sessions from starting up (the disk reader does not access the backup copy).</p> <p>NOTE: It may take several minutes after a boot for the AMA file systems to be mounted, during which time, the configuration files are inaccessible. This will cause one or more sets of error 18 and termination 22 messages before the boot is finished. These messages can be ignored unless they continue well past the completion of the boot.</p>						
21 to 26	<p>These errors indicate a problem with the ICDR global map or one of the AMA file systems. The disk writer always opens both copies, but only reads the backup copy if there is a problem with the primary copy. Both copies are updated whenever the disk writer updates the global map. If the open of either copy fails (error 21), the disk writer will try to recreate it. If the create also fails, it will reattempt the create the next time it updates the global map.</p>						

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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
<p>REPT ICDR DISKWRITER ERROR CODE a a = Error code number</p>	<p>Error Code <u>Consequences/Actions To Be Taken</u></p> <p>21 to 26 (Contd) If a create or write fails for the primary copy of the global map, the disk reader will probably be unable to access it also, which will prevent ICDR sessions from starting up (the disk reader does not access the backup copy).</p> <p>If error 26 appears, neither copy of the global map was usable, so the disk writer reconstructs the global map by looking at the individual disk maps to determine where reading and writing left off. The probability of the reconstructed map being right depends on how many partitions are in service. If all are in service, so that their disk maps are available, the rebuild map will probably be correct. The more that are out of service, the lower the probability. An incorrect global map may result in data being transmitted out of order, sequence number gaps or duplication, and an unexpected change in the disk occupancy value.</p> <p>27 This error indicates that the configuration file was initialized somehow (ie, the partition equipage information was zeroed). Restore the configuration file from the backup copy. If the error still occurs, the partitions must be reequipped from scratch. To do this, use the SET:ICDR;CONFIG input message with the NOINIT option specified.</p>
<p>REPT ICDR DISK READER α a = Text phrase</p>	<p>1. Seek technical assistance. 2. Save printouts for analysis and information purposes.</p>
<p>REPT ICDR TELEPROCESSING SUMMARY (Format 2)</p>	<p>1. Use the OP:ICDR;TELEPROCESSING input message to print out the summary information</p>

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MESSAGE	CORRECTIVE ACTION
REPT ICDR TELEPROCESSING FAILED TO ATTACH TO PAS	1. Move the backup copy of /ama/INftp from broot to root.
REPT ICDR TELEPROCESSING ICDR DATA UNREADABLE NEXT PARTITION OOS	<ol style="list-style-type: none"> 1. Check to see if the disk pair being read is duplex failed. If so, the duplex fail condition must be resolved before teleprocessing can continue. 2. If the disk pair is not duplex failed, the special device file name for the next partition does not exist. In this case, enter the <code>OP:ICDR;MAPS</code> input message to determine the current read partition. Then, enter the <code>OP:ICDR;CONFIG</code> input message; and look for the read partition in the output. The printout also gives the special device file name for the partition. This name should be used to recreate the special device file.
REPT AMA FORMATTER ICDR SDS PTRS ERROR LOAD a UNLOAD b REPT AMA FORMATTER ICDR SDS SAVE ERROR	<ol style="list-style-type: none"> 1. If this problem persists, move the backup copy of /ama/AMformat from the broot partition to the root partition. 2. Use the <code>OP;STATUS;PROCESS,ALLKERNS</code> input message to get the process id of /ama/AMformat. (In the UTID column of the printout, AMformat is 0x625.) 3. Use the process id from Step 2 to kill AMformat unconditionally using the <code>STOP:EXC:ANY,PID a,UCL</code> input message. 4. If the problem still persists, boot to the backup database [DLP-577].
REPT ICDR CONFIG FILE a a = Text phase	<p>If text phrase "a" is one of the following: OC CONFIG FILE COULD NOT BE OPENED/READ/WRITTEN IC CONFIG FILE COULD NOT BE OPENED/READ/WRITTEN ICDR CONFIG FILE COULD NOT BE OPENED/READ/WRITTEN CONFIG FILE COULD NOT BE OPENED/READ/WRITTEN</p> <p>Perform the following action: Restore the specified configuration file from the backup copy. If the message does not specify which stream's configuration file caused the problem, restore the configuration of the stream (ICDR, OC, or IC) named in the first line of the output message.</p>

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MESSAGE	CORRECTIVE ACTION
<p>REPT ICDR CONFIG FILE a a = Text phase</p>	<p>If text phrase "a" is one of the following: COULD NOT ATTACH TO ECD DATABASE COULD NOT RETRIEVE ECD ORIGIN RECORD COULD NOT RELEASE ECD DATABASE COULD NOT OBTAIN INFORMATION ABOUT THE PARTITION INVALID SPECIAL DEVICE TYPE DEVICE DOES NOT HAVE MAJOR/MINOR NUMBERS COULD NOT RETRIEVE MDCT RECORD COULD NOT RETRIEVE UCB RECORD NO UCB FOR THE DEVICE</p> <p>Perform the following action: These indicate problems in the ECD or an invalid device file for the partition being equipped. Seek technical assistance to check the device files and to verify that the ECD information for the AMA disks is correct.</p> <p>If text phrase "a" is one of the following: INVALID ERROR CODE RECEIVED VTOC FILE COULD NOT BE OPENED VTOC FILE COULD NOT BE READ</p> <p>Perform the following action: Seek technical assistance.</p>
<p>REPT ICDR DISK MAPS a a = Text phrase</p>	<p>If text phrase "a" is one of the following: TEMPORARY FILE COULD NOT BE CREATED</p> <p>Perform the following action: Seek technical assistance to remove any unnecessary files under the /tmp directory.</p>

TABLE A (Contd)

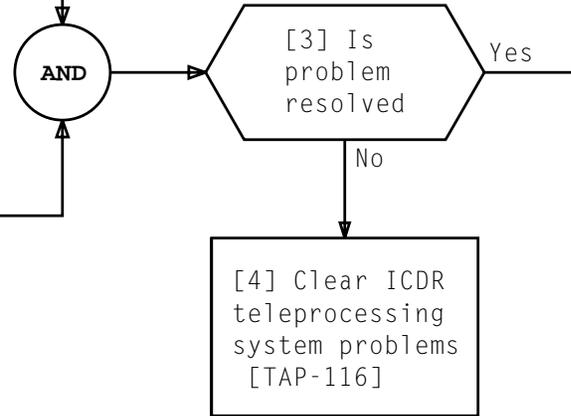
MESSAGE	CORRECTIVE ACTION
<p>REPT ICDR DISK MAPS a a = Text phrase</p>	<p>If text phrase "a" is one of the following: COULD NOT OPEN CONFIG FILE COULD NOT READ CONFIG FILE Perform the following action: Restore the ICDR configuration file from the backup copy.</p> <p>If text phrase "a" is one of the following: GLOBAL MAP NOT AVAILABLE GLOBAL MAP NOT READABLE Perform the following action: Restore the ICDR global map from the backup copy.</p> <p>If text phrase "a" is one of the following: DISK MAP UNAVAILABLE DISK MAP NOT READABLE Perform the following action: No action is required since the disk writer will attempt to correct this situation the next time it reads the disk map.</p>

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[1] At MTC channel, identify message reporting problem

[2] Using TABLE A, locate identified message and perform corrective action listed



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TABLE A

MESSAGE	CORRECTIVE ACTION
<p>REPT AMA/ICDR TRANSFER TO 3B HALTED DATA MAY SOON BE LOST REPT AMA/ICDR 1A TRANSFER BUFFER OVERFLOW AMA/ICDR INFORMATION RECORDING HALTED</p>	<ol style="list-style-type: none"> 1. Check to see if any of the following conditions are present: <ul style="list-style-type: none"> - 3B duplex failed - 3B AMA disks are duplex failed - APIs are duplex failed - AU bus is duplex failed - ICDR disk partition is 100% full. If any of the above conditions are present, follow existing procedures to clear the problem. 2. If the above conditions are not present, use the OP:STATUS:PROCESS,ALLKERNS input message to get the process id of /ama/AMarcvr, /ama/AMformat, and /ama/INdwriter. (In the UTID column of the printout, AMarcvr is 0x624, AMformat is 0x625, and INdwriter is 0x671.) 3. Verify character position 3 of the SYSTYP field on the EAIOPT page of the 3B Computer MCRT is set to "I" by verifying SYSTYPE field data [DLP-569]. In either case, go to the next step. 4. Enter the STOP:EXC:ANY input message to kill /ama/INdwriter, /ama/AMformat, and /ama/AMarcvr. 5. Use the OP:STATUS:PROCESS,ALLKERNS input message to make sure all three processes are running. If any of the processes are not running, restart 3B computer processes [DLP-575]. Obtain technical assistance immediately if any processes are still not running. If all three processes are running, no further actions are necessary. <p>NOTE: When data begins moving through the system again the BILLING RECORDING STOPPED lamp on MCC will be extinguished and REPT AMA/ICDR RECORDING RESTARTED message will be printed.</p>
<p>1A audit message with the following phrase: AMA/ICDR INTERFACE REINITIALIZED</p>	<ol style="list-style-type: none"> 1. If this happens more than once in a few minutes, seek technical assistance immediately. 2. Save printouts for analysis purposes.

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[1] At MTC channel, identify message receiving a RL response

[2] Using TABLE A, locate identified message and perform corrective action listed

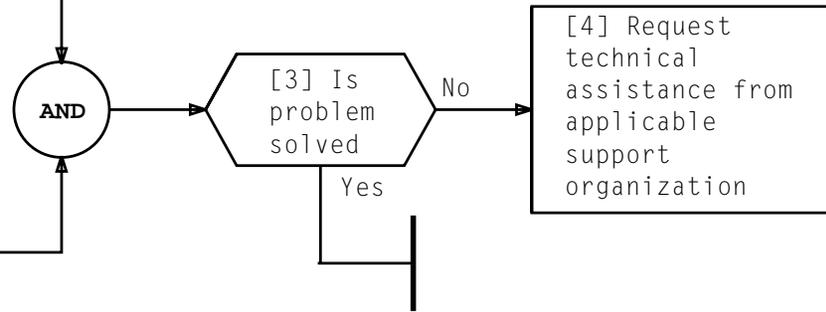
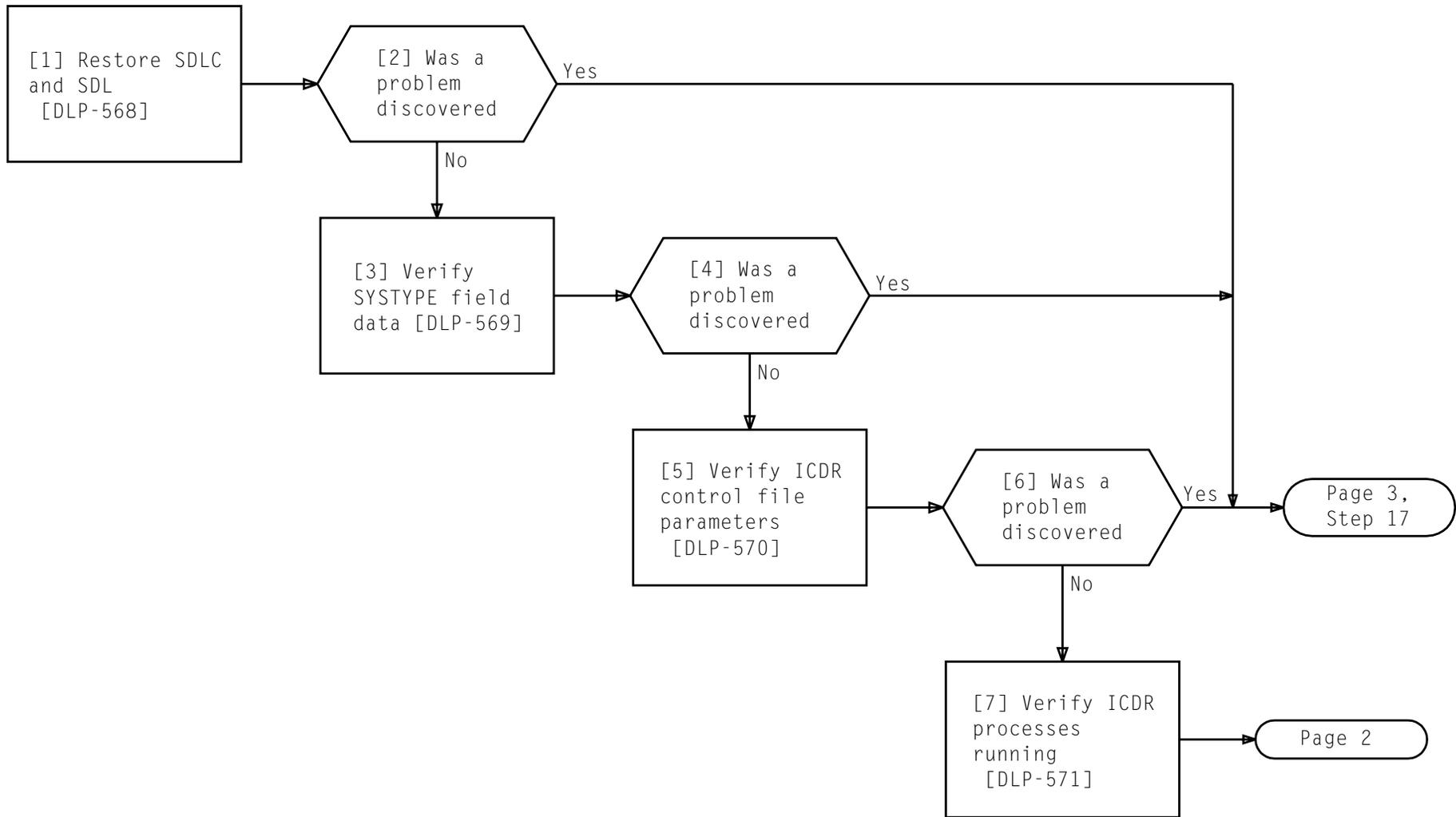


TABLE A

INPUT MESSAGE	CORRECTIVE ACTION
ALW:ICDR;SESSION INH:ICDR;SESSION SET:ICDR;CONTROL OP:ICDR;TELEPROCESSING OP:ICDR;DISK OP:ICDR;SESSION OP:ICDR;CONTROLFILE OP:ICDR;CONFIG OP:ICDR;MAPS OP:ICDR;RECORDING	<ol style="list-style-type: none"> 1. Verify character position 3 of the SYSTYPE field on the EAIOPT page of the 3B Computer MCRT is set to "I" by verifying SYSTYPE field data [DLP-591]. In either case, go to the next step. 2. Use the OP:STATUS:PROCESS,ALL input message to get the process id of /ama/INmon. (In the UTID column of the printout, INmon is 0x674.) If INmon is running, use the STOP:EXC:ANY,PID a,UCL input message to kill it unconditionally. 3. Restart 3B Computer processes [DLP-575]. 4. After the REPT ICDR MONITOR INIT COMPLETE message appears, try the OP:STATUS:PROCESS,ALL input message again. 5. If the problem persists, obtain technical assistance.
SET:ICDR;RECORDING	<ol style="list-style-type: none"> 1. Enter the following input message to delete the recording indicator file: CLR:FILESYS:FILE,FN "/amafiles/recind" 2. Create a new /amafiles/recind file. 3. Reenter SET:ICDR;RECORDING message. 4. If the problem persists, load the backup copy of the input message (SET:ICDR;RECORDING) process from broot and try again.

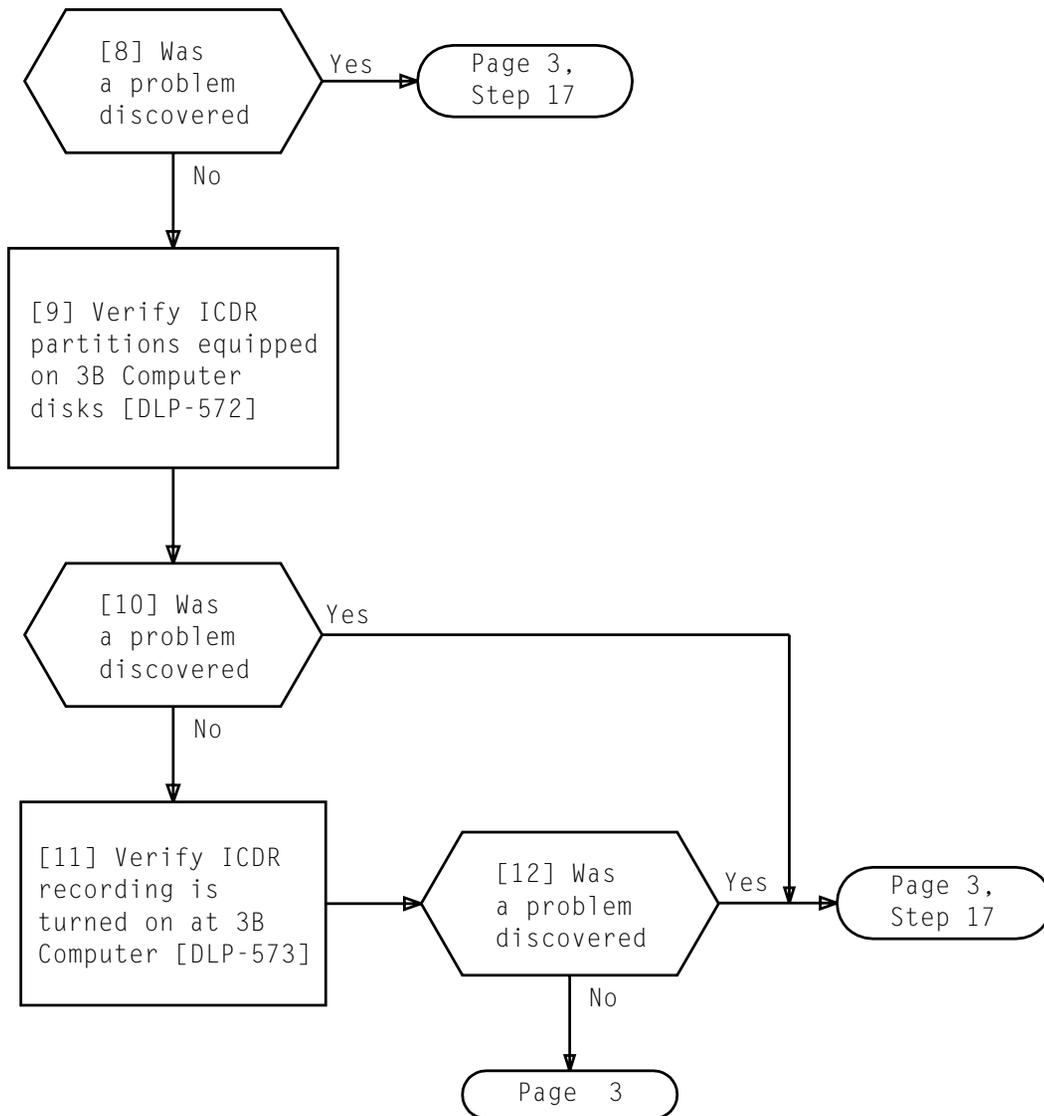
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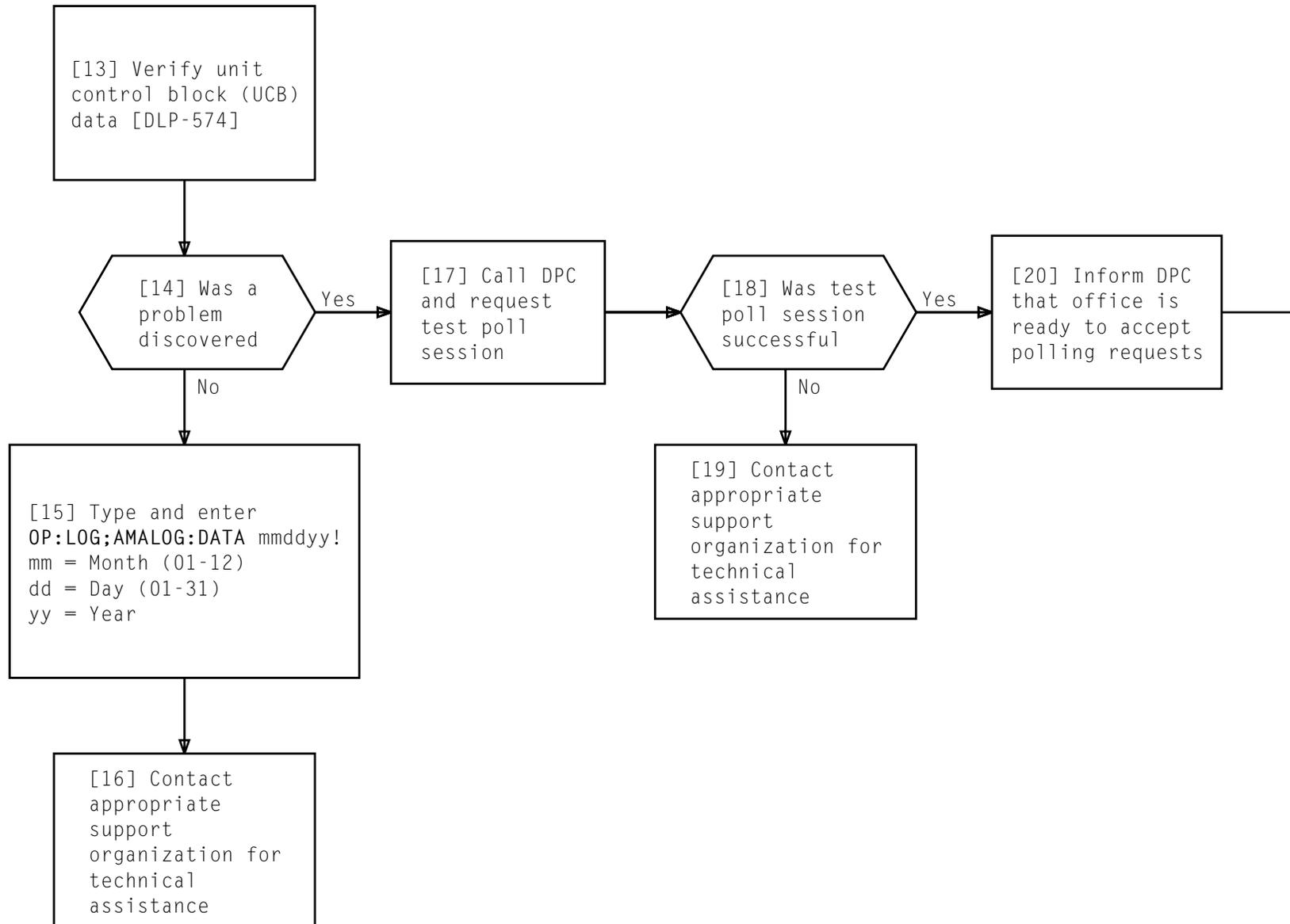
CLEAR ICDR TELEPROCESSING SYSTEM PROBLEM

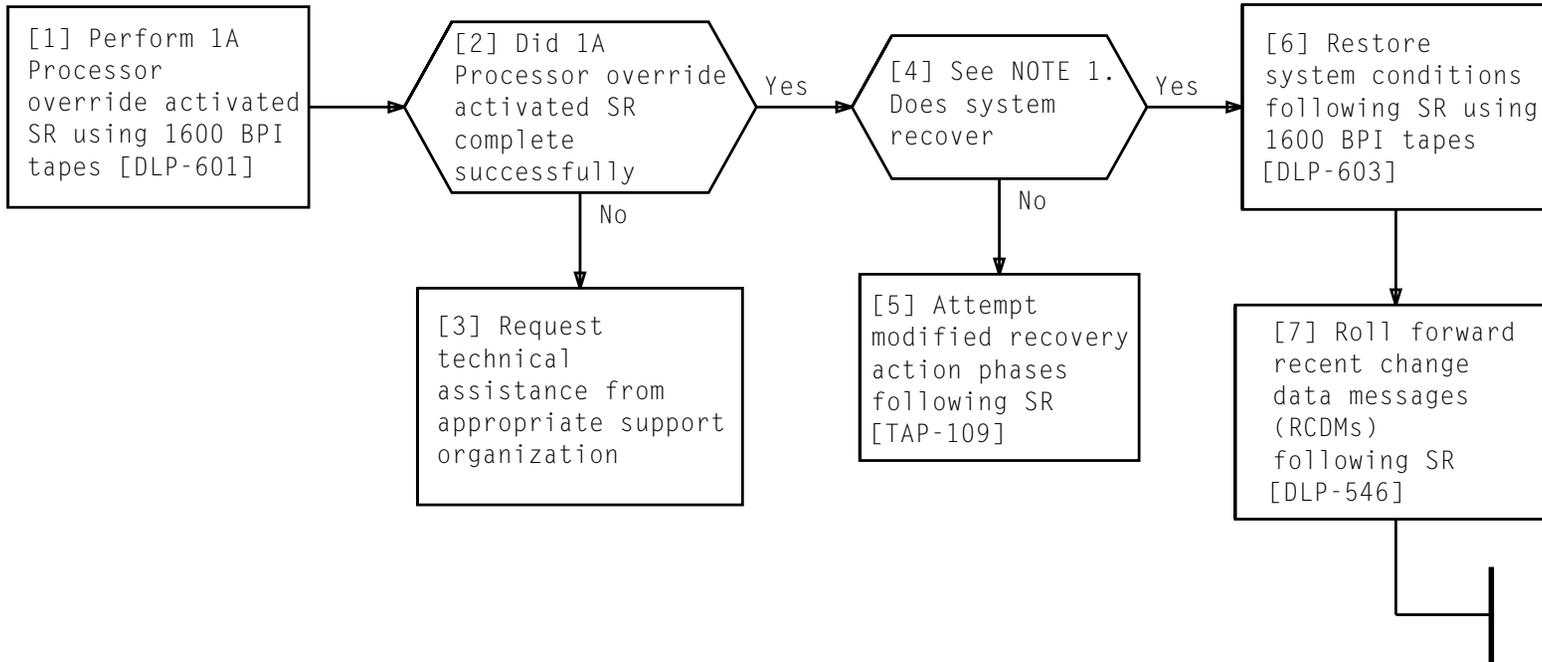
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CLEAR ICDR TELEPROCESSING SYSTEM PROBLEM

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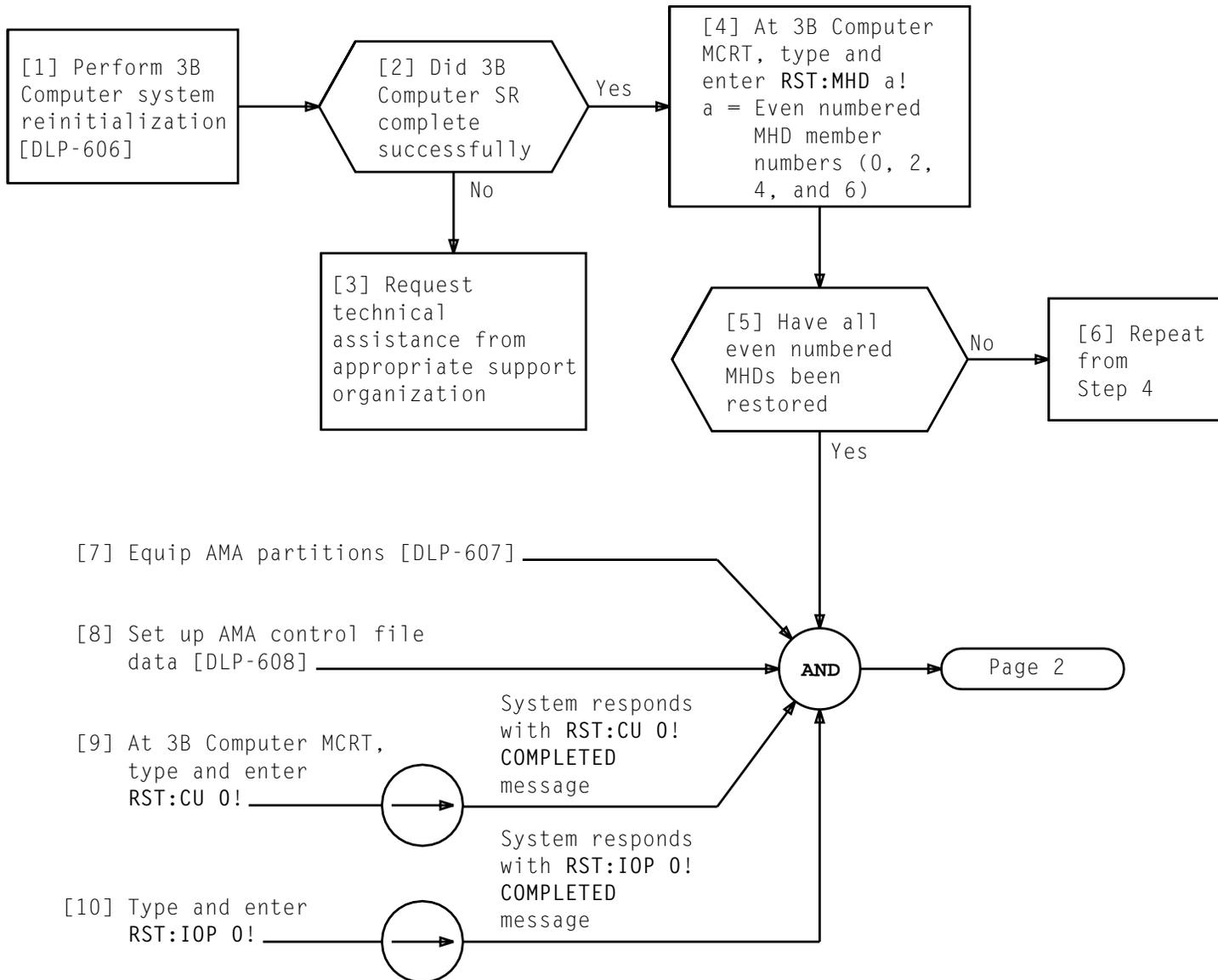


NOTE 1
System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIGURATION COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

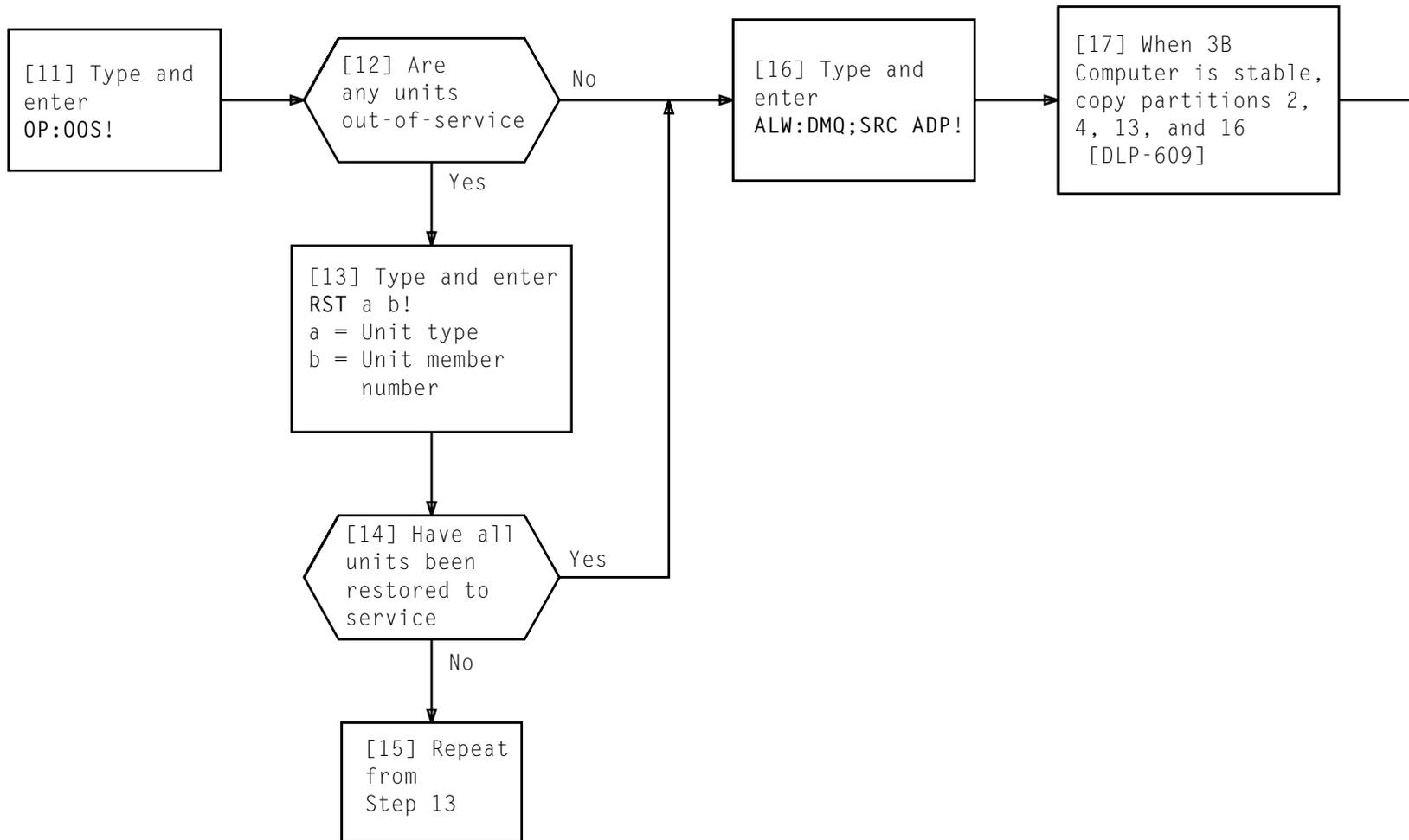
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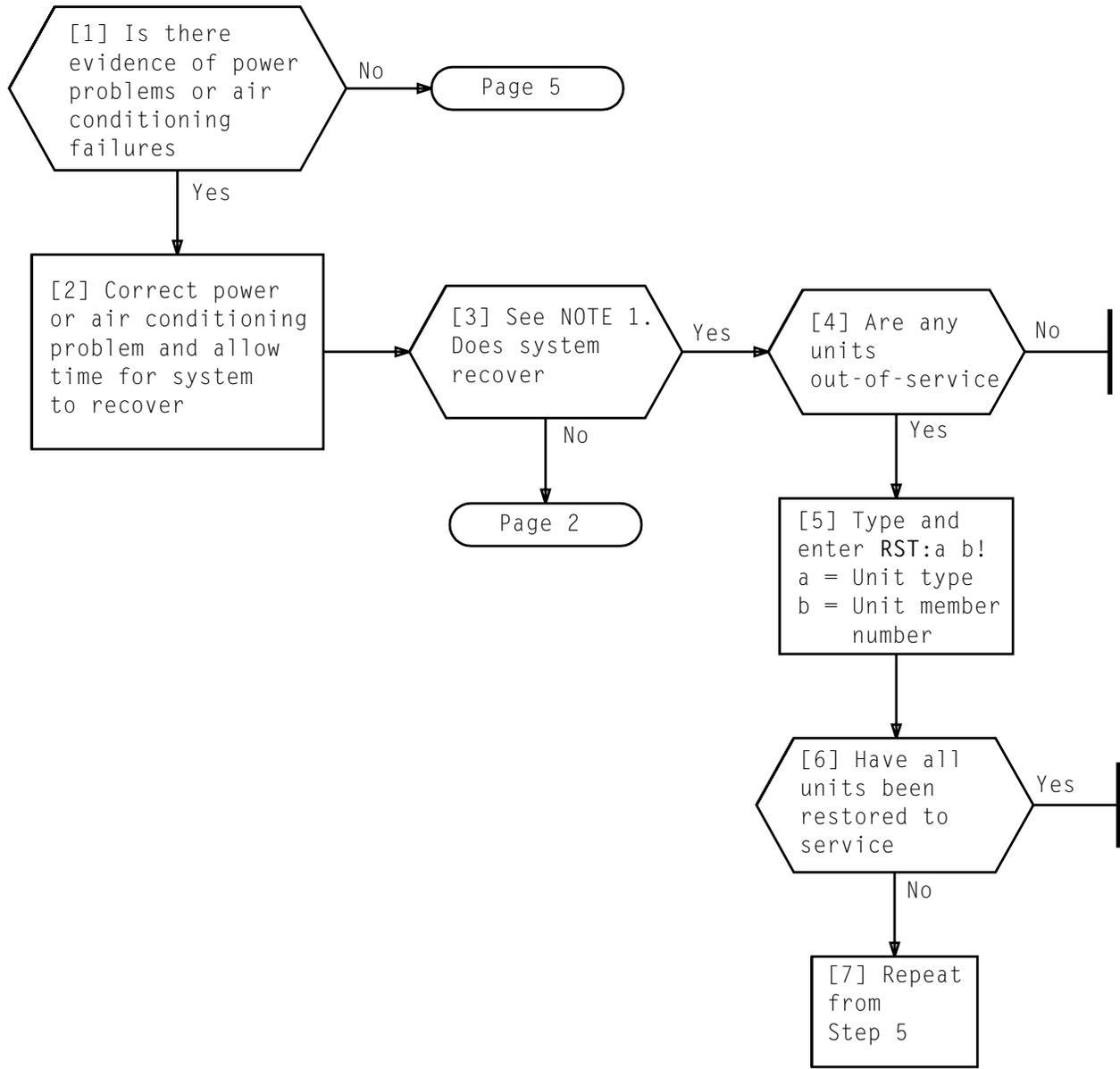
RECOVER SYSTEM BY PERFORMING 1A PROCESSOR SYSTEM REINITIALIZATION (SR) USING 1600 BPI TAPES



RECOVER SYSTEM BY PERFORMING 3B COMPUTER SYSTEM REINITIALIZATION (SR)

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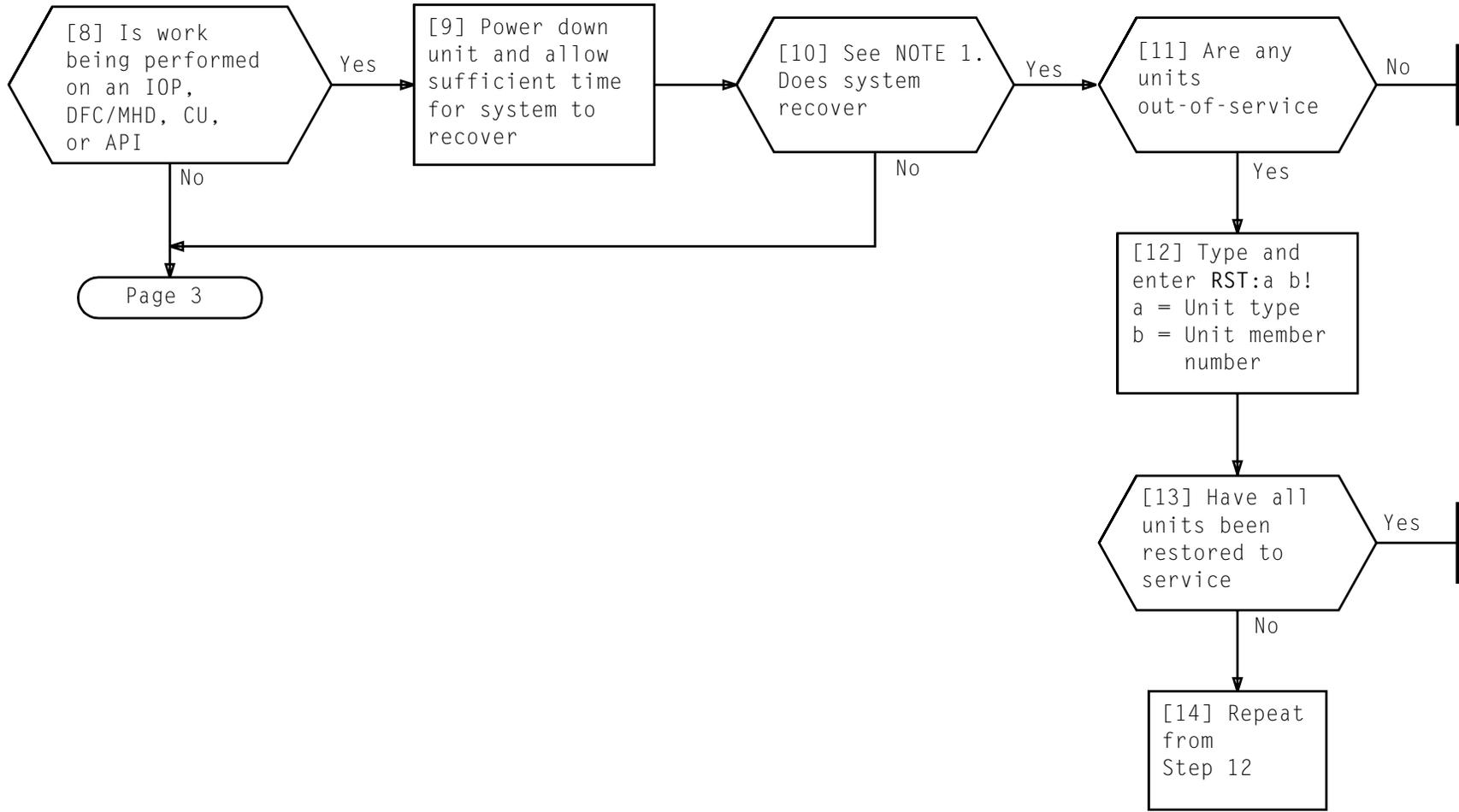


NOTE 1
System has recovered if following conditions have been met:

- A. On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, **PROCESSOR CONFIG COMPLETE** lamp is lighted
- B. On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, no **PHASE - IN PROG** lamps have lighted in last few minutes
- C. On MCC **SYSTEM PERFORMANCE** panel, **SYSTEM ACTIVITY** lamps are normal for time of day (takes 3 minutes for lamps to be updated)
- D. Calls are being processed.

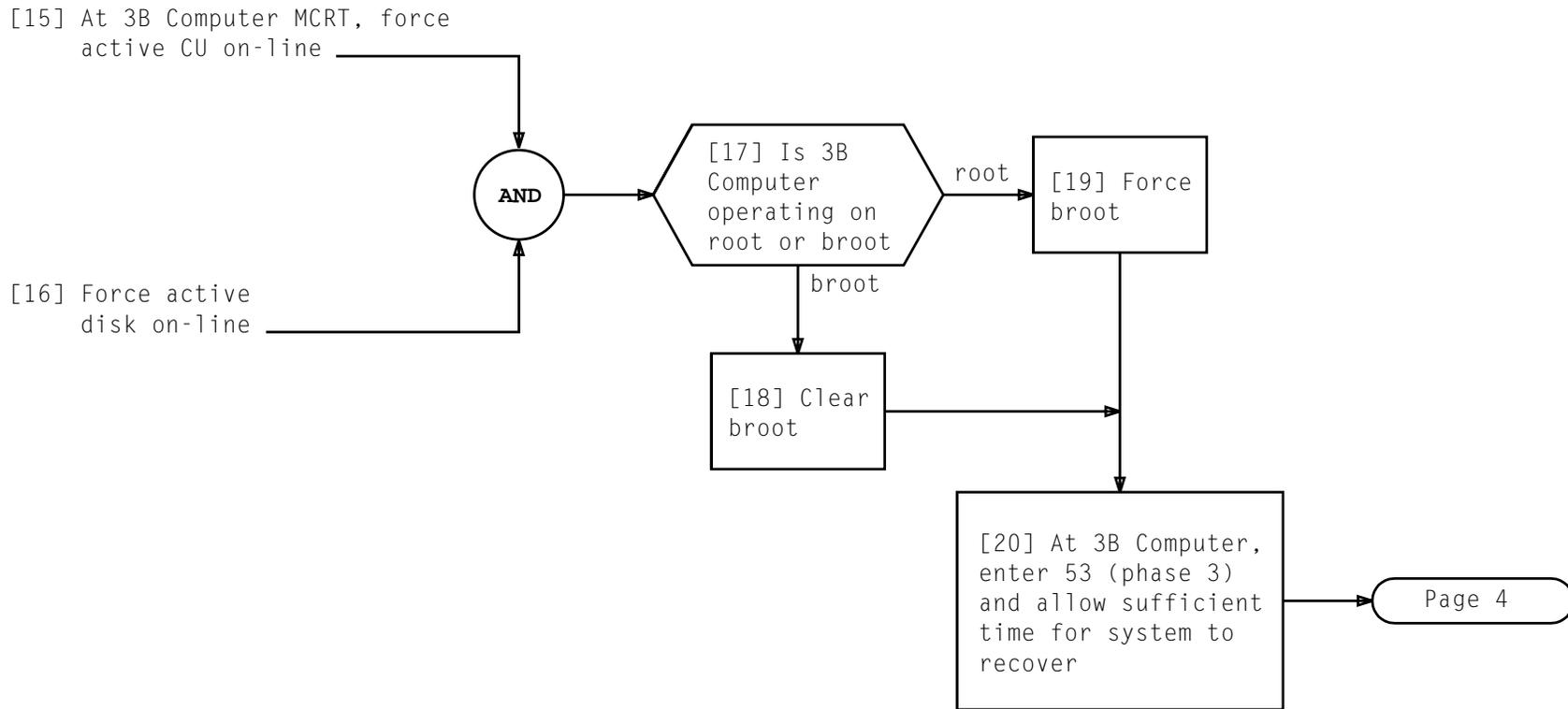
RECOVER SYSTEM, REPEATED 3B COMPUTER BOOTS, ROLLING OR REPEATING 3B COMPUTER PHASES

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RECOVER SYSTEM, REPEATED 3B COMPUTER BOOTS, ROLLING OR REPEATING 3B COMPUTER PHASES

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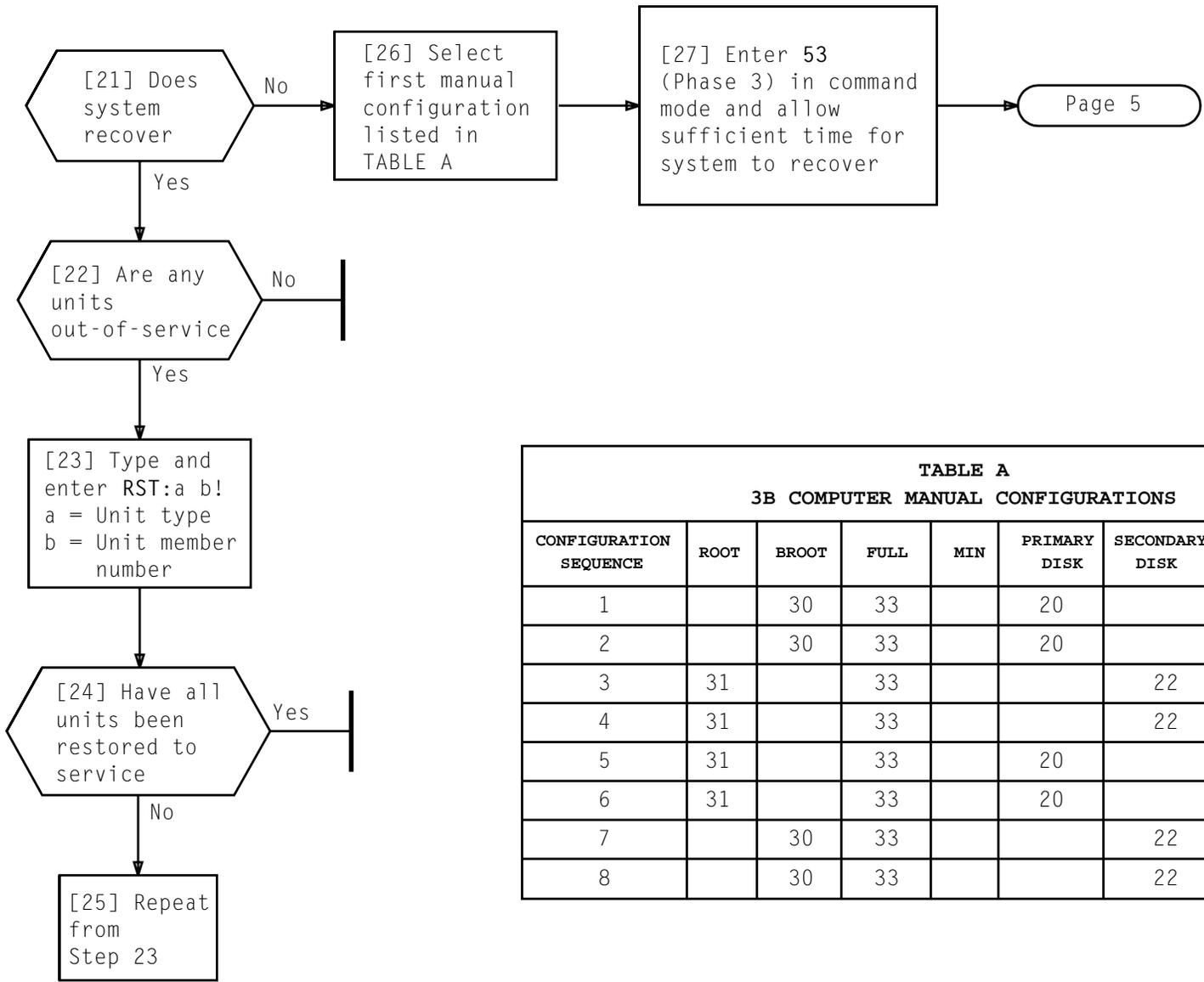
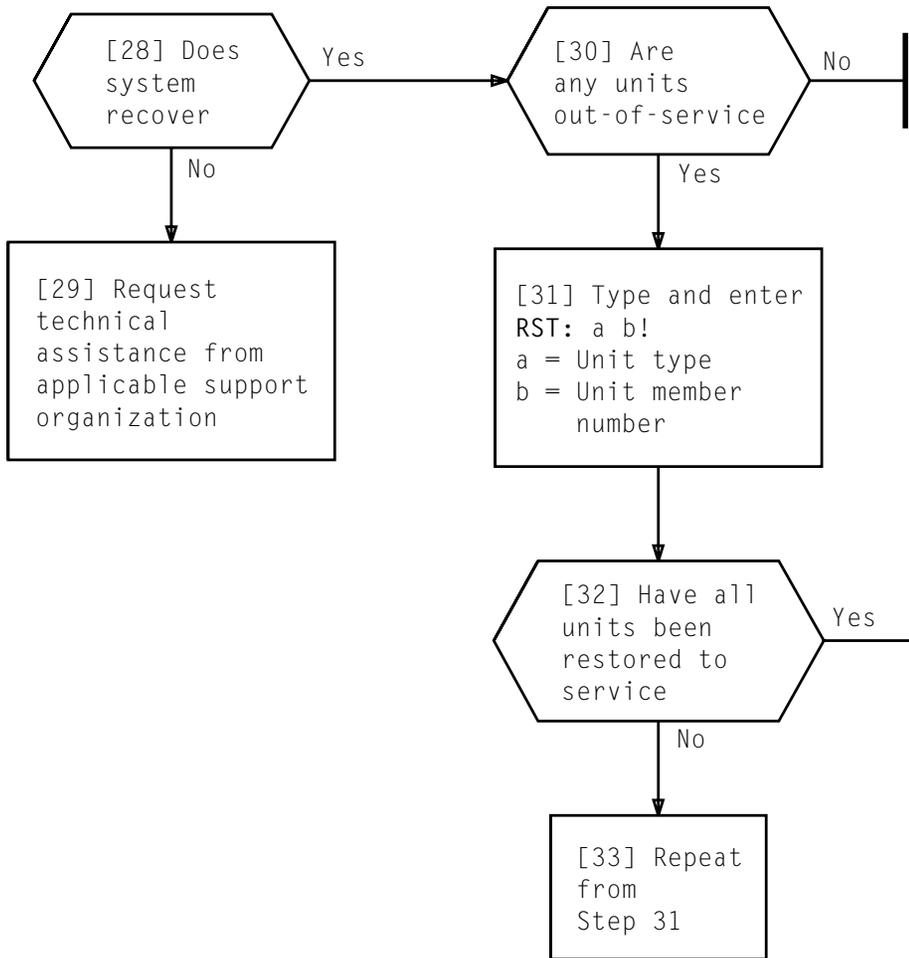


TABLE A
3B COMPUTER MANUAL CONFIGURATIONS

CONFIGURATION SEQUENCE	ROOT	BROOT	FULL	MIN	PRIMARY DISK	SECONDARY DISK	CU 0	CU 0	BOOT
1		30	33		20		10		53
2		30	33		20			11	53
3	31		33			22	10		53
4	31		33			22		11	53
5	31		33		20		10		54
6	31		33		20			11	54
7		30	33			22	10		54
8		30	33			22		11	54



RECOVER SYSTEM, REPEATED 3B COMPUTER BOOTS, ROLLING OR REPEATING 3B COMPUTER PHASES

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[1] On MCC **SYSTEM STATUS** panel, ensure that **RECENT CHANGE – RESTRICT RECENT CHANGES** lamp is lighted _____

[2] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel and **SYSTEM DISPLAY** panel, ensure that all **DIRECT DATA INSERT** and **DATA INSERT** lamps are off _____

[3] On MCC **SYSTEM DISPLAY** panel, enter order number to be rolled back on **DATA INSERT** switch/indicators as octal number _____

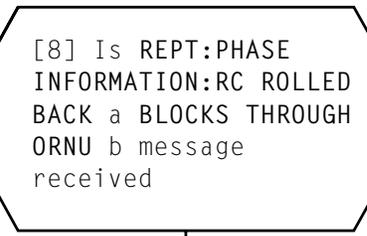
On **MCC** **MANUAL INTERRUPT PROGRAM REQUEST** panel:

[4] Depress **MODIFY RECOVERY ACTIONS** switch/indicator _____

[5] Depress **DIRECT DATA INSERT 4** switch/indicator _____

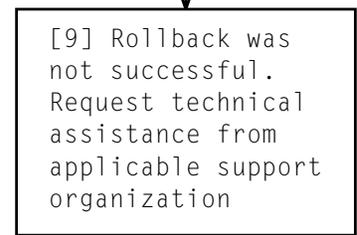
[6] Depress **PHASE – 3 – REQUEST** switch/indicator _____

[7] Depress **ACTIVATE – PROGRAM REQUEST** switch _____



Yes

No



ROLL BACK TO SPECIFIC ORDER NUMBER

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[1] On MCC **SYSTEM STATUS** panel, ensure that **RECENT CHANGE - RESTRICT RECENT CHANGES** lamp is lighted _____

[2] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel and **SYSTEM DISPLAY** panel, ensure that all **DIRECT DATA INSERT** and **DATA INSERT** lamps are off _____

[3] On MCC **SYSTEM DISPLAY** panel, enter order number to be rolled back on **DATA INSERT** switch/indicators as octal number _____

On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:

[4] Depress **MODIFY RECOVERY ACTIONS** switch/indicator _____

[5] Depress **DIRECT DATA INSERT 3** switch/indicator _____

[6] Depress **PHASE - 3 - REQUEST** switch/indicator _____

[7] Depress **ACTIVATE - PROGRAM REQUEST** switch _____

AND

[8] Is REPT:PHASE INFORMATION - RC ROLLED BACK a BLOCKS THROUGH ORNU b AS REQUESTED message received

Yes

No

[9] Rollback was not successful. Request technical assistance from applicable support organization

ROLL BACK SPECIFIED NUMBER OF ROLLBACK BLOCKS

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[1] On MCC **SYSTEM STATUS** panel, ensure that **RECENT CHANGE - RESTRICT RECENT CHANGES** lamp is lighted

[2] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel and **SYSTEM DISPLAY** panel, ensure that all **DIRECT DATA INSERT** and **DATA INSERT** lamps are off

MANUAL INTERRUPT PROGRAM REQUEST panel:

[3] Depress **MODIFY RECOVERY ACTIONS** switch/indicator

[4] Depress **DIRECT DATA INSERT 2** switch/indicator

[5] Depress **PHASE - 3 - REQUEST** switch/indicator

[6] Depress **ACTIVATE - PROGRAM REQUEST** switch

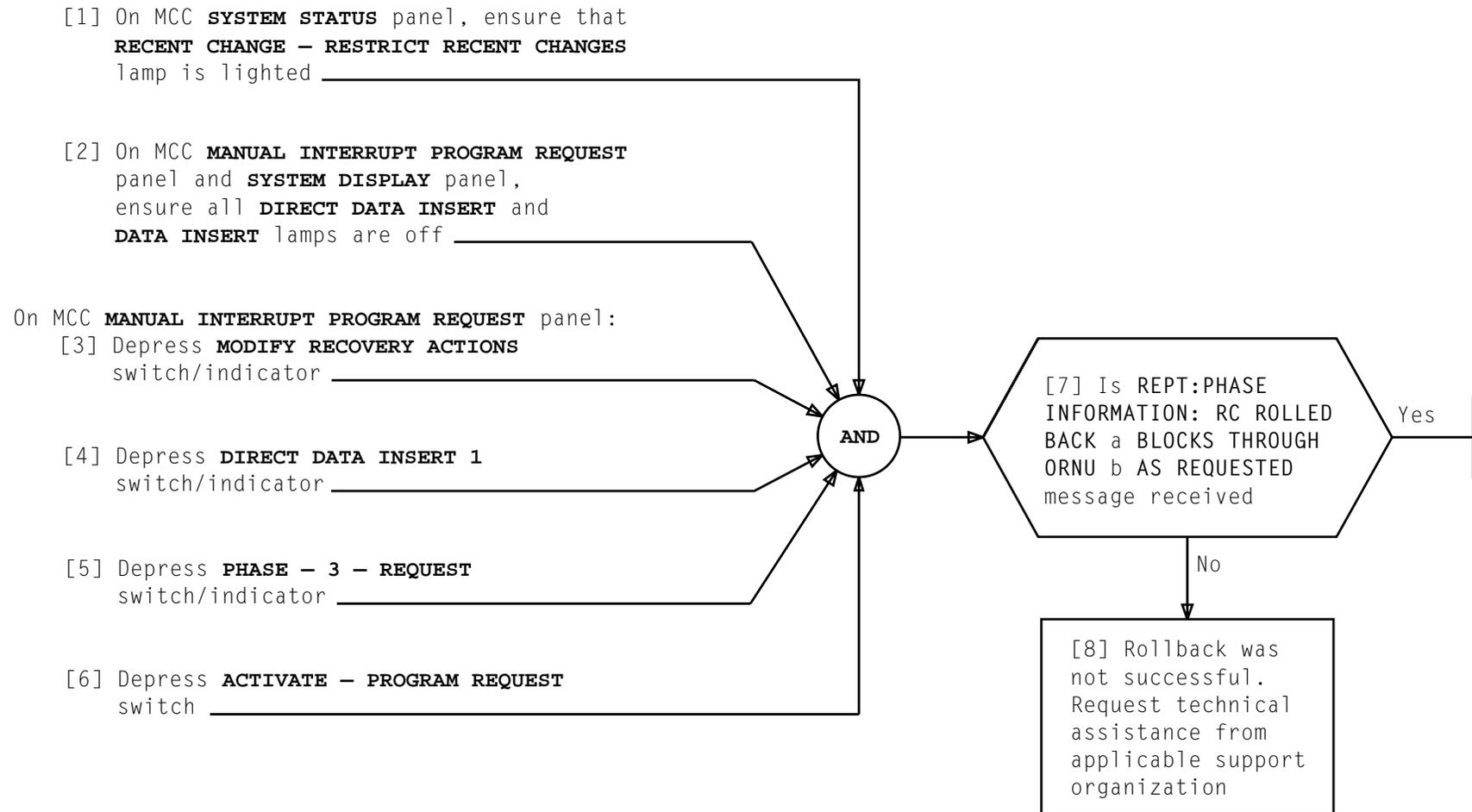
AND

[7] Is REPT:PHASE INFORMATION: RC ROLLED BACK a BLOCKS THROUGH ORNU b AS REQUESTED message received

Yes

No

[8] Rollback was not successful. Request technical assistance from applicable support organization



ROLL BACK TO NEXT-TO-LATEST TAPE DUMP (TAPE 1)

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[1] On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, operate **DISABLE AUTO PC** switch/indicator to obtain lighted condition

[2] On MCC **UPDATE** panel, release all lighted lamps

[3] On MCC **OVERRIDE CONTROL** panel, select valid processor configuration [TABLE A]

[4] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **FULL CFG/EMER MODE** switch/indicator

EMER MODE lamp lights

[5] On MCC **OVERRIDE CONTROL** panel, depress **ACTIVATE - OVERRIDE IN EFFECT** switch/indicator

NO OVERRIDE lamp goes off; **ACTIVATE - OVERRIDE IN EFFECT** lamp lights

AND

[6] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, is **FULL CFG** lamp lighted

Yes

[7] At TTY, ensure that **REPT:TROUBLE-EMERGENCY MODE ENTERED:FULL PROCESSOR CONFIG** message is printed

No

[8] Select another valid override configuration [TABLE A] and repeat from Step 5

ENTER EMERGENCY MODE (FULL CONFIGURATION) BY FORCING AN OVERRIDE CONFIGURATION

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TABLE A VALID OVERRIDE CONFIGURATIONS									
CONFIGURATION	OVERRIDE CONTROL LAMPS								
	CC 0	CC 1	PSB 0	PSB 1	AUB 0	AUB 1	BLOCK 0 PS 0	VARIABLE PS 0	VARIABLE PS 1
1	X		X		X		X		
2	X			X		X		X	
3		X	X		X				X
4		X		X		X	X		
5	X		X		X			X	
6	X		X		X				X
7	X		X			X	X		
8	X		X			X		X	
9	X		X			X			X
10	X			X	X		X		
11	X			X	X			X	
12	X			X	X				X
13	X			X		X	X		
14	X			X		X			X
15		X	X		X		X		
16		X	X		X			X	
17		X	X			X	X		
18		X	X			X		X	
19		X	X			X			X
20		X		X	X		X		
21		X		X	X			X	
22		X		X	X				X
23		X		X		X		X	
24		X		X		X			X

ENTER EMERGENCY MODE (FULL CONFIGURATION) BY
FORCING AN OVERRIDE CONFIGURATION

[1] On MCC **PROCESSOR DISPLAY** panel, determine active CC, PS bus, and AU bus

[2] On MCC **OVERRIDE CONTROL** panel, select active CC, PS bus, and AU bus

[3] On MCC **PROCESSOR DISPLAY** panel, determine PS assigned K-code 20 (PS 0, 2, or 4)

[4] Determine correct PS to select [TABLE A] and on MCC **OVERRIDE CONTROL** panel, depress appropriate switch/indicator

Override selections made

PS ASSIGNED K-CODE 20	PS TO BE SELECTED
PS 0	BLOCK 0 PS 0
PS 2	VARIABLE PS 0
PS 4	VARIABLE PS 1

On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:

[5] Depress lighted **EMER MODE** switch/indicator

[6] Depress **PHASE - 3 - REQUEST** switch/indicator

PHASE - 3 - REQUEST
lamp lights

[7] On MCC **OVERRIDE CONTROL** panel, depress **ACTIVATE - OVERRIDE IN EFFECT** switch/indicator

PHASE - 3 - IN PROG
lamp lights;
CHANNEL IDLE message received

EXIT EMERGENCY MODE

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On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:

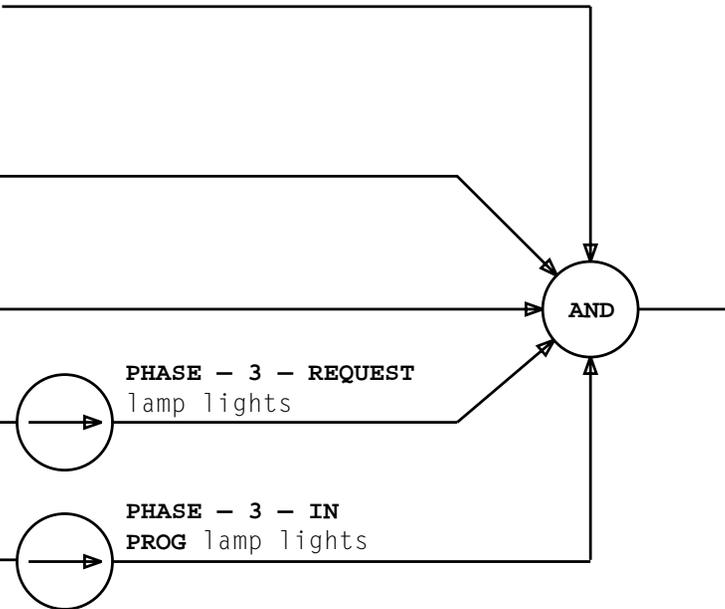
[1] Operate **MODIFY RECOVERY ACTIONS** switch/indicator to obtain lighted condition

[2] Depress applicable **DIRECT DATA INSERT** switch/indicator for modified recovery action [TABLE A]

[3] Release any other **DIRECT DATA INSERT** switch/indicators that are lighted

[4] Depress **PHASE - 3 - IN PROG/REQUEST** switch/indicator

[5] Depress **ACTIVATE - PROGRAM REQUEST** switch



PERFORM MODIFIED RECOVERY ACTION

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TABLE A		
DIRECT DATA INSERT SWITCH/INDICATOR OPTIONS (MCD REGISTER)		
SWITCH/INDICATOR	OPTION	APPLICATION
0	Leave all pests set during and after the phase	PH 2, 3, 4
1	Roll back to tape 1	PH 3, 4
2	Roll back to tape 2	PH 3, 4
3	Roll back number of orders indicated by DI keys	PH 2, 3, 4
4	Roll back to order number indicated by DI keys	PH 2, 3, 4
5	Clear disk areas specified by system integrity program	PH 3, 4
6	Clear network management controls	PH 2, 3, 4
7	Initialize TOSL	PH 3, 4
8	Remove MAS audio	PH 4
11	Restore duplex failed units (with MRA set)	PH 3
15	Multiple tape SR (GEN and ODA are on separate tapes)	SR
16	Zero all call or program store memory not backed up on disk	A0, PC (pump)
17	Skip hash sum calculations	SR, A0, PC
18	Bypass CC sanity tests	SR, PC
21	Inhibit store maintenance tests	SR, A0, PC (pump)
22	Disk data read back and verify	SR
23	Allow duplex API failures during SR	SR
SR - System Reinitialization; PC - Processor Configuration; A0 - Activate Override		

[1] On MCC **OVERRIDE CONTROL** panel, ensure that **ACTIVATE - OVERRIDE IN EFFECT** lamp is not lighted

[2] On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, operate **ACTIVATE - DISABLE AUTO PC** switch/indicator to obtain lighted condition

[3] Depress **ACTIVATE - PC** switch to advance state counter lamps to state 18

[4] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, release any switch/indicators that are lighted

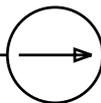
[5] Depress **FULL CFG/EMER MODE** switch/indicator

[6] On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, depress **ACTIVATE - PC** switch

PC set to state 18



EMER MODE lamp lights



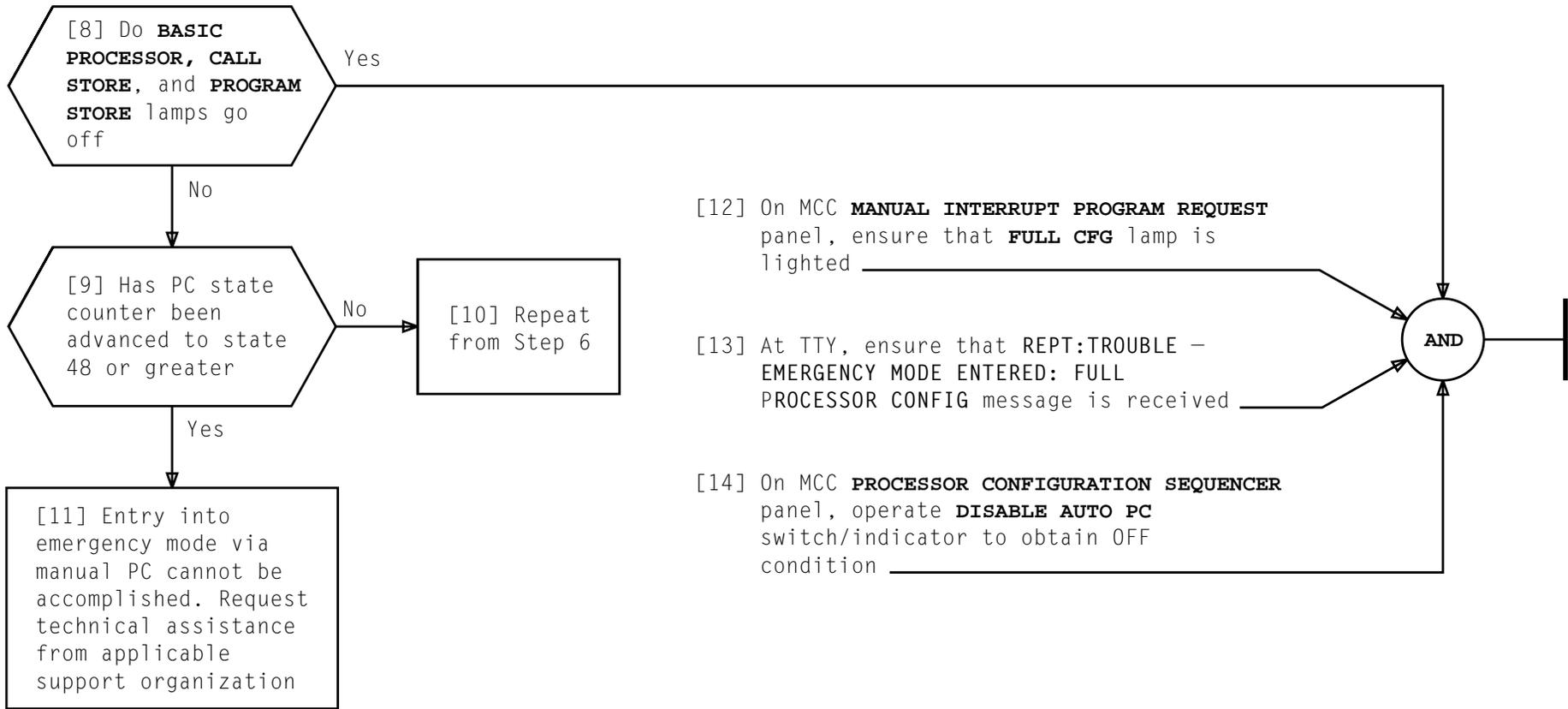
Emergency mode selected and PC in progress

[7] Observe progress lamps (**BASIC PROCESSOR, CALL STORE, and PROGRAM STORE**)

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ENTER EMERGENCY MODE (FULL CONFIGURATION) BY MANUALLY TRIGGERING PROCESSOR CONFIGURATION (PC) SEQUENCER

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ENTER EMERGENCY MODE (FULL CONFIGURATION) BY MANUALLY TRIGGERING PROCESSOR CONFIGURATION (PC) SEQUENCER

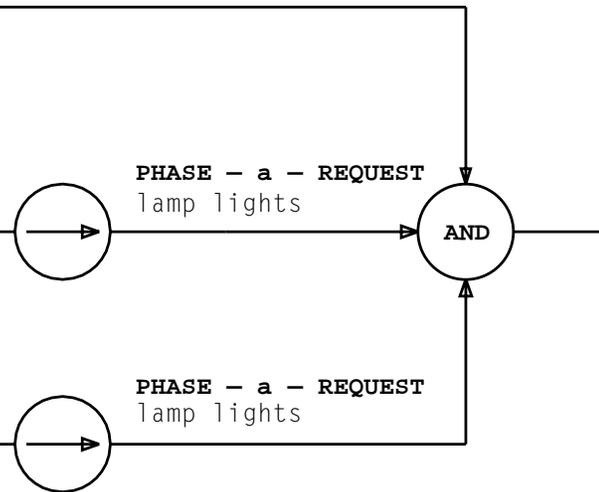
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[1] On MCC **SYSTEM STATUS** panel, depress **RECENT CHANGE - RESTRICT RECENT CHANGES** switch/indicator to obtain lighted condition

On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:

[2] Depress **PHASE - 4 - IN PROG/REQUEST** switch/indicator
a = Desired phase number

[3] Depress **ACTIVATE - PROGRAM REQUEST** switch



REQUEST INITIALIZATION PHASE (PHASE 4)

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- [1] On MCC **PROCESSOR DISPLAY** panel, determine active CC, PS bus, and AU bus _____
- [2] On MCC **OVERRIDE CONTROL** panel, select active CC, PS bus, and AU bus _____
- [3] On MCC **PROCESSOR DISPLAY** panel, determine PS assigned K-code 20 (PS 0, 2, or 4) _____
- [4] Determine PS to select [TABLE A] and on MCC **OVERRIDE CONTROL** panel, depress appropriate switch/indicator _____
- [5] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **MIN CFG/EMER MODE** switch/indicator _____

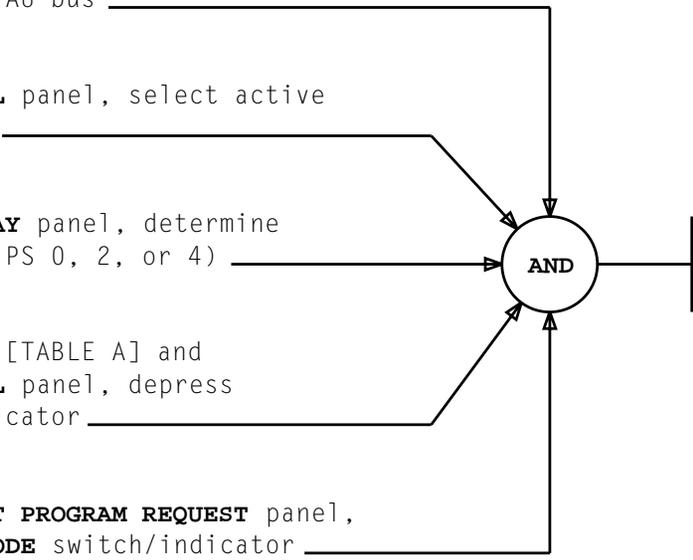


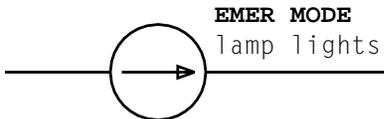
TABLE A PS SELECTION ON OVERRIDE CONTROL PANEL	
PS ASSIGNED K-CODE 20	PS TO BE SELECTED
PS 0	BLOCK 0 PS 0
PS 2	VARIABLE PS 0
PS 4	VARIABLE PS 1

**SET OVERRIDE CONTROLS FOR EXITING EMERGENCY MODE
BY PERFORMING SYSTEM REINITIALIZATION (SR)**

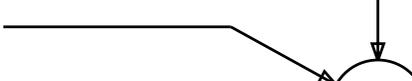
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On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:

[1] Depress **MIN CFG/EMER MODE** switch/indicator



[2] Depress **MODIFY RECOVERY ACTIONS** switch/indicator



[3] Depress **DIRECT DATA INSERT 23** switch/indicator



[4] Ensure that all other **DIRECT DATA INSERT** switch/indicators are released



[1] If technical assistance is not already on line, obtain technical assistance

[2] If phase 4 was requested, reset system clock [DLP-513]

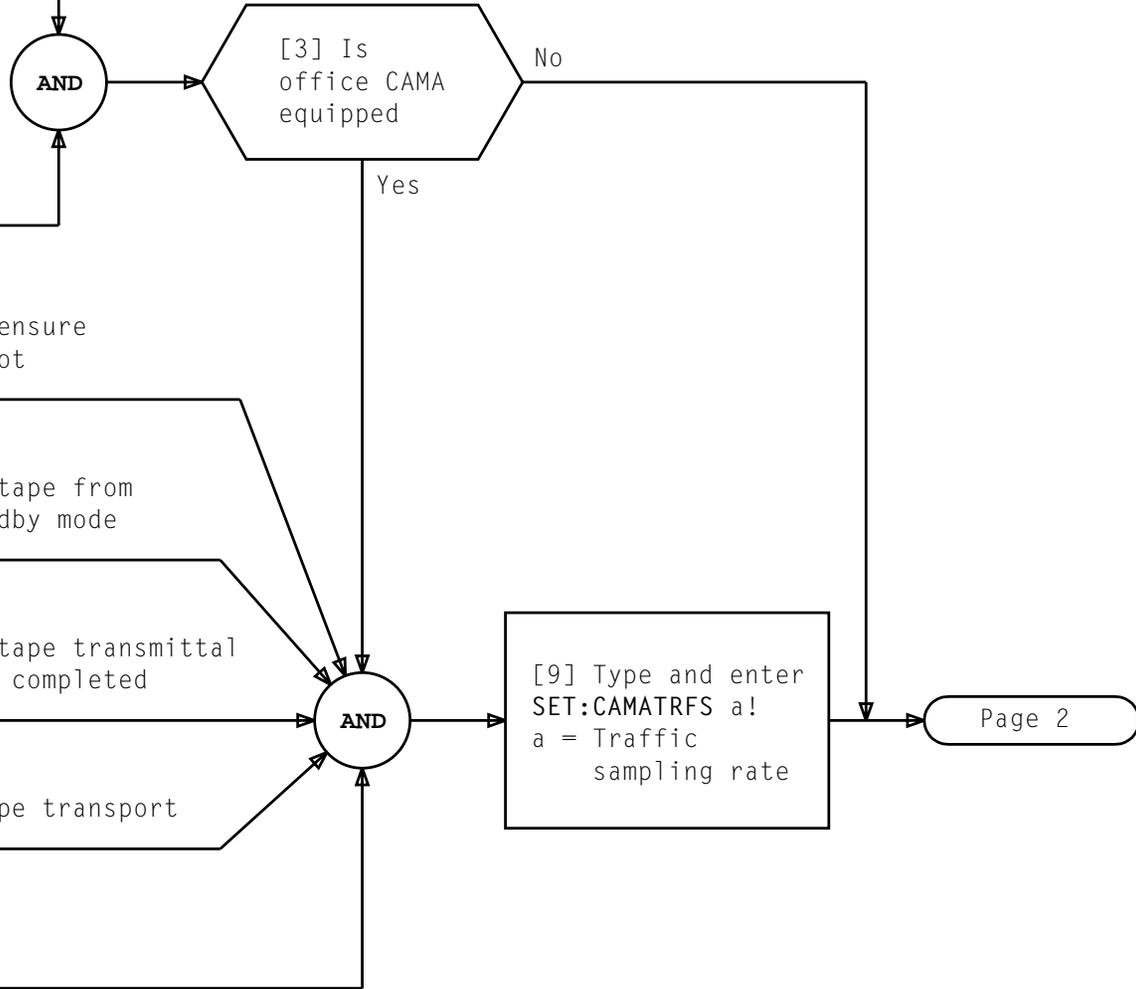
[4] Obtain blank tape and ensure write-enable ring is not installed

[5] Demount completed AMA tape from tape transport in standby mode [DLP-536]

[6] Fill out AMA magnetic tape transmittal form (Form E-5233) for completed AMA tape

[7] Mount blank tape on tape transport [DLP-535]

[8] Type and enter ALW:INFCRCD!



RESTORE SYSTEM CONDITIONS FOLLOWING PHASE 3 OR 4

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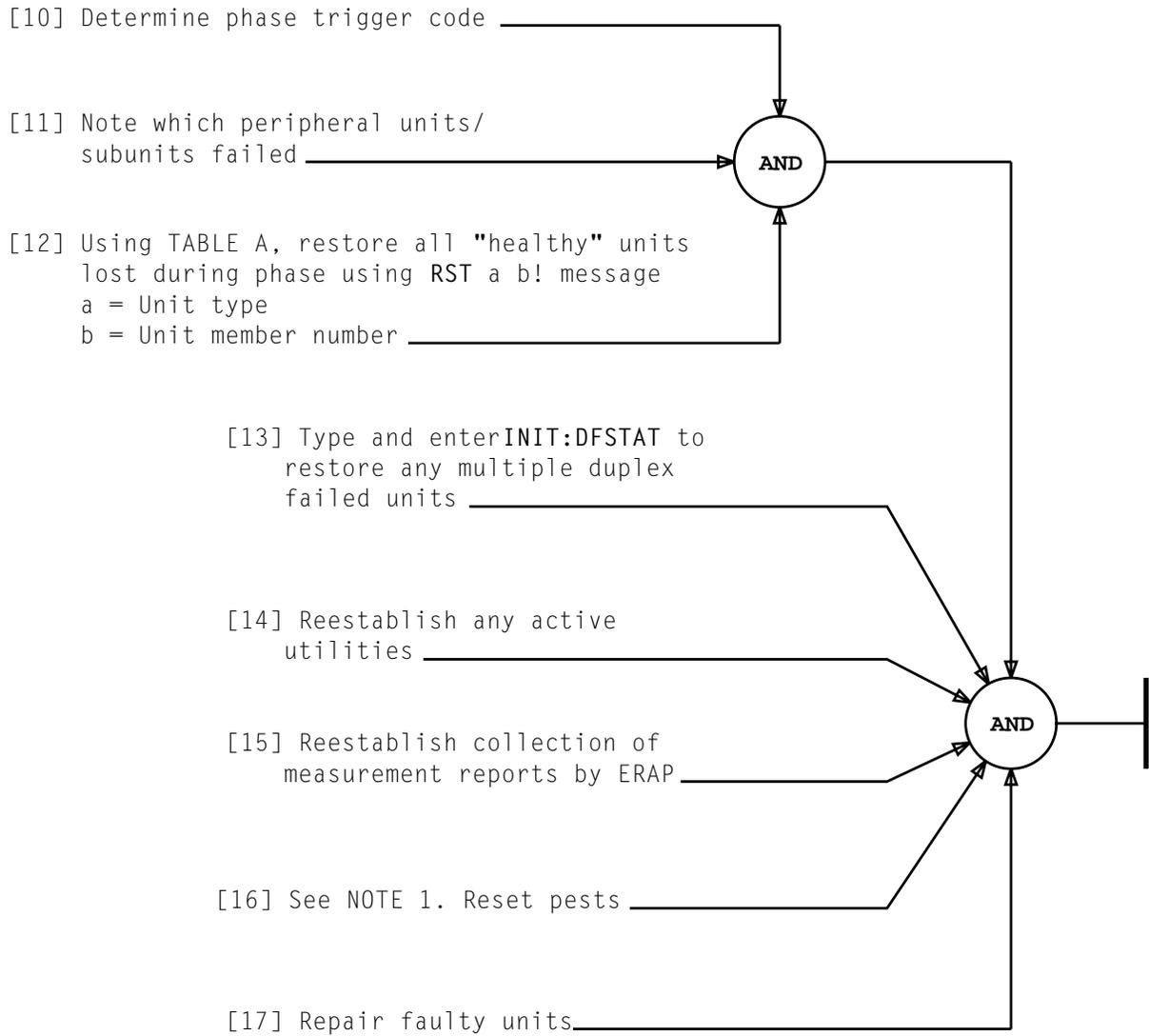
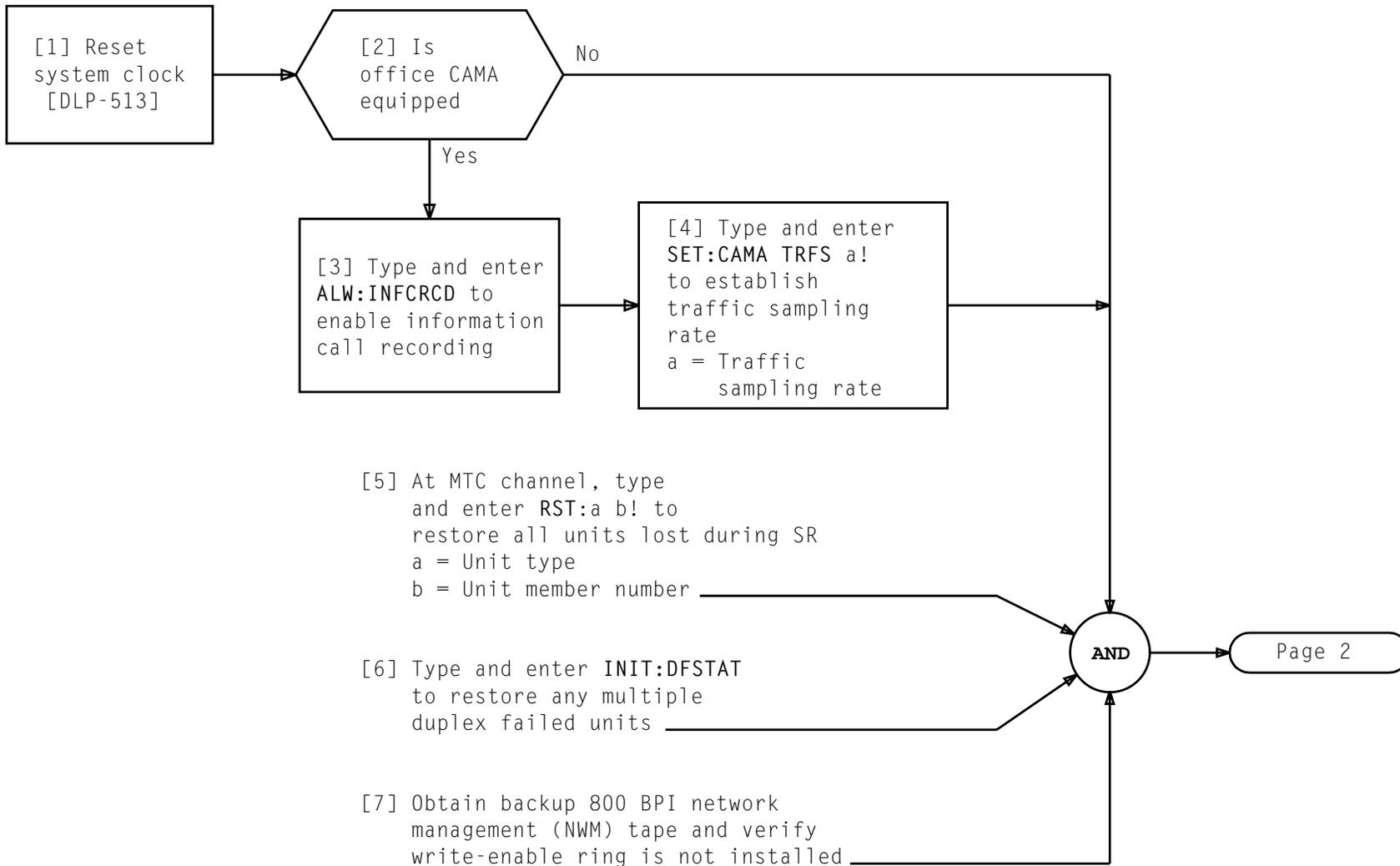


TABLE A	
ORDER	UNIT
1	SP
2	NCLK
3	TSI
4	VIF
5	TGR
6	DT
7	EST
8	TMSP
9	SCLK

NOTE 1
 If **MODIFY RECOVERY ACTIONS** switch/indicator and **DIRECT DATA INSERT 0** switch/indicator were used (pested phase and pested operation after phase), pests should be reset only after consulting with TAC

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**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 800 BPI TAPES**

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- [8] Select available 1A Processor tape transport
- [9] If tape is mounted on selected tape transport, demount tape [DLP-536]
- [10] Mount NWM tape on tape transport [DLP-535]
- [11] Load and verify NWM data using 800 BPI tape [DLP-514]
- [12] Demount NWM tape from tape transport [DLP-536]
- [13] Attach tape retainer strap and store tape per local instructions

AND

- [14] Obtain backup 800 BPI traffic and plant measurement (TPM) tape and verify write-enable ring is not installed
- [15] Select available 1A Processor tape transport
- [16] If tape is mounted on selected tape transport, demount tape [DLP-536]

AND

- [17] Mount TPM tape on tape transport [DLP-535]
- [18] Load and verify TPM data using 800 BPI tape [DLP-515]
- [19] Demount TPM tape on tape transport [DLP-536]
- [20] Attach tape retainer strap and store tape per local instructions
- [21] At MTC channel, type and enter OP:DUSTATUS!

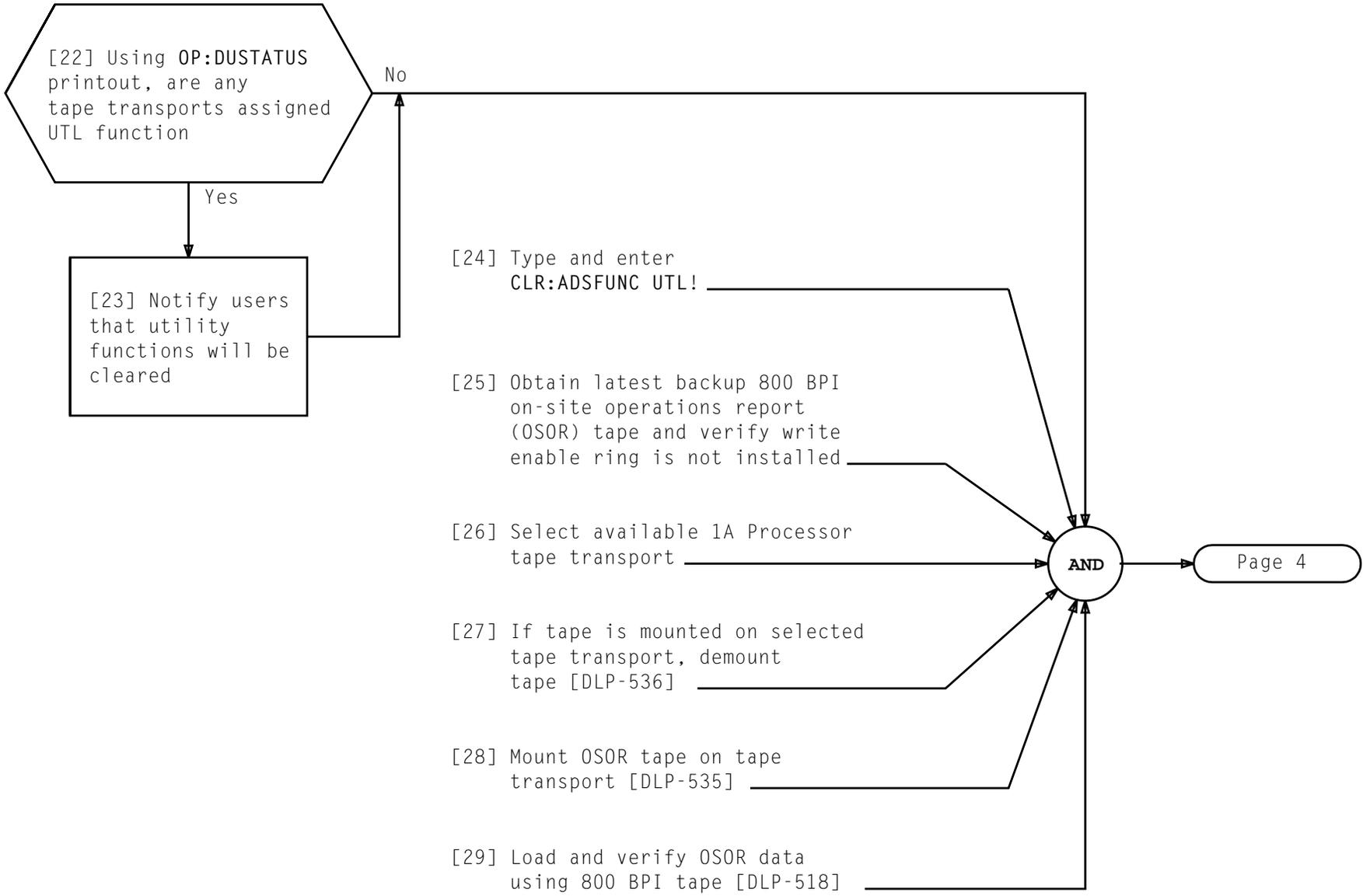
AND

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TABLE A	
ORDER	UNIT
1	SP
2	NCLK
3	TSI
4	VIF
5	TGR
6	DT
7	EST
8	TMSP
9	SCLK

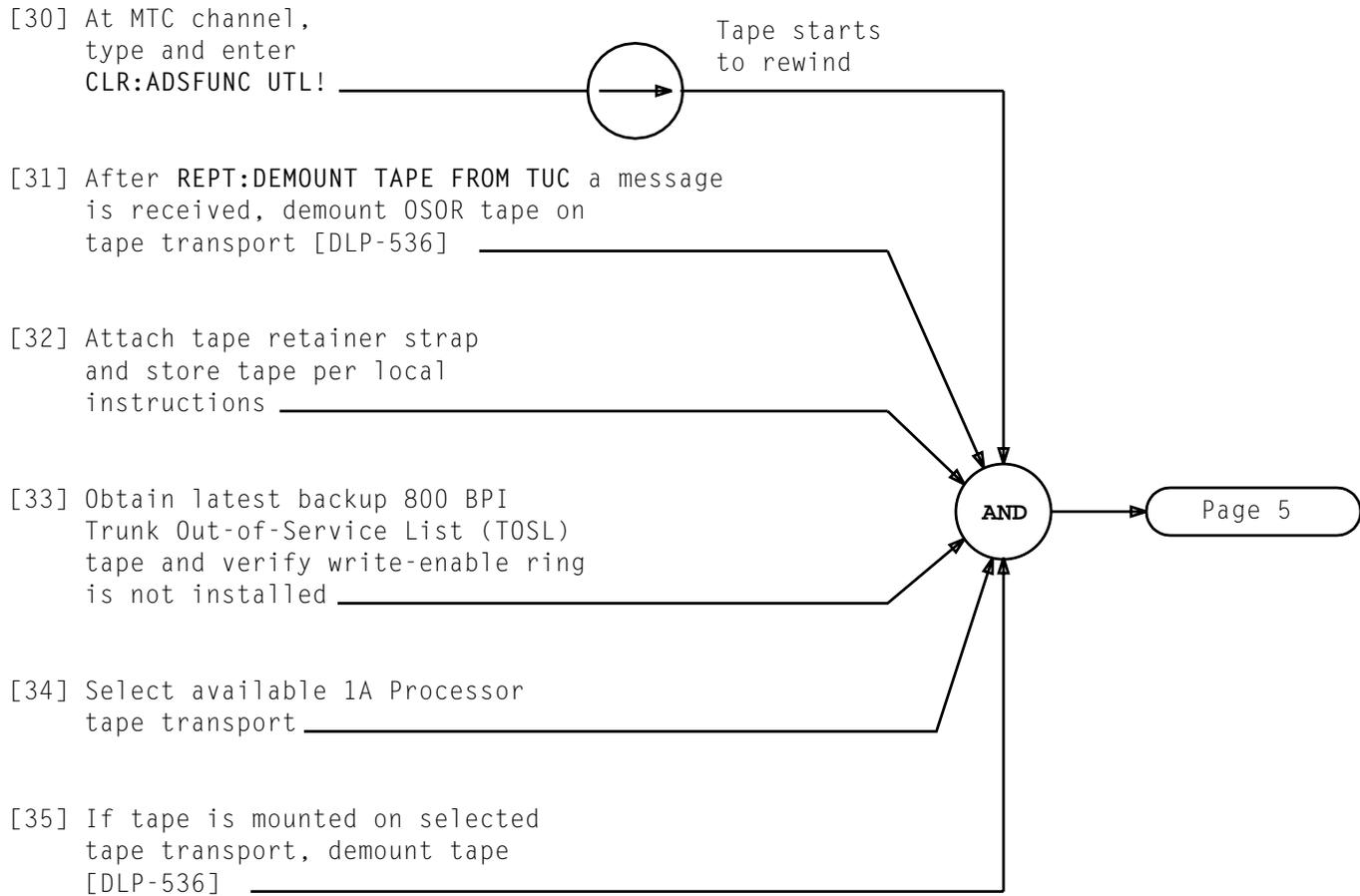
RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR) USING 800 BPI TAPES

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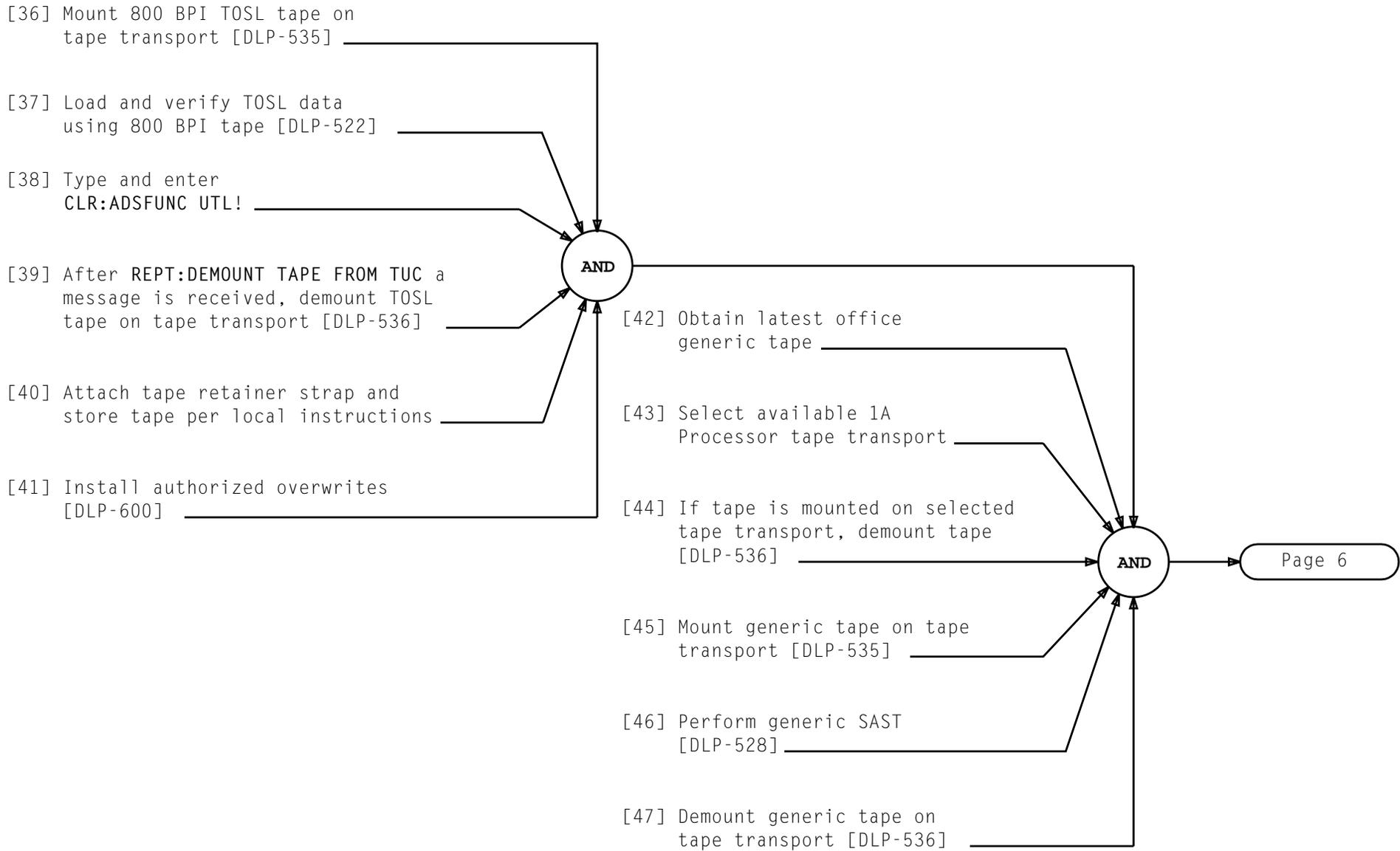
**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 800 BPI TAPES**

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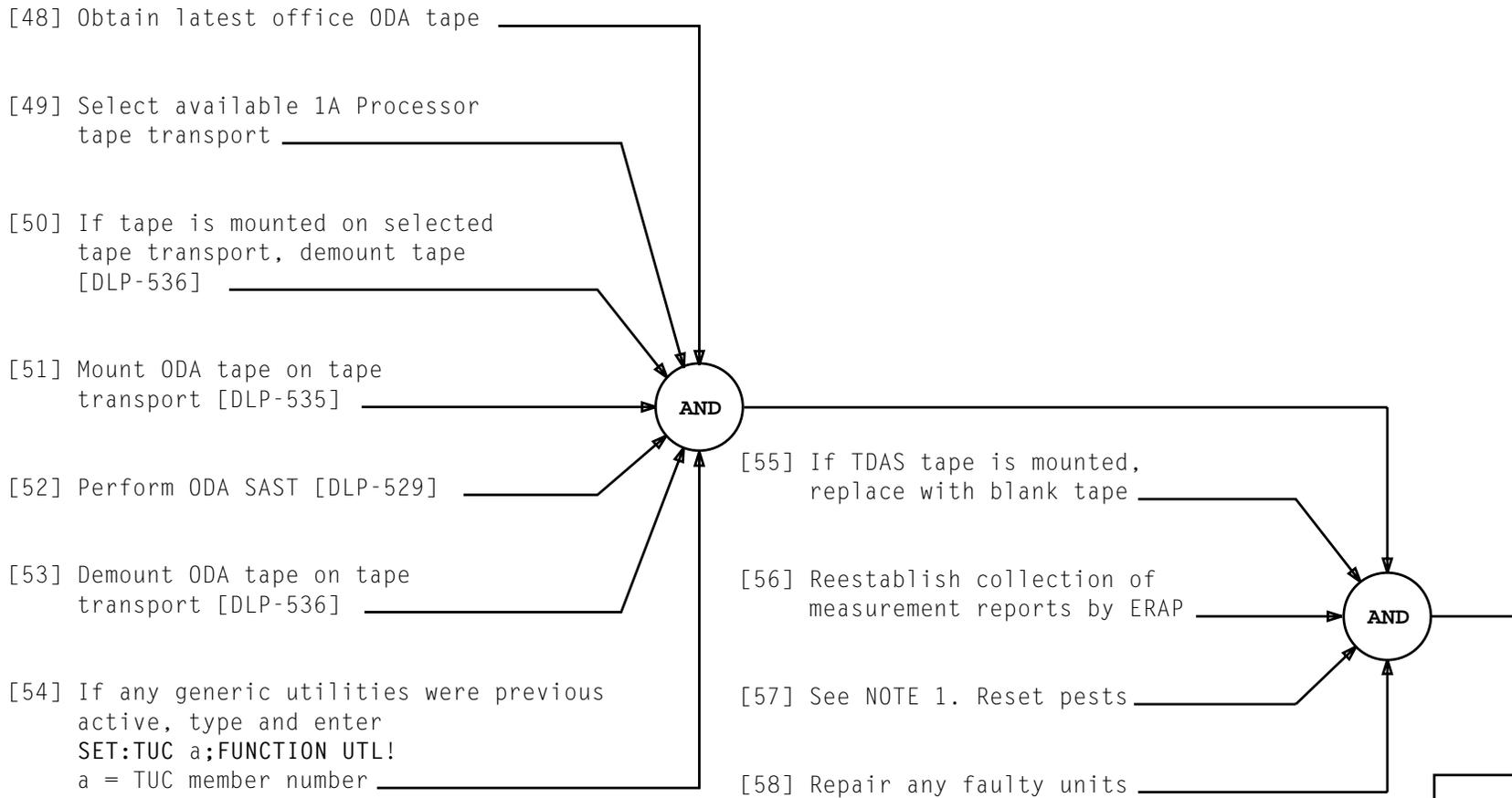
**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 800 BPI TAPES**

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**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 800 BPI TAPES**

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NOTE 1	
If MODIFY RECOVERY ACTIONS switch/indicator and DIRECT DATA INSERT 0 switch/indicator were used during recovery, pests should only be reset after consulting with TAC	
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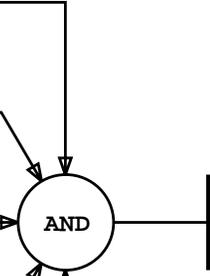
[1] See CAUTION 1 and NOTE 1. Type, but do not enter:
 SET:CLK:DAY a,DATE b,TIME ccddee
 (complete all entries except minutes and seconds)
 a = Day (SUN, MON, TUE, etc.)
 b = Date (6-digit number)
 cc = Hour
 dd = Minutes
 ee = Seconds

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

[3] At next time announcement, complete (but do not enter)
 message by adding minute announced plus 1 and 00 seconds

[4] Return cursor to start of message

[5] At next time announcement, when tone
 is heard, depress **SEND**



NOTES

1. The minute and second entries should not be typed at this time. Contact with the U.S. Bureau of Standards Time Announcement will be required to obtain the correct entries
2. Time announcements are made every minute on the minute. Hours announced are in Greenwich Mean Time.

CAUTION 1
System clock update must be accomplished between 2:02 and 2:12 a.m. Review procedure and notify network management of impending time change.

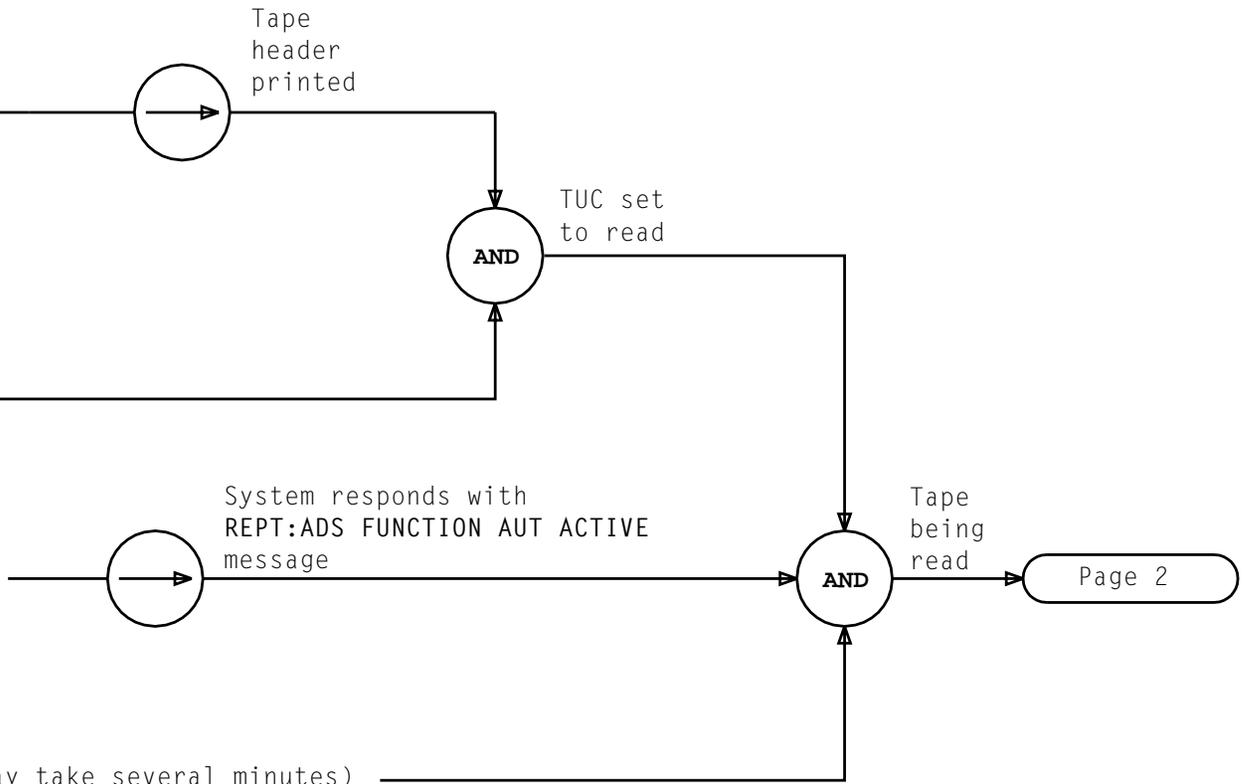
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[1] See NOTE 1. At MTC channel,
type and enter
SET:TUC a;FUNCTION AUT!
a = TUC member number

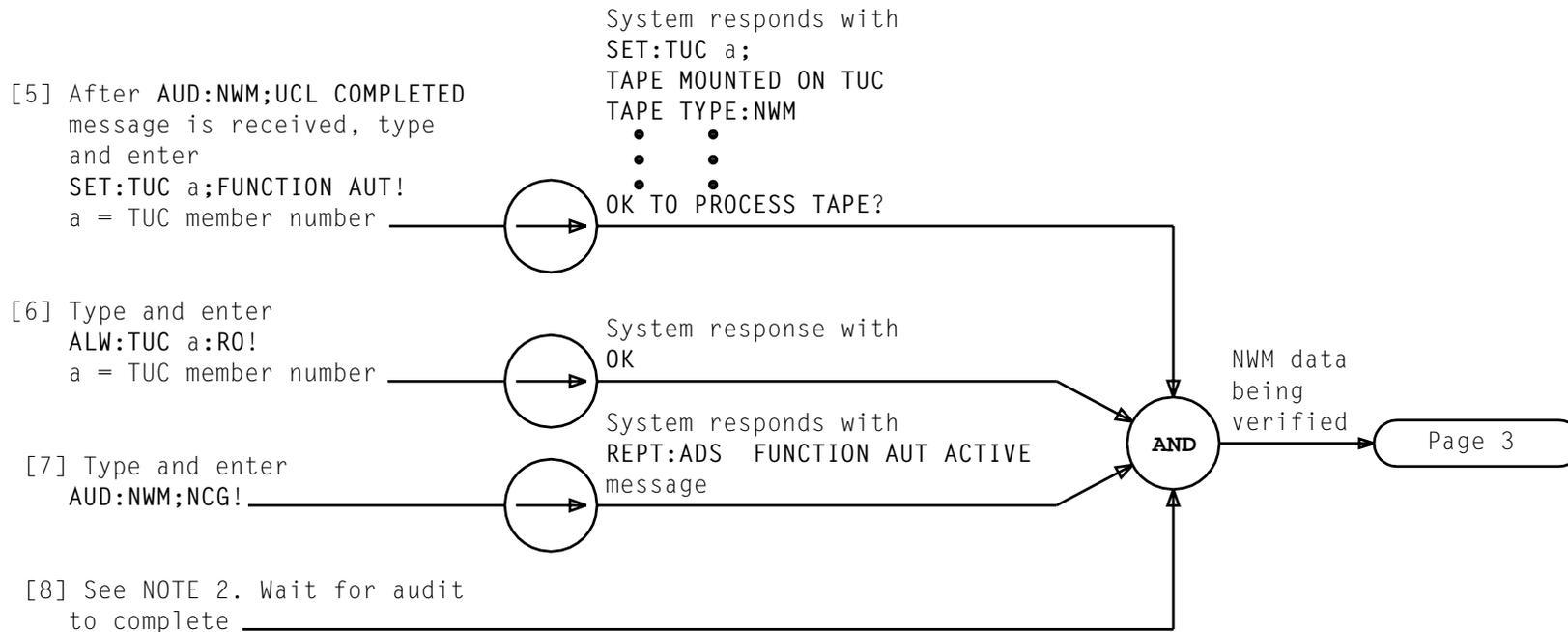
[2] If correct tape type is mounted,
type and enter
ALW:TUC a:RO!
a = TUC member number

[3] Type and enter AUD:NWM;UCL!

[4] Wait for tape to be read (may take several minutes)



NOTE 1	
Loading of NWM data must be started during an 8-minute window beginning 2 minutes past any quarter hour	
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NOTE 2

As audit is being run, the following messages will be printed if no errors are encountered:

```

AUD:NWM;NCG IN PROGRESS
0 ERROR(S) IN CS2FS MAP DETECTED

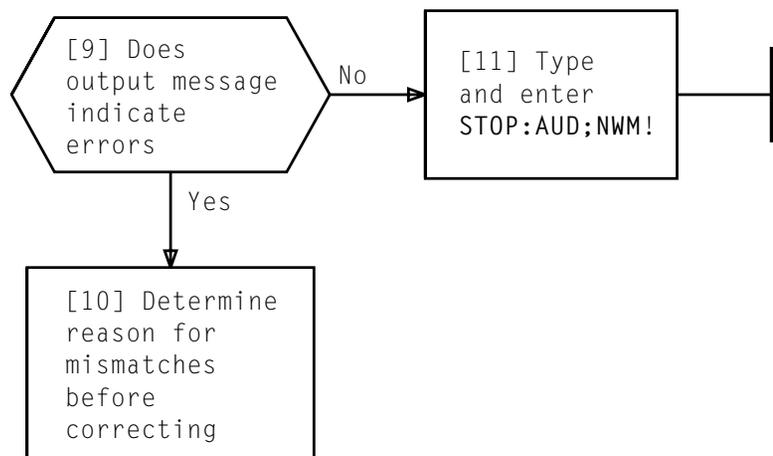
AUD:NWM;NCG IN PROGRESS
0 ERROR(S) IN ID2FS MAP DETECTED

AUD:NWM;NCG IN PROGRESS
0 ERROR(S) IN HASH TABLES DETECTED

AUD:NWM;NCG IN PROGRESS TAPE DONE
AWAITING INSTRUCTIONS

REPT:DEMOUNT TAPE FROM TUC a
  
```

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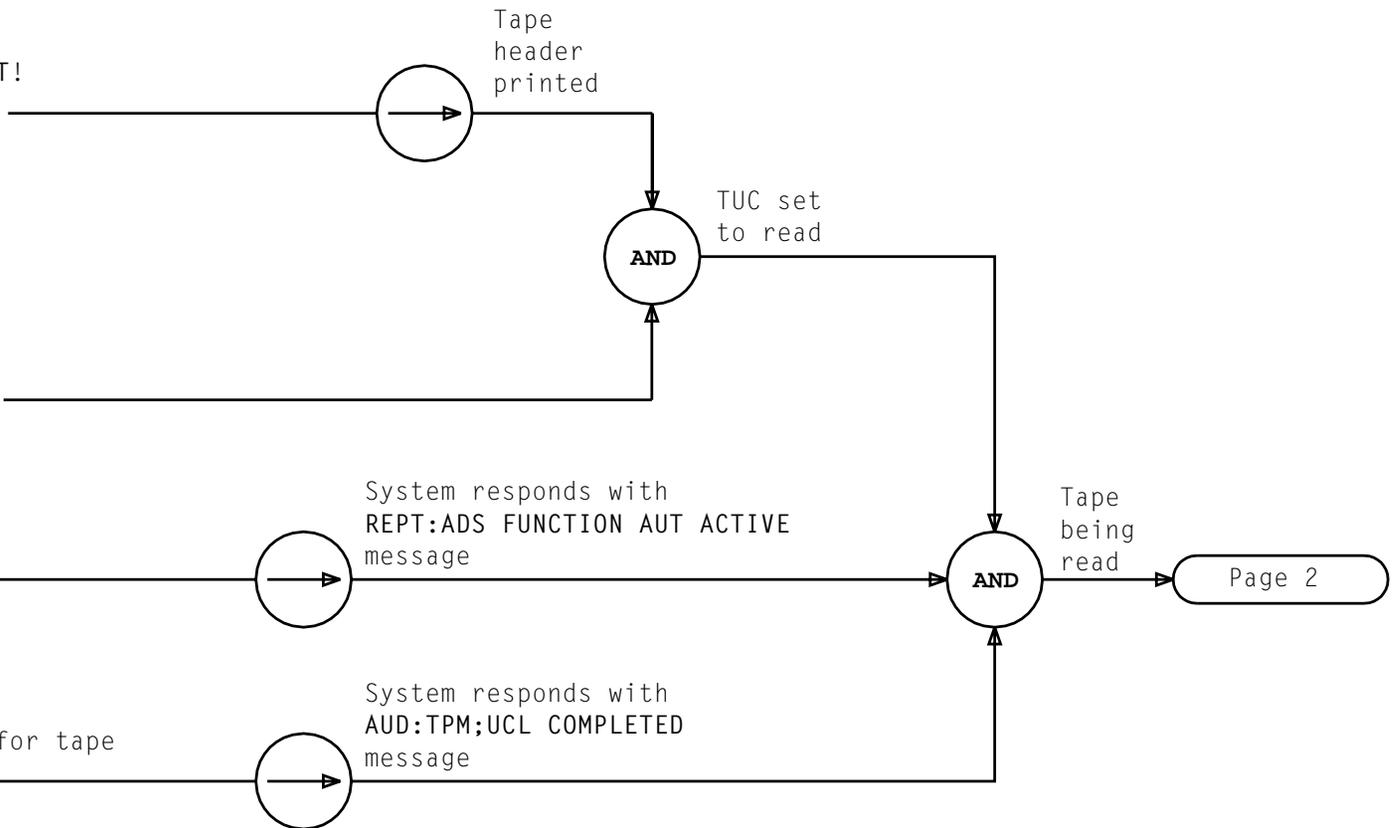
At MTC channel:

[1] Type and enter
SET:TUC a;FUNCTION AUT!
a = TUC member number

[2] Type and enter
ALW:TUC a:RO!
a = TUC member number

[3] Type and enter
AUD:TPM;UCL!

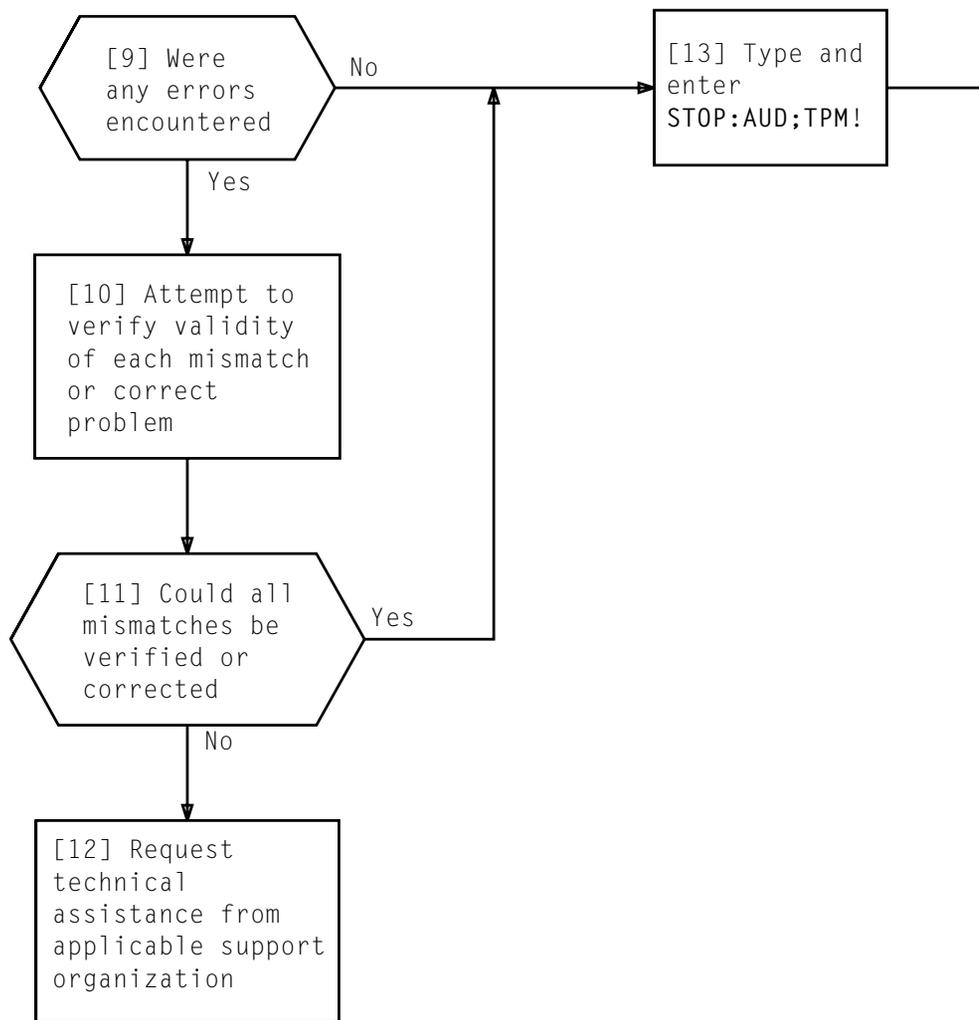
[4] See NOTE 1. Wait for tape
to be read

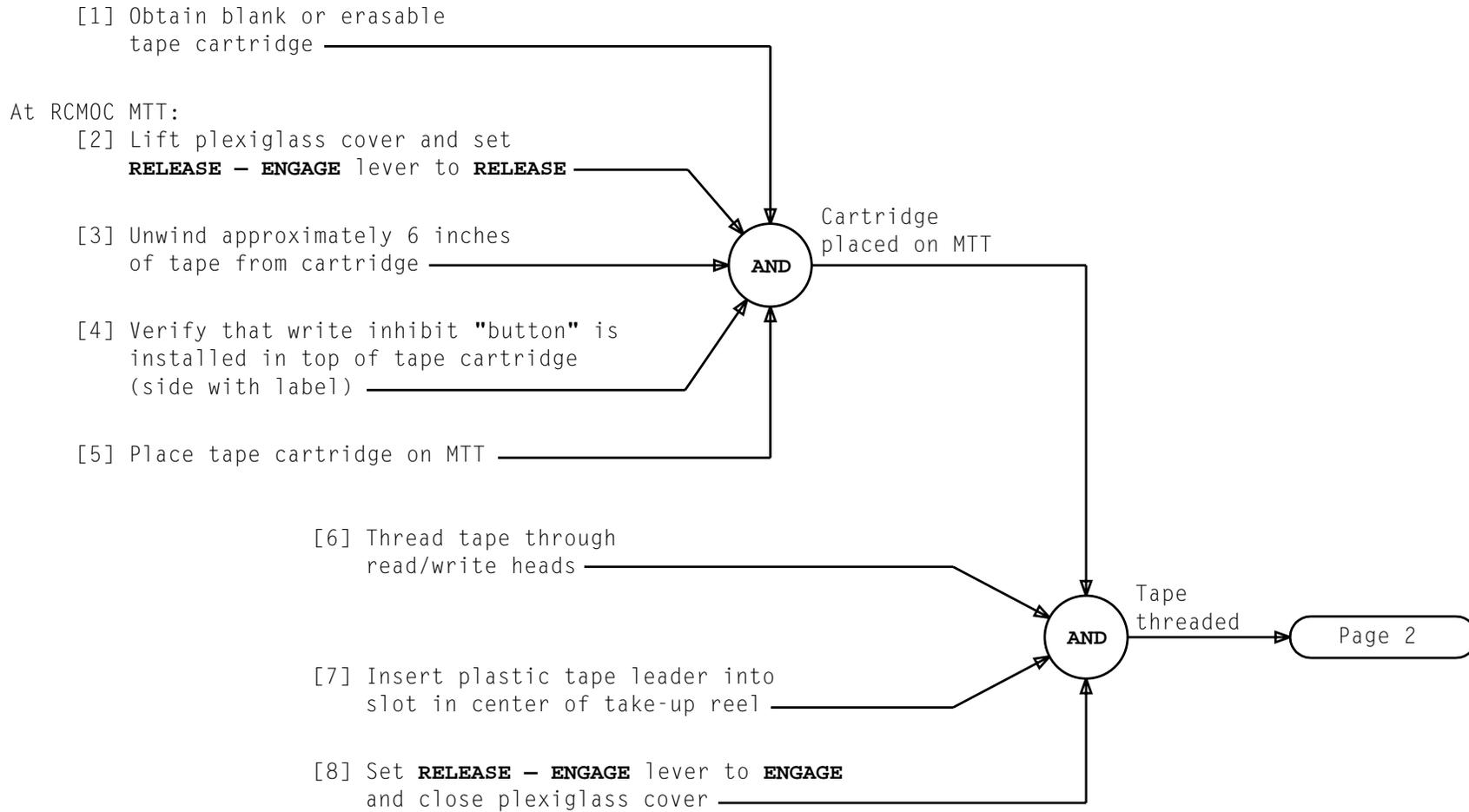


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LOAD AND VERIFY TRAFFIC AND PLANT MEASUREMENT (TPM) DATA USING 800 BPI TAPE

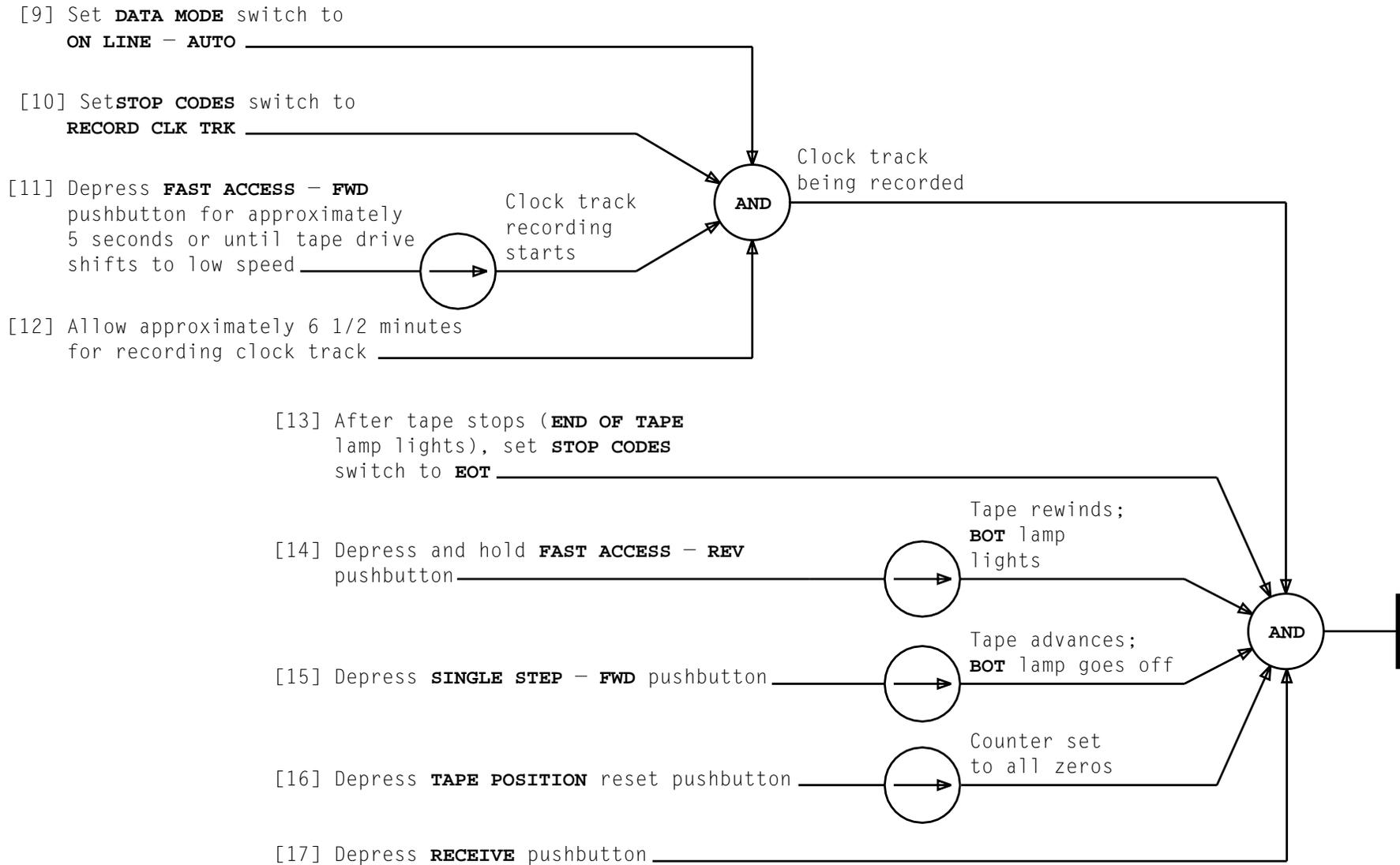
NOTE 1	
It may take several minutes to read tape	
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MOUNT NEW ROLL-FORWARD TAPE CARTRIDGE ON RCMOC MAGNETIC TAPE TRANSCEIVER (MTT)

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MOUNT NEW ROLL-FORWARD TAPE CARTRIDGE ON RCMOC MAGNETIC TAPE TRANCEIVER (MTT)

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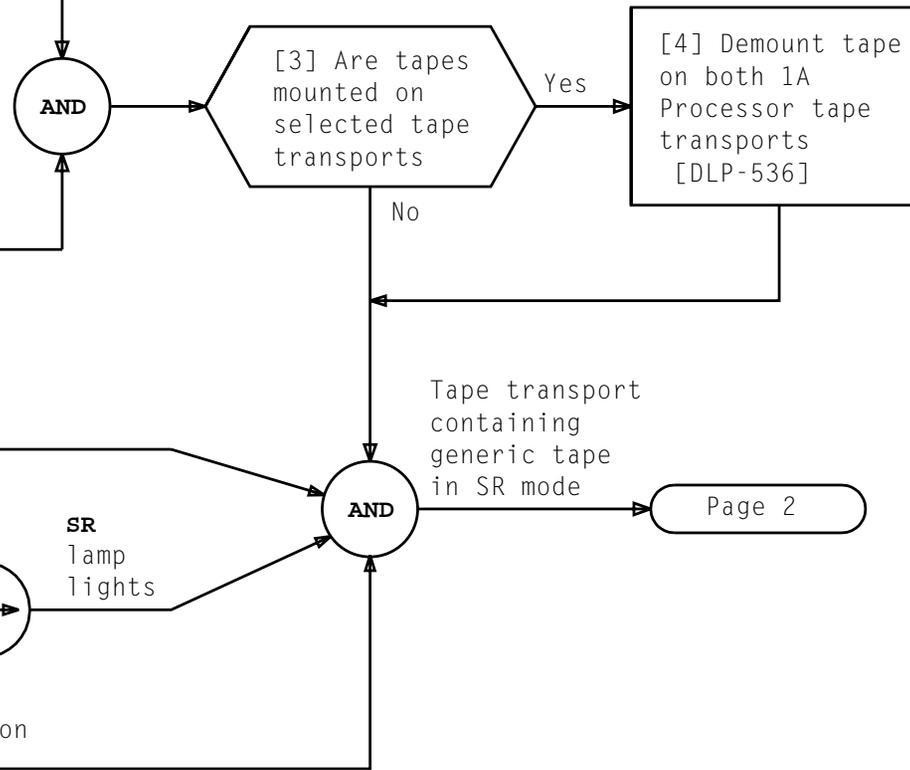
[1] Obtain 800 BPI generic and ODA tapes and ensure that they are compatible

[2] Select two 1A Processor tape transports for mounting generic and ODA tapes

[5] Mount 800 BPI generic and ODA tapes on separate 1A Processor tape transports [DLP-535]

[6] On tape transport with generic tape mounted, depress **SR** pushbutton

[7] If **SR** lamp is lighted on any other tape transport, depress **SR** pushbutton to extinguish lamp



PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION (SR) USING 800 BPI TAPES

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[8] See NOTE 1.
On MCC **SYSTEM REINITIALIZATION** panel, verify that **READY** lamp is lighted

[9] On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, depress **DISABLE AUTO PC** switch/indicator to obtain lighted condition, and depress **RESET COUNTER**

[10] On MCC **SYSTEM REINITIALIZATION** panel, depress **ENABLE DATA UNIT** switch/indicator

[11] On MCC **OVERVERRIDE CONTROL** panel, select an override configuration [TABLE A]

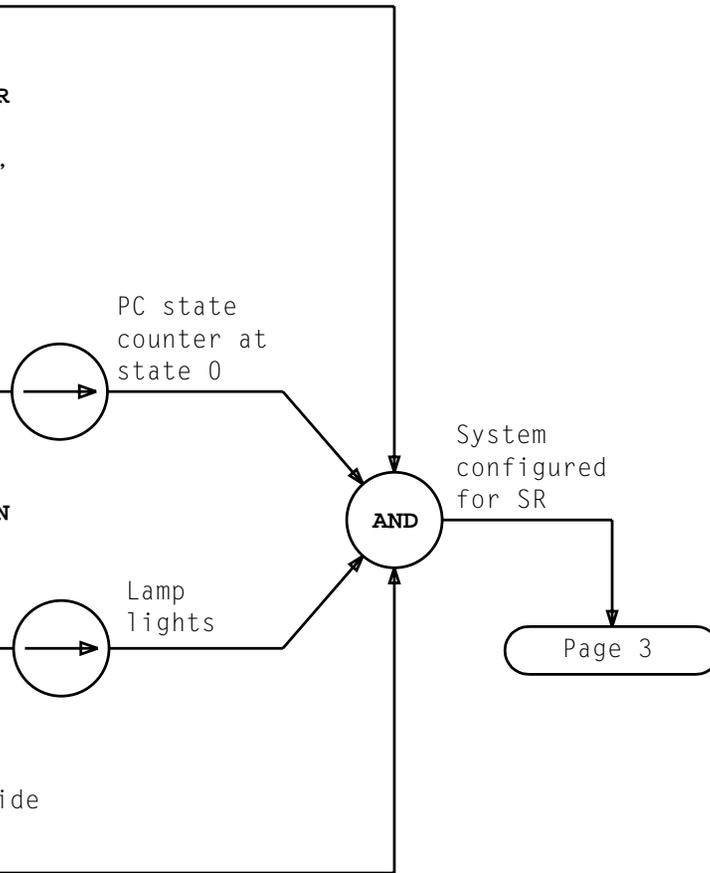
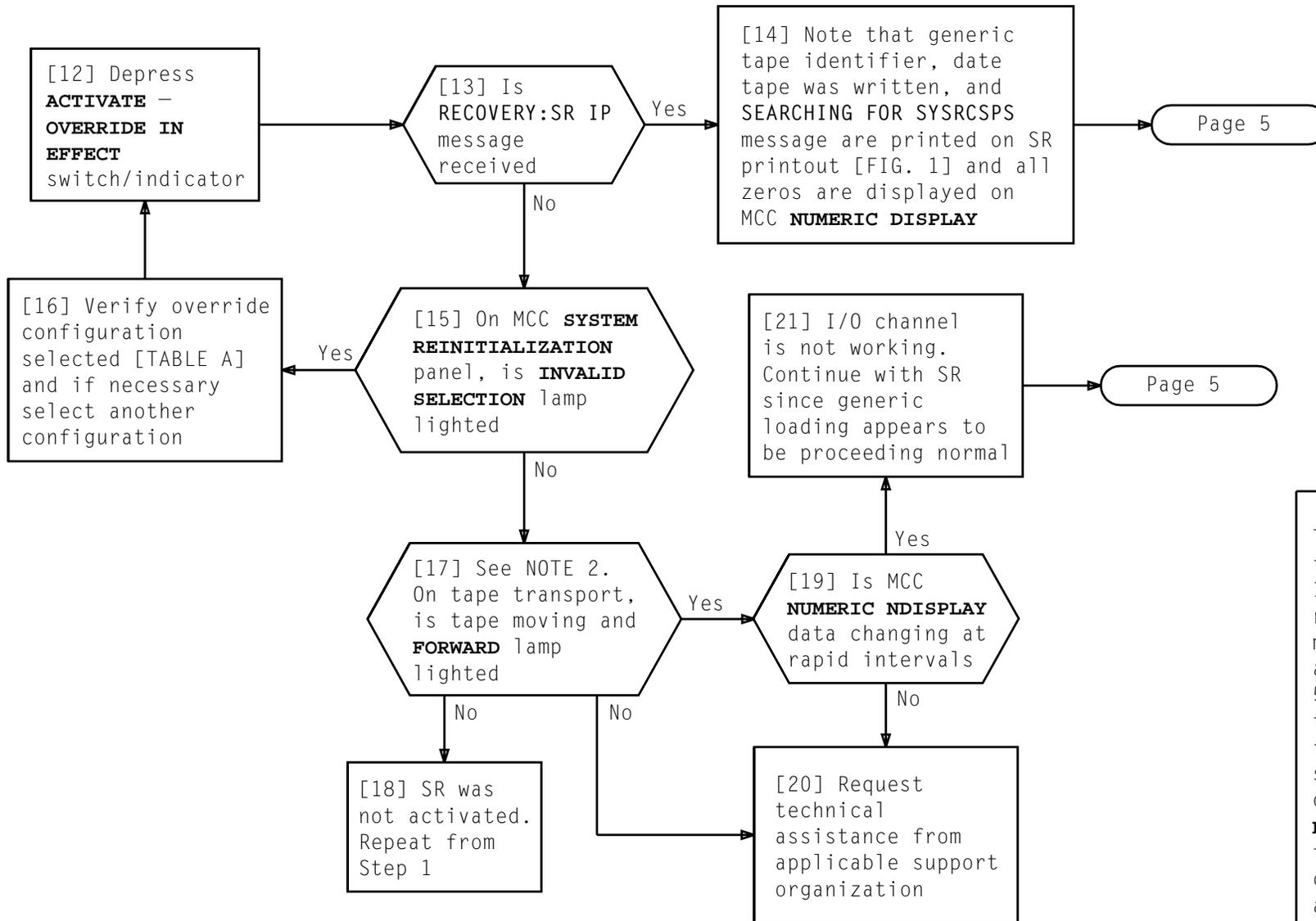


TABLE A VALID OVERRIDE CONFIGURATIONS									
CONFIGURATION	OVERRIDE CONTROL LAMPS								
	CC 0	CC 1	PSB 0	PSB 1	AUB 0	AUB 1	BLOCK 0 PS 0	VARIABLE PS 0	VARIABLE PS 1
1	X		X		X		X		
2	X		X		X			X	
3	X		X		X				X
4	X		X			X	X		
5	X		X			X		X	
6	X		X			X			X
7	X			X	X		X		
8	X			X	X			X	
9	X			X	X				X
10	X			X		X	X		
11	X			X		X		X	
12	X			X		X			X
13		X	X		X		X		
14		X	X		X			X	
15		X	X		X				X
16		X	X			X	X		
17		X	X			X		X	
18		X	X			X			X
19		X		X	X		X		
20		X		X	X			X	
21		X		X	X				X
22		X		X		X	X		
23		X		X		X		X	
24		X		X		X			X

NOTE 1
ERRORS lamp on MCC **SYSTEM REINITIALIZATION** panel should be ignored if it lights during tape loading process

PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION (SR) USING 800 BPI TAPES



NOTE 2	
Tape will move forward for about 15 seconds, then rewind and start moving forward again. Approximately 5 seconds after tape starts moving forward for the second time, zeros on MCC NUMERIC DISPLAY will change to 14000000 and continue changing at rapid intervals as long as generic loading is in process.	
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PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION (SR) USING 800 BPI TAPES

```

INDICATES SR
HAS STARTED → M → RECOVERY:SR IP
                ↓
                4E<14>1.1.01
                WRITTEN 081489
                ** FEATURE = APS **
                SYSRBASE LISTING NUMBER 00000005
                SYSRMAIN LISTING NUMBER 00200005
                SEARCHING FOR SYSRCSPS
                SYSRCSPS LOADED: REWINDING THE TAPE
                SYSRCSPS LISTING NUMBER 00000003
                SEARCHING FOR PSO DATA
                PSO FOUND: LOADING GEN
                14000000 14100000 07600000 07700000 00000000 10000000 10100000 10200000
                10300000 10400000 10500000 10600000 14200000 14300000 14400000 14500000
                14600000 14700000 15000000 15100000 15200000 15300000 15400000 15500000
                15600000 15700000 16000000 16100000 16200000 16300000 16400000 16500000
                16600000 16700000 40000000 41000000 41100000 41200000 41300000 46700000
                47000000 47100000 47200000 47300000 47400000 47500000 47600000 47700000
                50000000 50100000 50200000 50300000 50400000 50500000 50600000 50700000
                51000000 51100000 51200000 51300000 51400000 51500000 51600000 60000000
                60100000
                * API RECONFIGURED *
                → WAITING NEXT TAPE

                0 4E17 H0

                4E<G14>-4R-14.4E03-2
                OFFICE WRITTEN 081489
                14000000 07600000 07700000 07200000 07300000 07400000 07500000 60700000
                61000000 61100000 61200000 61300000 61400000 61500000 61600000 61700000
                62000000 62100000 62200000 62300000 62400000 62500000 62600000 62700000
                63000000 63100000 63200000 63300000 63400000 63500000 63600000 63700000
                64000000 64100000 64200000 64300000
                DISK DATA IS LOADED
                M → RECOVERY:SR COMP
                CHANNEL IDLE
                ← SUCCESSFUL
                COMPLETION
                OF SR

```

FIG. 1 - Sample SR Printout (Addresses May Not Agree With Actual Office Data)

PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION (SR) USING 800 BPI TAPES

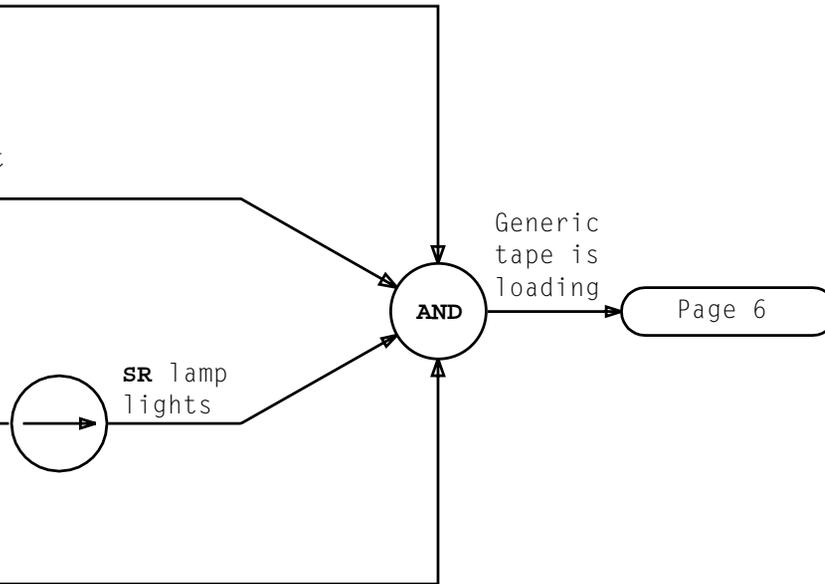
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[22] After approximately 15 seconds, expect
 SYSRCSPS LOADED: REWINDING THE TAPE,
 SYSRCSPS LISTING NUMBER 00000003,
 SEARCHING FOR PSO DATA, and
 PSO FOUND: LOADING GEN output messages
 to be printed [FIG. 1]

[23] See NOTE 3. Observe that zeros on
 MCC **NUMERIC DISPLAY** change to 14XXXXXX
 and 14000000 is printed on TTY printout
 [FIG. 1]

[24] After addresses have been changing for
 at least 1 minute, and/or several
 addresses have been printed, depress
SR pushbutton on tape transport
 with **ODA** tape mounted

[25] See NOTE 4. At TTY or MCC **NUMERIC
 DISPLAY**, observe generic loading
 progress



NOTES

3. Addresses on MCC **NUMERIC DISPLAY** will be changing at a rapid rate while addresses on TTY printout will only change every 7-8 seconds
4. It will take several minutes for generic load to complete. If errors occur during loading process, **FAIL ADDR** lamp on MCC **SYSTEM DISPLAY** panel will light. If **FAIL ADDR** lamp does not light, when addresses stop changing generic load is successful. **WAITING NEXT TAPE** is printed after last generic address if I/O channel is working.

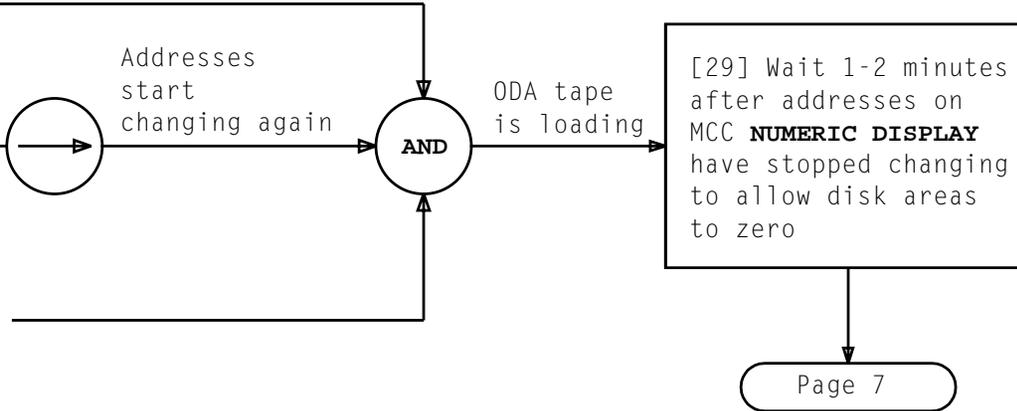
**PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION
 (SR) USING 800 BPI TAPES**

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[26] When addresses stop changing and/or
WAITING NEXT TAPE is printed, on MCC
MANUAL INTERRUPT PROGRAM REQUEST panel
 depress **MODIFY RECOVERY ACTION**
 switch/indicator

[27] Depress **ACTIVATE-PROGRAM REQUEST**
 switch

[28] See NOTE 5. At TTY or MCC **NUMERIC**
DISPLAY, observe loading progress



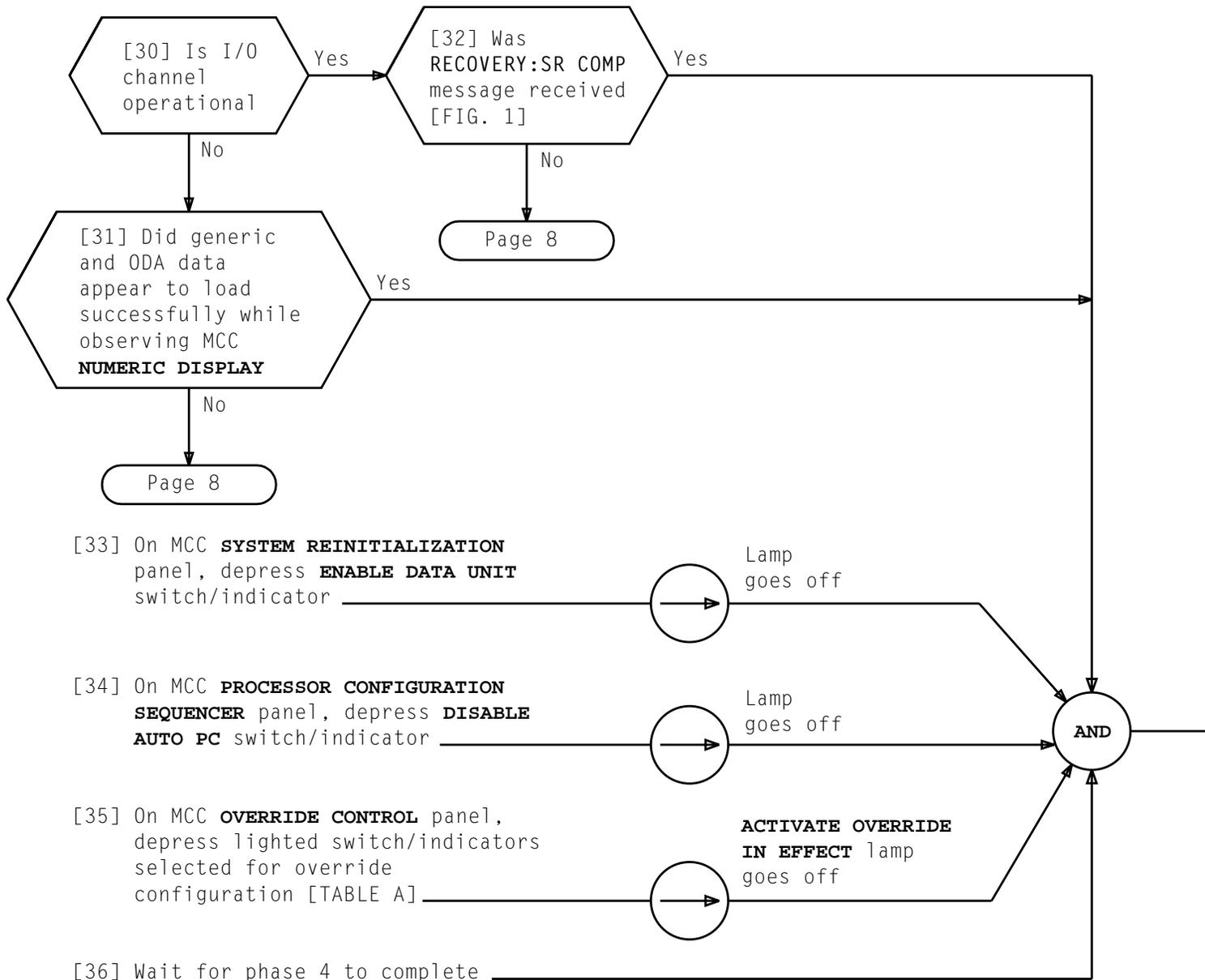
[29] Wait 1-2 minutes
 after addresses on
 MCC **NUMERIC DISPLAY**
 have stopped changing
 to allow disk areas
 to zero

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NOTE 5
 It takes several
 minutes for ODA
 load to complete.
 ODA load is
 successful if **FAIL**
ADDR lamp does not
 light after
 addresses stop
 changing.

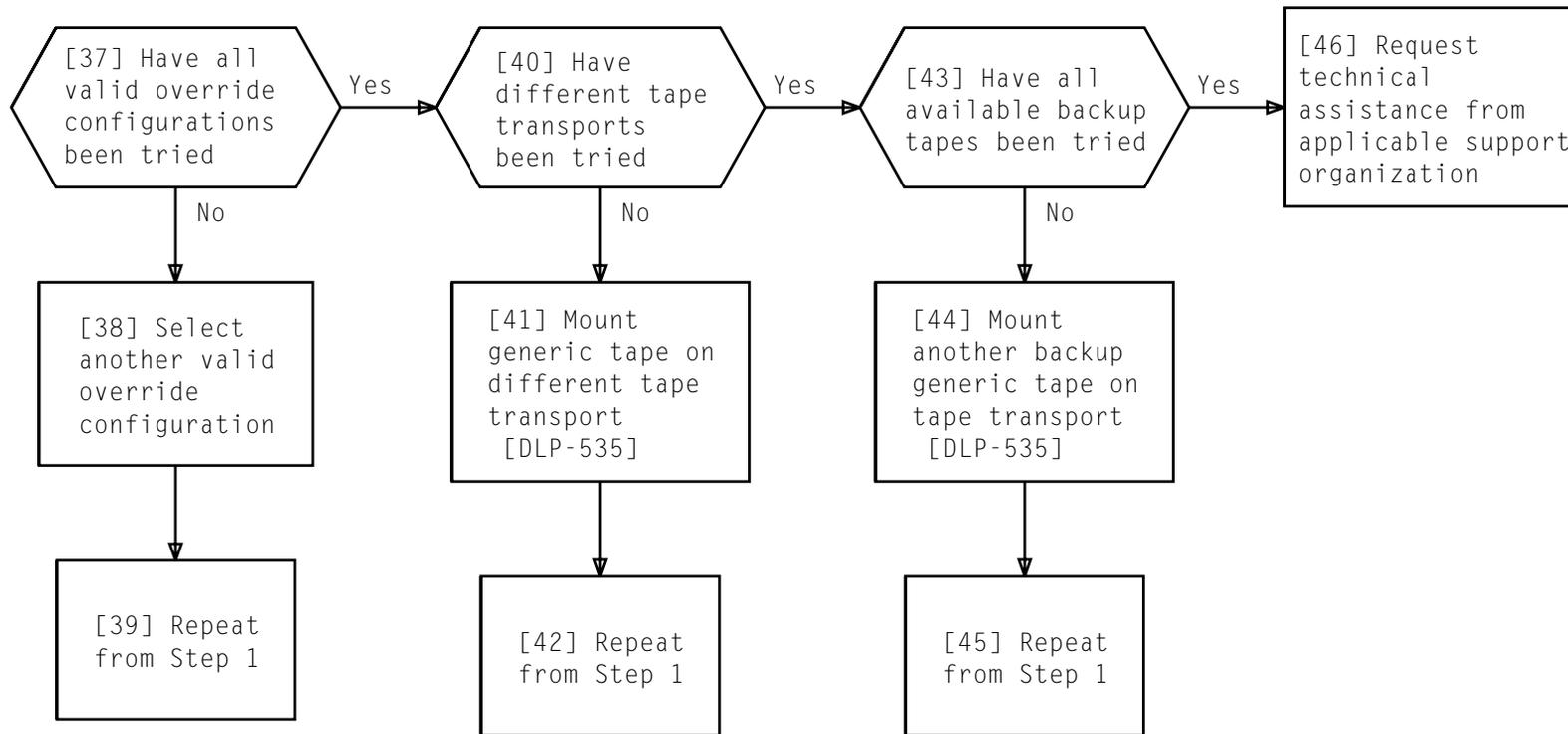
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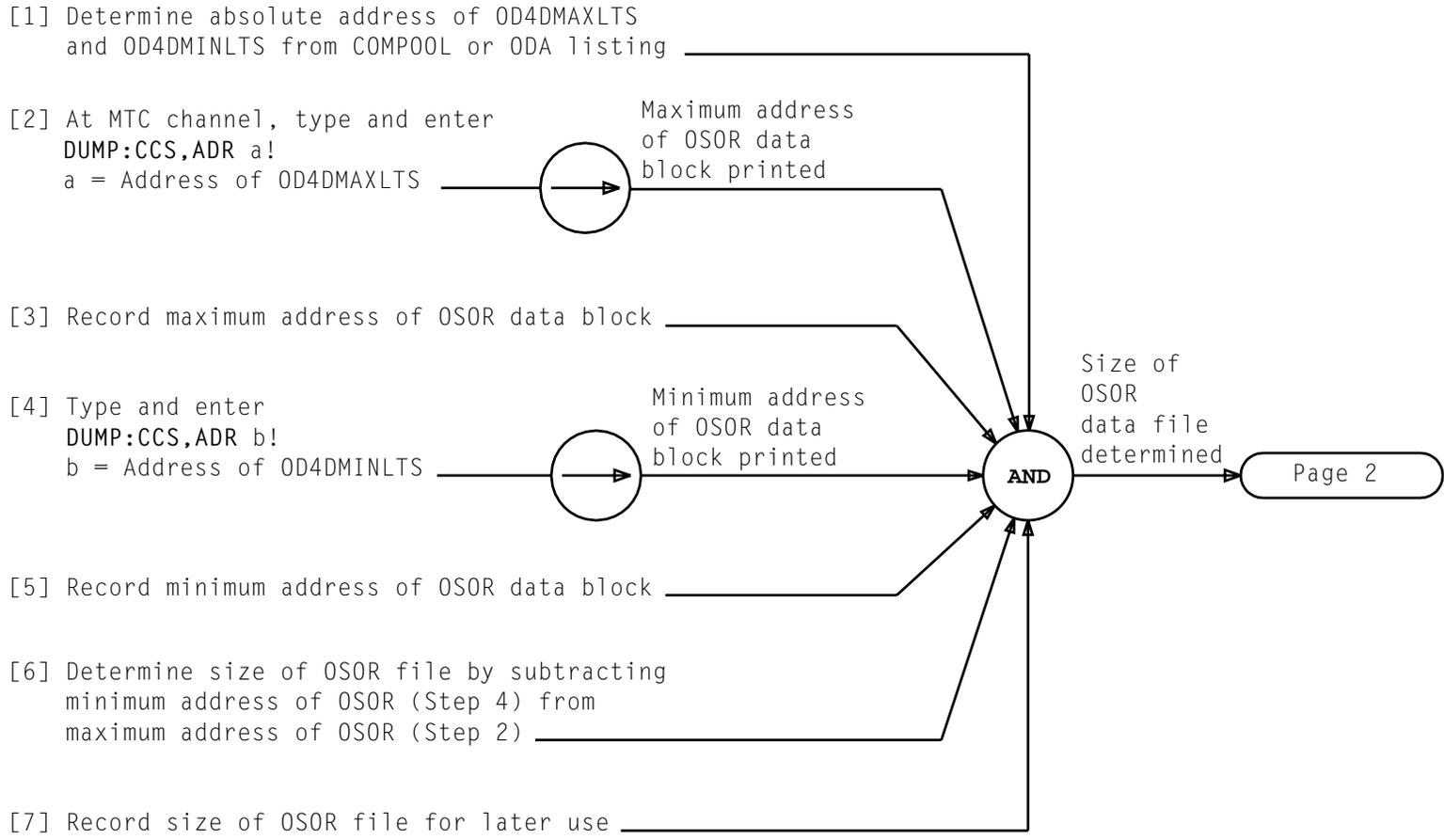
**PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION
 (SR) USING 800 BPI TAPES**



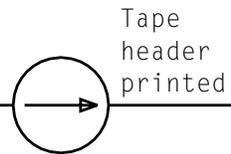
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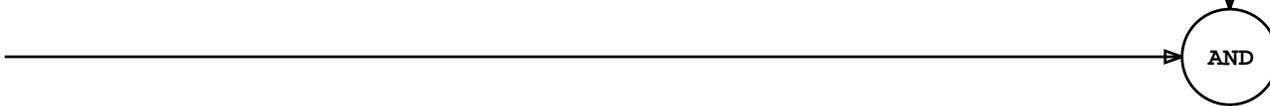




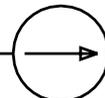
[8] Type and enter
 SET:TUC a;FUNCTION UTL!
 a = TUC member number
 with OSOR tape mounted



[9] Type and enter
 ALW:TUC a:RO!
 a = TUC member number

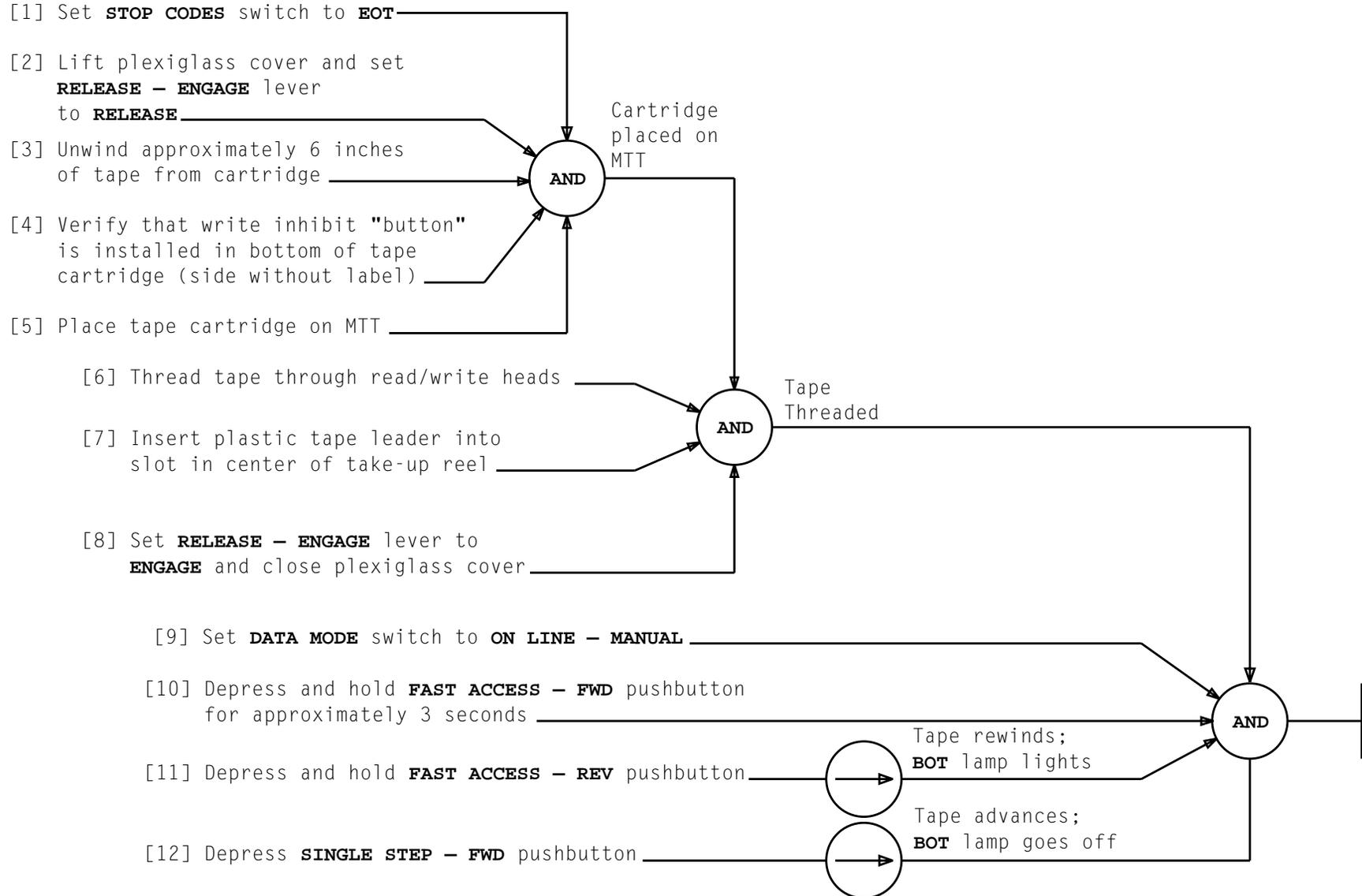


[10] Type and enter
 COPY:TAPE, FN a OSOR b, L 0'c;FS,ACT,ID OSDATA,ADR d!
 a = Tape identifier
 b = Date tape was written (month, day, and year)
 c = Size of OSOR file
 d = Minimum address of OSOR file



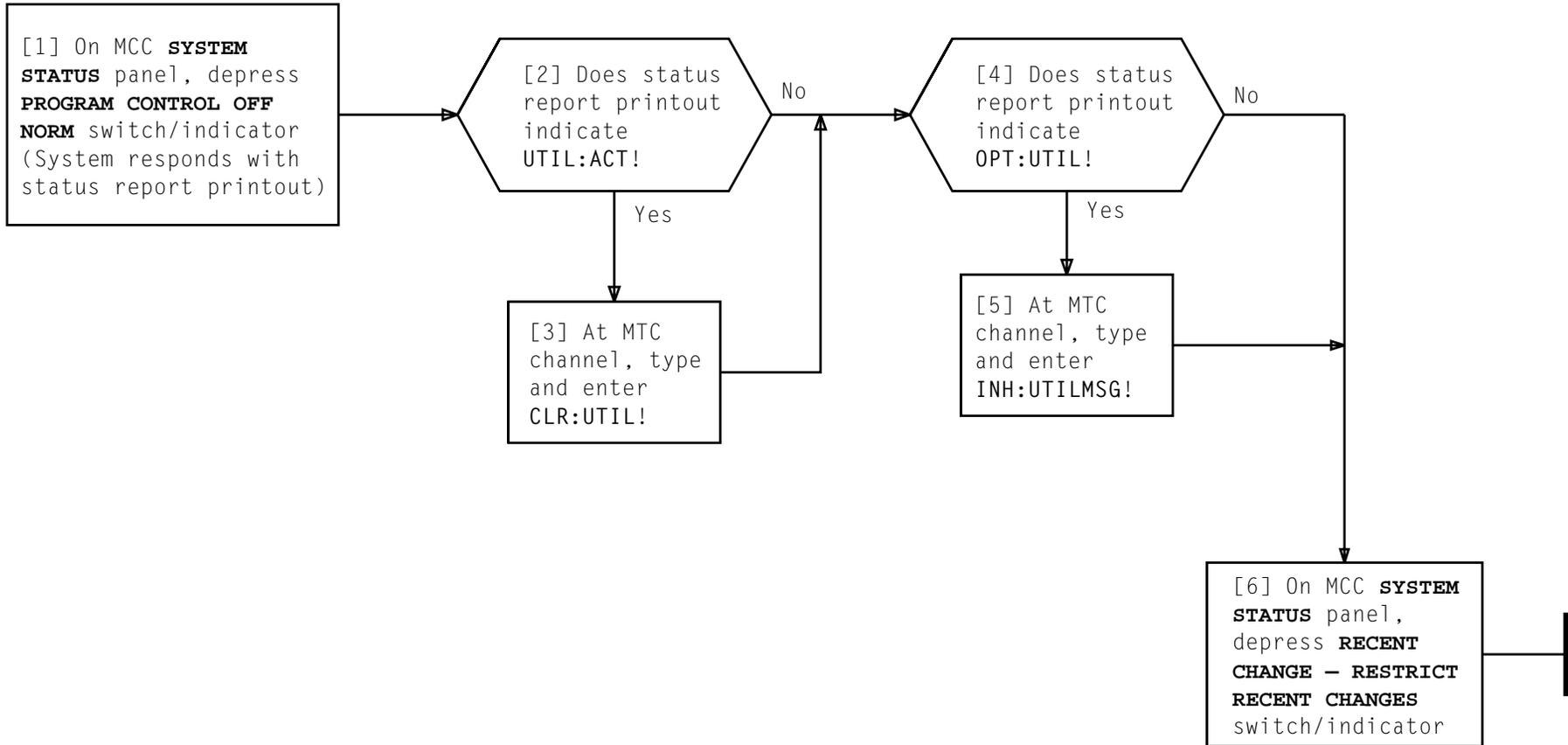
System responds with
 COPY:TAPE, FN a OSOR bbbbbbb,
 BLK 0;FS,ACT,ADR
 INC + 0 COMPLETED message

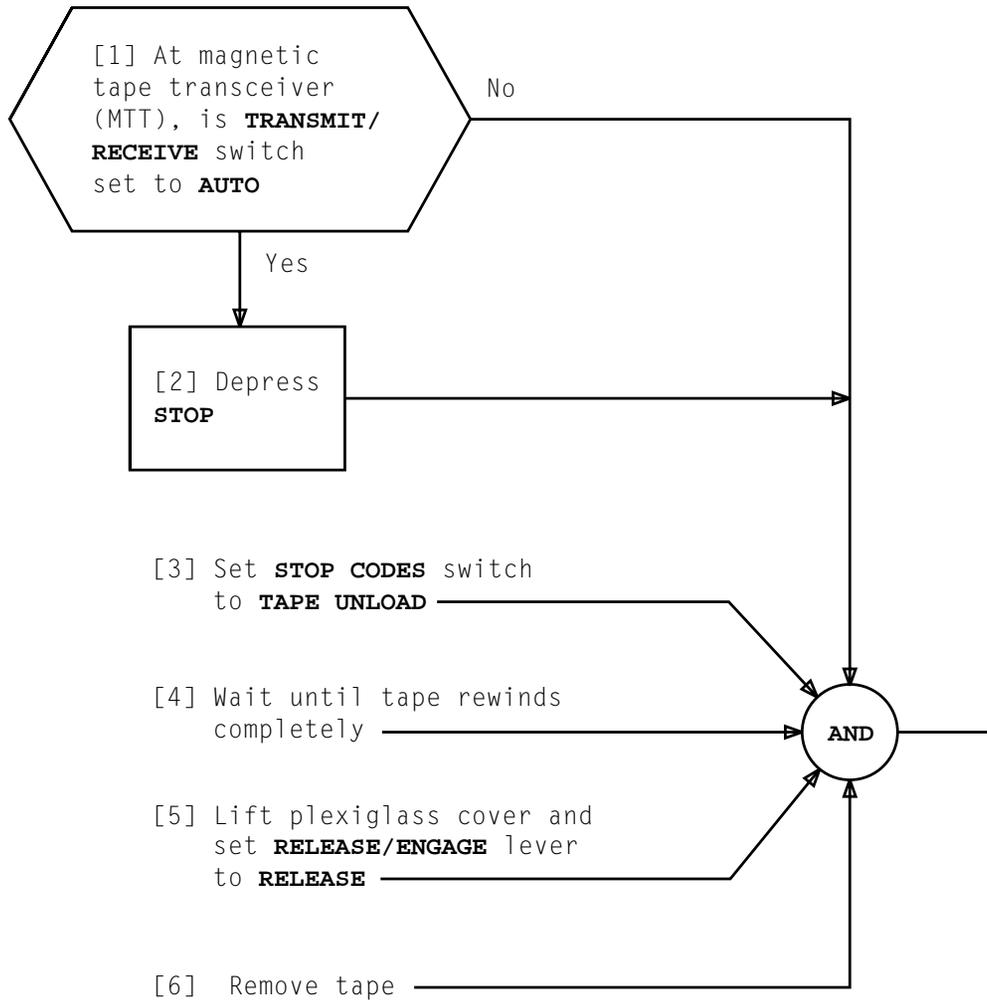
At SREC 1 MTT:



MOUNT RECORDED ROLL-FORWARD TAPE CARTRIDGE ON SREC 1 MAGNETIC TAPE TRANSCIEVER (MTT)

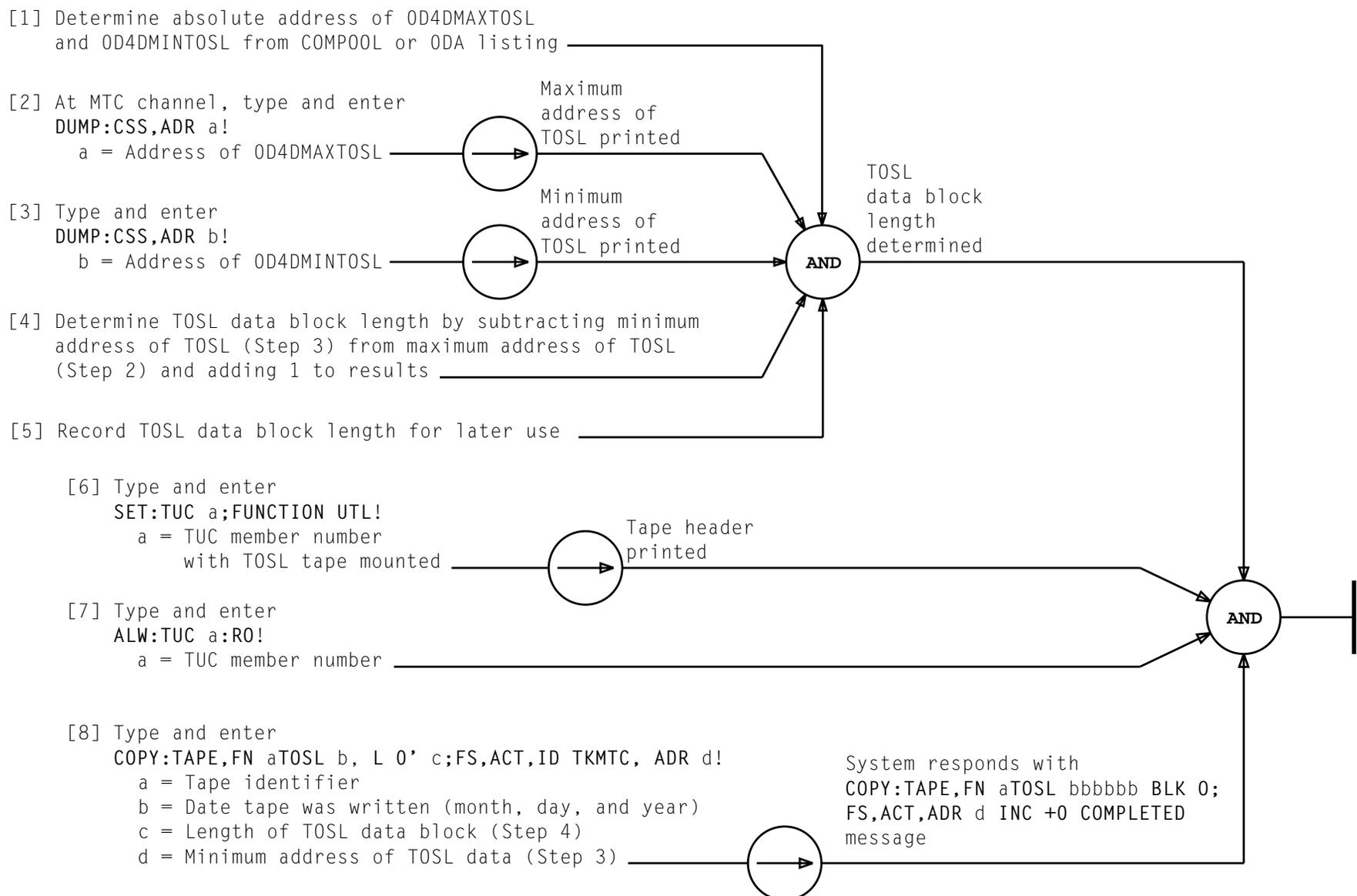
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DEMOUNT ROLL-FORWARD TAPE CARTRIDGE ON MAGNETIC TAPE TRANSCEIVER (MTT)

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LOAD AND VERIFY TRUNK OUT-OF-SERVICE LIST (TOSL) DATA USING 800 BPI TAPE

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[1] See CAUTION 1 and NOTE 1.
 On MCC **SYSTEM STATUS** panel,
 depress **RECENT CHANGE -**
RESTRICT RECENT CHANGES
 switch/indicator

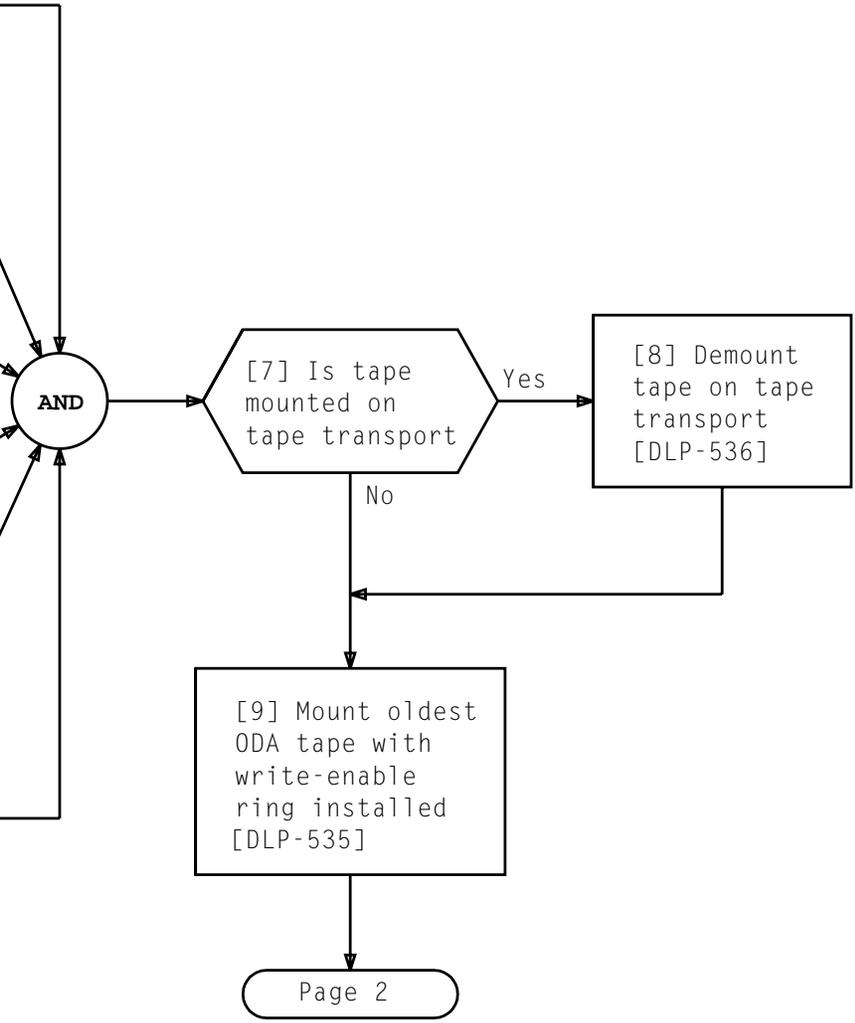
[2] At MTC channel,
 type and enter
AUD:NUM(43,44,45)!

[3] Demount roll-forward
 tape cartridge on
 RCMOC MTT [DLP-521]

[4] Label and store tape
 cartridge per local
 instructions

[5] Mount new roll-forward
 tape cartridge on
 RCMOC MTT [DLP-516]

[6] Select available tape
 transport for mounting
 tape to be written

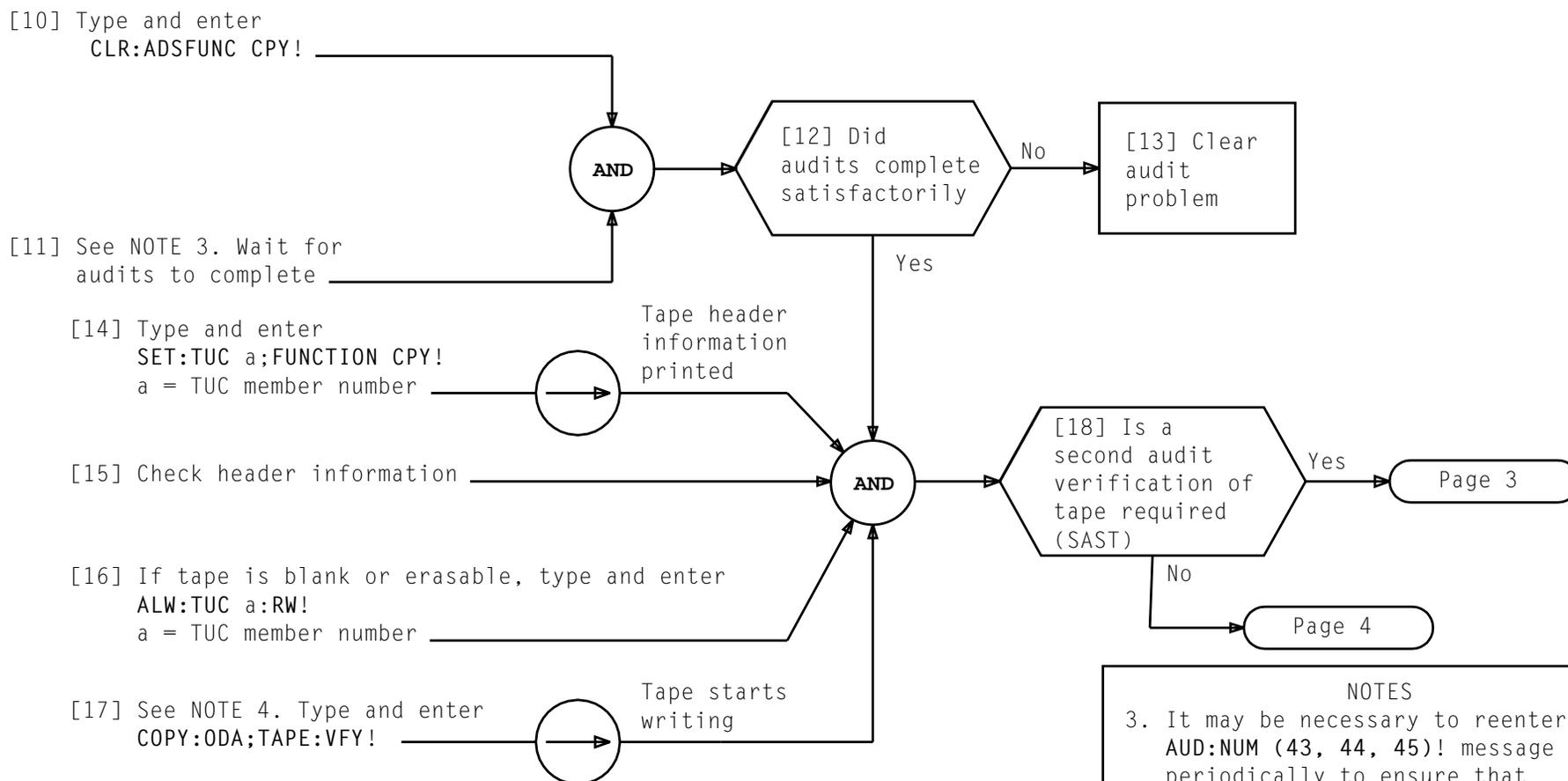


NOTES

1. Three pairs of backup ODA tapes, containing last three RC updates, are kept in office. Tapes are rotated with oldest tapes being rewritten when RC update is done
2. It takes approximately 12 minutes for audits to run

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

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NOTES

3. It may be necessary to reenter AUD:NUM (43, 44, 45)! message periodically to ensure that audits have not been interrupted

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

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[19] After tape has been written, verified, and REPT:DEMOUNT TAPE FROM TUC a message is printed, demount tape just written [DLP-536] and mount it on another tape transport [DLP-535]

[20] Type and enter
SET:TUC a;FUNCTION AUT!
a = TUC member number

Tape header information printed

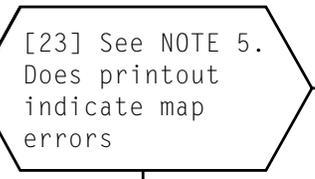
[21] Type and enter
ALW:TUC a:RO!
a = TUC member number

[22] Type and enter
AUD:ODA;NCG!

Audit begins



SAST in progress



[23] See NOTE 5.
Does printout indicate map errors

No

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Yes

[24] Request technical assistance from applicable support organization

NOTE 5
As audit is being run, the following messages will be printed if no errors are encountered:

```

AUD:ODA;NCG IN PROGRESS
  0 ERROR(S) IN CS2FS MAP DETECTED

AUD:ODA;NCG IN PROGRESS
  0 ERROR(S) IN ID2FS MAP DETECTED

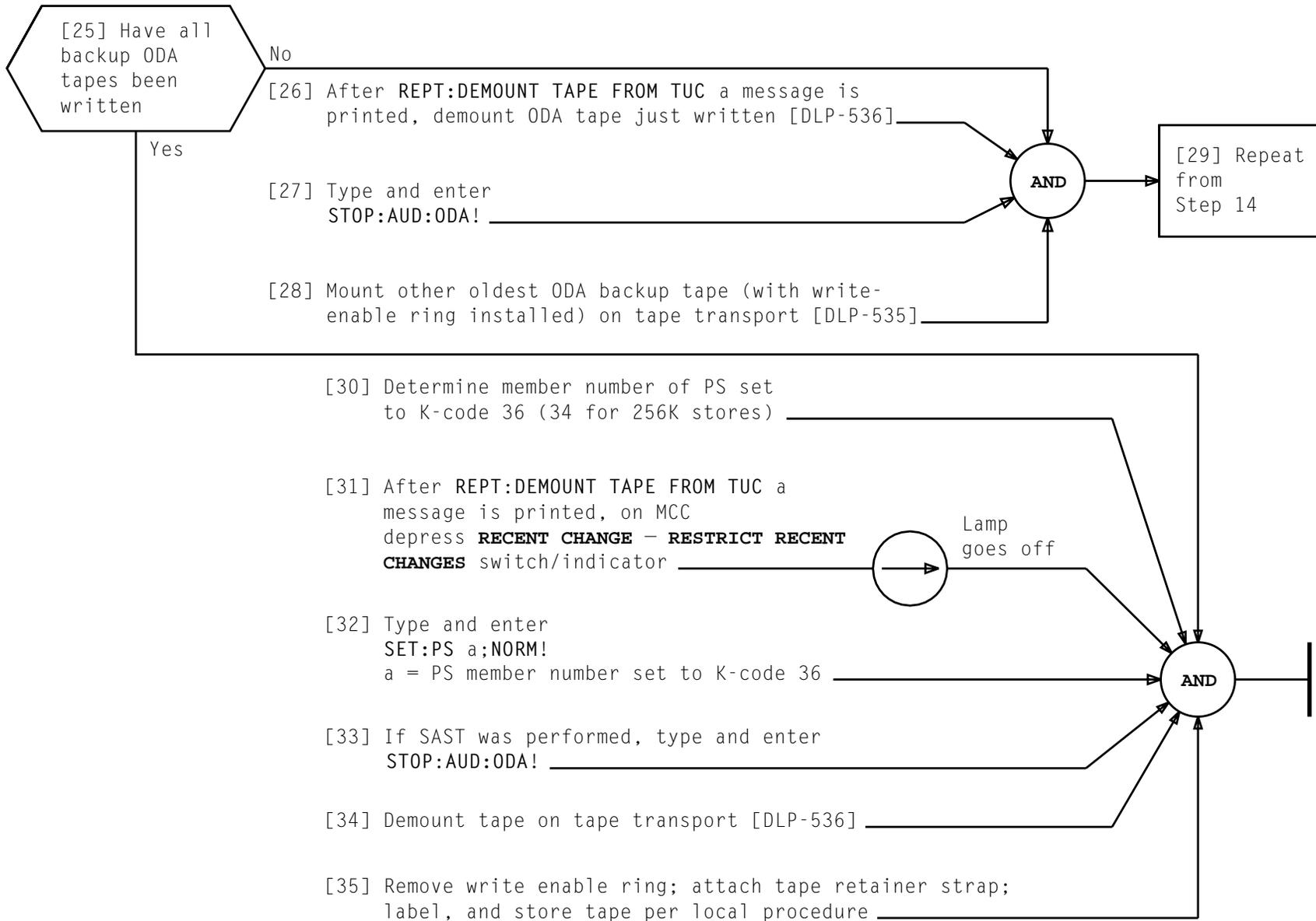
AUD:ODA;NCG IN PROGRESS
  0 ERROR(S) IN HASH TABLES DETECTED

AUD:ODA;NCG IN PROGRESS TAPE DONE
AWAITING INSTRUCTIONS

REPT: DEMOUNT TAPE FROM TUC a

```

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[1] On MCC **SYSTEM STATUS** panel, depress **RECENT CHANGE – RESTRICT RECENT CHANGES** switch/indicator

At MTC channel:

[2] Type and enter
OP:RCBORNU!

[3] Label printout *BUFFER BEFORE ROLLBACK* and save for later use

[4] Type and enter
OP:RCRORNU,ALL!

[5] Label printout *ROLLBACK AREA BEFORE ROLLBACK* and save for later use

[6] See CAUTION 1. Using reinitialization file and recent change message suspected to be in error, determine type of rollback to be performed

AND

[7] Perform applicable rollback procedure [TABLE A]

AND

[8] Inform network manager of type and number of RCDMs rolled back

[9] If trunks were affected by rollback, request TOC to change status of affected trunks to CAD disable

CAUTION 1
Rollback of recent change data messages may result in severe service disruption due to change in routing and/or trunk assignment. Therefore, extreme caution should be exercised before deciding to perform rollback. Perform rollback only when absolutely necessary and limit rollback to fewest number of orders necessary to remove incorrect data.

TABLE A ROLLBACK OPTIONS	
ROLLBACK OPTION	PROCEDURE NUMBER
Roll back to specific order number	DLP-500
Roll back specified number of rollback blocks	DLP-501
Roll back to latest tape dump (Tape 2)	DLP-502
Roll back to next-to-latest tape dump (Tape 1)	DLP-503

PERFORM RECENT CHANGE ROLLBACK

[1] See CAUTION 1. Manually inhibit any Network Management database changes via page CN20

[2] Select available tape transport for mounting tape to be written, and demount tape if one is mounted [DLP-536]

[3] Mount blank or erasable tape with write-enable ring installed [DLP-535]

At MTC channel:

[4] Type and enter

CLR:ADSFUNC CPY!

[5] Type and enter

SET:TUC a;FUNCTION CPY!

a = TUC member number

[6] Check header information

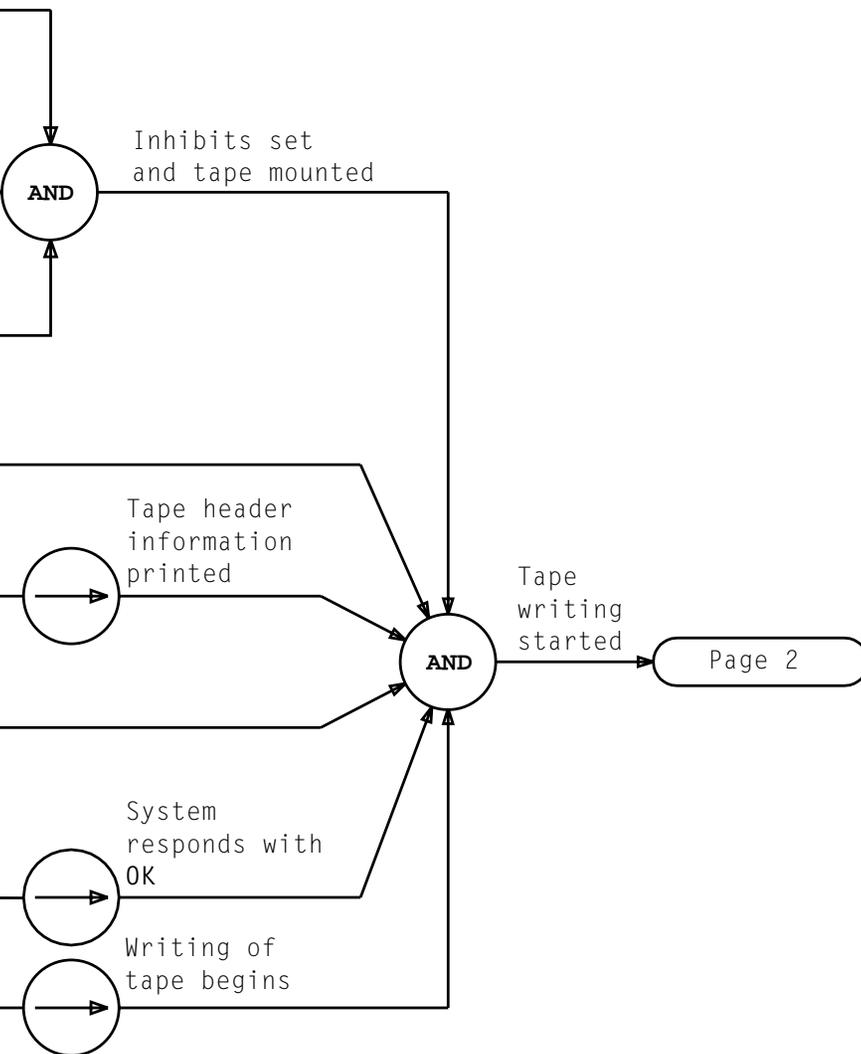
[7] If tape is blank or erasable, type and enter

ALW:TUC a:RW!

a = TUC member number

[8] See NOTE 1. Type and enter

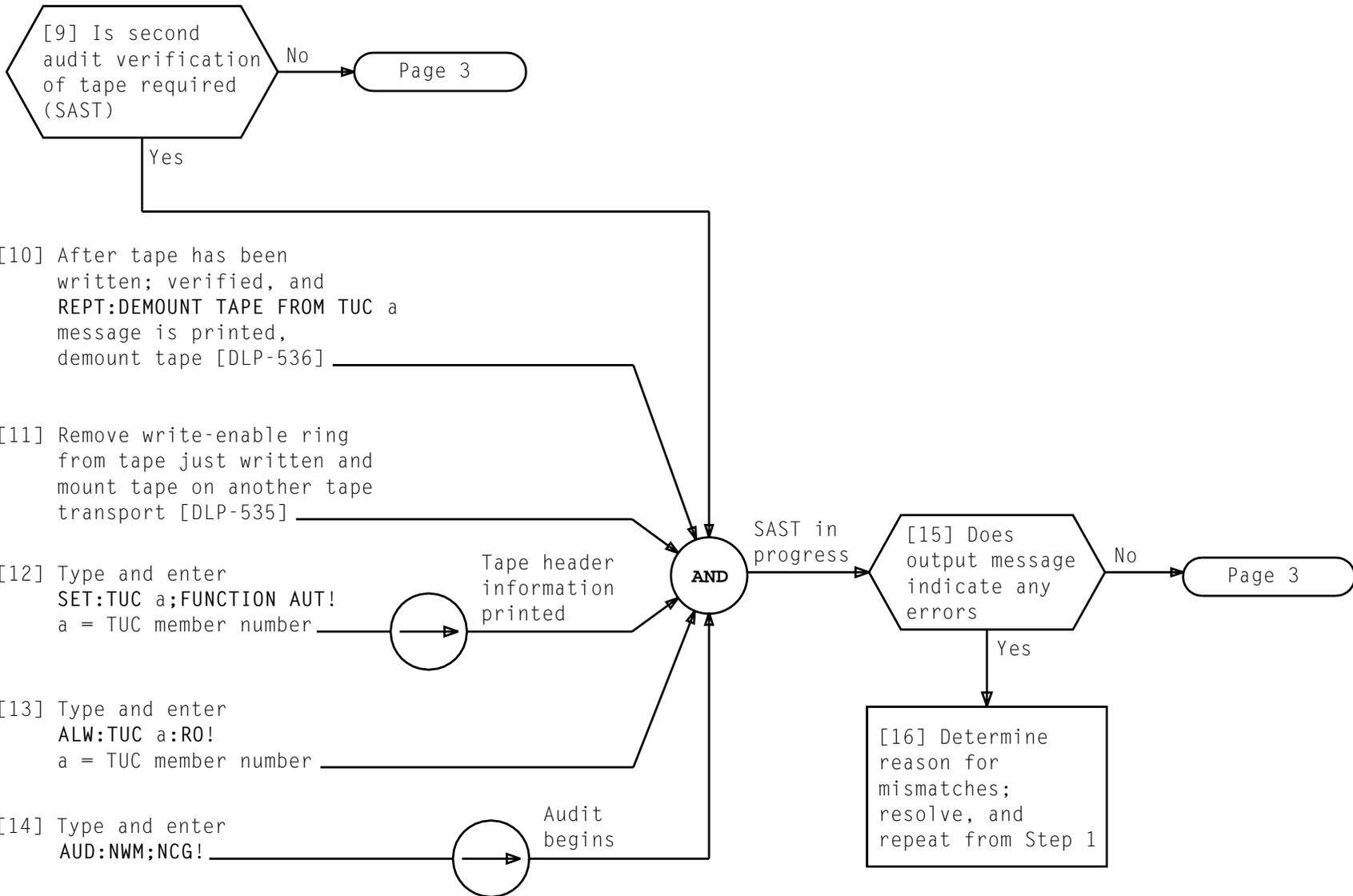
COPY:NWM;TAPE:VFY!

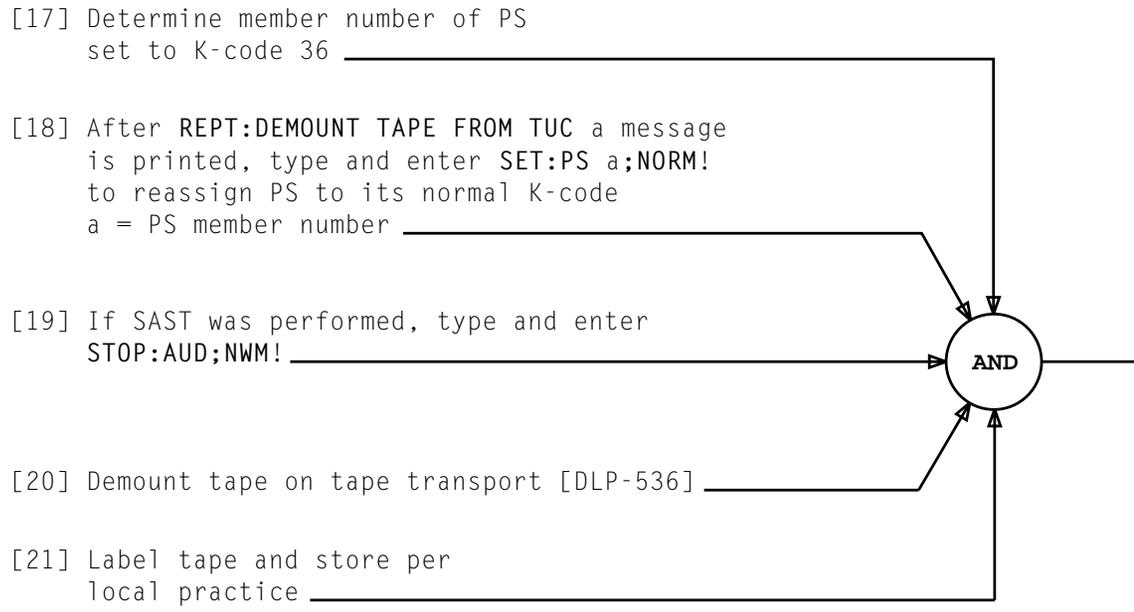


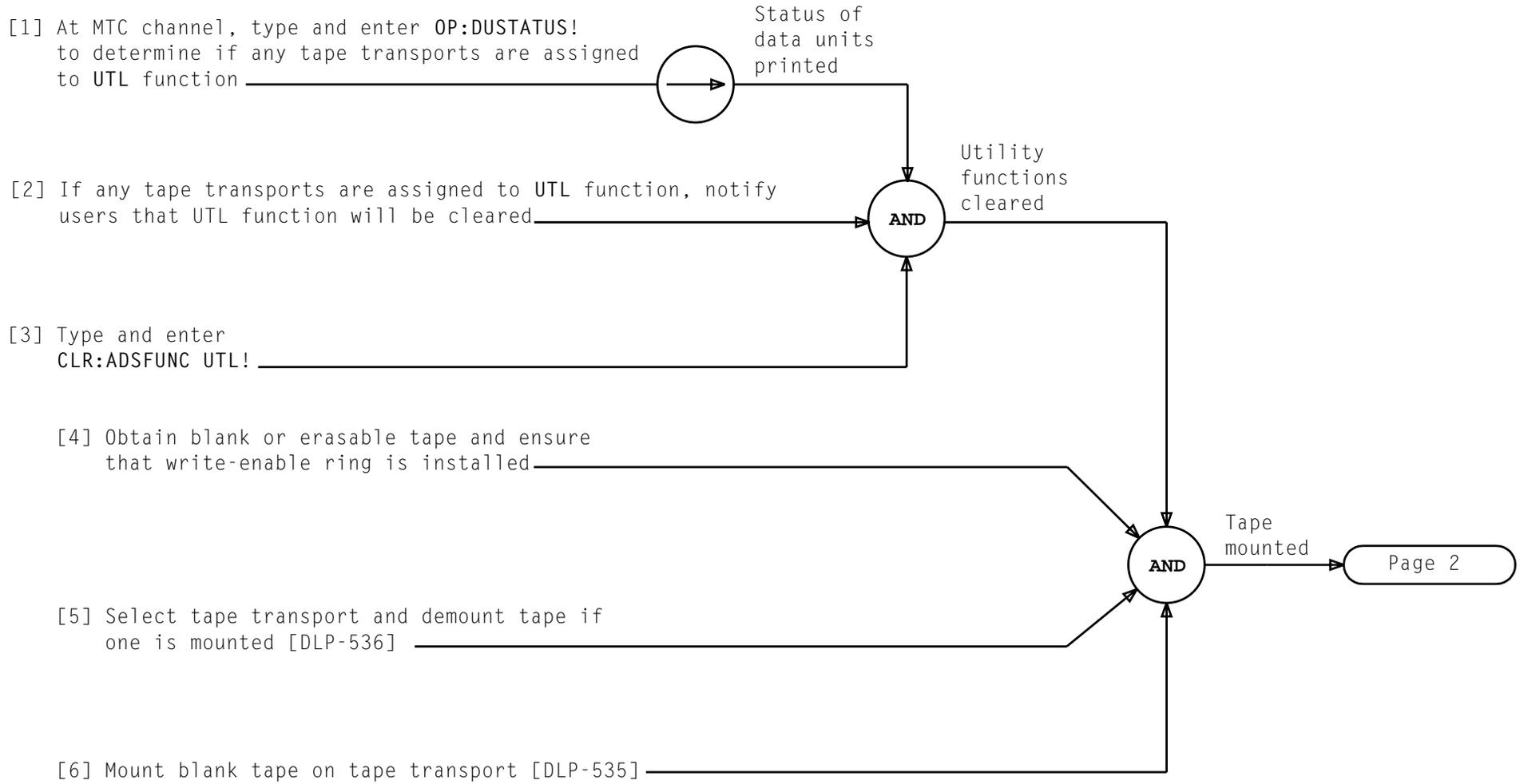
NOTE 1
 After NWM tape is written, COPY:NWM;TAPE COMPL (DATE, TIME) message is printed. Tape will rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL message is printed followed by REPT:DEMOUNT TAPE FROM TUC a

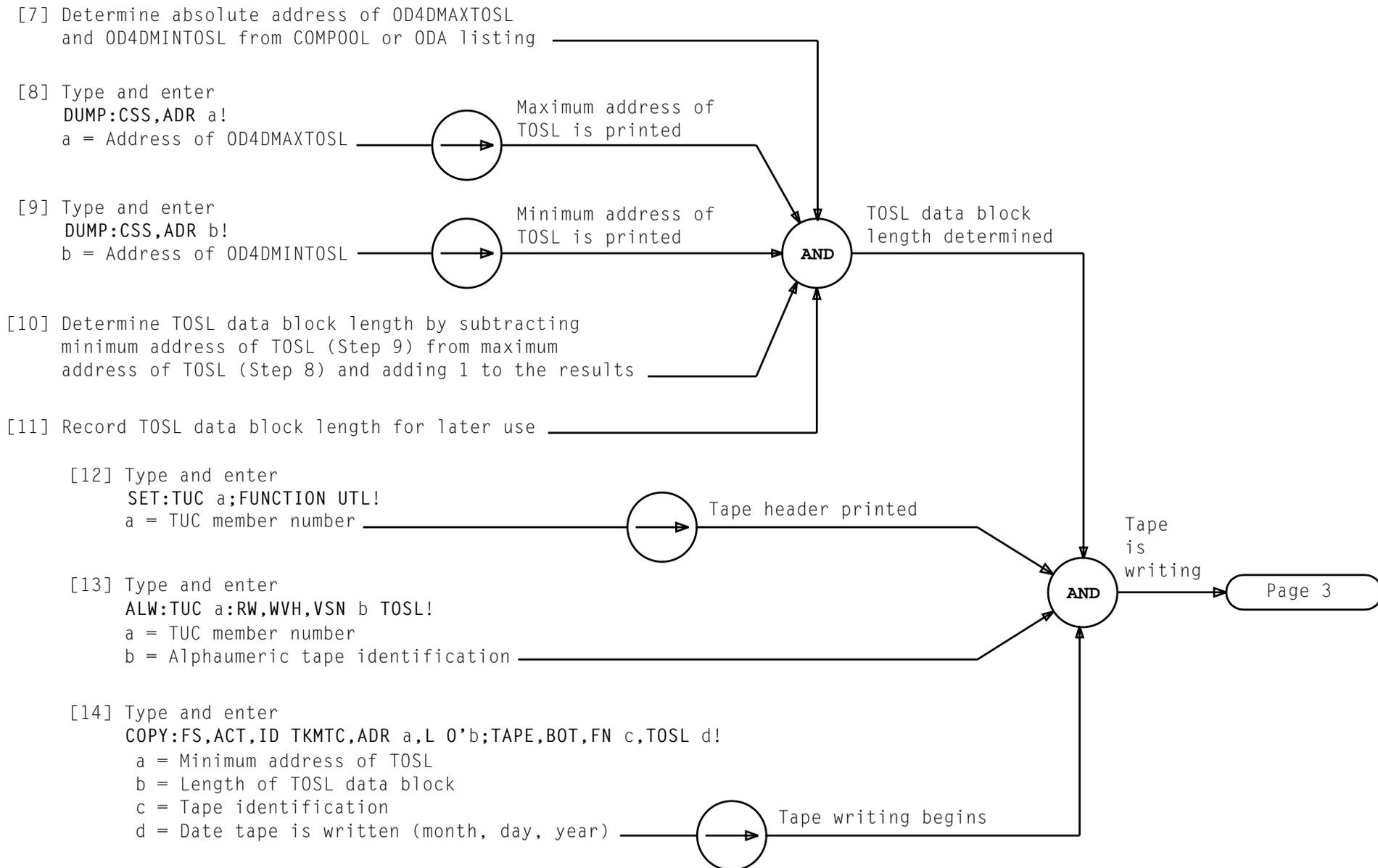
CAUTION 1
 Certain system audits are inhibited during tape writing. Therefore, tape writing should be done during light traffic periods

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WRITE 800 BPI TRUNK OUT-OF-SERVICE LIST (TOSL) TAPE

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[15] Wait for COPY:FS,ACT,ADR a,INC +0;TAPE,FN b TOSLdddddd COMPLETED
message to print

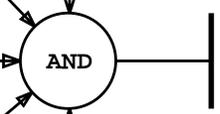
[16] Type and enter
CLR:ADSFUNC UTL!



[17] After REPT:DEMOUNT TAPE FROM TUC a message is printed,
demount tape on tape transport [DLP-536]

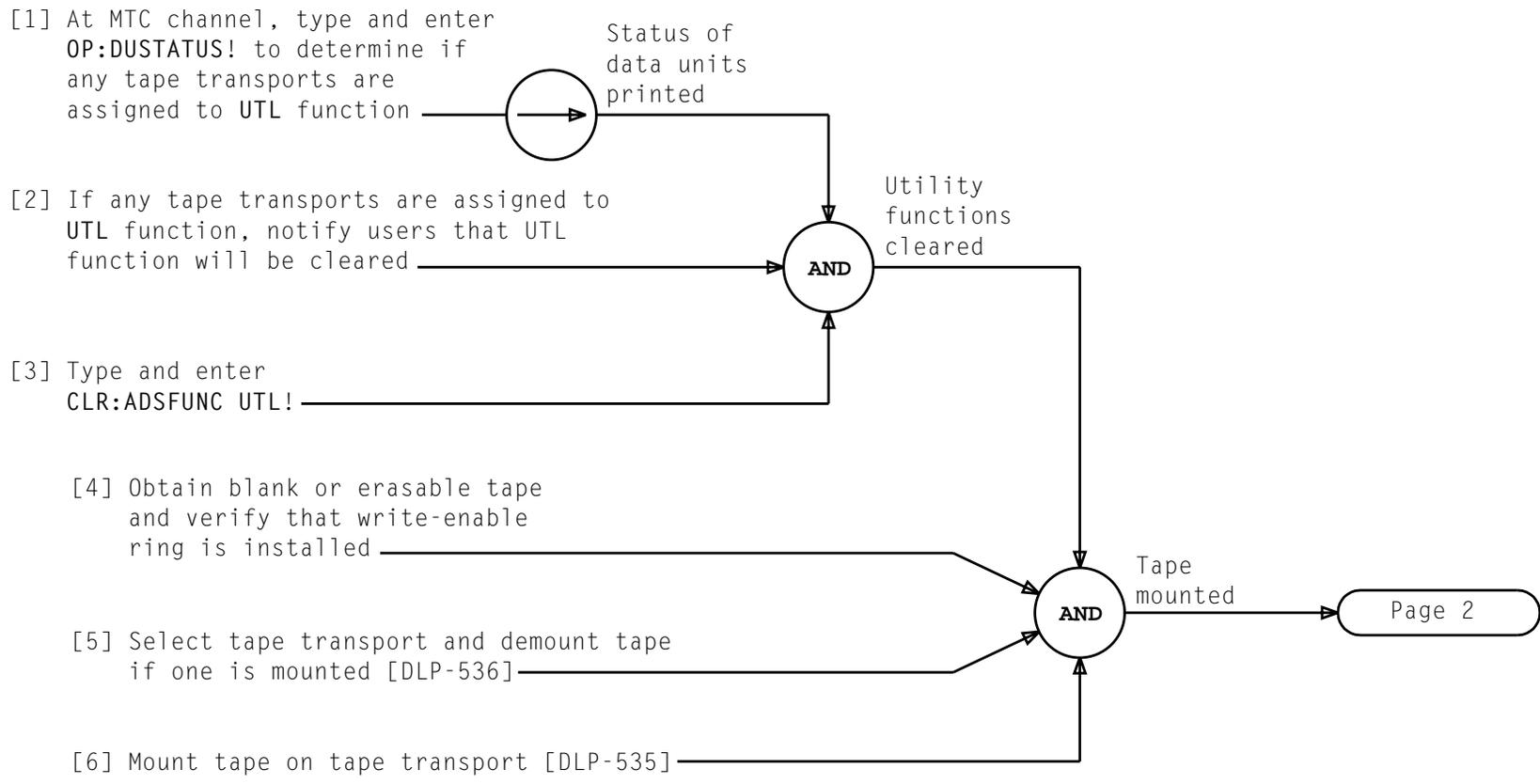
[18] Remove write-enable ring and attach tape retainer strap

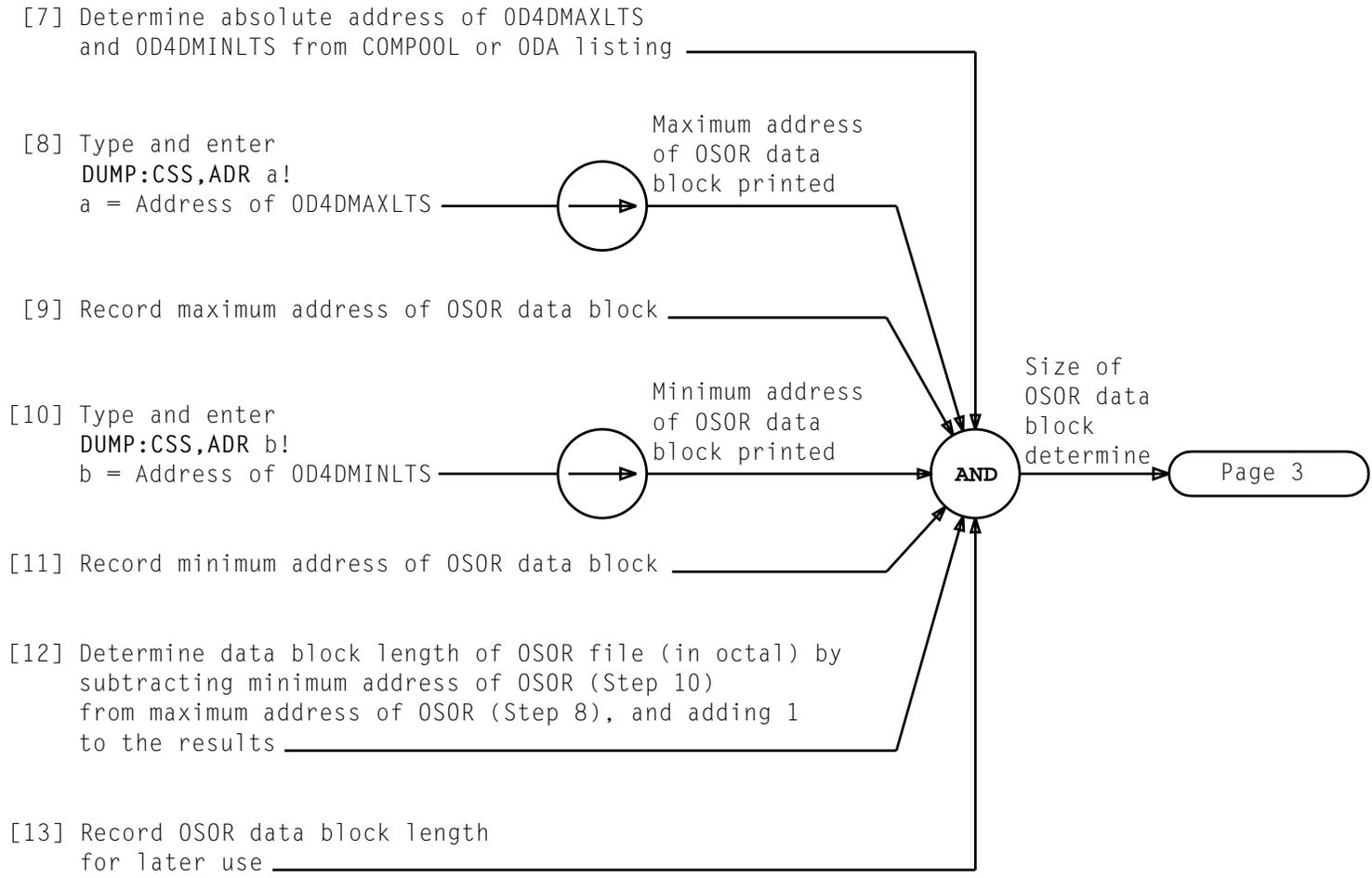
[19] Label tape and store per
local procedure

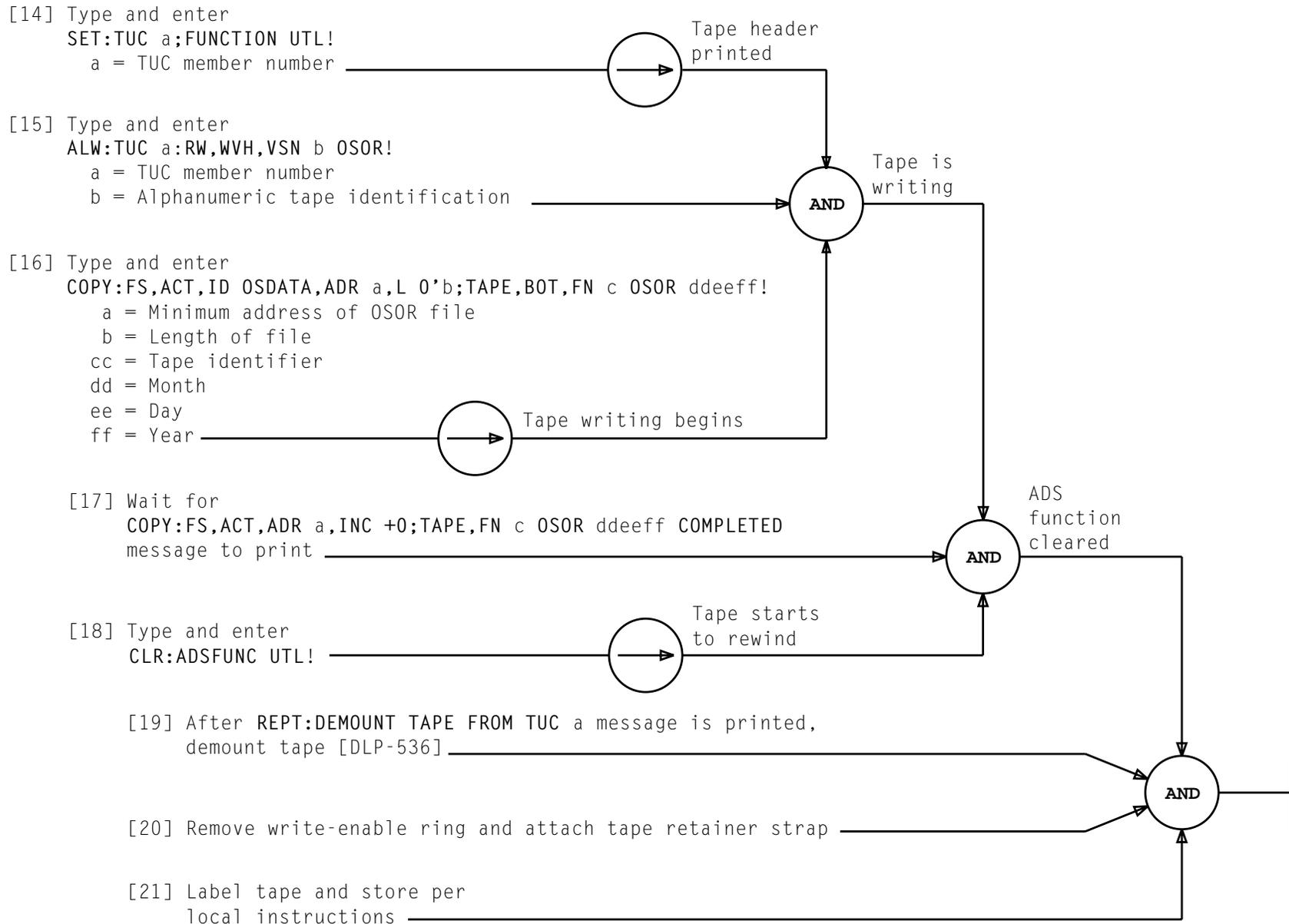


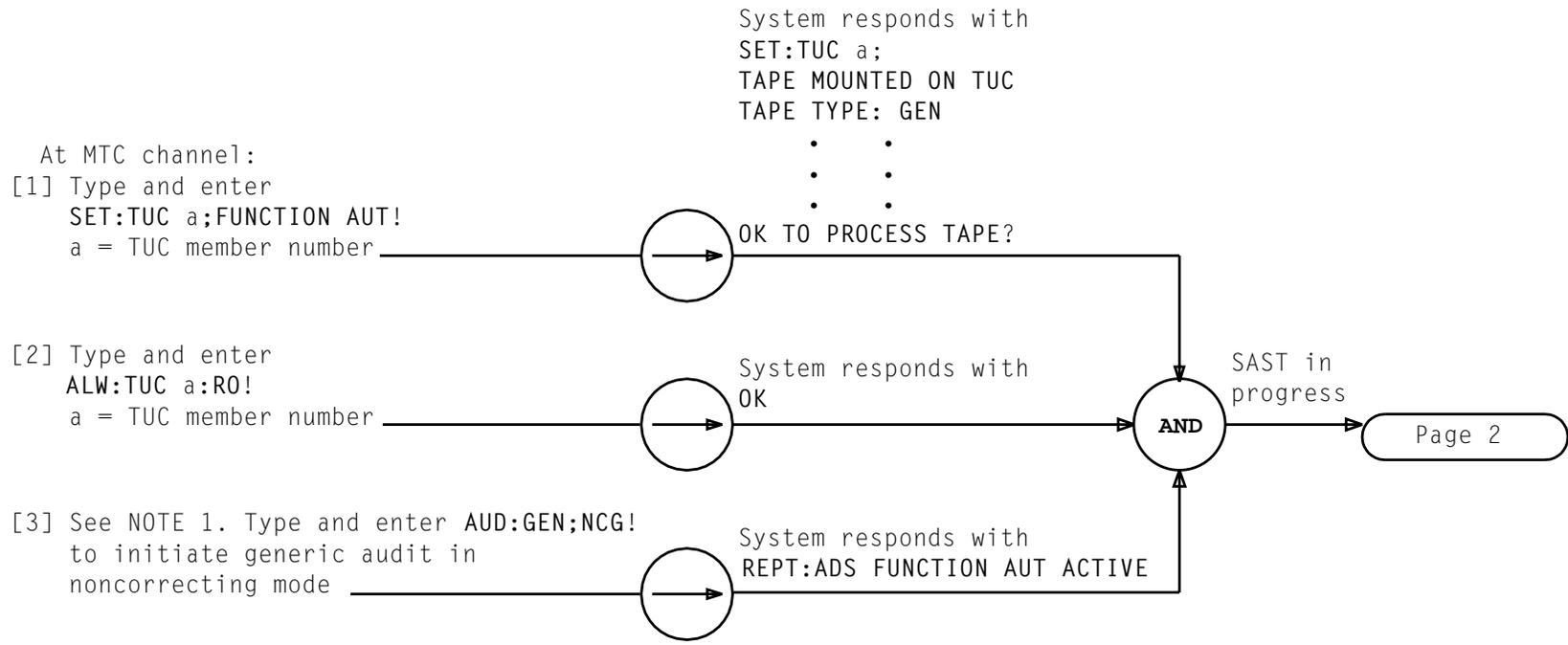
WRITE 800 BPI TRUNK OUT-OF-SERVICE LIST (TOSL) TAPE

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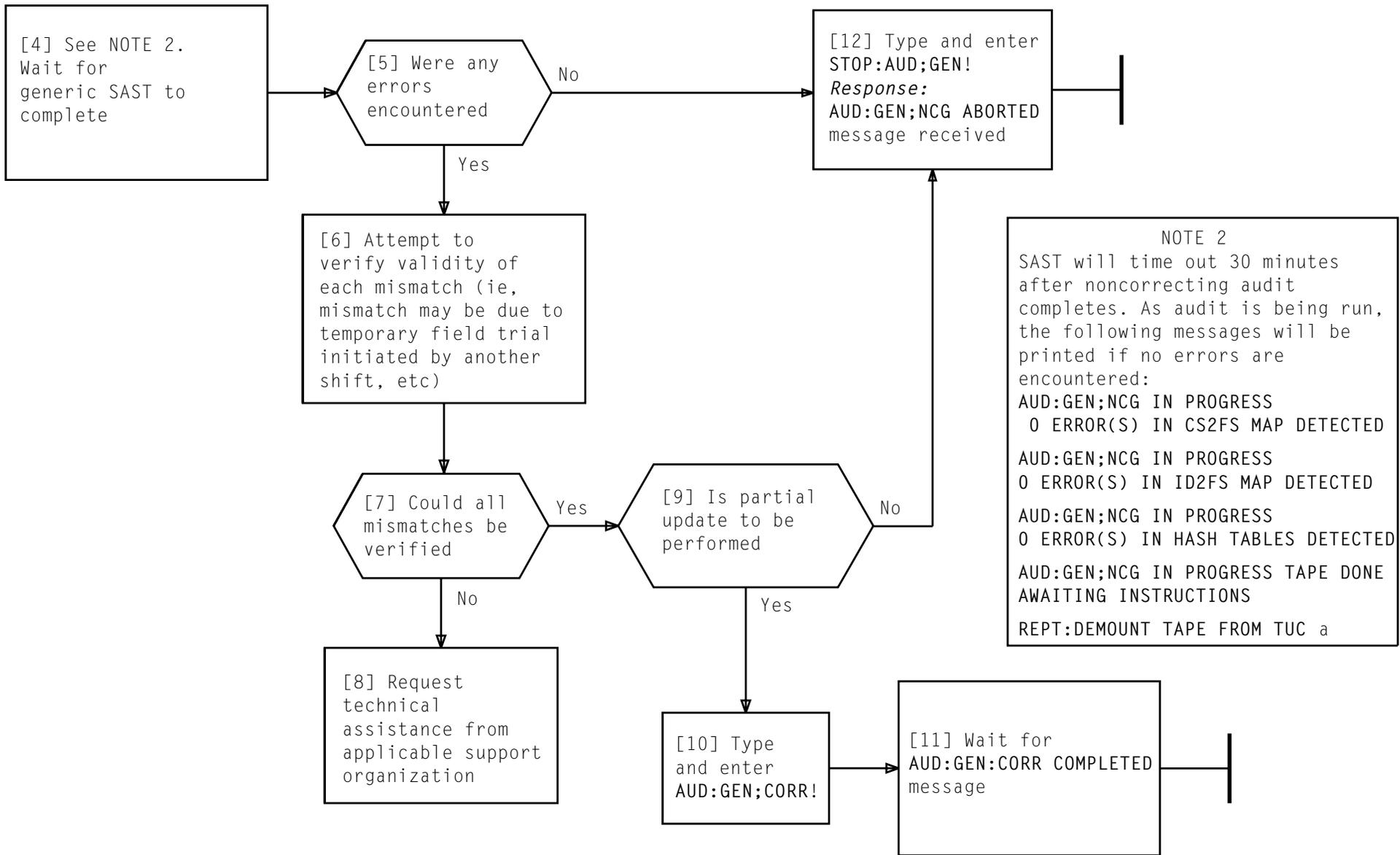






NOTE 1	
Message may require inputting again if prior SAST has not been performed	
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PERFORM GENERIC SYSTEM AUDIT OF STORES (SAST)

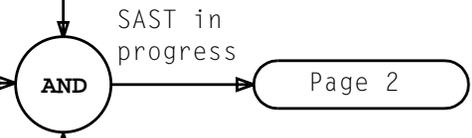


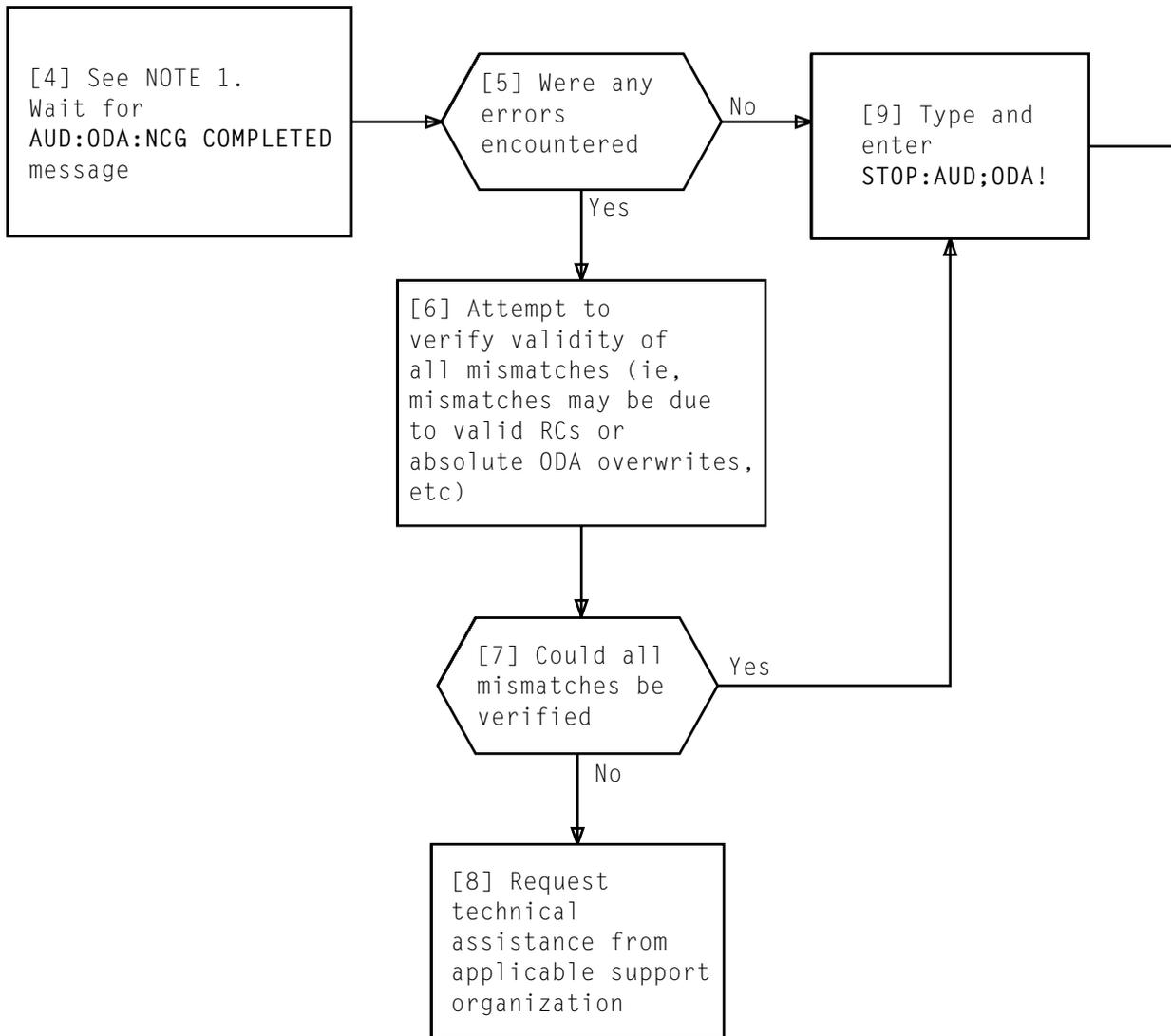
At MTC channel:

[1] Type and enter
SET:TUC a;FUNCTION AUT!
a = TUC member number

[2] Type and enter
ALW:TUC a:RO!
a = TUC member number

[3] Type and enter AUD:ODA;NCG! to initiate ODA
audit in noncorrecting mode





NOTE 1

As audit is being run, the following messages will be printed if no errors are encountered:

```

AUD:ODA;NCG IN PROGRESS
0 ERROR(S) IN CS2FS MAP DETECTED

AUD:ODA;NCG IN PROGRESS
0 ERROR(S) IN ID2FS MAP DETECTED

AUD:ODA;NCG IN PROGRESS
0 ERROR(S) IN HASH TABLES DETECTED

AUD:ODA;NCG IN PROGRESS TAPE DONE
AWAITING INSTRUCTIONS

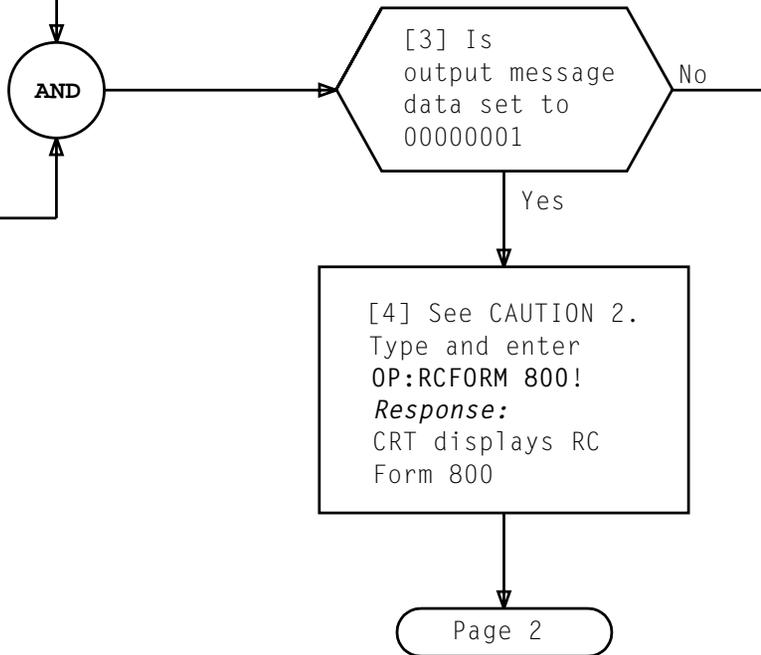
REPT:DEMOUNT TAPE FROM TUC a
  
```

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<p style="text-align: center;">SUMMARY</p> <p>Assure that office is officially cut over and first set of trunks are turned up. Using TTY, verify office status translator word address and verify that rightmost octal digit is 1. Request RC Form 800. Complete RC Form</p>	<p>800 to change binary value of bit 0 in office status translator word from precutover (1) to post-cutover (0) state and enter message. Using assigned order number, activate the recent change and verify changed data.</p>
--	---

[1] See CAUTION 1. Ensure that office is officially cut over _____

[2] At MTC channel, type and enter
VER:ABSOLUTE:ADR a,CORE!
 a = Office status translator word address _____



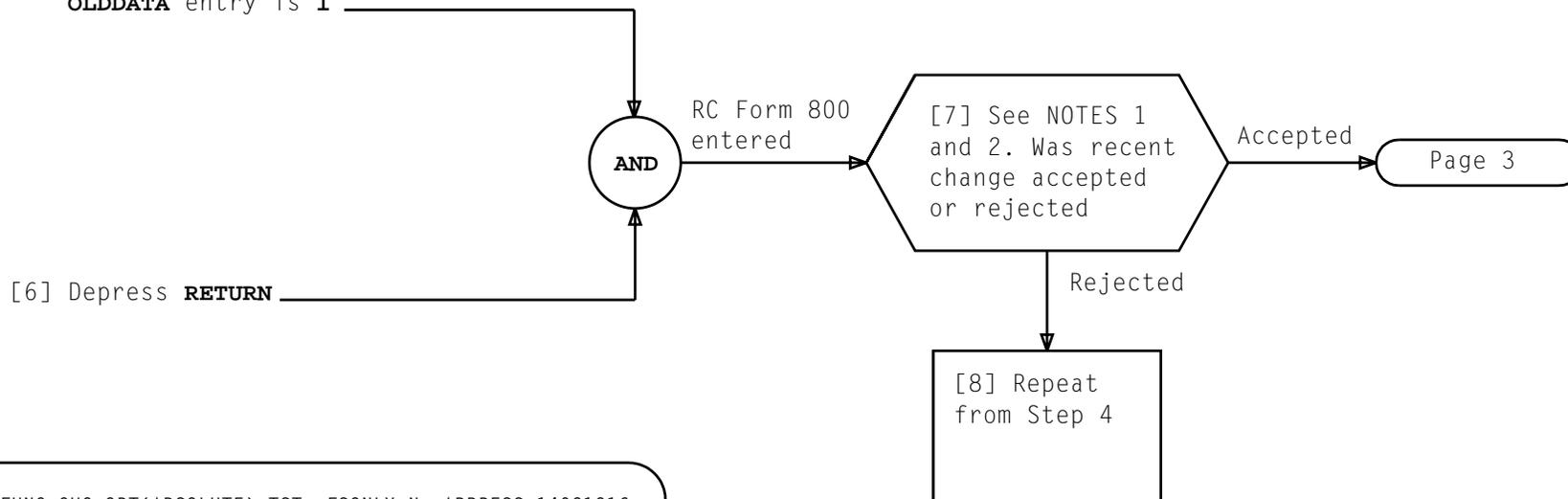
CAUTIONS

1. Office status translator word can remain in precutover state until office is officially cut over and first set of trunks are turned up
2. Calling up RC form will cause all CRT data to be cleared

PERFORM RECENT CHANGE TO CHANGE OFFICE STATUS TRANSLATOR TO POST-CUTOVER STATE

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On display of RC Form 800 [FIG. 1]:
 [5] Complete all entries and ensure
NEWDATA entry is **0** and
OLDDATA entry is **1**



```

RC:FUNC;CHG;OPT(ABSOLUTE),TST: FSONLY N, ADDRESS 14021216,
ORNU -----,
WORDNO -----,
SIZE 1-,      DISP 0-,
BINOCT B,
NEWDATA 0-----,
OLDDATA 1-----,
REMARKS -----!
  
```

FIG. 1 - Blank CRT Display of RC Form 800

NOTES

1. Acceptance of RC order number does not necessarily mean all input data was correct
2. A delay of up to 30 seconds may occur while processing data from buffer to test state.

PERFORM RECENT CHANGE TO CHANGE OFFICE STATUS TRANSLATOR TO POST-CUTOVER STATE

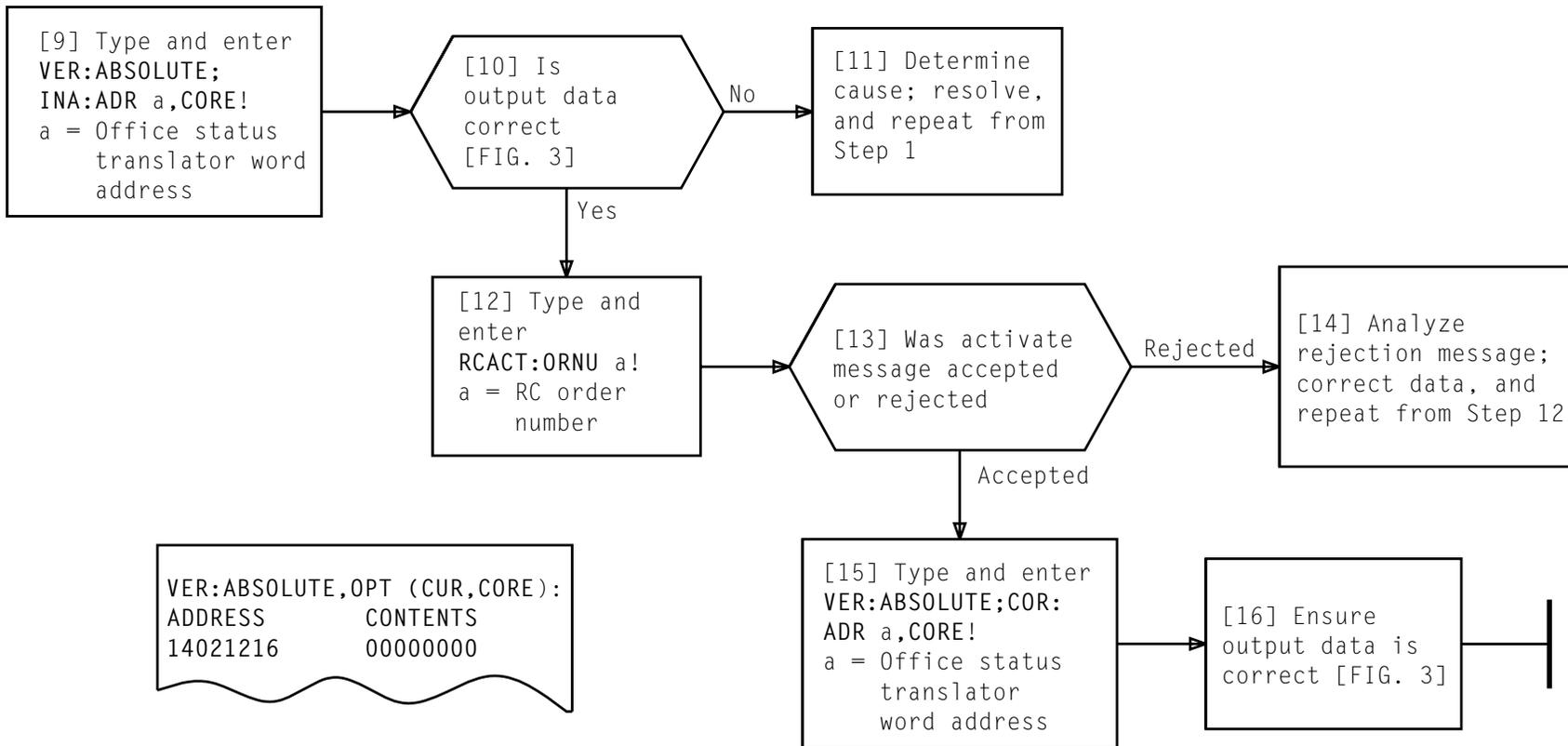
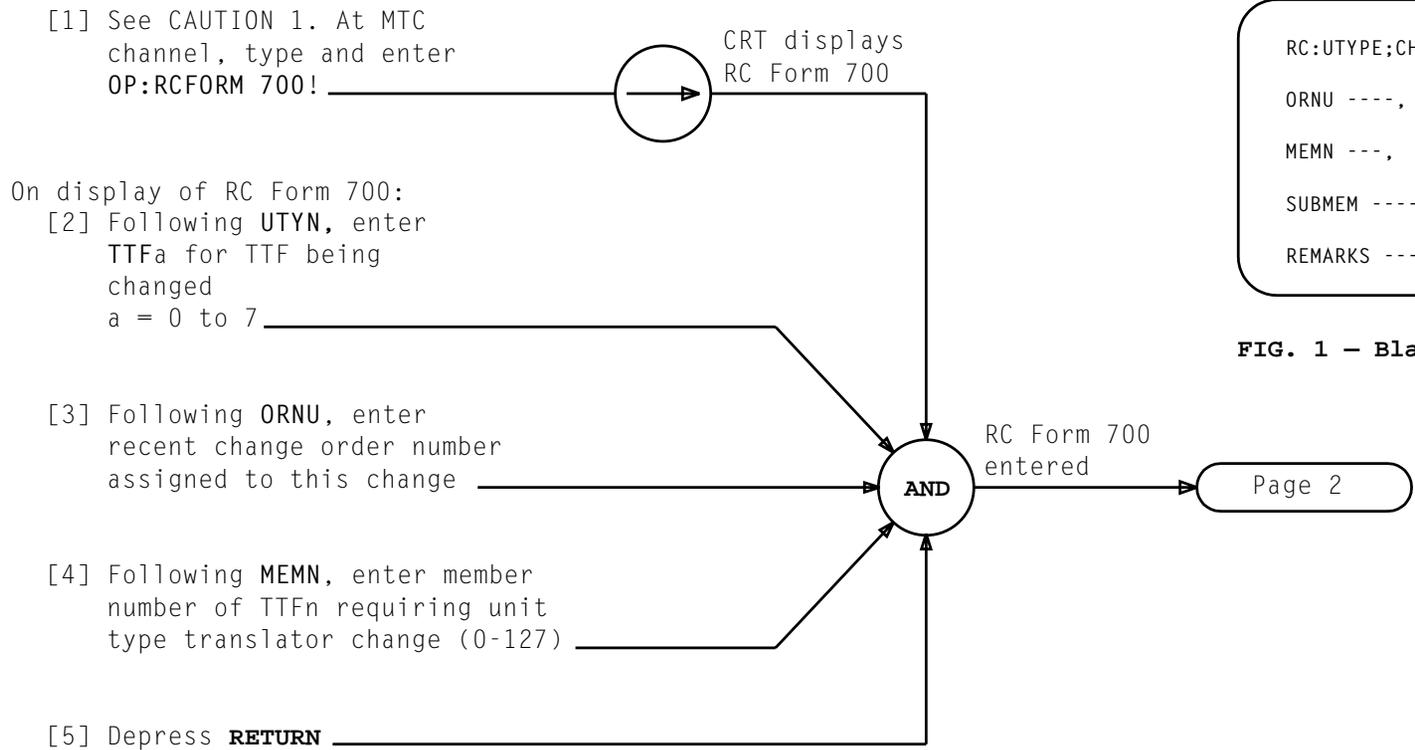


FIG. 3 - Sample Printout of Verify Output Message

PERFORM RECENT CHANGE TO CHANGE OFFICE STATUS TRANSLATOR TO POST-CUTOVER STATE

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```

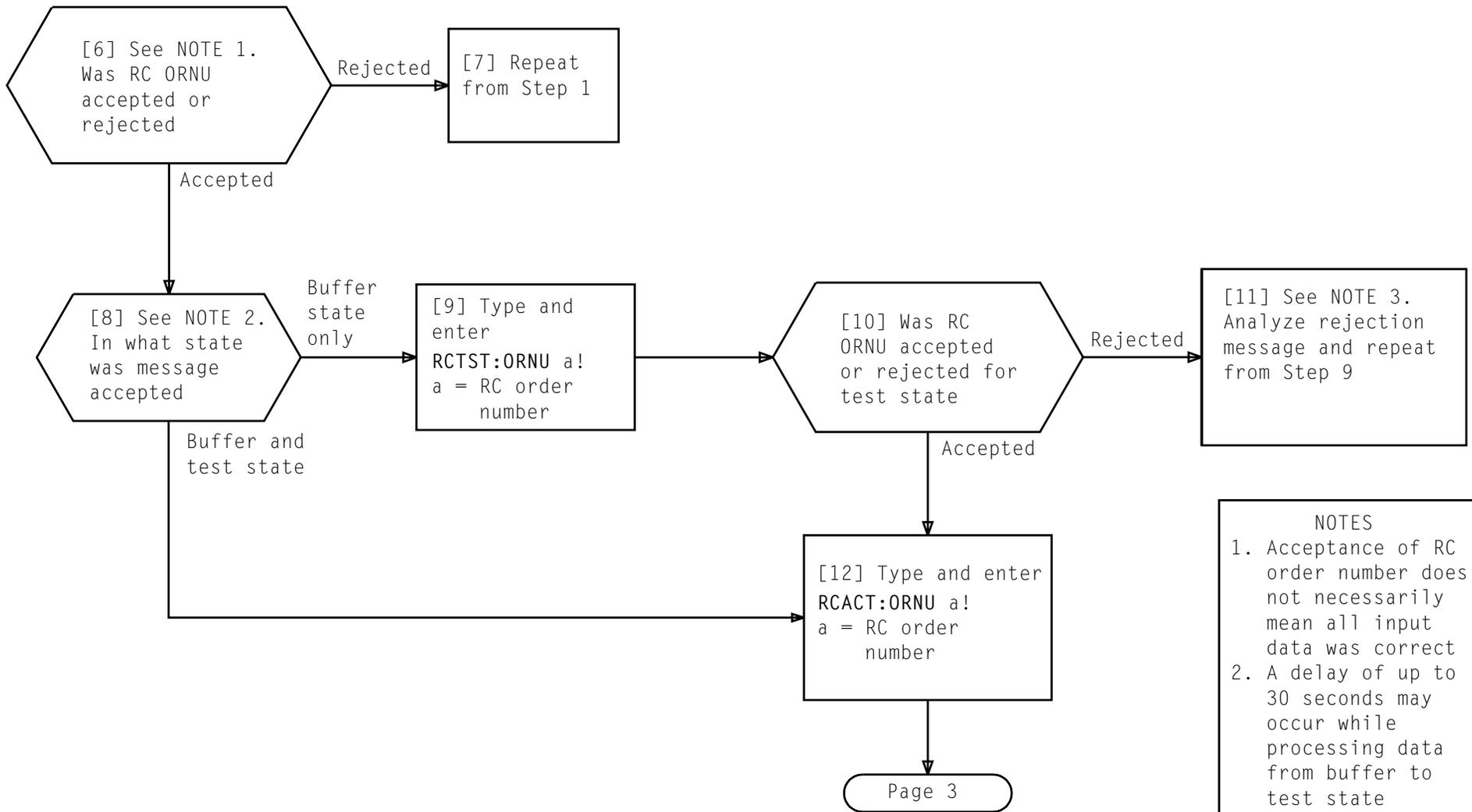
RC:UTYPE;CHG;OPT(EQP,GROW),TST: UTYN -----,
ORNU ----,
MEMN ---,      OLD NEW
                ME (UNEQ,OPER),
SUBMEM ----,   OLD NEW
                SME (----,----),
REMARKS -----!
  
```

FIG. 1 - Blank CRT Display of RC Form 700

PERFORM RECENT CHANGE TO CHANGE TOLL TERMINAL FRAME MEMBER EQUIPAGE FROM UNEQUIPPED TO OPERATIONAL

*CAUTION 1
Calling up RC form will cause all CRT data to be cleared*

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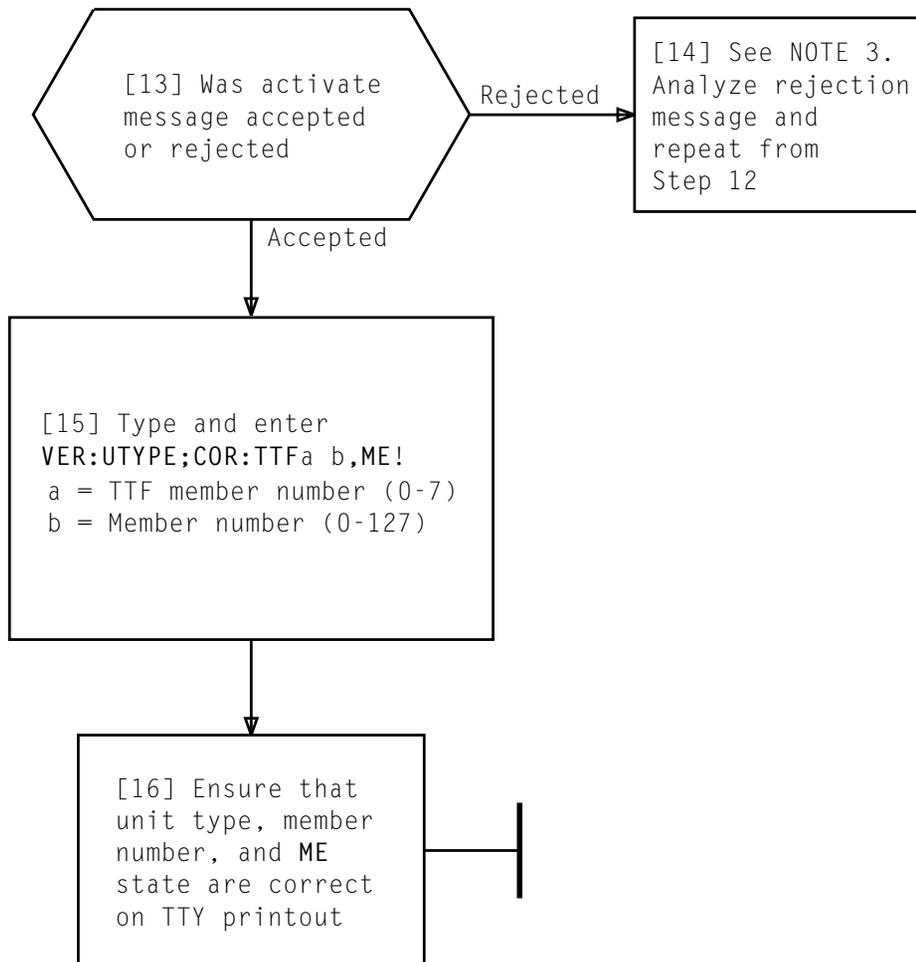


NOTES

1. Acceptance of RC order number does not necessarily mean all input data was correct
2. A delay of up to 30 seconds may occur while processing data from buffer to test state
3. Rejection could result from something other than message format error

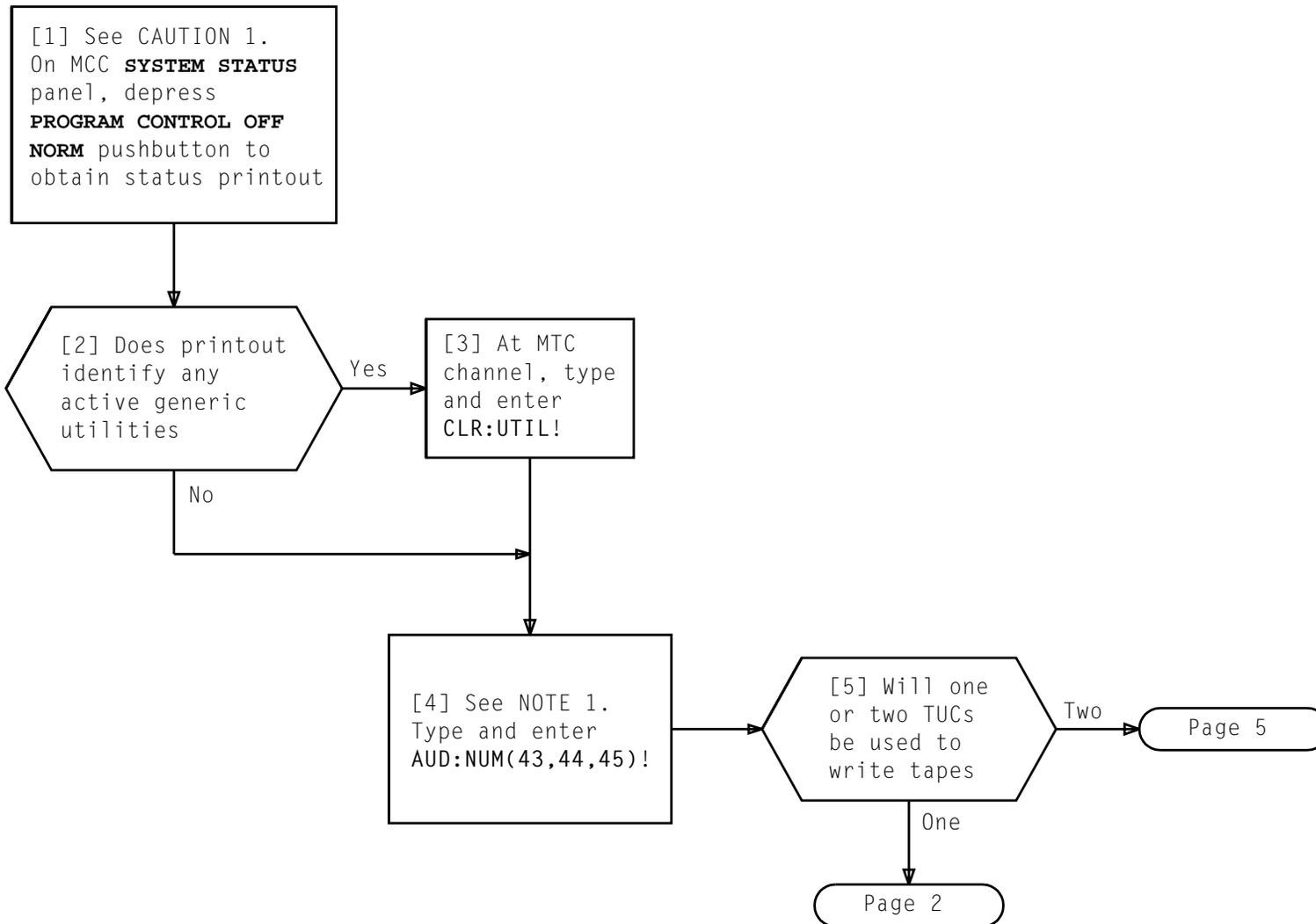
**PERFORM RECENT CHANGE TO CHANGE TOLL TERMINAL FRAME
MEMBER EQUIPAGE FROM UNEQUIPPED TO OPERATIONAL**

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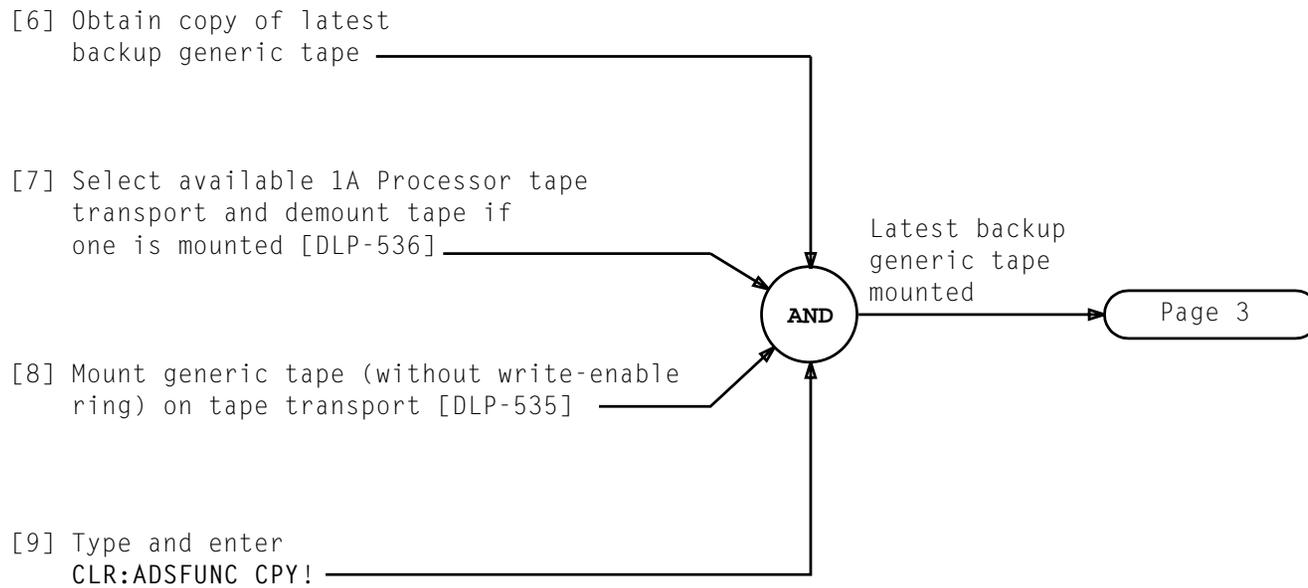


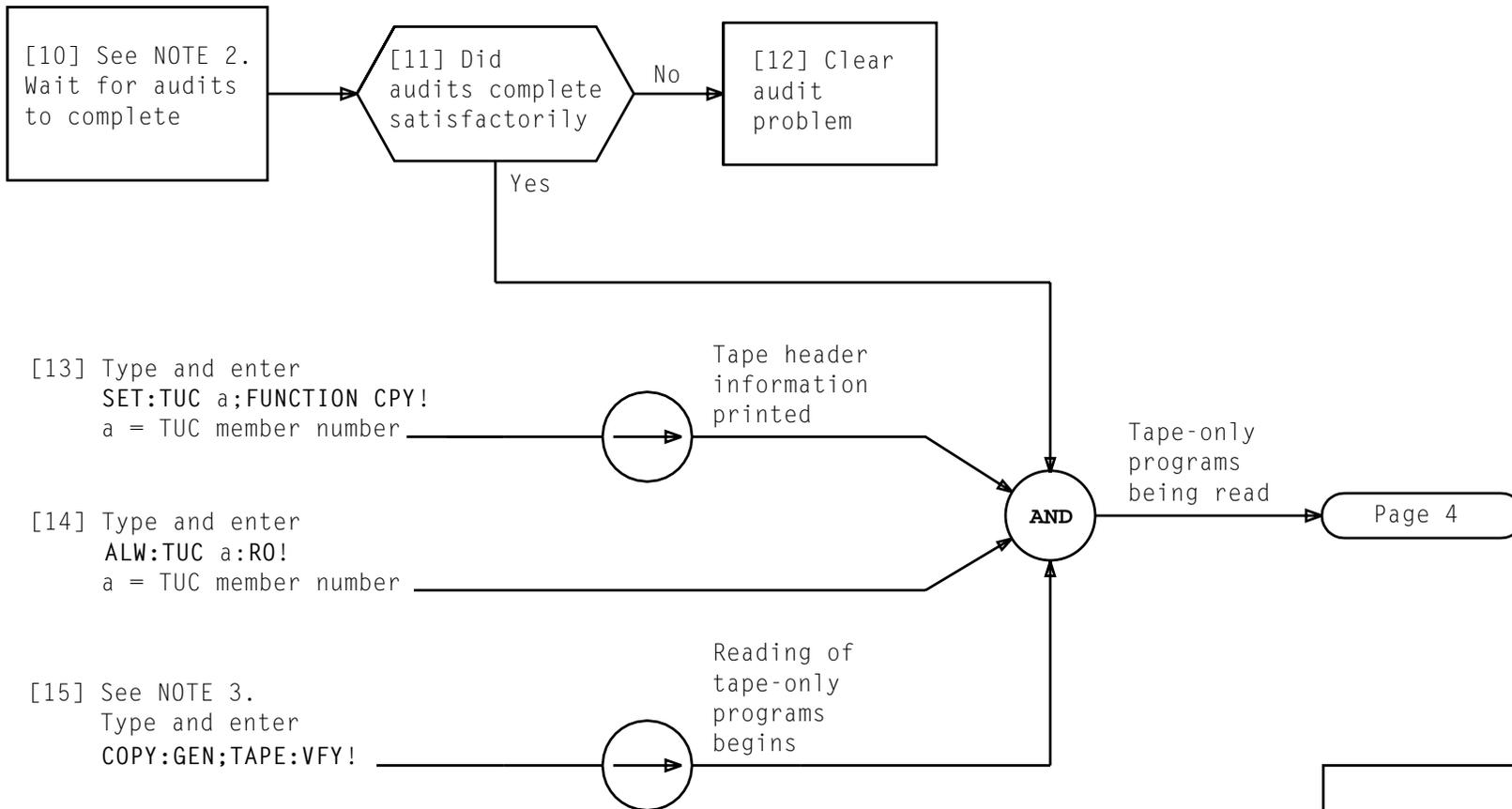
**PERFORM RECENT CHANGE TO CHANGE TOLL TERMINAL FRAME
MEMBER EQUIPAGE FROM UNEQUIPPED TO OPERATIONAL**

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NOTE 1 It takes approximately 45 minutes for audits to run	
<i>CAUTION 1</i> Certain system audits are inhibited during tape writing. Therefore, tape writing should be done during light traffic periods.	
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NOTES

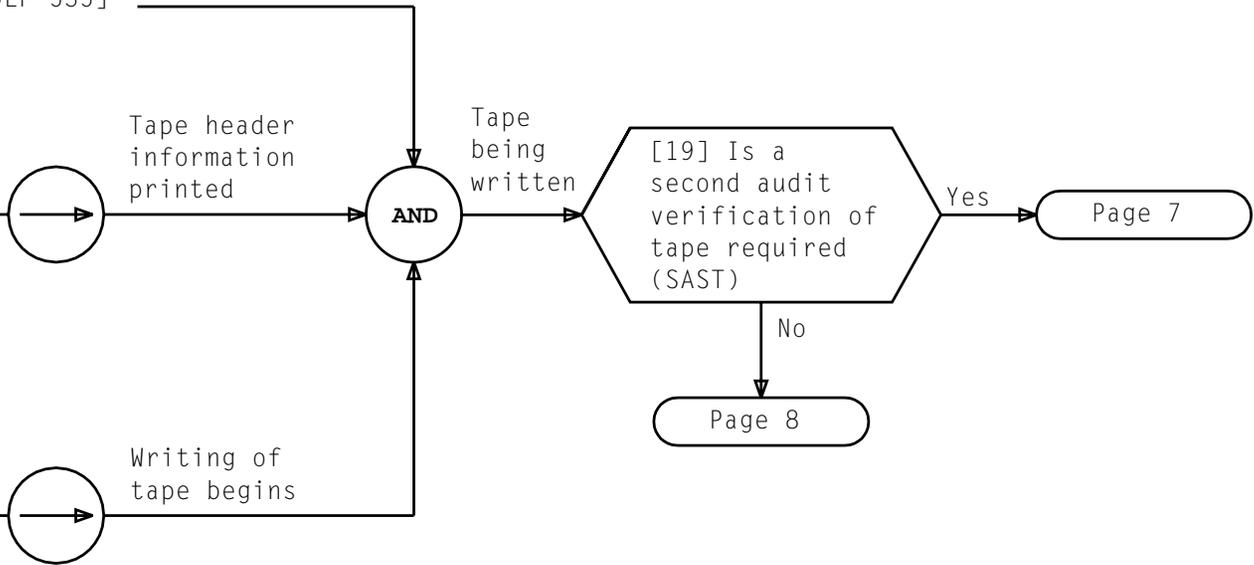
2. It may be necessary to reenter **AUD:NUM (43,44,45)!** message periodically to ensure that audits have not been interrupted.
3. After tape-only programs are copied into PS from next to oldest generic tape, tape will rewind and **REPT:DEMOUNT TAPE FROM TUC a** message is printed

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[16] After REPT:DEMOUNT TAPE FROM TUC a message is printed, demount tape [DLP-536] and mount oldest backup generic tape (with write-enable ring attached) [DLP-535]

[17] Type and enter
 SET:TUC a:FUNCTION CPY!
 a = TUC member number

[18] See NOTE 4. After ensuring from tape header information that tape is erasable, type and enter
 ALW:TUC a:RW!
 a = TUC member number



NOTE 4
 After tape is written (5-10 minutes), COPY:GEN;TAPE COMPL message; date, and time are printed. Tape rewinds and is verified. When verification has completed (same amount of time as it took to write) COPY:VFY;TAPE COMPL message is printed followed by REPT:DEMOUNT TAPE FROM TUC a message.

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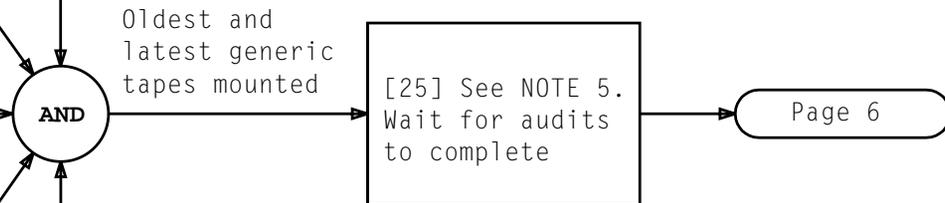
[20] Obtain copy of latest backup generic tape and oldest backup generic tape

[21] Select available 1A Processor tape transports for mounting tapes, and demount tapes if any are mounted [DLP-536]

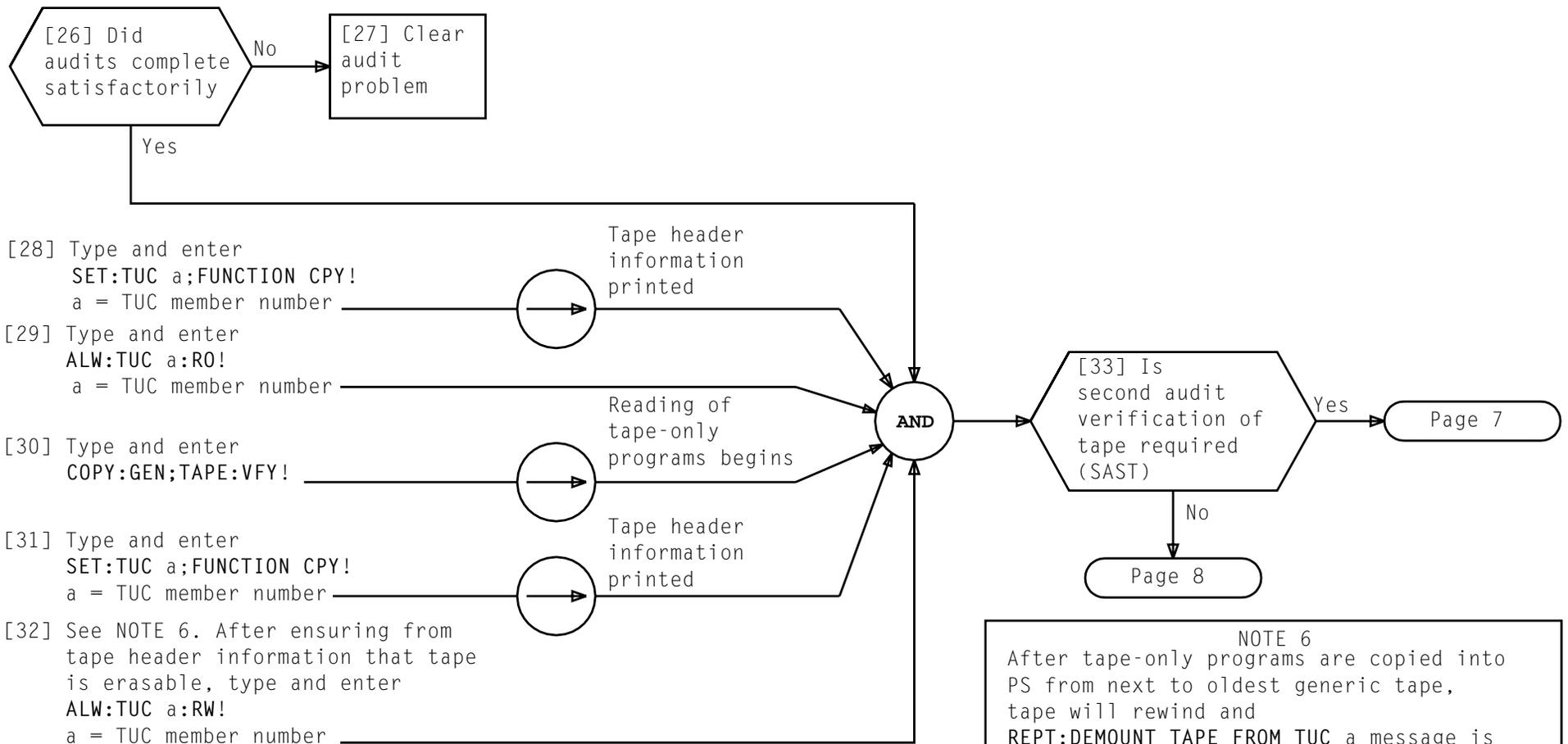
[22] Mount latest backup generic tape (without write-enable ring) on available tape transport [DLP-535]

[23] Mount oldest generic tape (with write-enable ring installed) on other tape transport [DLP-535]

[24] Type and enter CLR:ADSFUNC CPY!



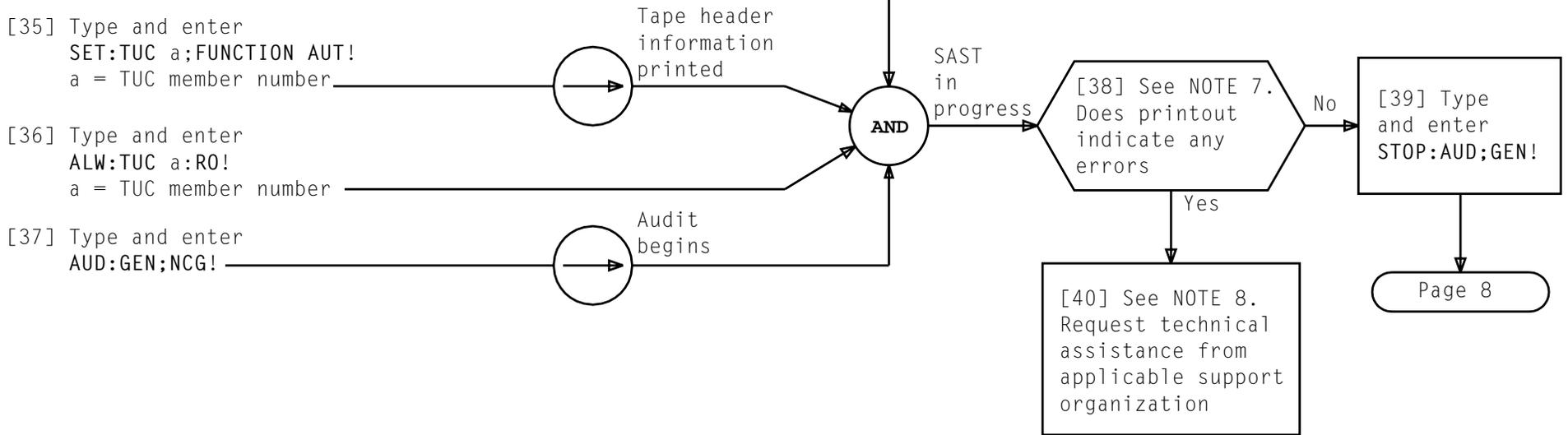
NOTE 5	
It may be necessary to reenter AUD:NUM (43,44,45)! message periodically to ensure that audits have not been interrupted	
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NOTE 6

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

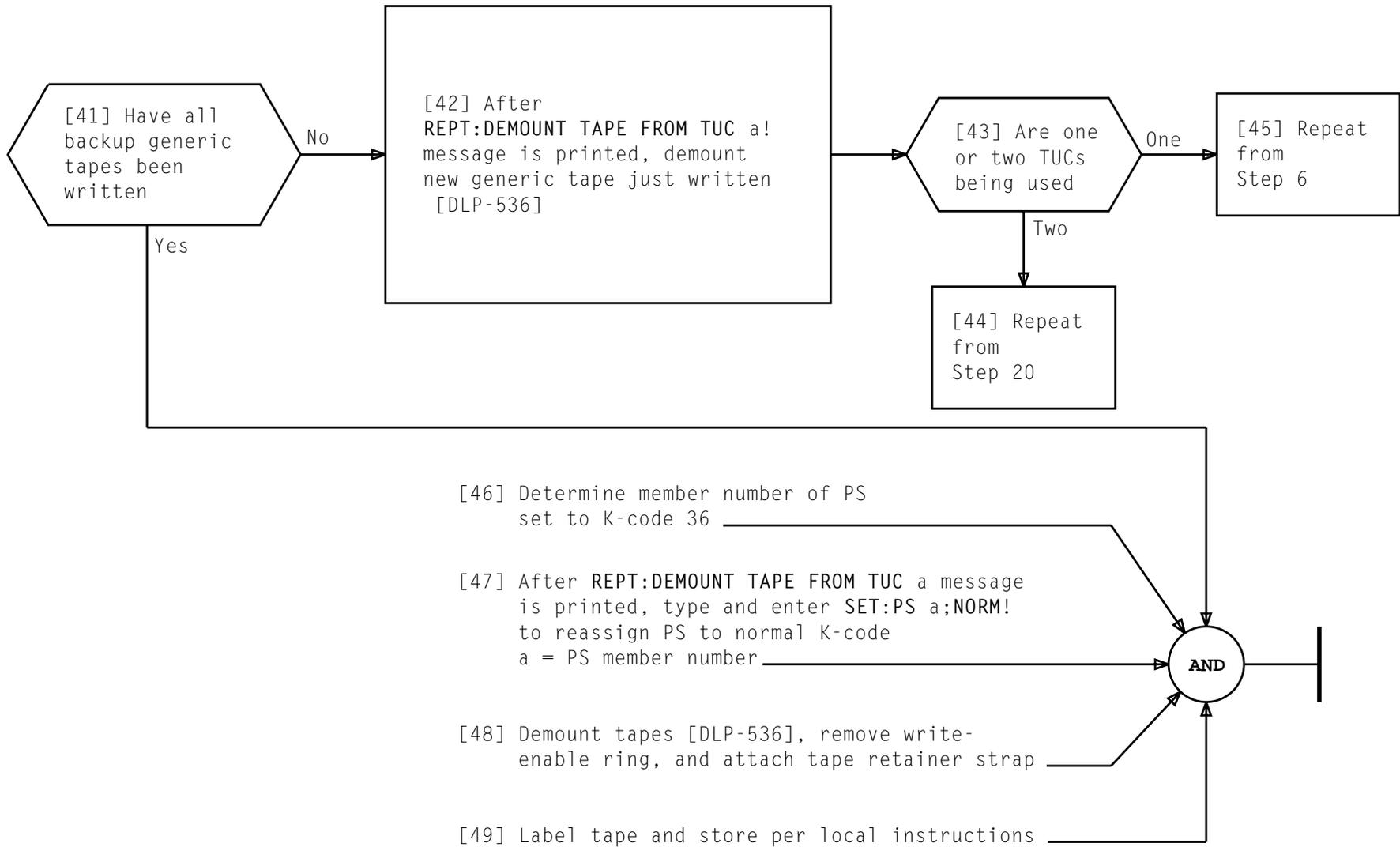
[34] After tape has been written and verified and REPT:DEMOUNT TAPE FROM TUC a message is printed, demount tape just written [DLP-536], remove write-enable ring, and mount tape on another tape transport [DLP-535]



NOTES

7. As audit is being run, the following messages will be printed if no errors are encountered:
 AUD:GEN;NCG IN PROGRESS 0/ ERROR(S) IN CS2FS MAP DETECTED
 AUD:GEN;NCG IN PROGRESS 0/ ERROR(S) IN ID2FS MAP DETECTED
 AUD:GEN;NCG IN PROGRESS 0/ ERROR(S) IN HASH TABLES DETECTED
 AUD:GEN;NCG IN PROGRESS TAPE DONE AWAITING INSTRUCTIONS
 REPT: DEMOUNT TAPE FROM TUC a
8. If errors are detected, AUD:GEN;IN PROGRESS message will be received approximately every 10 minutes. After 30 minutes, audit program will time out and SAST must be restarted if corrections are to be made

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[1] Notify RWC/SQCC OF activity to be performed _____

[2] At MTC channel, type and enter RMV:TGR a,TER b!
a = TGR member number
b = Terminal number _____

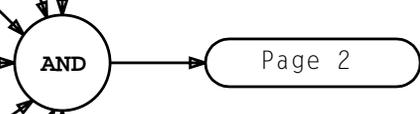
[3] Type and enter
MON:IAOFC,NEW;ADD:IA IDB,TIMEON x,
TIMEOFF x,FHC 289!
x = Time of day _____

[4] Type and enter
MON:IAOFC,NEW;ADD:IA DSF,TIMEON x,
TIMEOFF x,FHC 565!
x = Time of day _____

[5] Monitor total office call irregularity traps on final handling codes 289 and 565 for system abnormalities _____

[6] Type and enter
OP:SLKSTAT;DS! _____

[7] Using OP:SLKSTAT output response, verify that no F-links or N-links are within the direct signaling pool _____

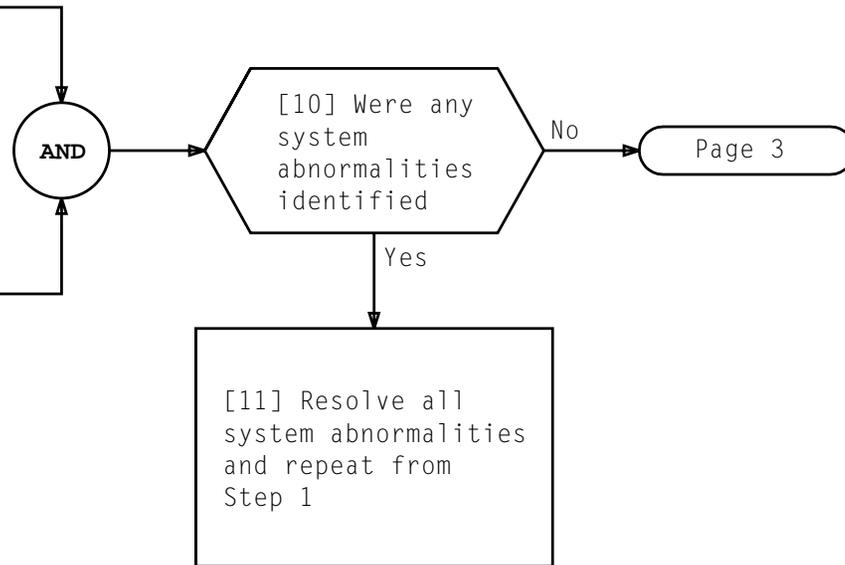


**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

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[8] Using machine load and service summary (MLSS) report, machine performance report (MPR), machine service report (MSR) and network switching performance measurement plan (NSPMP), monitor machine performance for significant ineffective machine attempts (IMAs)

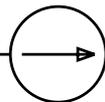
[9] Monitor MCC **SYSTEM ACTIVITY** LEDs to identify any thresholds that may be exceeded due to abnormal system performance



**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
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[12] See CAUTION 1. At MTC channel, type and enter
OP:RCFORM 801!



CRT displays
RC Form 801

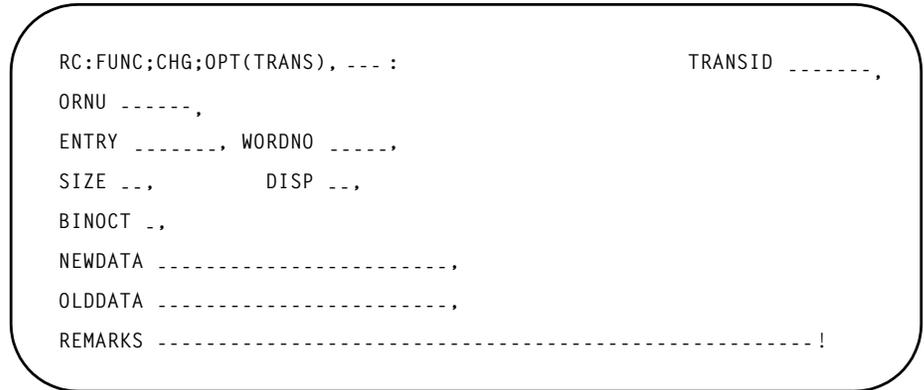


FIG. 1 - Blank CRT Display of RC Form 801

On display of RC Form 801 [FIG.1]:

[13] Following RC:FUNC;CHG;OPT(TRANS),
type TST _____

[14] Following TRANSID, type
UTTGR _____

[15] Following ORNU, type
recent change order number
assigned to this change _____

[16] Following ENTRY, type
member number of TGR frame containing
self-synchronized terminal unit _____



**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

*CAUTION 1
Calling up
RC form will
cause all CRT
data to be
cleared*

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[17] Using TABLE A, determine UTMN decimal word corresponding to self-synchronized terminal unit

[18] Following WORDNO, type identified UTMN decimal word

[19] Following SIZE, type 1

[20] Following DISP, type 23

[21] Following BINOCT, type B

[22] Following NEWDATA, type 0

[23] Following OLDDATA, type 1

[24] Depress **RETURN**

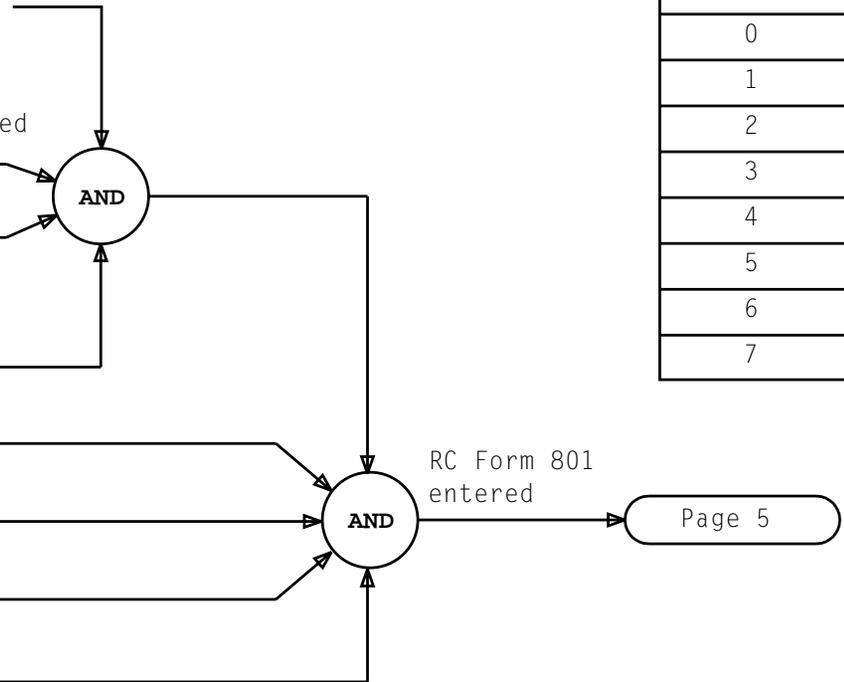
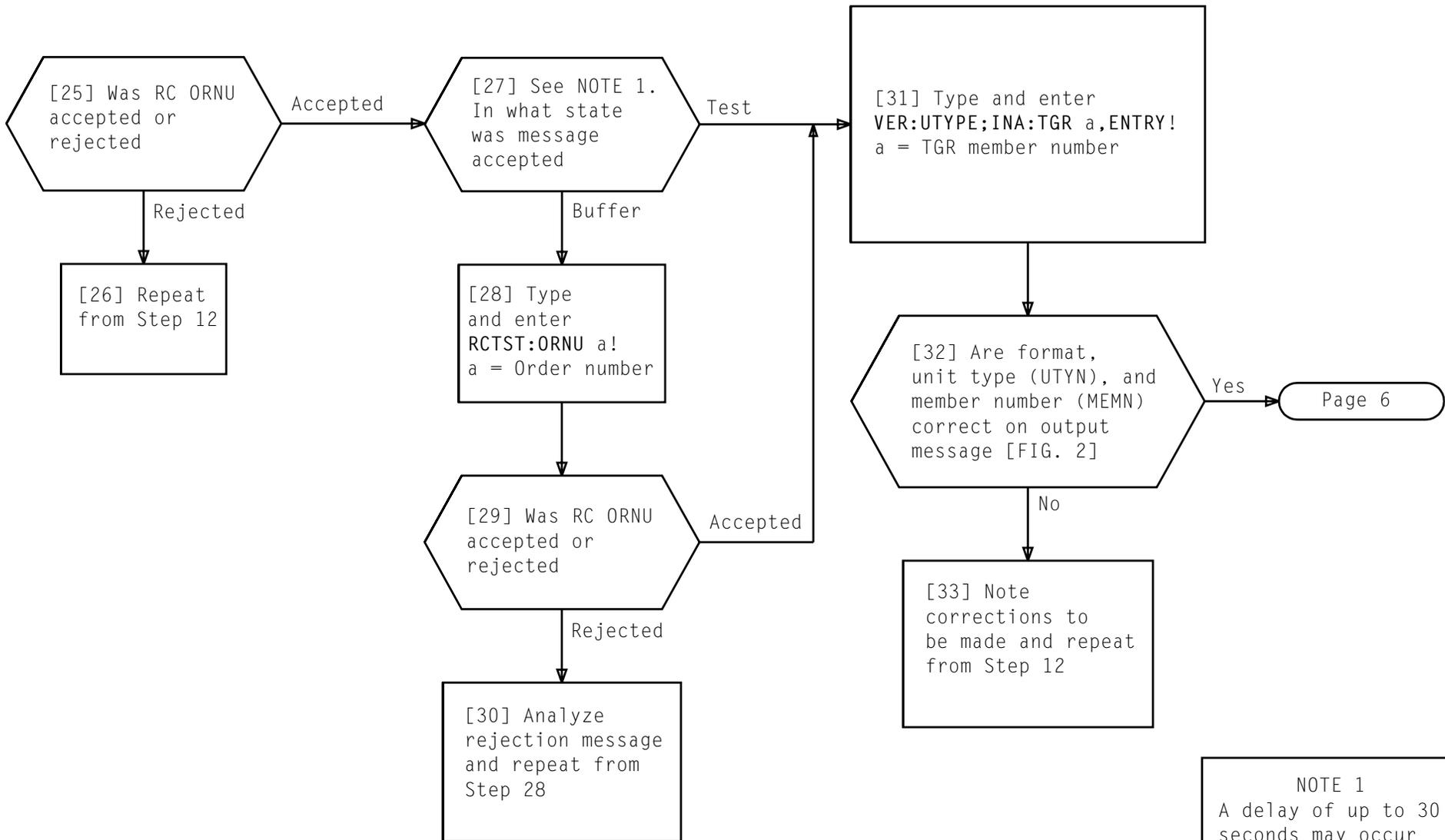


TABLE A			
SELF-SYNCHRONIZED TERMINAL UNIT	UTMN DECIMAL WORD	SELF-SYNCHRONIZED TERMINAL UNIT	UTMN DECIMAL WORD
0	18	8	50
1	22	9	54
2	26	10	58
3	30	11	62
4	34	12	66
5	38	13	70
6	42	14	74
7	46	15	78

**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

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NOTE 1	
A delay of up to 30 seconds may occur while processing data from buffer to test state	
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**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

[34] Using TABLE B, determine octal word associated with self-synchronized terminal unit

[35] On TTY printout, locate octal word identified in previous step [FIG. 2]

[36] Convert leftmost octal digit to binary and verify that bit 23 (leftmost bit) is 0

[37] Type and enter
 RACT:ORNU a!
 a = RC order number

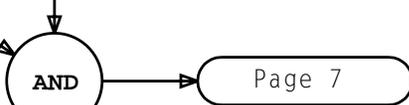


TABLE B			
SELF-SYNCHRONIZED TERMINAL UNIT	TTY PRINTOUT OCTAL WORD	SELF-SYNCHRONIZED TERMINAL UNIT	TTY PRINTOUT OCTAL WORD
0	22	8	62
1	26	9	66
2	32	10	72
3	36	11	76
4	42	12	102
5	46	13	106
6	52	14	112
7	56	15	116

UNIT TYPE

MEMBER NO
OCTAL WORD 26

```

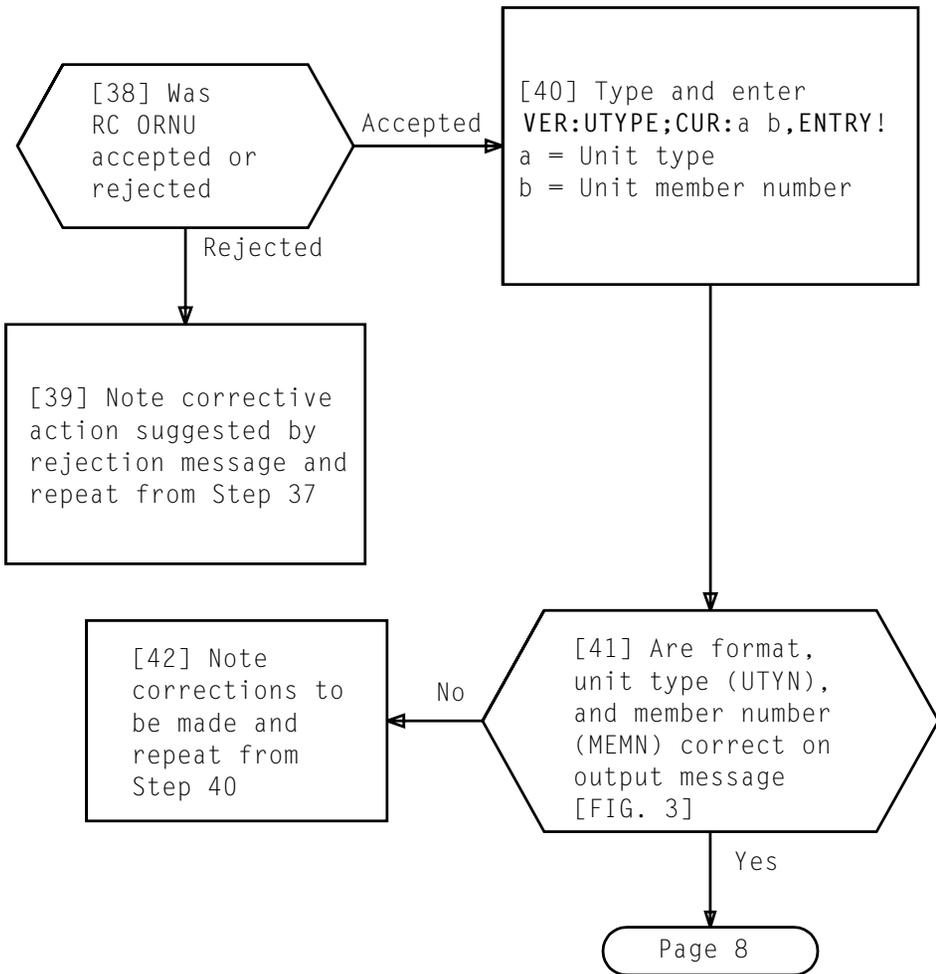
M 11 VER:UTMN:OPT(ENTRY),INA:      FLN 3200//4.0/2      UTYN TGR
MEMN 07 ME OPER,
ENTRY ADDRESS 0/7623144,      ENTRY SIZE 81,
INA
WORD 0/ 10/60/7777 0/40/1000///2 0000////1660/ 2000///2440/
0000////2444 000///11660/ 0000////2700// 0000////270/4
WORD 10/ 00000000//////// 00000000//////// 00000000//////// 0000////2460/
0000////2720/ 0000///2400// 0000///2420/ 0000///1100//
WORD 20/ 000///11120/ 00//420/366 000///20/367 0/20/20/370/
00000000////////1 00//420/166 00020/20/180/
WORD 30/ 1000000////////3 0/1420/242 000///20/243 0/4000000////////
10000002//////// 0/1420/245 000///20/246 04000000////////
WORD 40/ 14000///40/5 0/1420/245 000///20/246 0/4000000////////
14000 ///404/ 00000000//////// 00000000////////
WORD 50/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 60/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 70/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 10/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 11 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 12 00000000////////
0/1/0/1/00// 09:11:50

#966
  
```

FIG. 2 - Sample Verify Message (Inactive Translations)

**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
 TERMINAL UNIT LOOP DATA**

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```

OCTAL WORD 42
MEMBER NUMBER
OCTAL WORD 26
UNIT TYPE
M 11 VER:UTMN;OPF(ENTRY),CUR:      FLN 3200/ 4.0/2      UTYN TGR
MEMN 07 ME OPER,
ENTRY ADDRESS 077623144,      ENTRY SIZE 81,
INA
WORD 0/ 10/60/7777 0/40/1000///2 0000////1660/ 2000///2440/
0000////2444 000///11660/ 0000////2700// 0000////270/4
WORD 10/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
0000////2720/ 0000////2400// 0000////2420/ 0000////11100.
WORD 20/ 000///11120/ 00//420/366 000///20/367 0/20/20/370/
00000000////////1 00//420/166 000///20/167 0/20/20/170/
WORD 30/ 10000000////////3 0/1420/242 000///20/243 0/40000000////////
10000002//////// 0/1420/245 000///20/246 04/0/0/0/0/0/0
WORD 40/ 14000///40/5 0/1420/245 000///20/246 0/40000000////////
14000 ///404/ 00000000//////// 00000000//////// 00000000////////
WORD 50/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 60/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 70/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 10/ 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 11 00000000//////// 00000000//////// 00000000//////// 00000000////////
00000000//////// 00000000//////// 00000000//////// 00000000////////
WORD 12 00000000////////
0/1/0/1/00// 09:11:50
#391
  
```

FIG. 3 - Sample Printout of Verify Message (Current Translations)

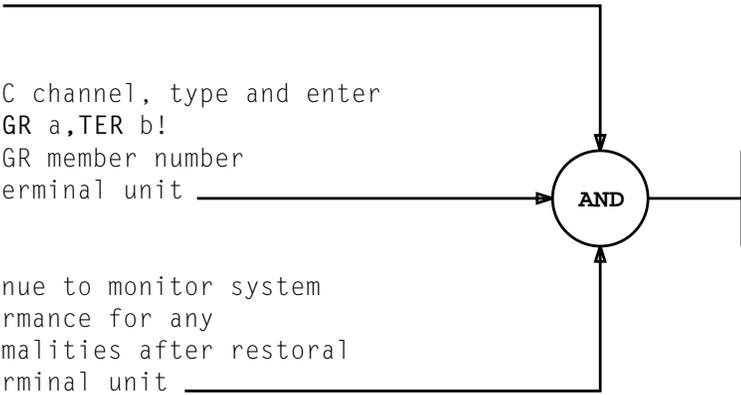
PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
 TERMINAL UNIT LOOP DATA

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[43] Verify bit 23 of octal
word associated with
self-synchronized terminal
unit (identified in Step 35)
is 0

[44] At MTC channel, type and enter
RST:TGR a,TER b!
a = TGR member number
b = Terminal unit

[45] Continue to monitor system
performance for any
abnormalities after restoral
of terminal unit



**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

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At RCMOC MTT:

[1] Demount roll-forward tape cartridge [DLP-521]

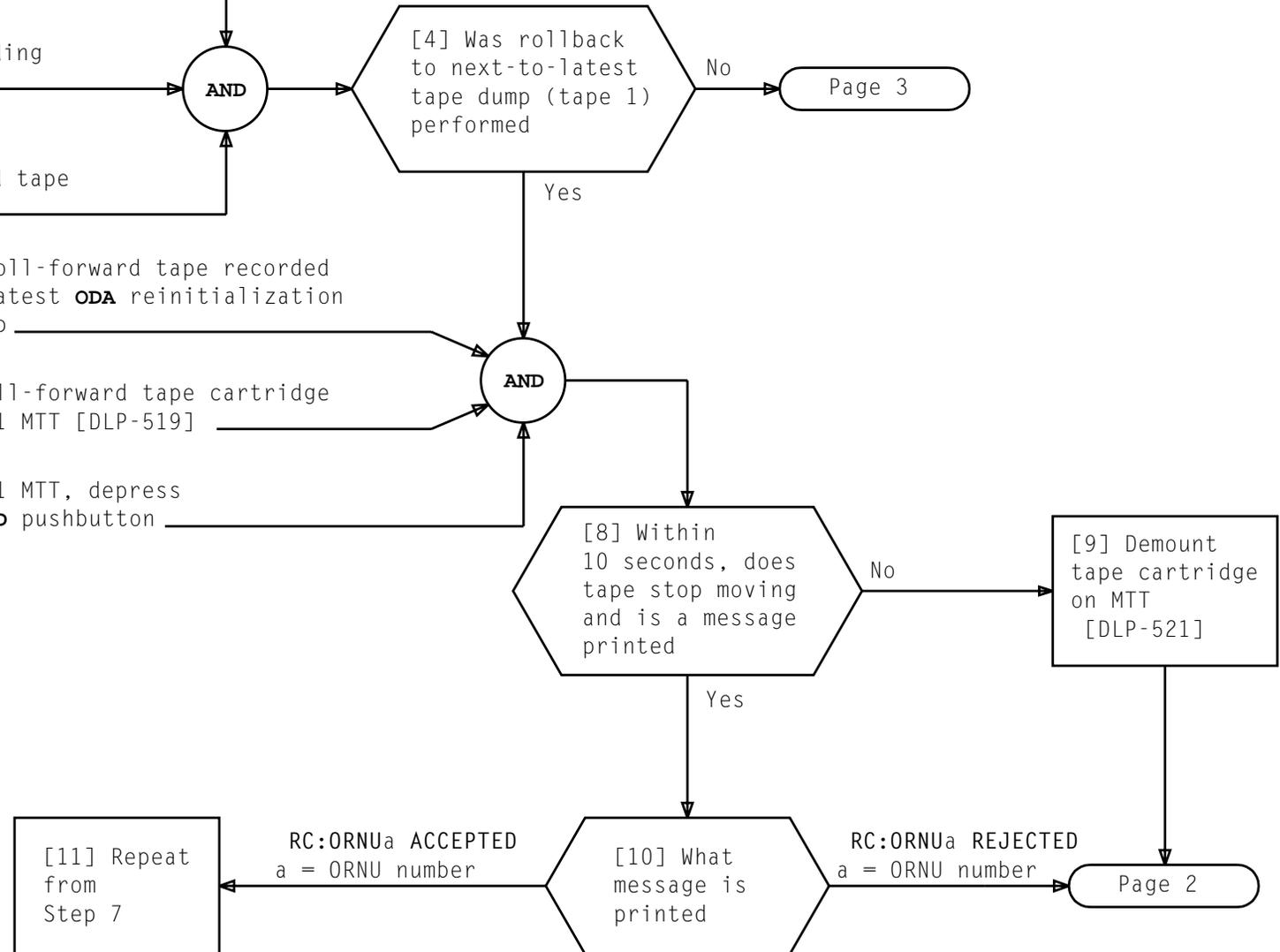
[2] Label cartridge according to local instruction

[3] Mount new roll-forward tape cartridge [DLP-516]

[5] Obtain roll-forward tape recorded before latest **ODA** reinitialization tape dump

[6] Mount roll-forward tape cartridge on SREC 1 MTT [DLP-519]

[7] On SREC 1 MTT, depress **DATA SEND** pushbutton



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[12] At SREC TTY, type and enter
OP:RCBORNU!

[13] Label printout *BUFFER AREA*
AFTER ROLL FORWARD and
save for later use

[14] Ensure all ORNUs from
roll-forward tape are in
correct states [DLP-540]

[15] From RC:ORNU a **ACCEPTED** messages,
identify all ORNUs rolled forward to
be corrected and/or canceled

[16] Correct and/or cancel identified
ORNUs in BUFFER state [DLP-537]

[17] Place roll-forward ORNUs in
state existing before rollback
[DLP-538]

AND

[18] Is
roll-forward tape
still mounted

Yes

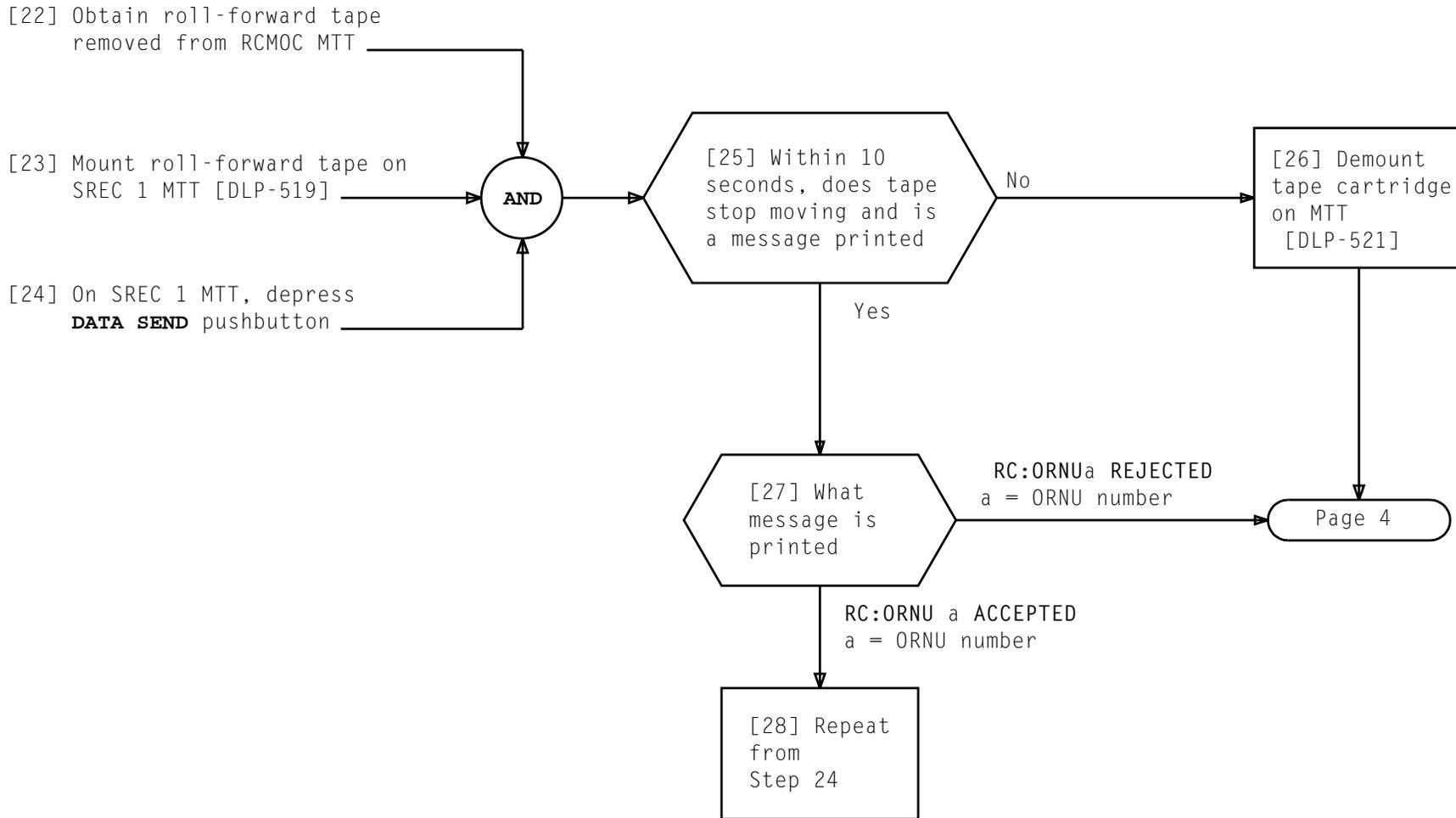
[19] At SREC 1
MTT, depress
SEARCH - REVERSE
pushbutton

No

[21] Ensure all ORNUs
from roll-forward tape
have been correctly
entered in rollback
area [DLP-541]

[20] Repeat
from Step 7

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[29] At SREC TTY, type and enter
OP:RCBORNU!

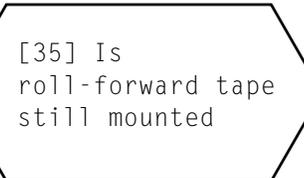
[30] Label printout *BUFFER AREA*
AFTER ROLL FORWARD and
save for later use

[31] Ensure all ORNUs from
roll-forward tape are in
correct states [DLP-542]

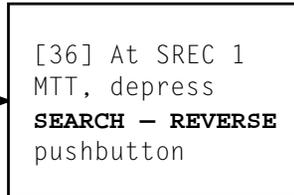
[32] From RC:ORNU a **ACCEPTED** messages,
identify all ORNUs rolled forward to
be corrected and/or canceled

[33] Correct and/or cancel identified
ORNUs in **BUFFER** state
[DLP-537]

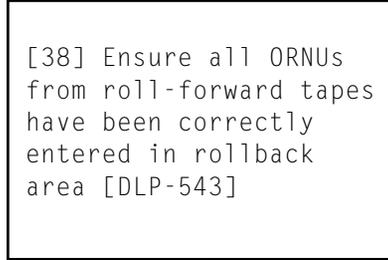
[34] Place roll-forward ORNUs in
state existing before rollback
[DLP-539]



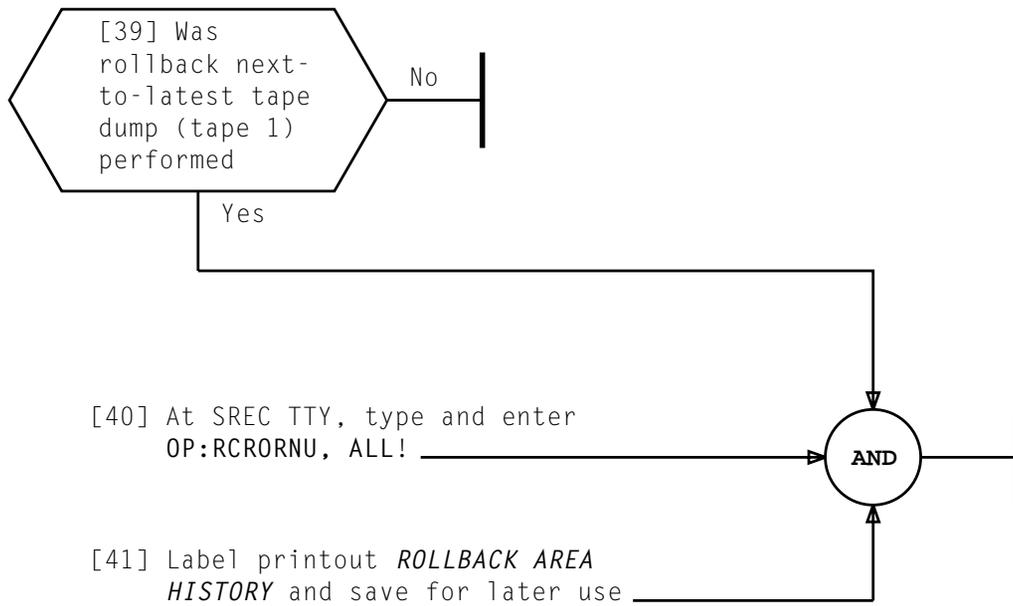
Yes



No



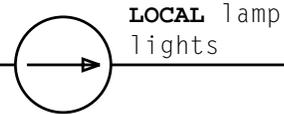
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At tape transport:

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

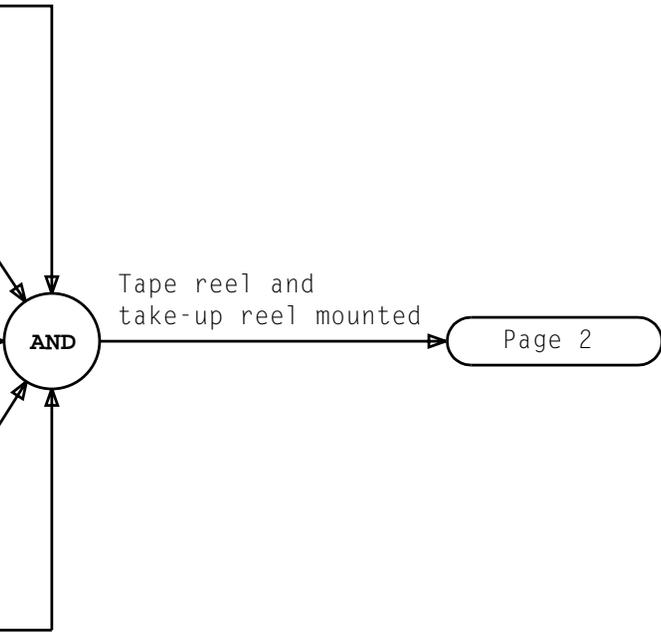
[2] Depress **LOCAL/REMOTE** pushbutton to obtain **LOCAL** lighted condition



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

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

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



[6] See WARNING 1. While depressing **BRAKE RELEASE** pushbutton, manually unwind approximately 5 feet of tape and release **BRAKE RELEASE** pushbutton

[7] See WARNING 2. Thread tape through tape path indicated on tape transport

[8] See NOTE 1. Start tape on lower (take-up) reel making sure tape is not twisted

[9] See WARNING 3. While depressing **BRAKE RELEASE** pushbutton, manually wind lower (take-up) reel clockwise three or four turns, and release **BRAKE RELEASE** pushbutton

[10] Depress **ARMS NORMAL** pushbutton

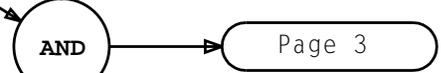
ARMS NORMAL lamp lights until arms apply tension to tape

[11] Depress **FORWARD** pushbutton

FORWARD lamp lights until tape winds forward to BOT marker and stops

[12] See NOTE 2. Depress **FORWARD** pushbutton

FORWARD lamp lights; tape winds forward

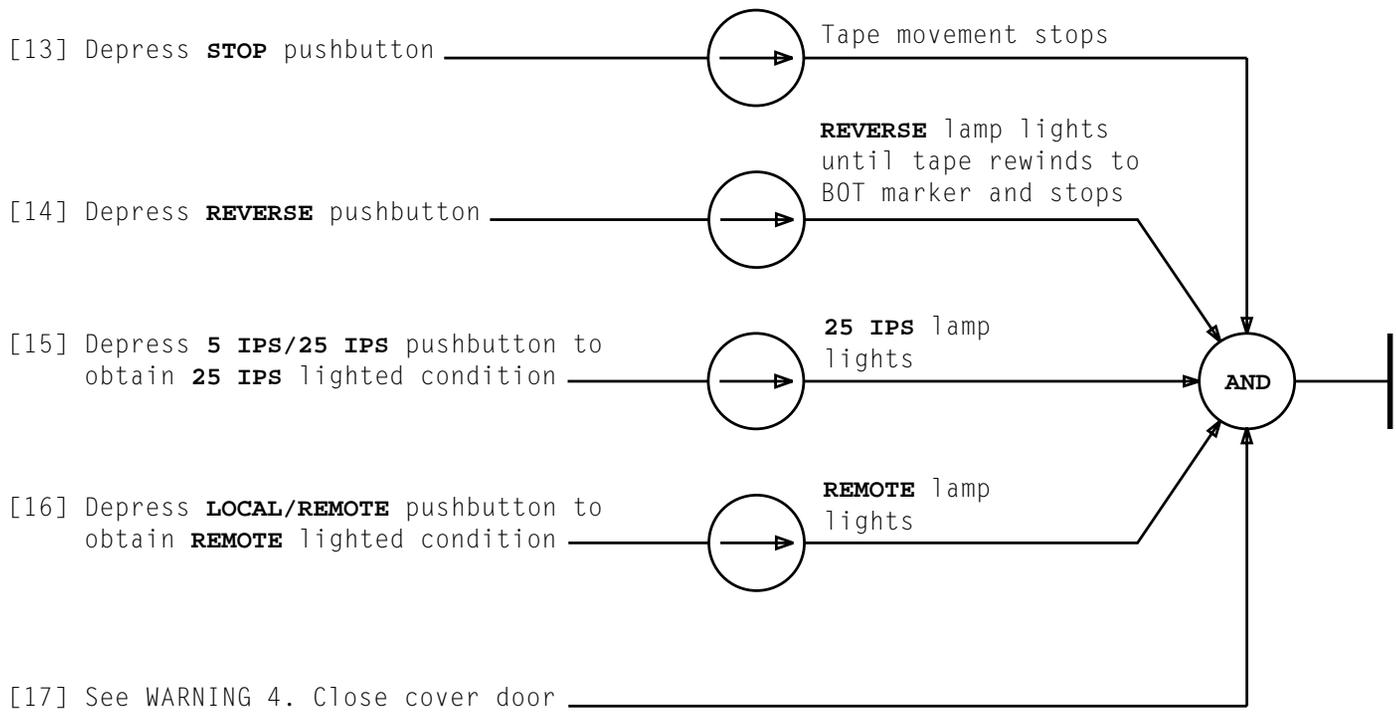


NOTES

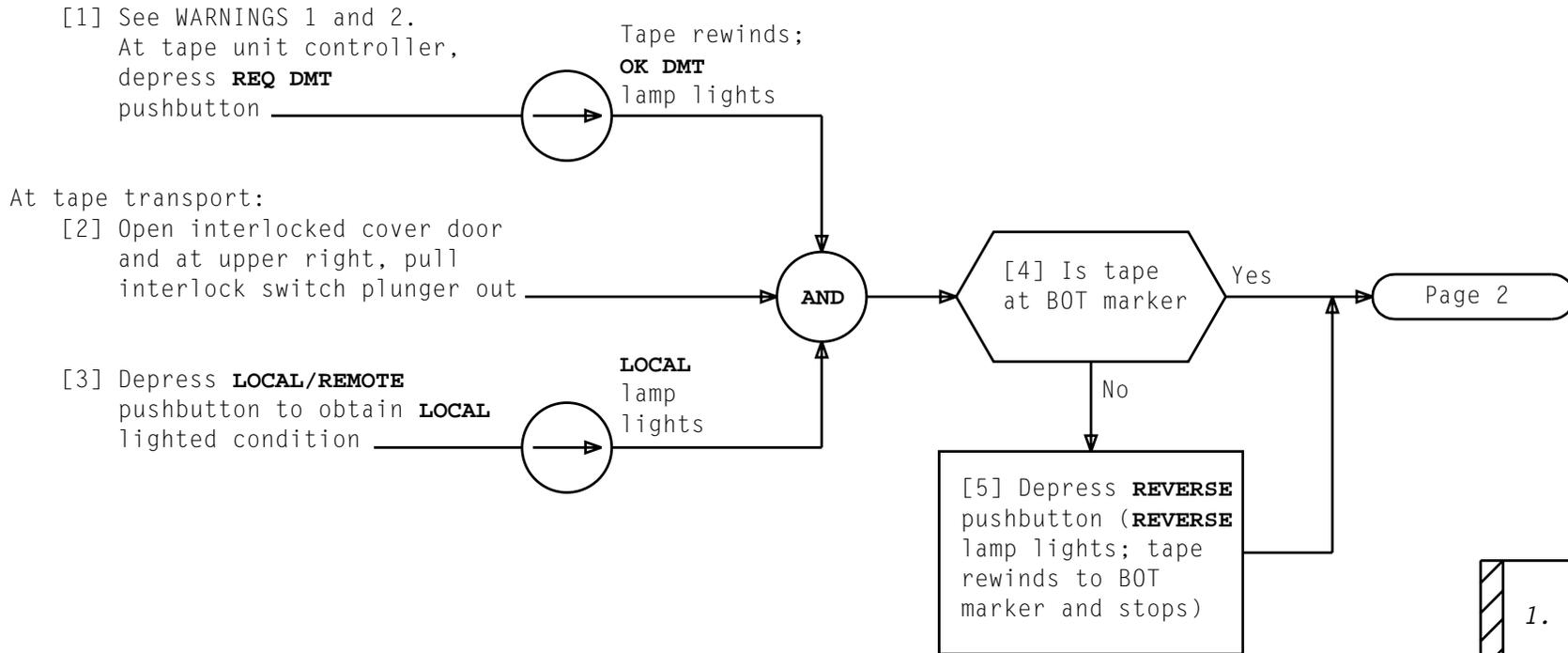
1. To start tape on take-up reel, it may help to moisten tape end (moistened fingers) and stick tape to reel axle
2. Steps 12, 13, and 14 cause BOT marker to be approached from recorded area of tape.

WARNINGS

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



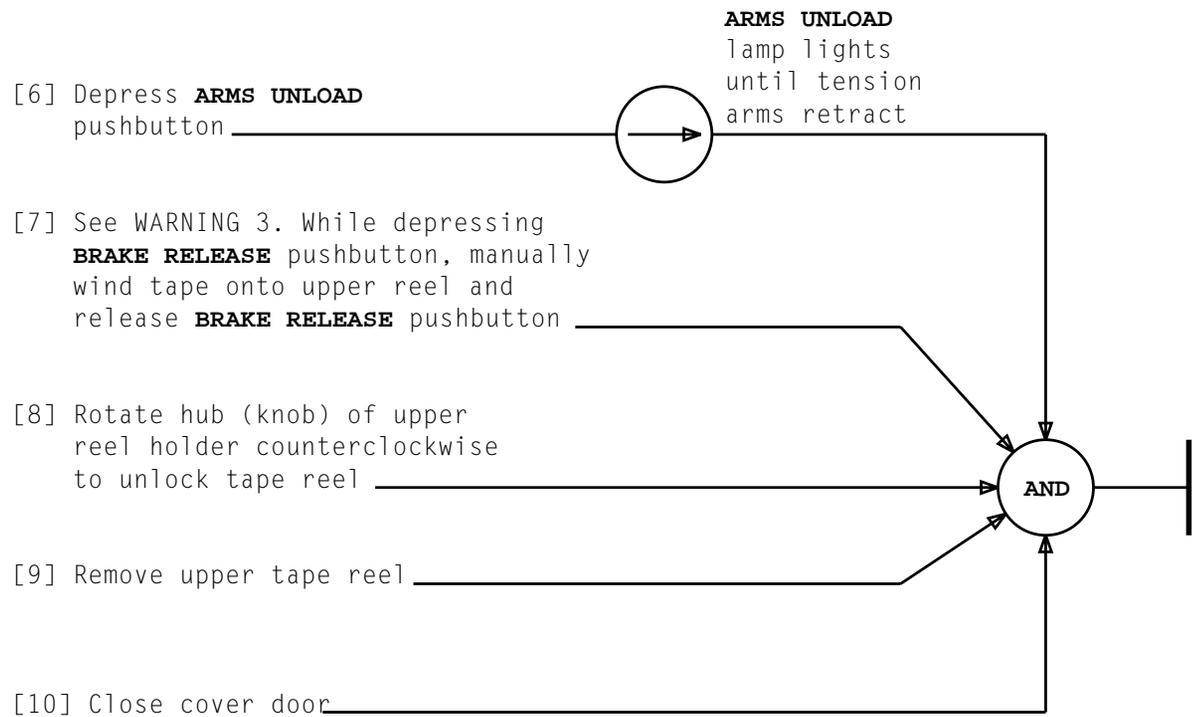
<i>WARNING 4</i>	
<i>Closing tape transport door in harsh manner may upset alignment</i>	
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WARNINGS

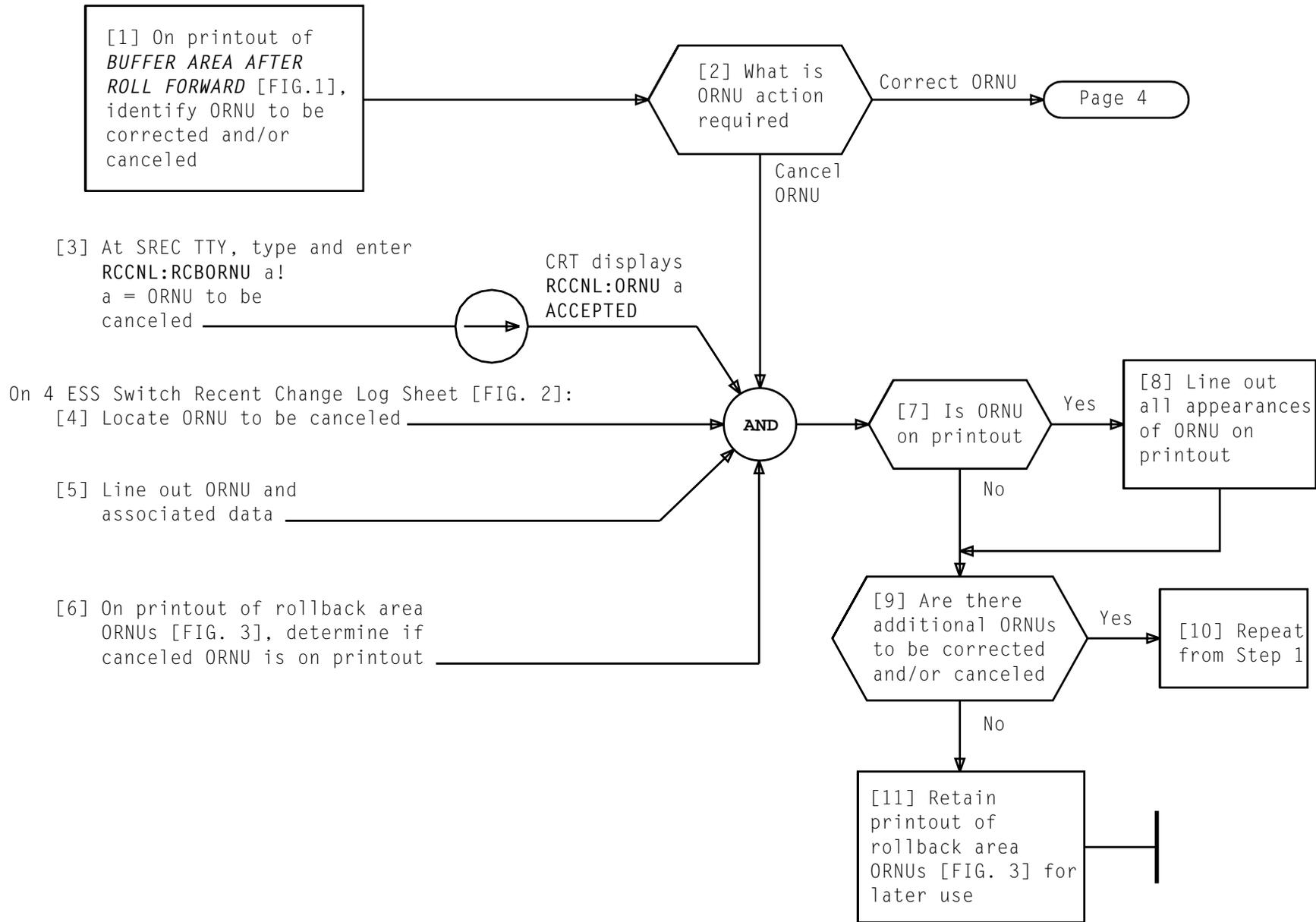
1. Cycling tape transport or tape unit controller with tape over read/write heads may garbage tape
2. If tape is being demounted due to a faulty tape unit, proper tape unit maintenance documentation should be used

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

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CORRECT AND/OR CANCEL ORNUs IN BUFFER STATE

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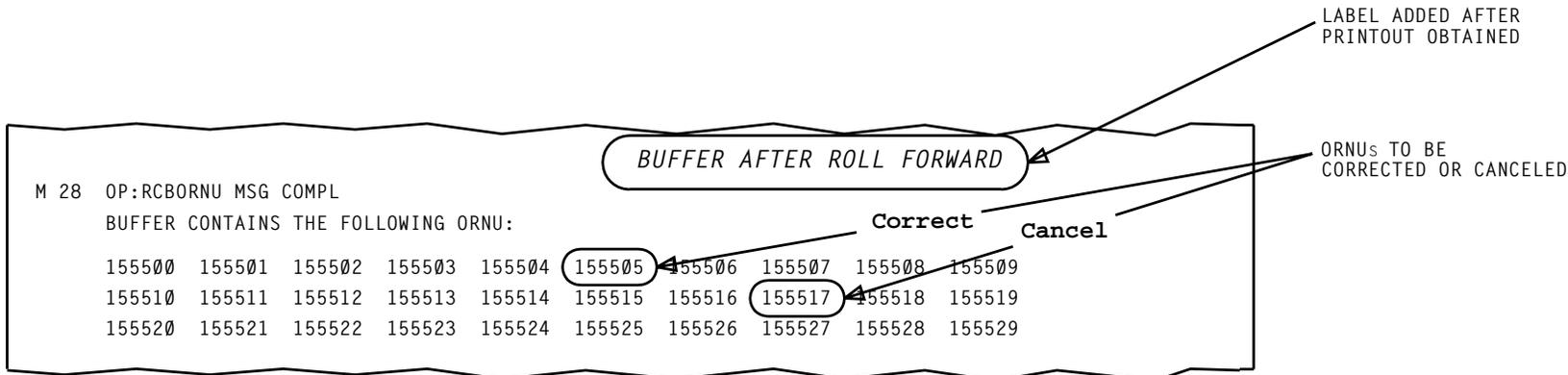


FIG. 1 - Sample Printout of Buffer Area After Roll Forward

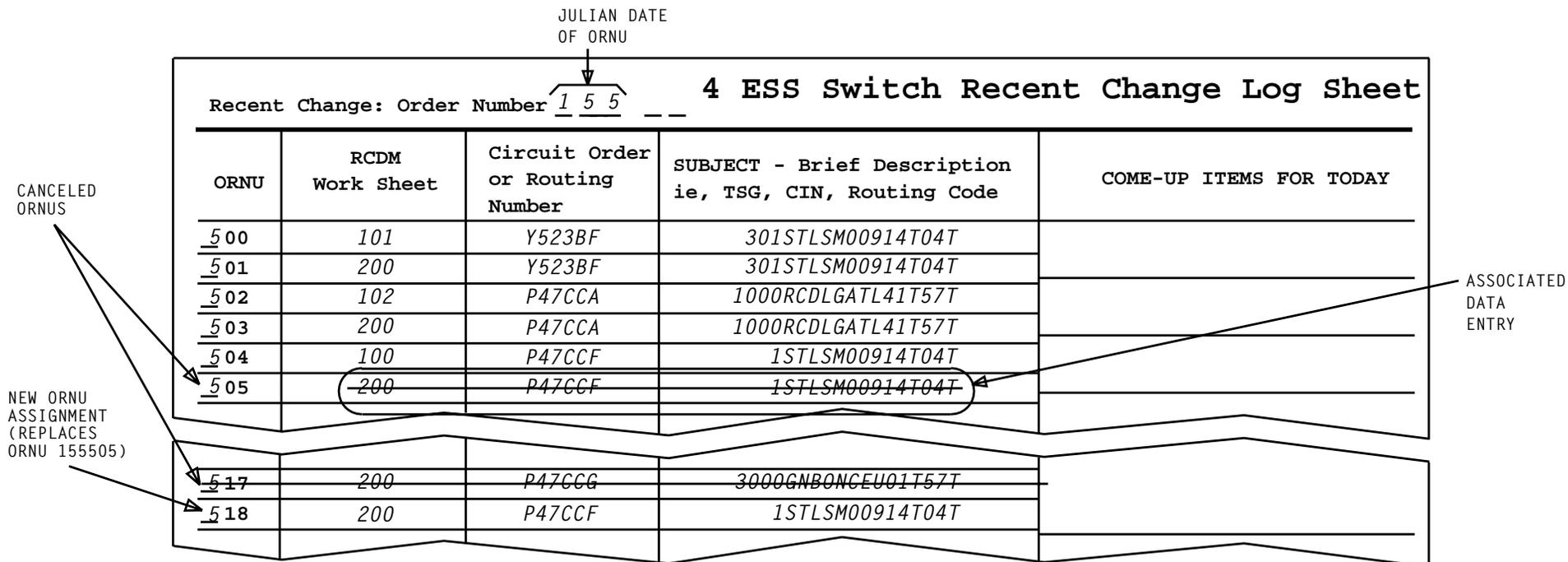


FIG. 2 - Sample 4 ESS Recent Change Log Sheet

CORRECT AND/OR CANCEL ORNUs IN BUFFER STATE

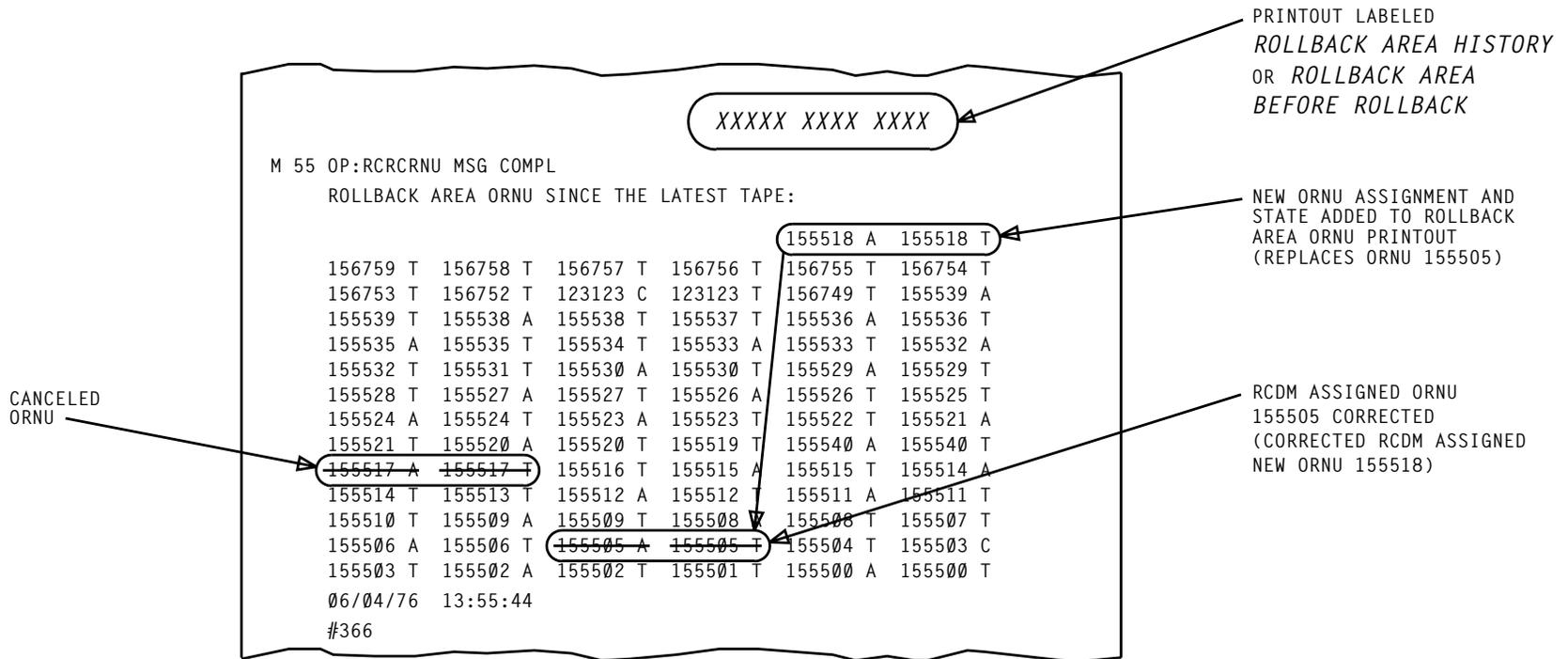


FIG. 3 - Sample Printout of Rollback Area ORNUs

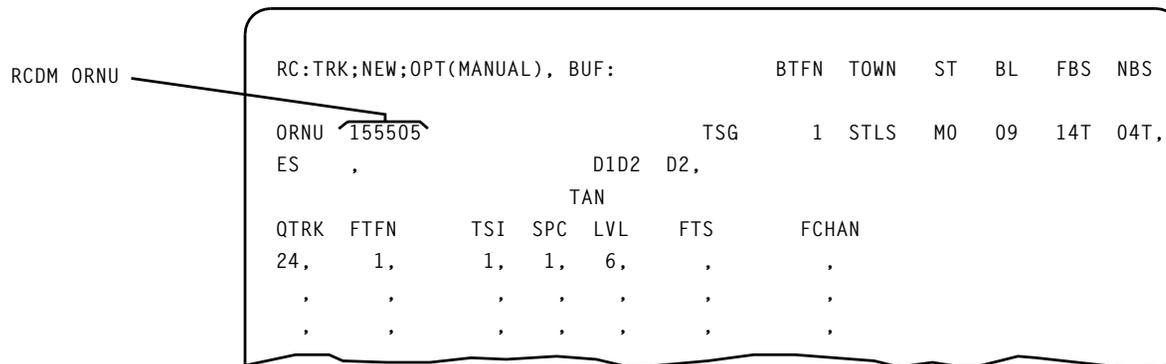
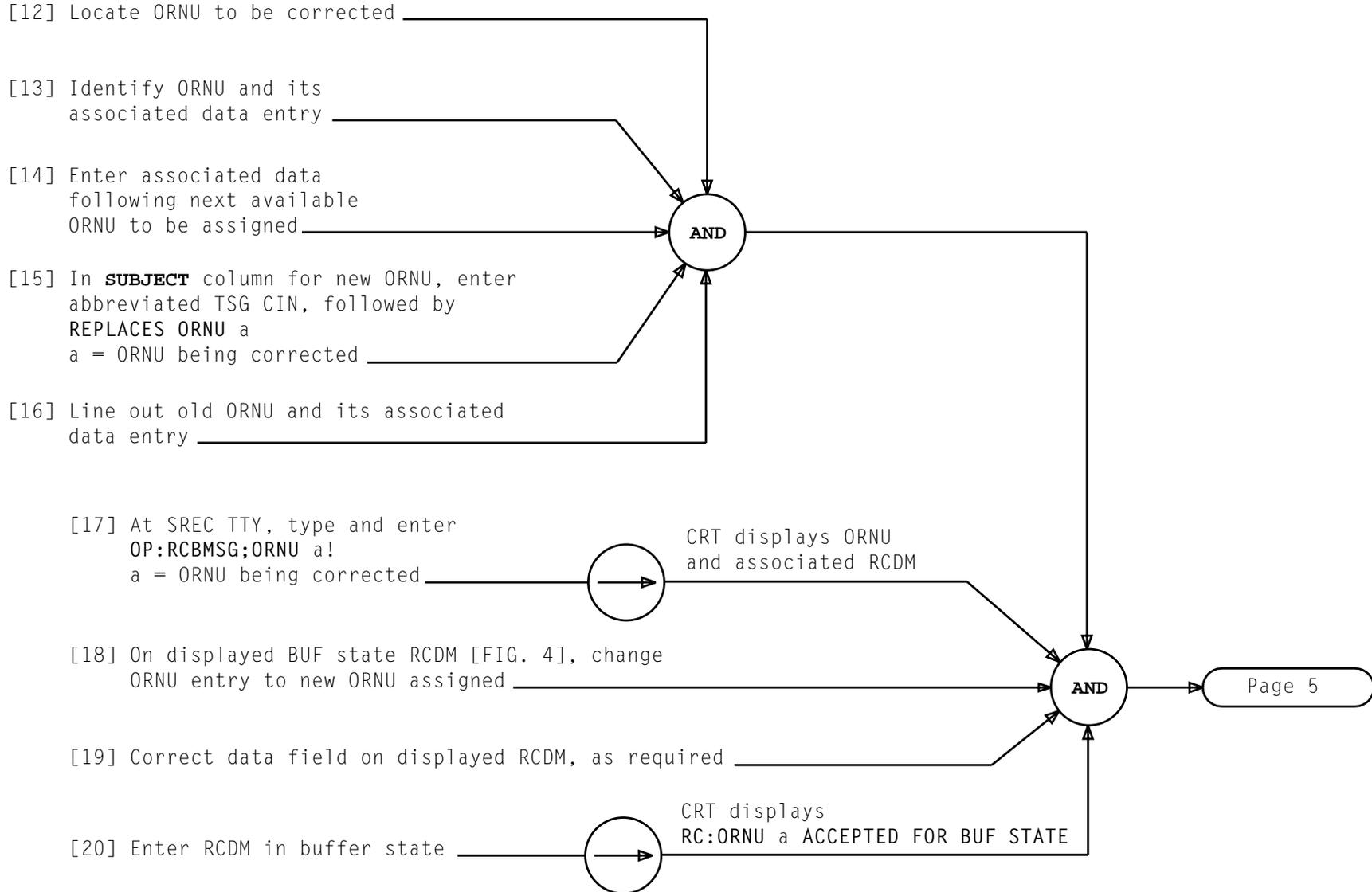


FIG. 4 - Sample CRT Display - BUF State RCDM

On 4 ESS Switch Recent Change Log Sheet [FIG. 2]:

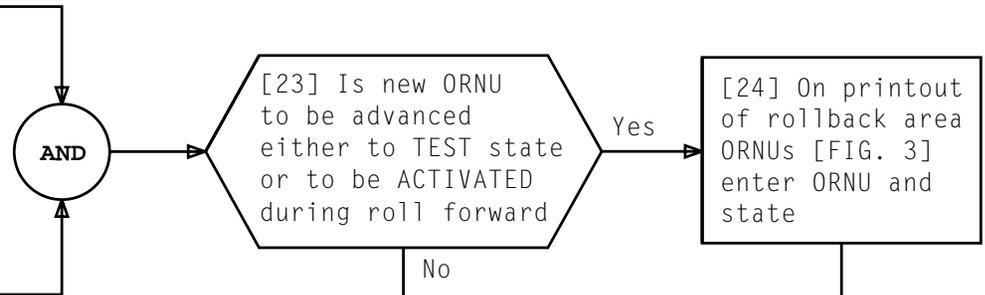


CORRECT AND/OR CANCEL ORNUs IN BUFFER STATE

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[21] Obtain printout of accepted
BUF state RCDM

[22] File printout of BUF state RCDM in
either *NUMERICALLY INDEXED ACTIVE
FILE* or *ALPHA INDEXED ACTIVE FILE*,
as required

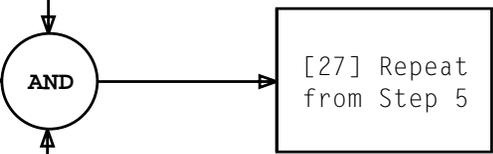


[24] On printout of rollback area ORNUs [FIG. 3] enter ORNU and state

[25] At SREC TTY, type and enter
RCCNL:RCBORNU a!
a = ORNU being corrected

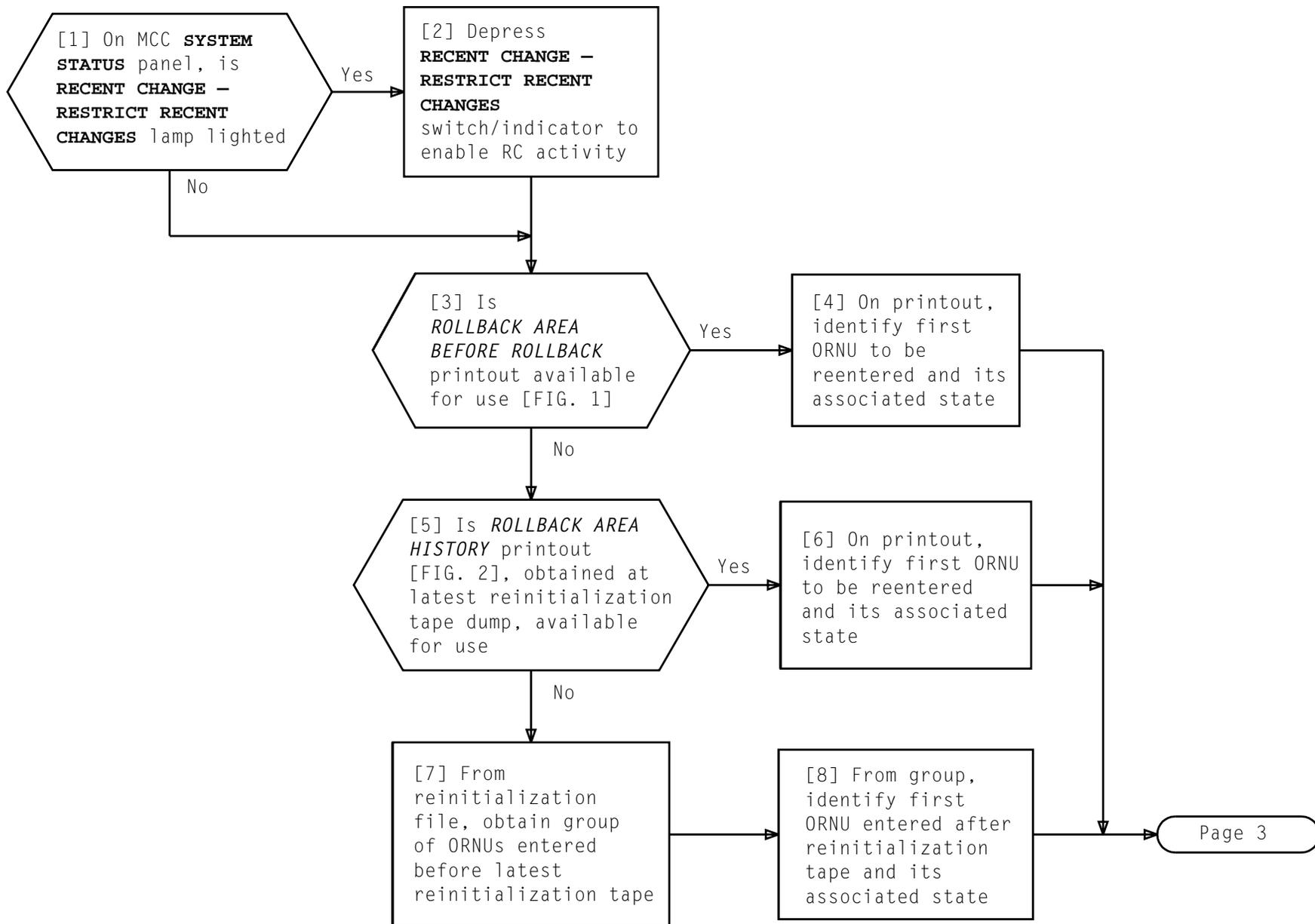


[26] On 4 ESS Switch Recent Change Log Sheet, locate ORNU



CORRECT AND/OR CANCEL ORNUs IN BUFFER STATE

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**PLACE ORNUS IN STATE EXISTING BEFORE ROLLBACK
(ORNUS ENTERED BEFORE LATEST REINITIALIZATION TAPE)**

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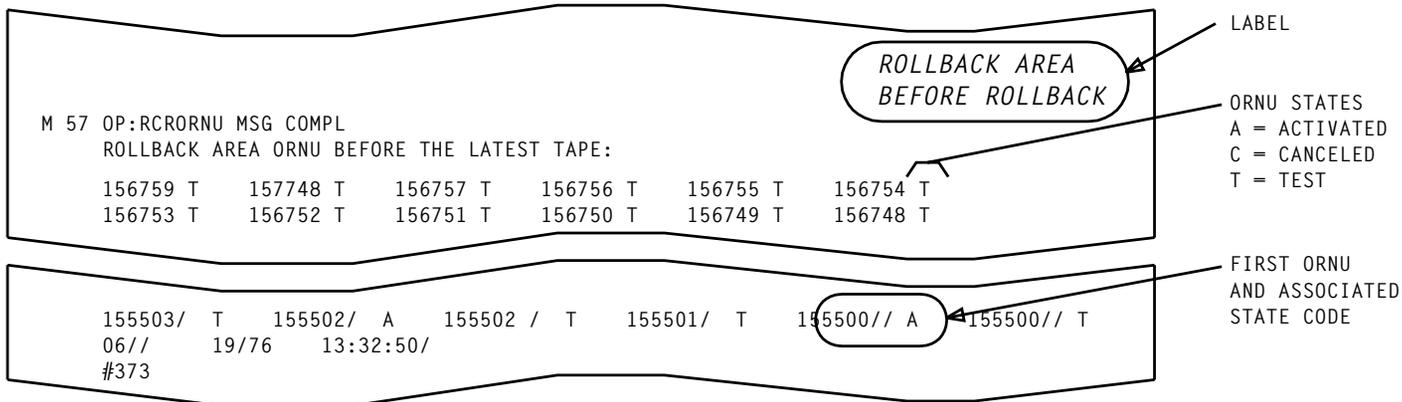


FIG. 1 - Sample Printout of Rollback Area Before Rollback

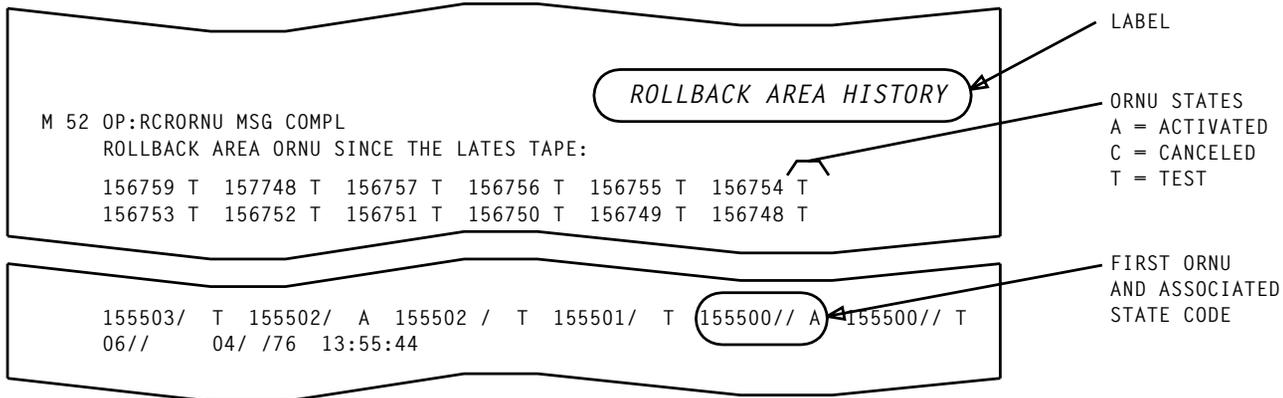
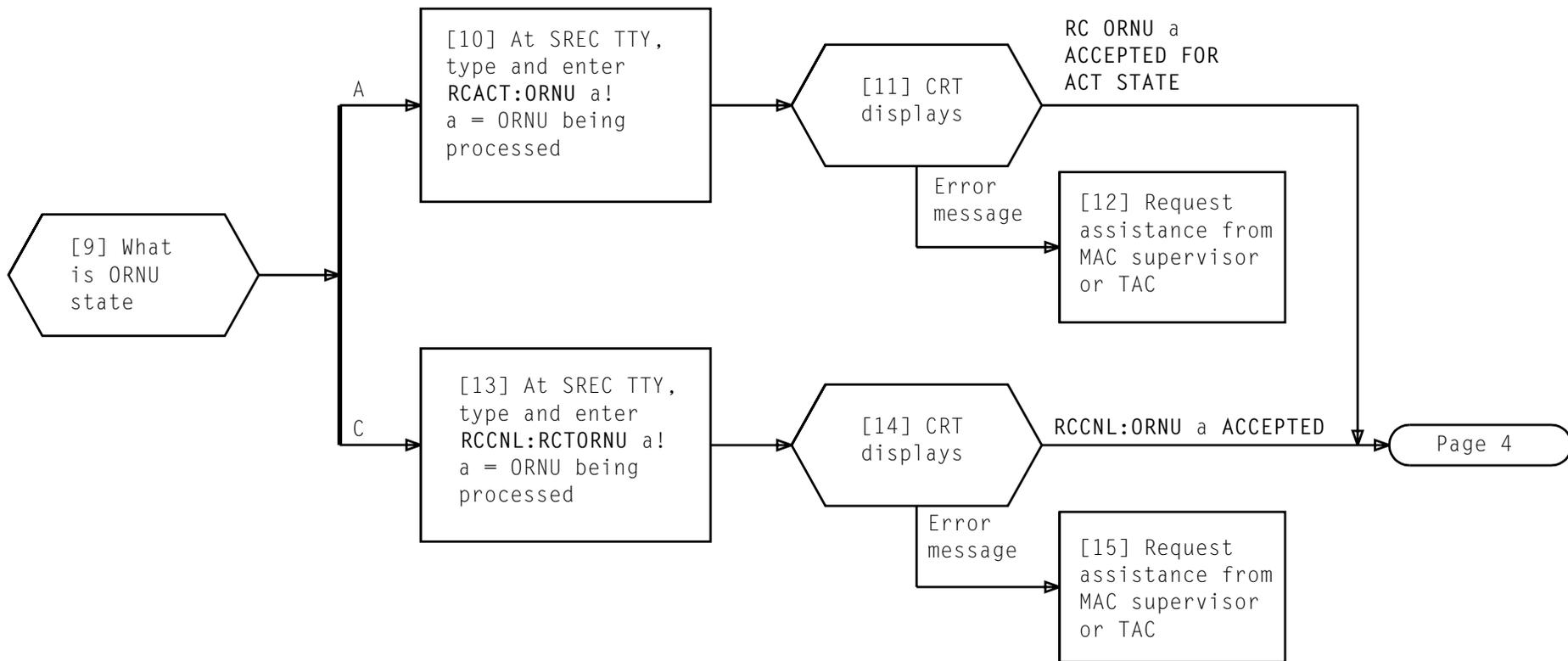


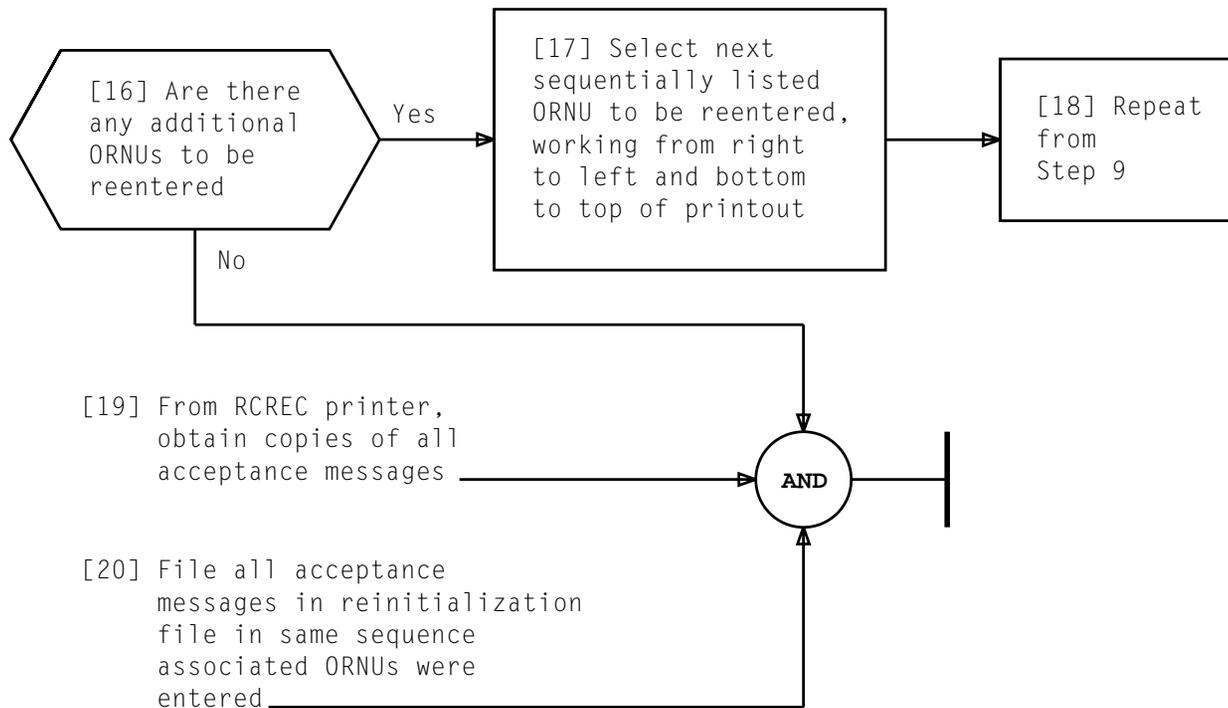
FIG. 2 - Sample Printout of Rollback Area History

PLACE ORNUS IN STATE EXISTING BEFORE ROLLBACK
 (ORNUS ENTERED BEFORE LATEST REINITIALIZATION TAPE)



**PLACE ORNUS IN STATE EXISTING BEFORE ROLLBACK
(ORNUS ENTERED BEFORE LATEST REINITIALIZATION TAPE)**

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**PLACE ORNUs IN STATE EXISTING BEFORE ROLLBACK
 (ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)**

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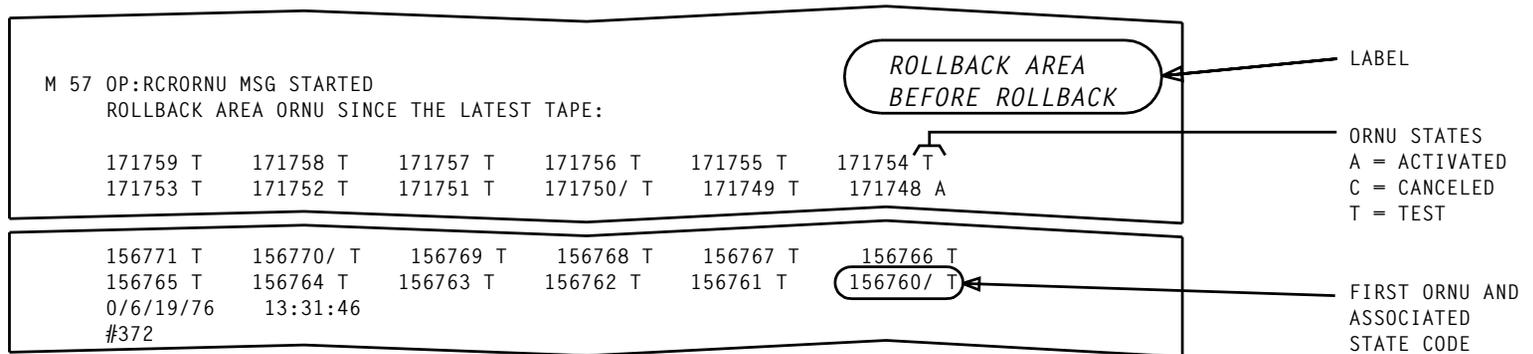
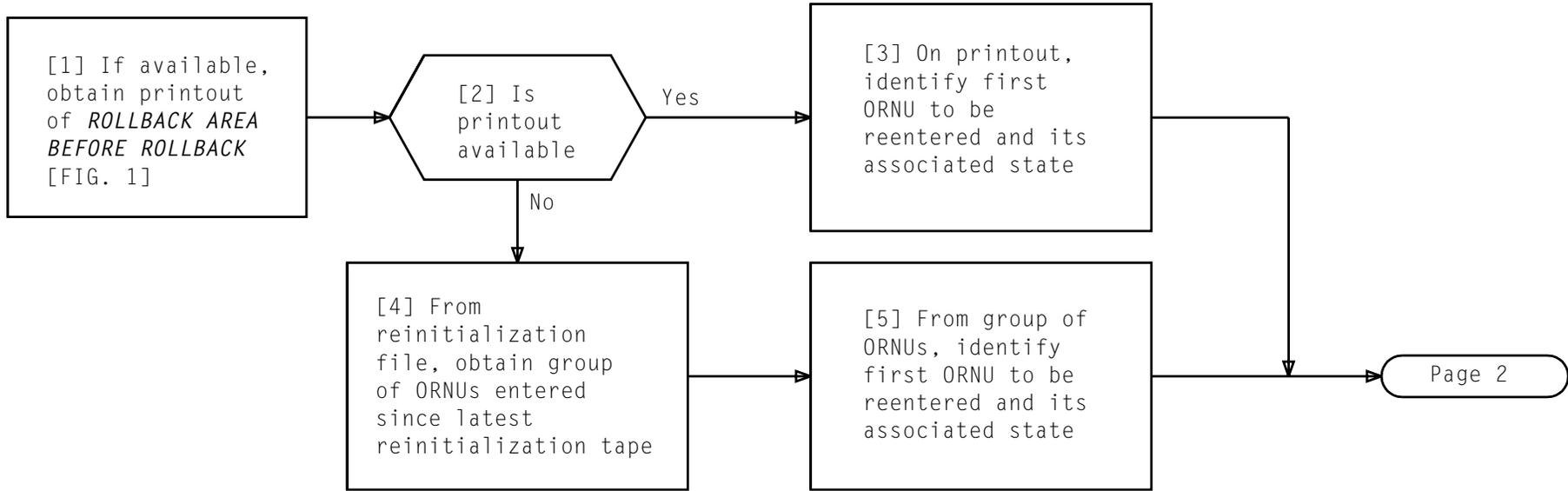
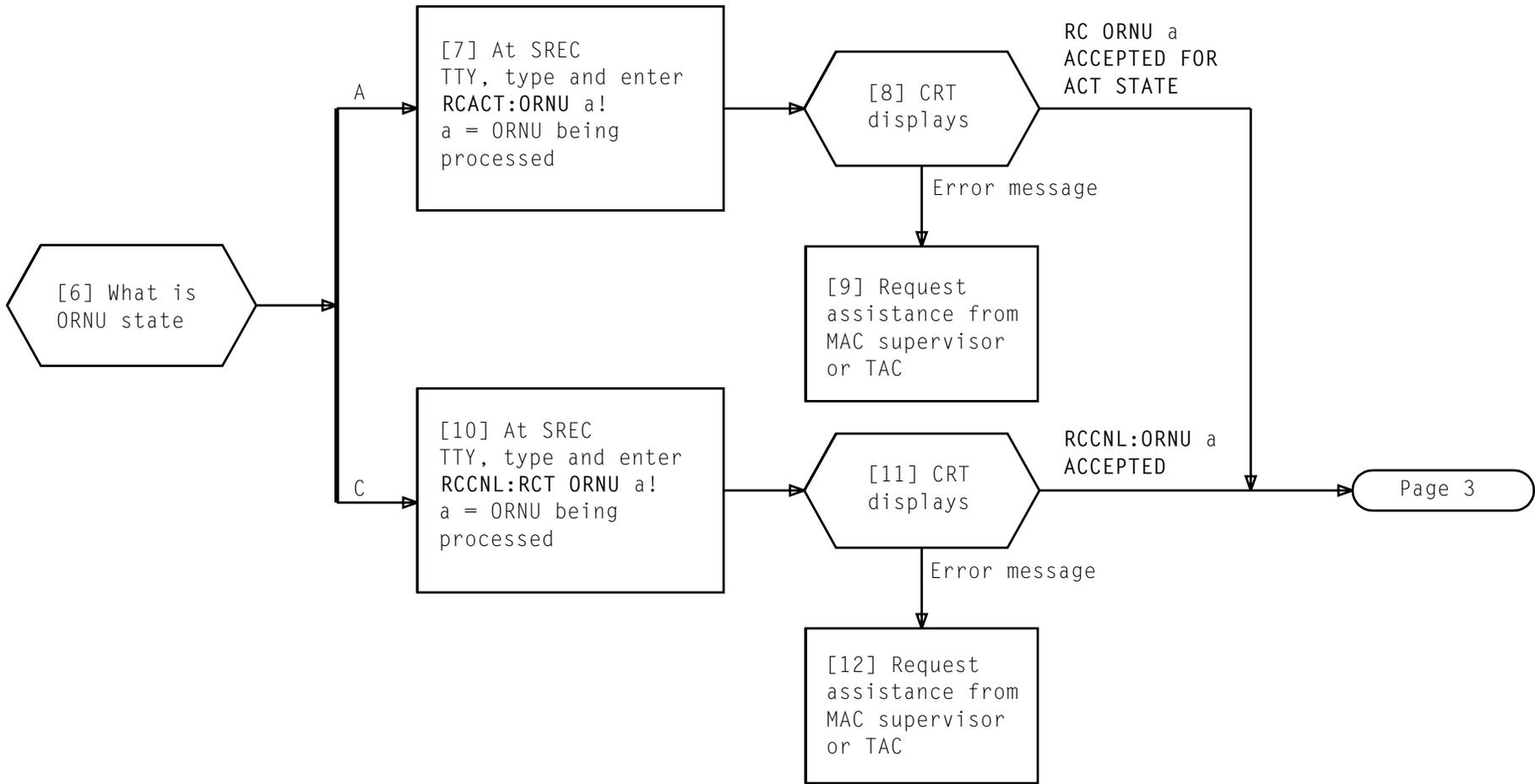


FIG. 1 - Sample Printout of Rollback Area Before Rollback

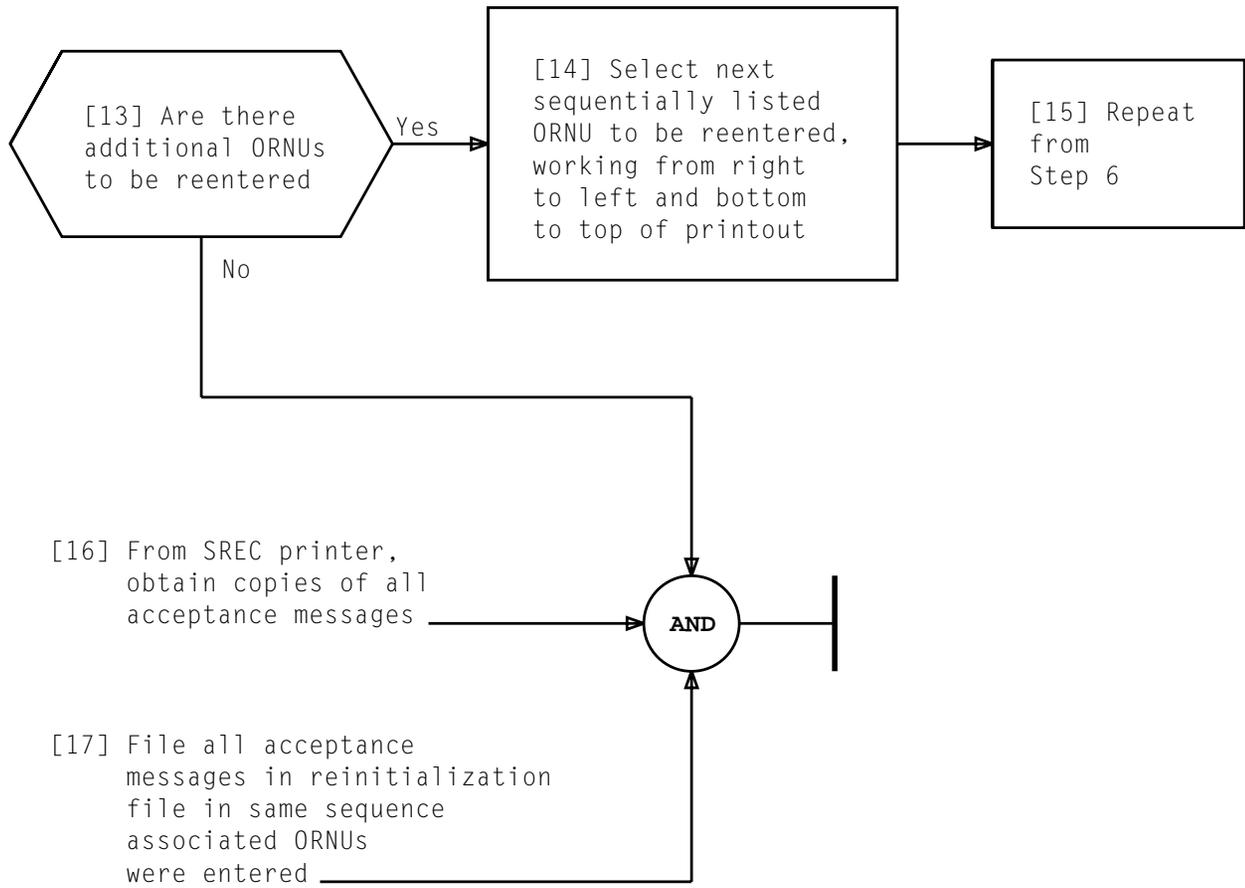
**PLACE ORNUs IN STATE EXISTING BEFORE ROLLBACK
(ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)**

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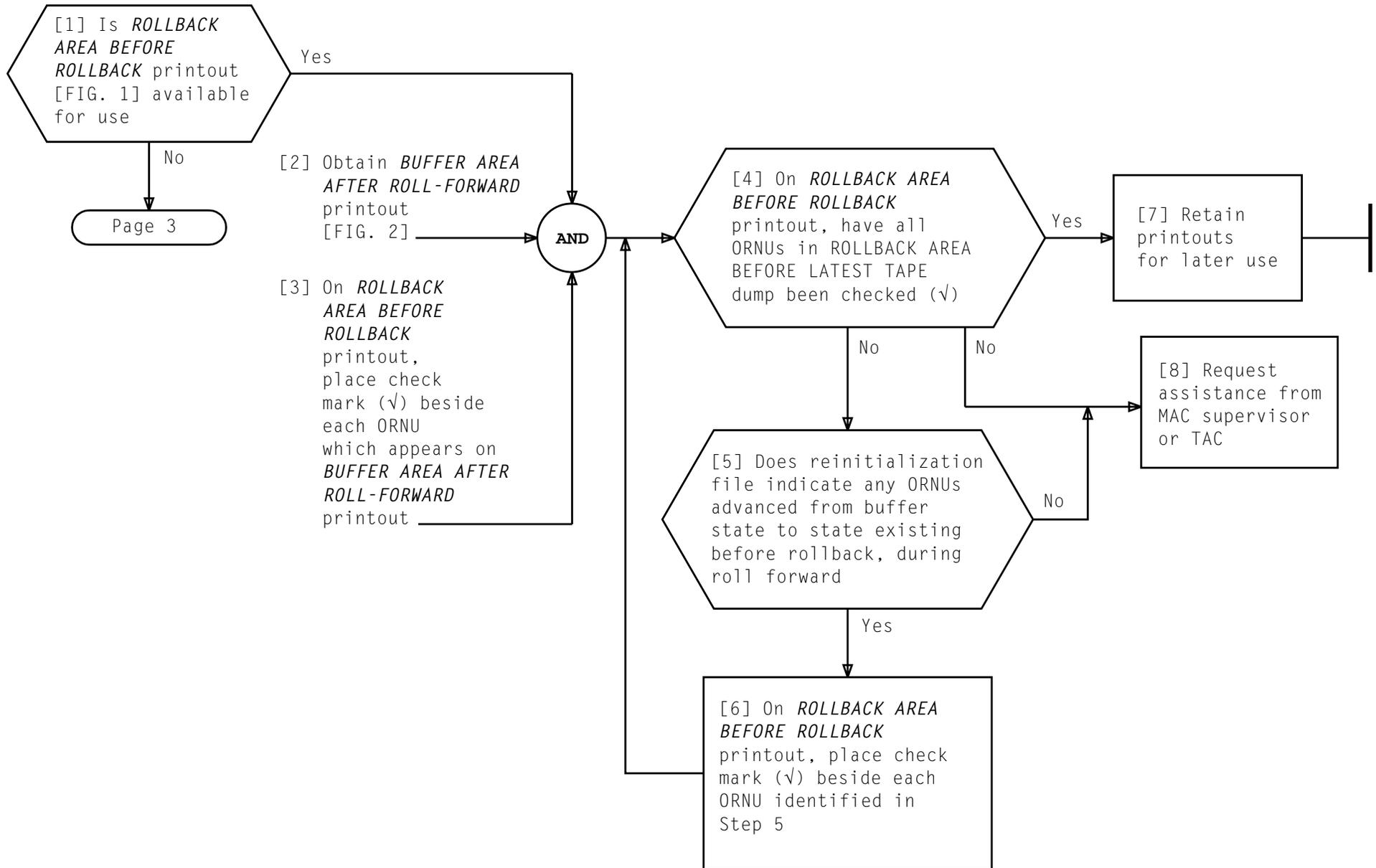
**PLACE ORNUs IN STATE EXISTING BEFORE ROLLBACK
(ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)**

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**PLACE ORNUs IN STATE EXISTING BEFORE ROLLBACK
(ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)**

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**ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
(ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)**

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FIRST ORNU ROLLED BACK →

```

M 57 OP:RCRORNU MSG COMPL
ROLLBACK AREA ORNU BEFORE THE LATEST TAPE:
156759 T 156758 T 156757 T 156756 T 156755 T 156754 T
156753 T 156752 T 156751 T 156750 T 156749 T 156748 A

```

ROLLBACK AREA BEFORE ROLLBACK

LABEL

```

155503 T 155502 A 155502 T 155501 T 155500 A 155500 T
06/19/76 13:22:50
#373

```

FIG. 1 - Sample Printout of Rollback Area Before Rollback

```

M 53 OP:RCBORNU MSG COMPL
BUFFER CONTAINS THE FOLLOWING ORNU:
155500 155501 155502 155503 155504 155505 155506 155507 155508 155509
155510 155511 155512 155513 155514 155515 155516 155517 155518 155519
155520 155521 155522 155523 155524 155525 155526 155527 155528 155529

```

BUFFER AREA AFTER ROLL FORWARD

LABEL

```

156740 156741 156742 156743 156744 156745 156746 156747 156748 156749
156750 156751 156752 156753 156754 156755 156756 156757 156758 156759

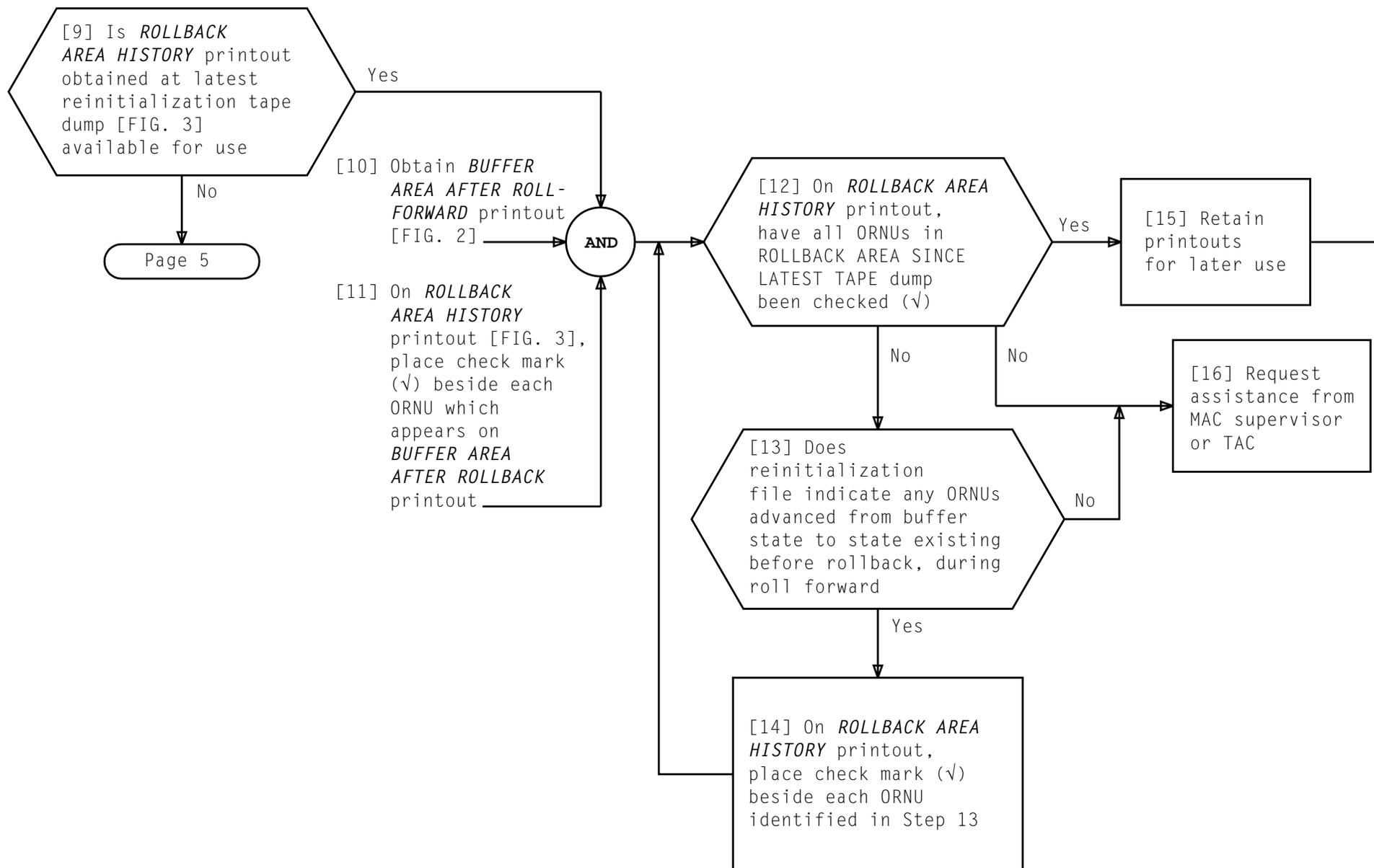
```

LAST ORNU ROLLED FORWARD

FIG. 2 - Sample Printout of Buffer Area After Roll Forward

**ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
(ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)**

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**ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
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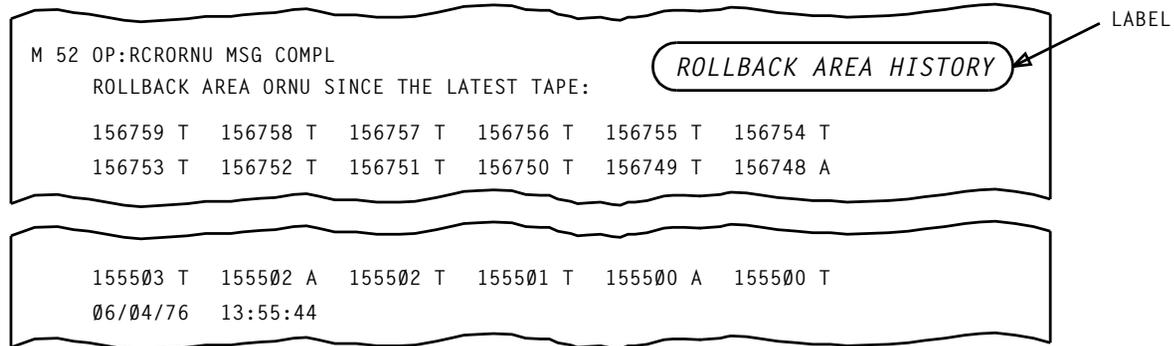
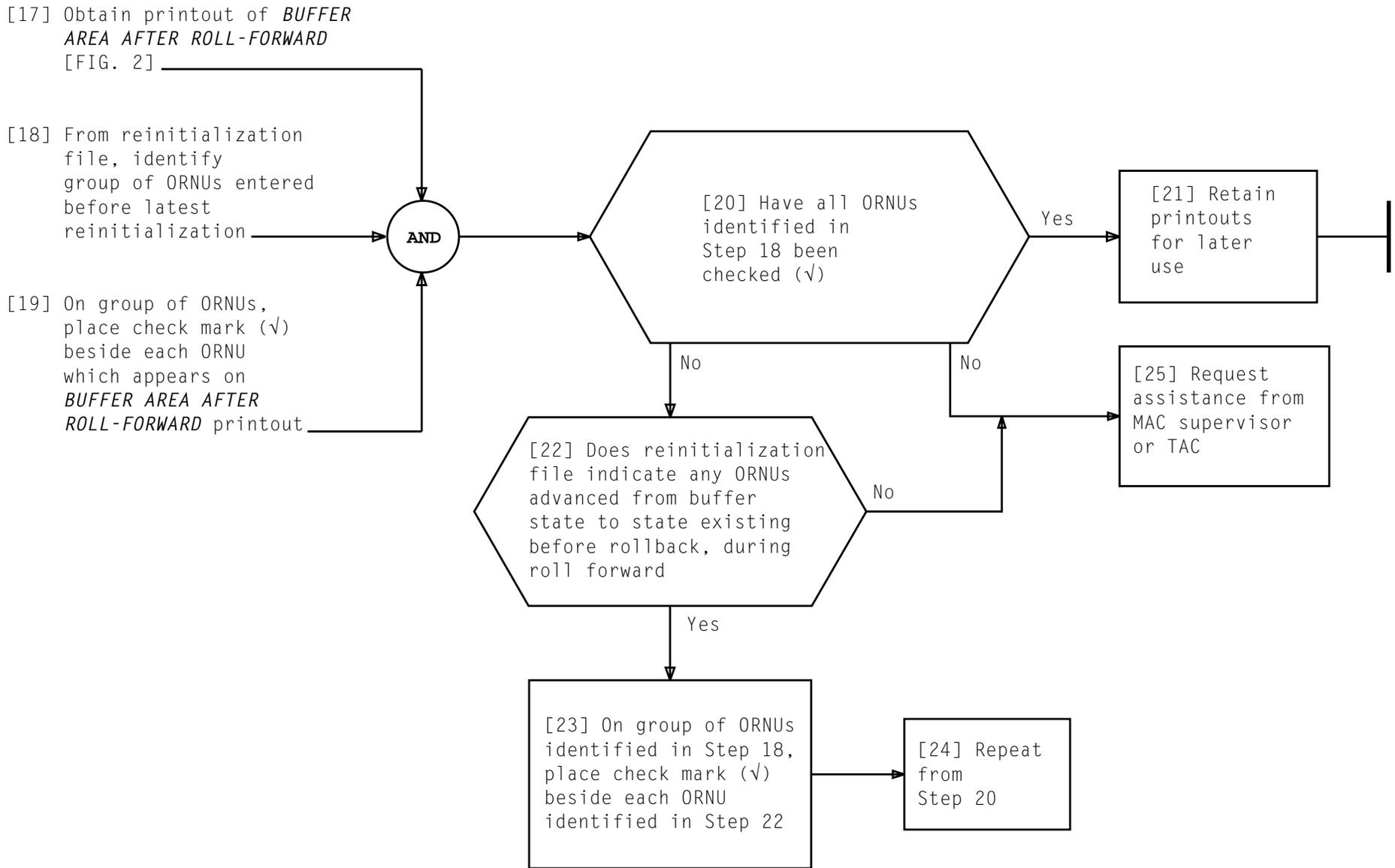


FIG. 3 - Sample Printout of Rollback Area History

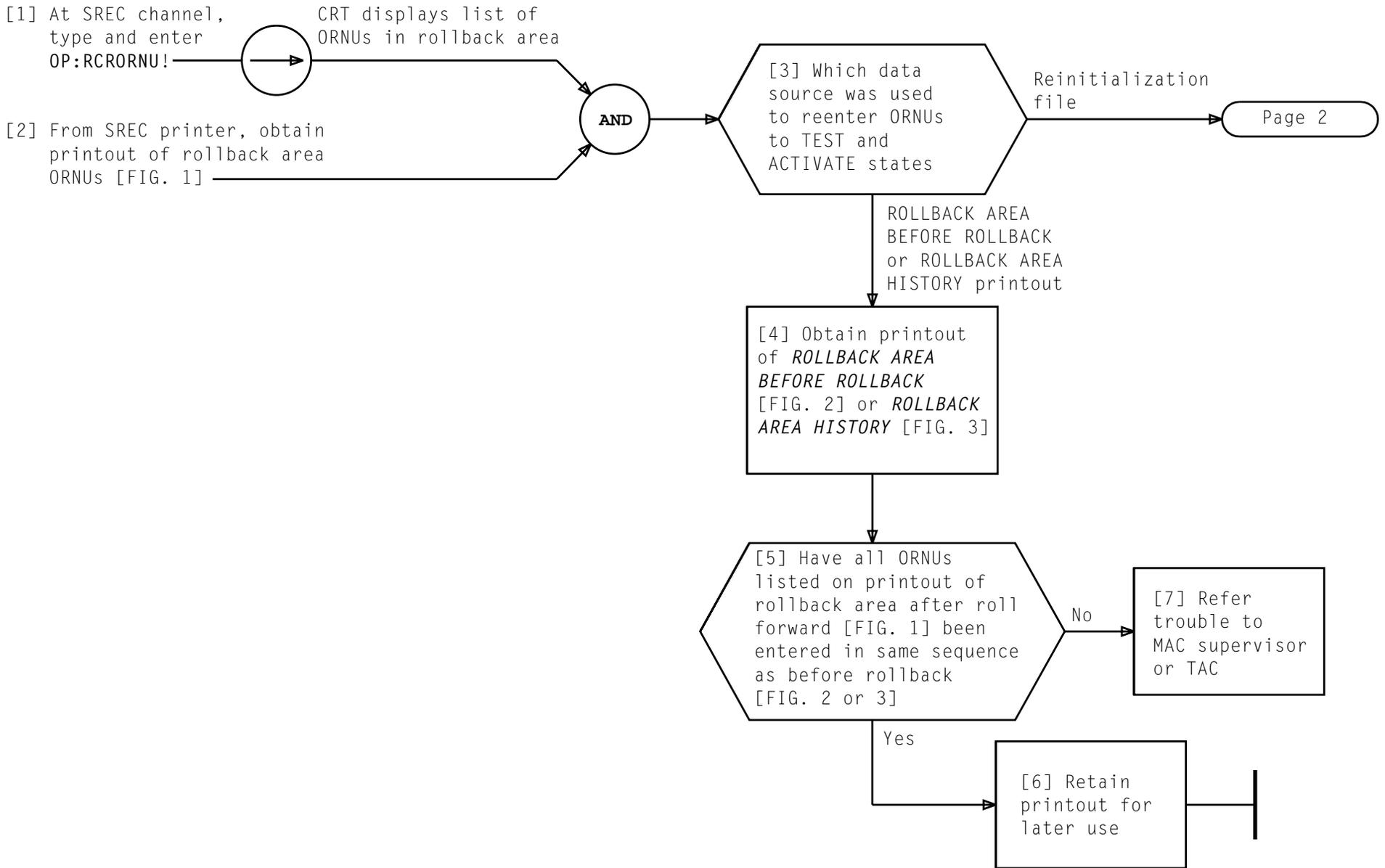
ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
 (ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)

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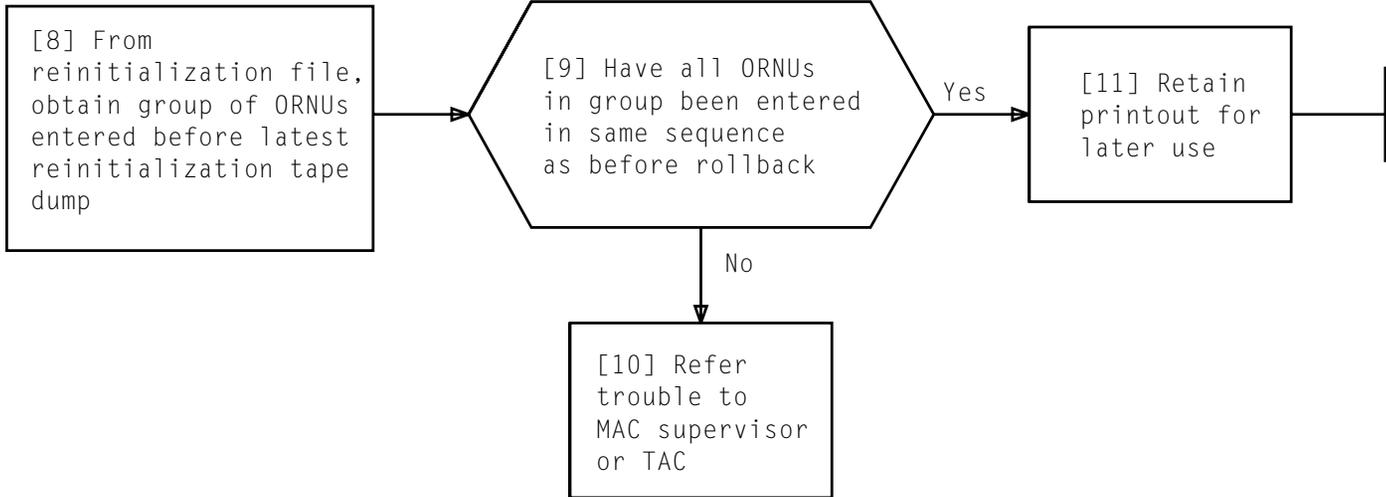
**ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
(ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)**

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ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE CORRECTLY ENTERED IN ROLLBACK AREA (ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)

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```

M 42 OP:RCRORNU MSG COMPL
ROLLBACK AREA ORNU SINCE THE LATEST TAPE:

156759 T 156758 T 156757 T 156756 T
156755 T 156754 T 156753 T 156752 T 123123 C 123123 T
155549 T 155539 A 155539 T 155538 A 155538 T 155537 T
155536 A 155536 T 155535 A 155535 T 155534 T 155533 A
155533 T 155532 A 155532 T 155531 T 155530/ A 155530/ T
155529 A 155529 T 155528 T 155527 A 155527 T 155526 A
155526 T 155525 T 155524 A 155524 T 155523 A 155523 T
155522 T 155521 A 155521 T 155520/ A 155520/ T 155519 T
155540 A 155540 T 155516 T 155515 A 155515 T 155514 A
155514 T 155513 T 155512 A 155512 T 155511 A 155511 T
155510 T 155509 A 155509 T 155508 A 155508 T 155507 T
15550/6 A 15550/6 T 155518 A 155518 T 15550/4 T 15550/3 C
155503 T 155502 A 155502 T 155501 T 155500 A 155500 T
0/6/0/5/76 12:55:44
#200//
  
```

FIG. 1 - Sample Printout of Rollback Area ORNUs Obtained After Roll Forward

ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE CORRECTLY ENTERED IN ROLLBACK AREA (ORNUs ENTERED BEFORE LATEST REINITIALIZATION TAPE)

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```

M 57 OP:RCRORNU MSG COMPL
ROLLBACK AREA ORNU BEFORE THE LATEST TAPE:

156759 T 156758 T 156757 T 156756 T 156755 T 156754 T
156753 T 156752 T 156751 T 156750 T 156749 T 156748 A

155503/ T 155502/ A 155502/ T 155501/ T 155500// A 155500//
0/6/19/76 13:32:50/
#373

```

ROLLBACK AREA
BEFORE ROLLBACK

LABEL

FIG. 2 - Sample Printout of Rollback Area Before Rollback

```

M 52 OP:RCRORNU MSG COMPL
ROLLBACK AREA ORNU SINCE THE LATEST TAPE:

156759 T 156758 T 156757 T 156756 T 156755 T 156754 T
156753 T 156752 T 156751 T 156950 T 156749 T 156748 A
155539 T 155538 A 155538 T 155537 T 155536 A 155536 T
155535 A 155535 T 155534 T 155533 A 155533 T 155532 A
155532 T 155531 T 155530 A 155530 T 155529 A 155529 T
155528 T 155527 A 155527 T 155526 A 155526 T 155525 T
155524 A 155524 T 155523 A 155523 T 155522 T 155521 A
155521 T 155520 A 155520 T 155519 T 155518 A 155518 T
155517 A 155517 T 155516 T 155515 A 155515 T 155514 A
155514 T 155513 T 155512 A 155512 T 155511 A 155511 T
155510 T 155509 A 155509 T 155508 T 155508 T 155507 T
155506 A 155506 T 155505 A 155505 T 155504 T 155503 C
155503 T 155502 A 155502 T 155501 T 155500 A 155500 T
06/04/76 13:55:44
#366

```

ROLLBACK AREA HISTORY

NEW ORNU ASSIGNMENT AND
STATE ADDED TO ROLLBACK
AREA ORNU PRINTOUT -
REPLACES ORNU 155505

ORNU 155505 RCDM
CORRECTED - REPLACED
BY ORNU 155518

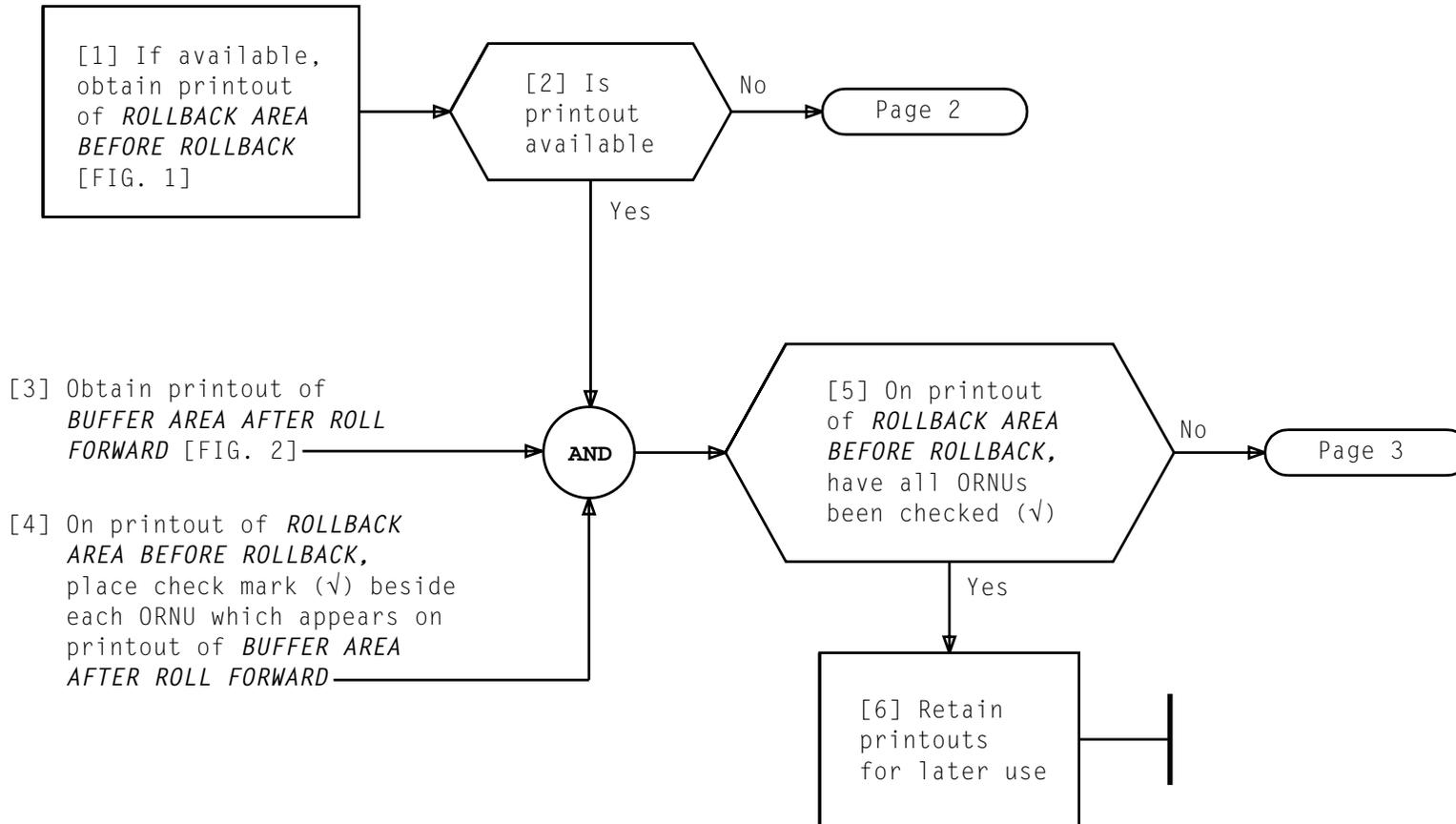
CANCELED ORNU

LABEL

FIG. 3 - Sample Printout of Rollback Area History

ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE
CORRECTLY ENTERED IN ROLLBACK AREA (ORNUs
ENTERED BEFORE LATEST REINITIALIZATION TAPE)

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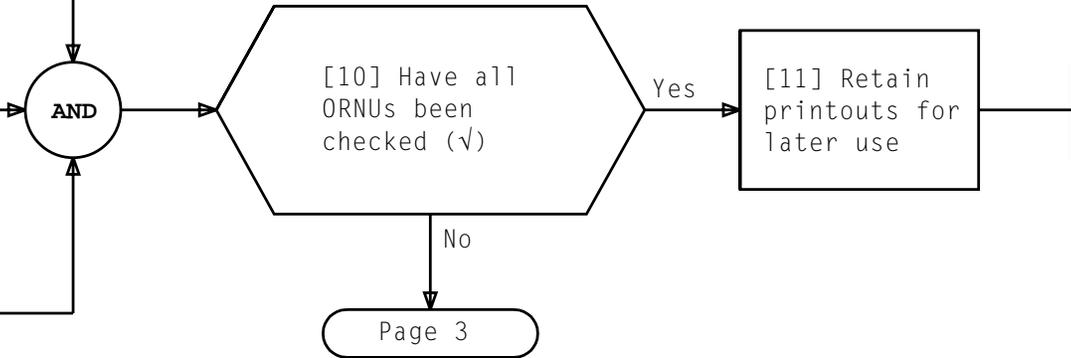
**ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
(ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)**

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[7] Obtain printout of *BUFFER AREA*
AFTER ROLL FORWARD

[8] Obtain from reinitialization file,
group of ORNUs entered since latest
reinitialization tape

[9] On group of ORNUs, place check
mark (✓) beside each ORNU which
appears on printout of *BUFFER AREA*
AFTER ROLL FORWARD



FIRST
ORNU
ROLLED
BACK

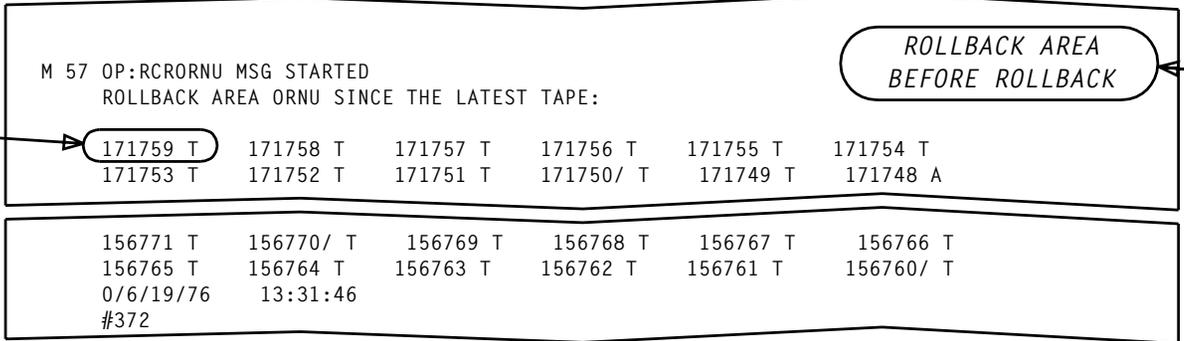


FIG. 1 - Sample Printout of Rollback Area Before Rollback

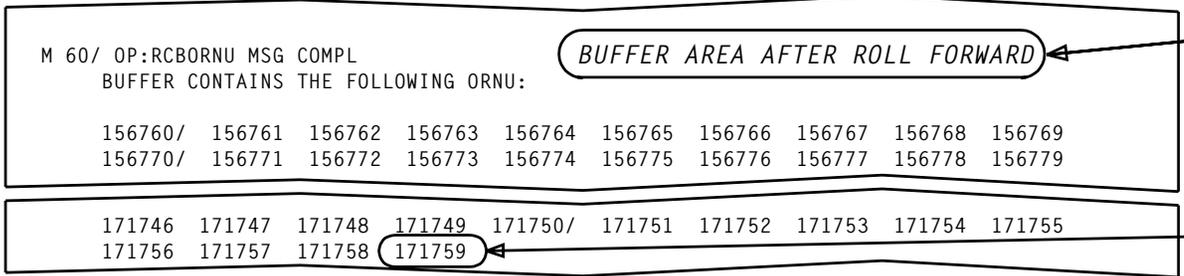
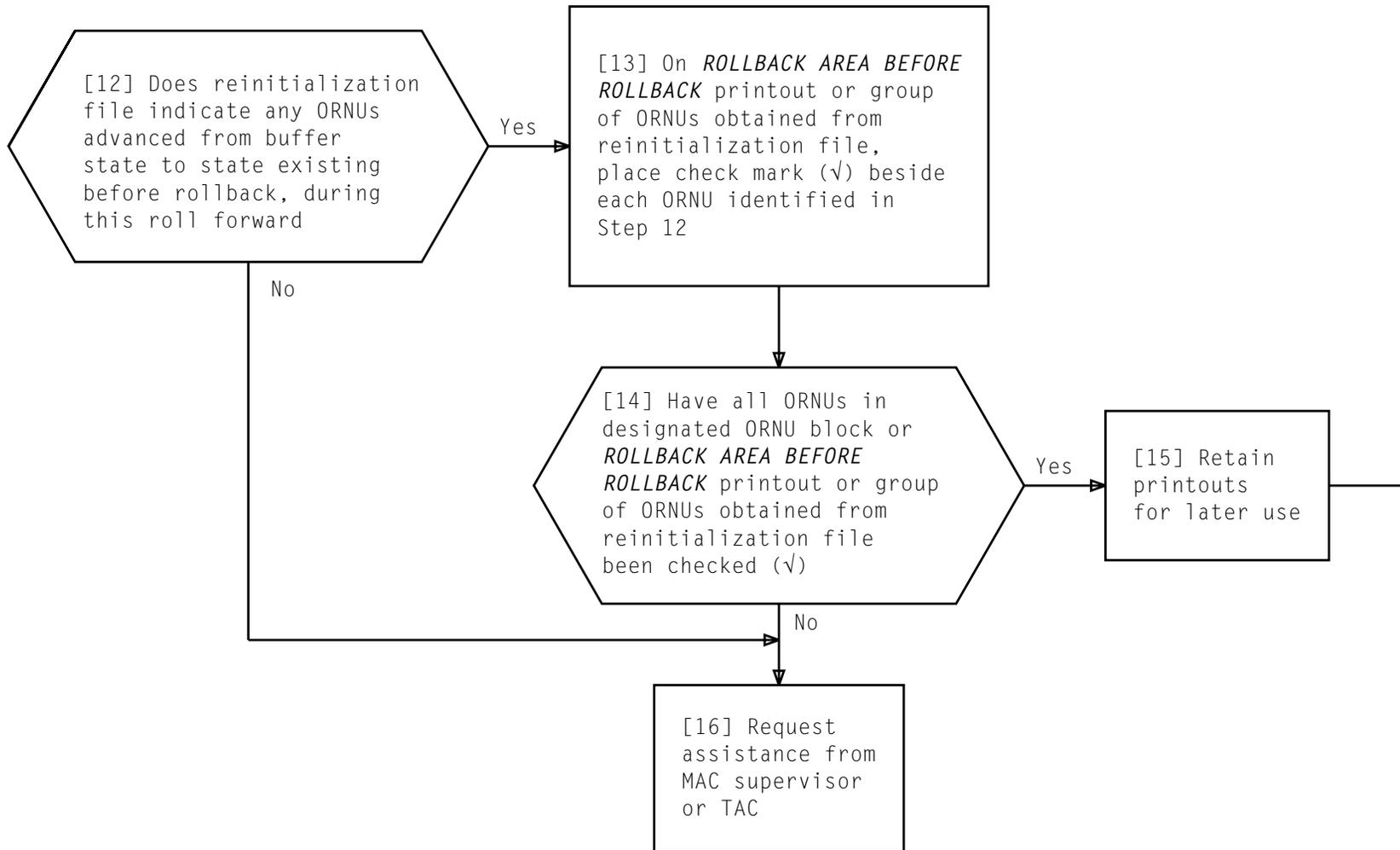


FIG. 2 - Sample Printout of Buffer After Roll Forward

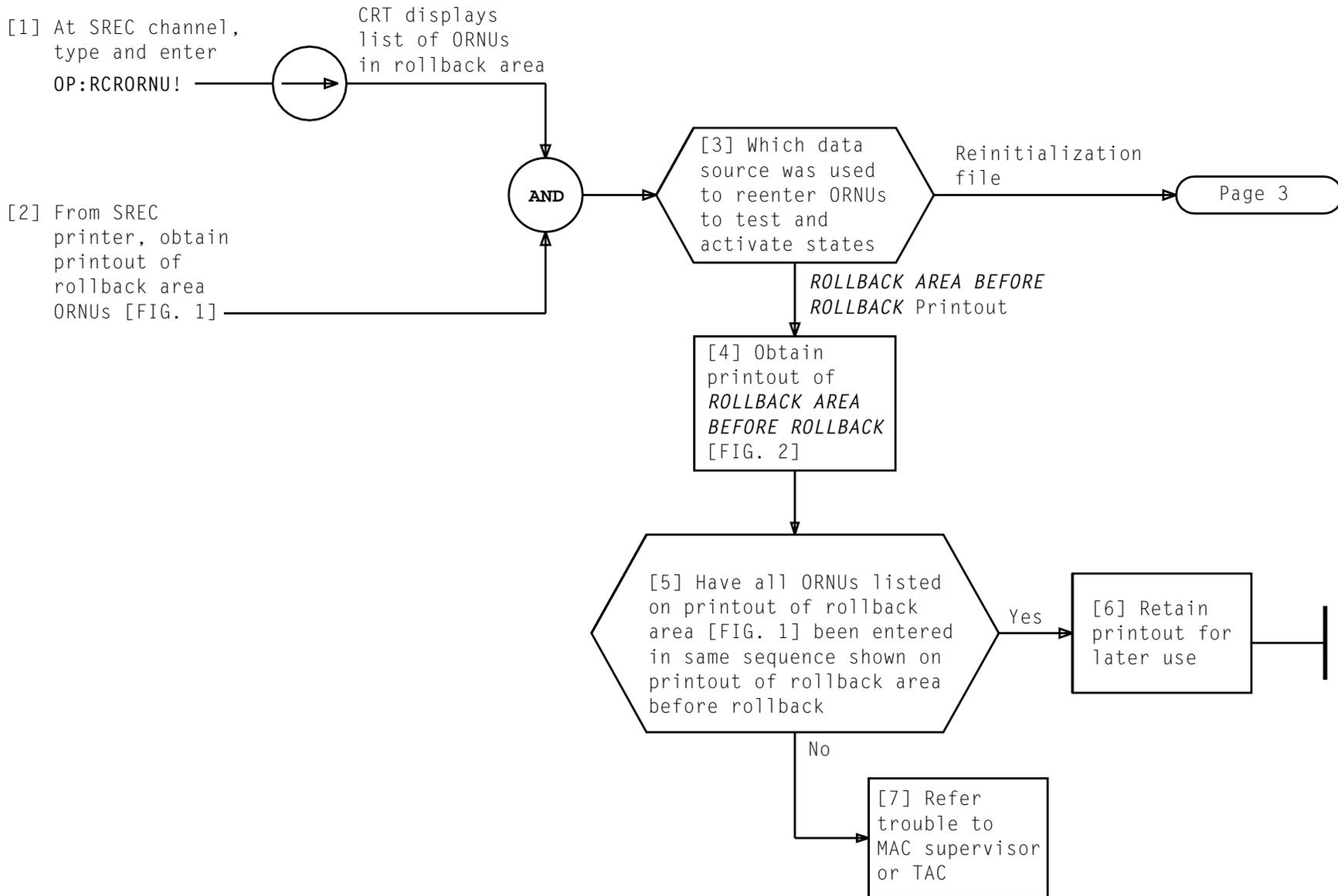
**ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES
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ENSURE ALL ORNUs FROM ROLL-FORWARD TAPE ARE IN CORRECT STATES (ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)

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ENSURE ALL ORNUs FROM ROLL-FORWARD TAPES HAVE BEEN CORRECTLY ENTERED IN ROLLBACK AREA (ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)

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```

M 65 OP:RCRORNU MSG STARTED
ROLLBACK AREA ORNU SINCE THE LATEST TAPE:

171759 T   171758 T   171757 T   171756 T   171755 T   171754 T
171753 T   171752 T   171751 T   171750/ T   171749 T   171748 A

156771 T   156770/ T   156769 T   156768 T   156767 T   156766 T
156765 T   156764 T   156763 T   156762 T   156761 T   156760/ T
0/6/14/76   15:31:46
#462

```

FIG. 1 - Sample Printout of Rollback Area ORNUs

```

M 57 OP:RCRORNU MSG STARTED
ROLLBACK AREA ORNU SINCE THE LATEST TAPE:

171759 T   171758 T   171757 T   171756 T   171755 T   171754 T
171753 T   171752 T   171751 T   171750/ T   171749 T   171748 A

156771 T   156770/ T   156769 T   156768 T   156767 T   156766 T
156765 T   156764 T   156763 T   156762 T   156761 T   156760/ T
0/6/19/76   13:31:46
#372

```

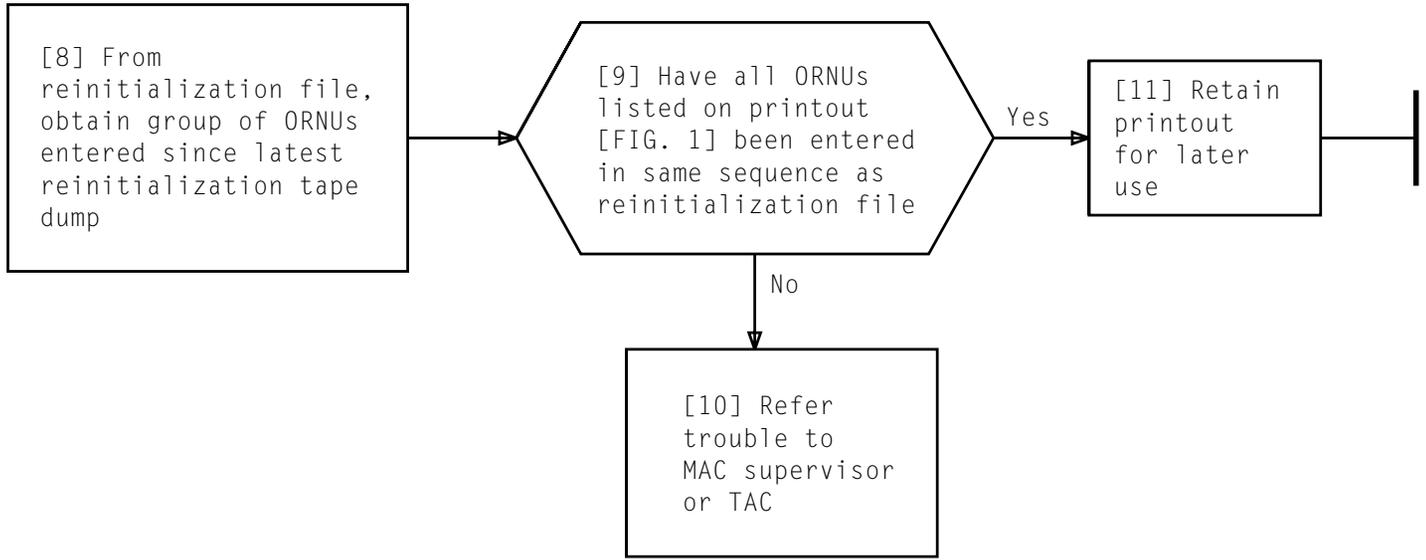
ROLLBACK AREA
BEFORE ROLLBACK

LABEL

FIG. 2 - Sample Printout of Rollback Area Before Rollback

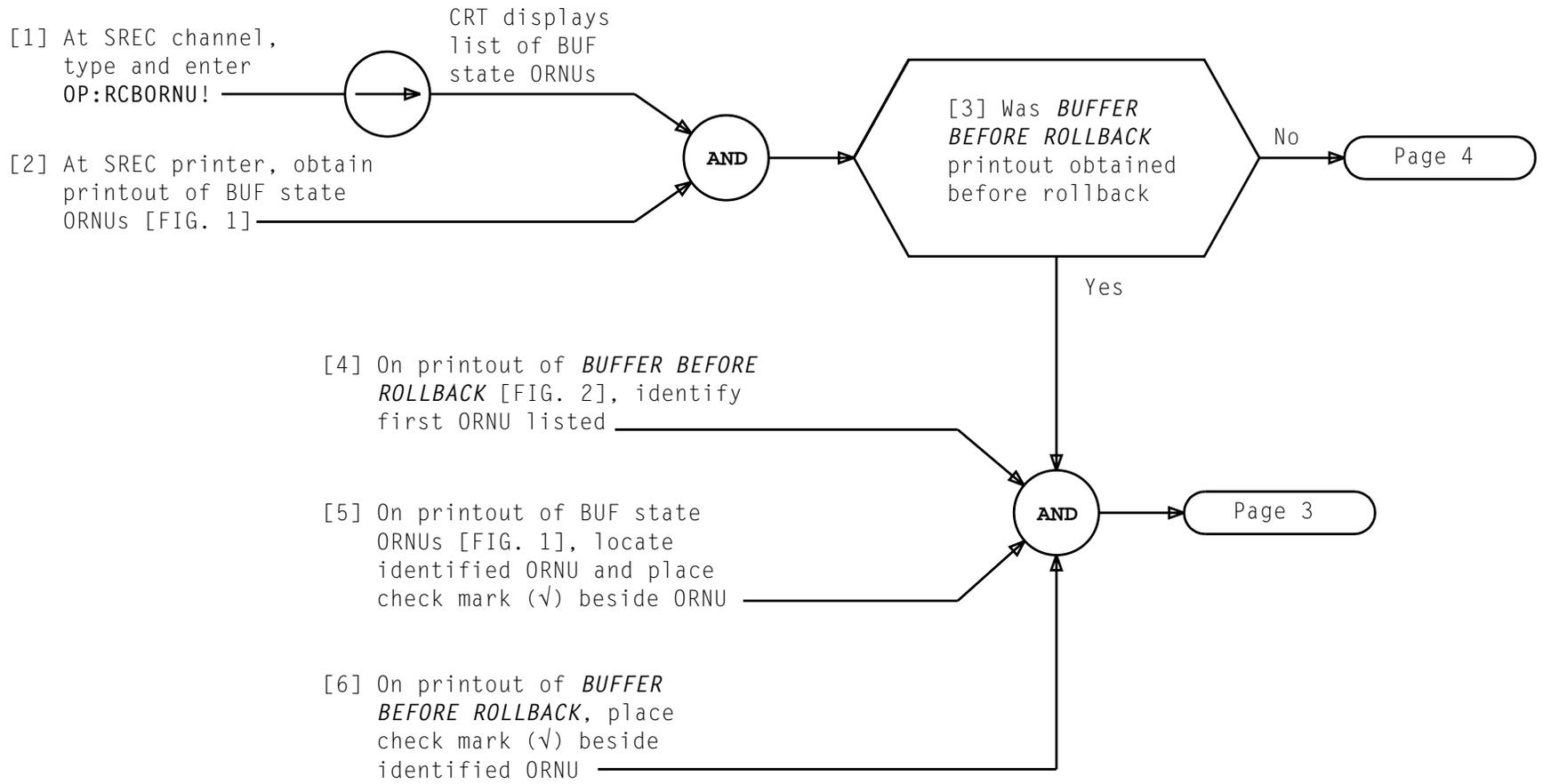
ENSURE ALL ORNUs FROM ROLL-FORWARD TAPES HAVE BEEN CORRECTLY ENTERED IN ROLLBACK AREA (ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)

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ENSURE ALL ORNUs FROM ROLL-FORWARD TAPES HAVE BEEN CORRECTLY ENTERED IN ROLLBACK AREA (ORNUs ENTERED SINCE LATEST REINITIALIZATION TAPE)

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IDENTIFY ANY ORNUS ENTERED DURING ROLL FORWARD THAT WERE NOT ROLLED BACK

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```

M 60/ OP:RCBORNU MSG COMPL
  BUFFER CONTAINS THE FOLLOWING ORNU:
√171760/  171761  171762  171763  171764  171765  171766  171767  171768  171769
  171770/  171771  171772  171773  171774  171775  171776  171777  171778  171779

171800//  171801/   171802/   171803/   171804/   171805/   171806/   171807/   171808/  171809/
171810/  171811  171812  171813

```

FIG. 1 - Sample Printout of BUF State ORNUs

```

M 50/ OP:RCBORNU MSG COMPL
  BUFFER CONTAINS THE FOLLOWING ORNU:
√171760/  171761  171762  171763  171764  171765  171766  171767  171768  171769
  171770/  171771  171772  171773  171774  171775  171776  171777  171778  171779

171800//  171801/   171802/   171803/   171804/   171805/   171806/   171807/   171808/  171809/
171810/  171811  171812  171813

```

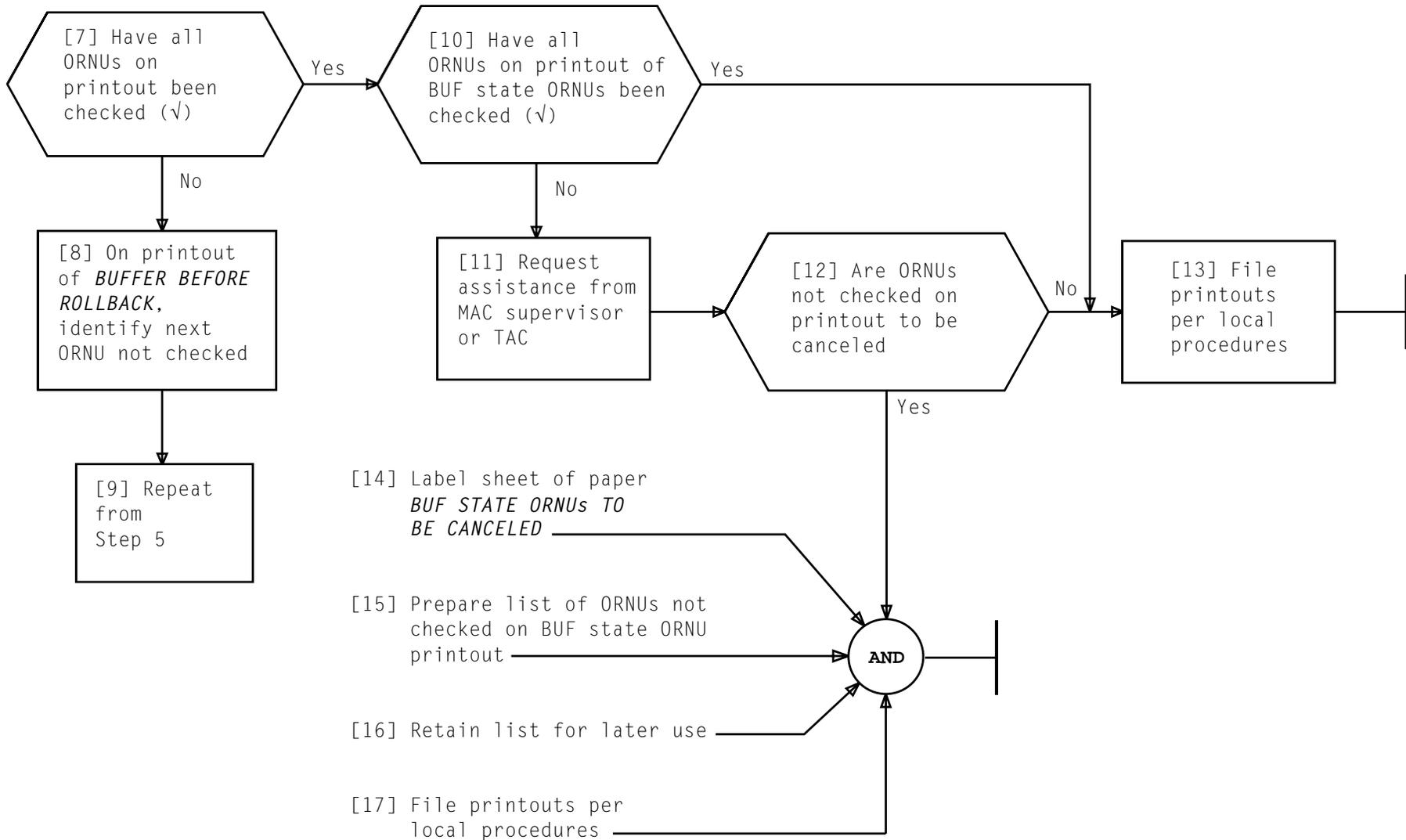
BUFFER BEFORE ROLLBACK

LABEL

FIG. 2 - Sample Printout of Buffer Before Rollback ORNUs

IDENTIFY ANY ORNUs ENTERED DURING ROLL FORWARD THAT WERE NOT ROLLED BACK

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IDENTIFY ANY ORNUs ENTERED DURING ROLL FORWARD THAT WERE NOT ROLLED BACK

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[18] At SREC channel,
type and enter
OP:RCRORNU!

CRT displays list of
rollback area ORNUs

[19] At SREC printer,
obtain printout of
rollback area ORNUs
[FIG. 3]

AND

[20] Are any ORNUs
listed on printout
of rollback area
[FIG. 3] also listed
on printout of BUF
state ORNUs [FIG. 1]

No

Yes

[21] Request
assistance from
MAC supervisor
or TAC

[22] Are
ORNUs in BUF
state to be
canceled

No

Yes

[23] Repeat
from
Step 14

[24] File
printout
per local
procedures

FIRST
ORNU
LISTED

```

M 55 OP:RCRORNU MSG COMPL
ROLLBACK AREA ORNU SINCE THE LATEST TAPE:
171759 T 171758 T 171757 T 171756 T 171755 T 171754 T
171753 T 171752 T 171751 T 171750/ A 171750/ T 171749 A
171749 T 171748 A 171748 T 171747 T 171746 A 171746 T
171745 A 171745 T 171744 T 171743 A 171743 T 171742 A
171742 T 171741 T 171740/ A 171740/ T 171739 A 171739 T

156577 A 156577 T 156576 T 156575 A 156575 T 156574 A
156574 T 156573 T 156572 A 156572 T 156571 A 156571 T
156570/ T 156569 A 156569 T 156568 A 156568 T 156567 T
156566 A 156566 T 156565 A 156565 T 156564 T 156563 C
156563 T 156562 A 156562 T 156761 T 156760/ A 156760/ T
0/6/0/4/76 13:55:44
#366
  
```

FIG. 3 - Sample Printout of Rollback Area ORNUs

IDENTIFY ANY ORNUs ENTERED DURING ROLL FORWARD THAT WERE NOT
ROLLED BACK

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[1] On list of BUF STATE ORNUs
TO BE CANCELED [FIG. 1], identify
first ORNU

[2] At SREC channel, type and enter
RCCNL:RCBORNU a!
a = ORNU to be canceled

CRT displays
RCCNL:ORNU a ACCEPTED

[3] On worksheet, place
check mark (✓) beside
canceled ORNU

AND

[4] Have all
ORNUs listed on
worksheet been
canceled

Yes

No

[5] Identify
next ORNU to
be canceled

[6] Repeat
from
Step 2

BUF STATE ORNUs TO BE CANCELED	
155500	155508
155501	155509
155502	155510
155503	
155504	
155506	
155507	

FIG. 1 - Sample Listing of BUF
State ORNUs To Be Canceled

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[1] On MCC **SYSTEM STATUS** panel, ensure **RECENT CHANGE - RESTRICT RECENT CHANGES** lamp is lighted

[2] Demount roll-forward tape cartridge on RCMOC MTT [DLP-521]

[3] Mount new roll-forward tape cartridge on RCMOC MTT [DLP-516]

[4] Mount recorded roll-forward tape cartridge removed from RCMOC MTT (Step 2) on SREC 1 MTT [DLP-519]

[5] At SREC 1 MTT, depress **DATA SEND** pushbutton

AND

[6] Within 10 seconds, does tape stop moving and is RC:ORNU a ACCEPTED FOR BUFFER STATE message received

Yes

[7] Repeat from Step 5

No

[8] Have all RCDMs on roll-forward tape been entered into BUFFER state

No

[9] Contact MAC Supervisor and correct problems

Yes

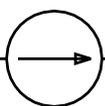
[10] Demount roll-forward tape cartridge on SREC 1 MTT [DLP-521]

AND

Roll-forward RCDMs in BUFFER State

Page 2

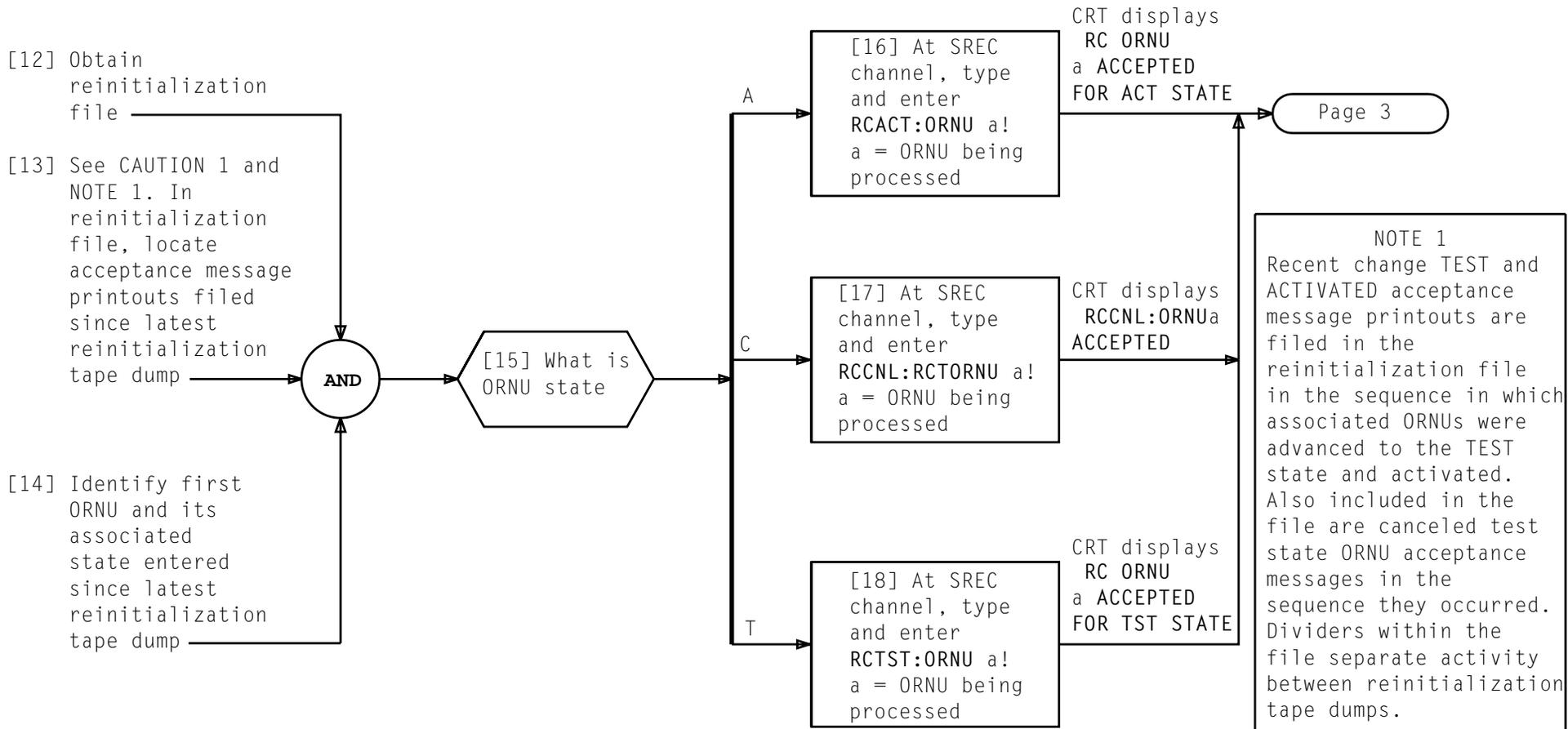
[11] On MCC **SYSTEM STATUS** panel, depress **RECENT CHANGE - RESTRICT RECENT CHANGES** switch/indicator



Lamp goes off

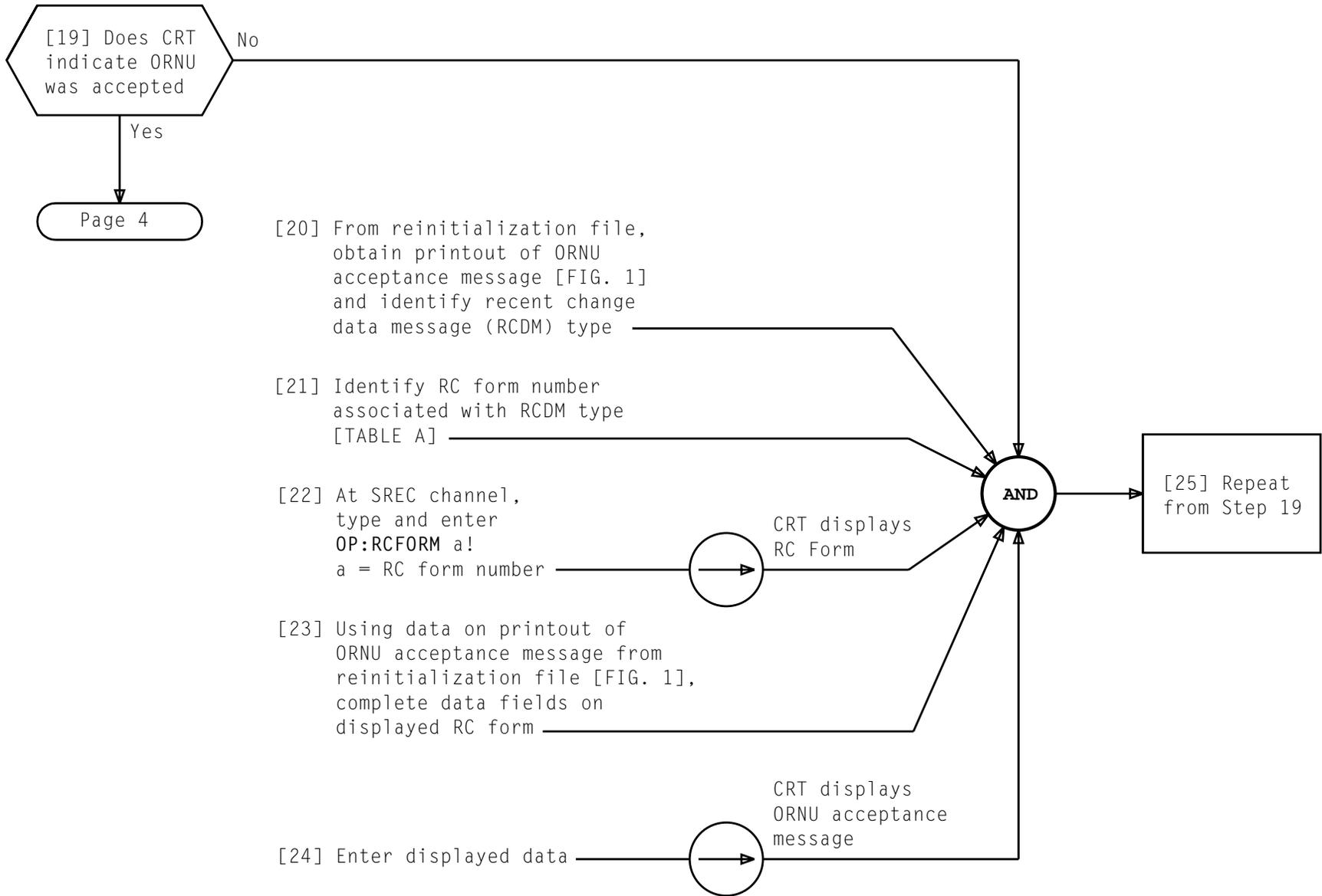
ROLL FORWARD RECENT CHANGE DATA MESSAGES (RCDMs) FOLLOWING SYSTEM REINITIALIZATION (SR)

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**ROLL FORWARD RECENT CHANGE DATA MESSAGES (RCDMs)
FOLLOWING SYSTEM REINITIALIZATION (SR)**

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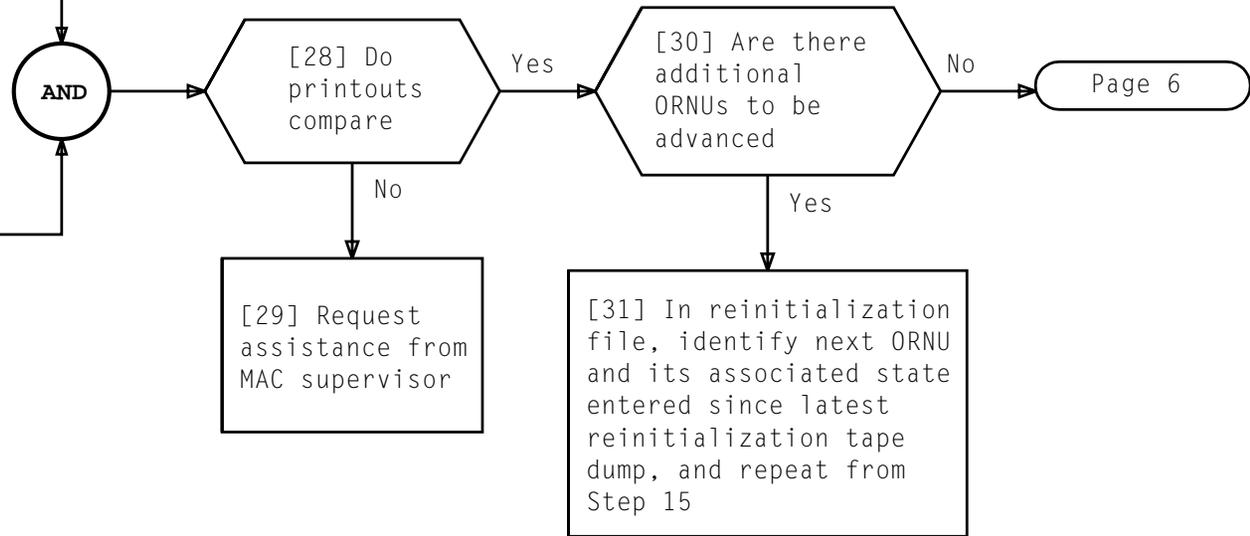


**ROLL FORWARD RECENT CHANGE DATA MESSAGES (RCDMs)
FOLLOWING SYSTEM REINITIALIZATION (SR)**

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[26] From reinitialization file, obtain copy of ORNU acceptance message printout [FIG. 1]

[27] Compare copy of ORNU acceptance message printout from reinitialization file [FIG. 1] with acceptance message on SREC channel printer [FIG. 2]



```

M 40 RC ORNU 156760/ ACCEPTED FOR TST STATE:
      0/6/16/76 18:40/:27
      #781
RC:RDB;CHG;OPT(ADDTSGS), BUF:                RDBI 502/ ,
ORNU 156760/,
      REFTSG
BTFN TOWN ST BL FBS NBS
  1 STLS MO 09/ 14T 0/4T,    INSERT NEWTSG B,
      NEWTSG
BTFN TOWN ST BL FBS NBS    DEL    PREFIX
  30/1 STLS MO 0/9 14T 0/4T,    0/,    ,
      :    :    :
      :    :    :
REMARKS -----!
  
```

FIG. 1 - Sample Printout of ORNU Acceptance Message From Reinitialization File

```

M 90 RC ORNU 156760/ ACCEPTED FOR TST STATE:
      0/6/19/76 15:40/:10/
      #601/
RC:RDB;CHG;OPT(ADDTSGS), BUF:                RDBI 502/ ,
ORNU 156760/,
      REFTSG
BTFN TOWN ST BL FBS NBS
  1 STLS MO 09/ 14T 0/4T,    INSERT NEWTSG B,
      NEWTSG
BTFN TOWN ST BL FBS NBS    DEL    PREFIX
  30/1 STLS MO 0/9 14T 0/4T,    0/,    ,
      :    :    :
      :    :    :
REMARKS -----!
  
```

FIG. 2 - Sample Printout of ORNU Acceptance Message on SREC Channel Printer

**ROLL FORWARD RECENT CHANGE DATA MESSAGES (RCDMs)
FOLLOWING SYSTEM REINITIALIZATION (SR)**

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TABLE A			
TYPE OF RCDM	RC FORM NUMBER	TYPE OF RCDM	RC FORM NUMBER
RC:TSG;NEW;OPT(TWOWAY)	100	RC:CAMASCRN;CHG;OPT(LCIBPAT,NEWTNPA)	402
RC:TSG;NEW;OPT(IN1WAY)	101	RC:CAMASCRN;CHG;OPT(UNAREA)	403
RC:TSG;NEW;OPT(OUT1WAY)	102	RC:CAMASCRN;CHG;OPT(UNAOFC)	404
RC:TSG;NEW;OPT(VFL)	103	RC:CAMASCRN;CHG;OPT(COPY)	405
RC:TSG;CHG;OPT(ADDTFNB)	104	RC:CAMASCRN;CHG;OPT(OUTTNPA)	406
RC:TSG;CHG;OPT(OUTTFNB)	105	RC:RDB;NEW;	500
RC:TSG;OUT;	106	RC:RDB;NEW;OPT(INWT)	501
RC:TSG;CHG;OPT(TWOWAY)	107	RC:RDB;NEW;OPT(AOOC)	502
RC:TSG;CHG;OPT(IN1WAY)	108	RC:RDB;CHG;OPT(RDBCHAR)	503
RC:TSG;CHG;OPT(OUT1WAY)	109	RC:RDB;CHG;OPT(RDBCHAR,INWT)	504
RC:TRK;NEW;OPT(MANUAL)	200	RC:RDB;CHG;OPT(ADDTSGS)	505*
RC:TRK;OUT;	202	RC:RDB;CHG;OPT(ADDTSGS,AOOC)	506
RC:TRK;NEW;OPT(MANUAL,CCIS)	203	RC:RDB;CHG;OPT(ADDTSGS)	507*
RC:TRK;NEW;OPT(VFL)	204	RC:RDB;CHG;OPT(OUTTSGS)	508
RC:CODEGRP;CHG;OPT(DIG3)	300	RC:RDB;CHG;OPT(OUTTSGS,AOOC)	509
RC:CODEGRP;CHG;OPT(DIG456)	301	RC:RDB;OUT;	510
RC:CODEGRP;CHG;OPT(DIG789)	302	RC:RDB;OUT;OPT(AOOC)	511
RC:CODEGRP;NEW;OPT(MTS)	303	RC:RDB;NEW;OPT(RDBIGRP)	512
RC:CODEGRP;CHG;OPT(MTS)	304	RC:RDB;CHG;OPT(ADD1TSG)	513
RC:CODEGRP;OUT;OPT(MTS)	305	RC:RDB;CHG;OPT(DEL1TSG)	514
RC:CODEGRP;NEW;OPT(SNPA)	306	RC:RDB;CHG;OPT(ADD1TSG,AOOC)	515
RC:CODEGRP;NEW;OPT(PROTECTED)	307	RC:RDB;CHG;OPT(DEL1TSG,AOOC)	516
RC:CODEGRP;NEW;OPT(DOM)	308	RC:RDB;NEW;OPT(INTL)	517
RC:CODEGRP;CHG;OPT(SINTOT)	309	RC:RDB;NEW;OPT(AOOC,INTL)	518
RC:CODEGRP;CHG;OPT(INCNTD)	311	RC:RDB;CHG;OPT(ADDTSGS,INTL)	519
RC:CODEGRP;CHG;OPT(CC)	313	RC:RDB;CHG;OPT(ADDTSGS,AOOC,INTL)	520
RC:CODEGRP;CHG;OPT(LDIG)	314	RC:UTYPE;CHG;OPT(EQP,GROW),TST	700
RC:CODEGRP;CHG;OPT(NN1)	315	RC:UTYPE;CHG;OPT(EQP,DEGROW),TST	701
RC:CODEGRP;CHG;OPT(NN2)	316	RC:FUNC;CHG;OPT(ABSOLUTE)	800
RC:CAMASCRN;CHG;OPT(OOFCG)	400	RC:FUNC;CHG;OPT(TRANS)	801
RC:CAMASCRN;CHG;OPT(CLIBPAT)	401	RC:FUNC;CHG;OPT(TGNAME)	802

* If INWT is specified on test state printout, use RC Form 507; otherwise, use Form 505

**ROLL FORWARD RECENT CHANGE DATA MESSAGES (RCDMs)
FOLLOWING SYSTEM REINITIALIZATION (SR)**

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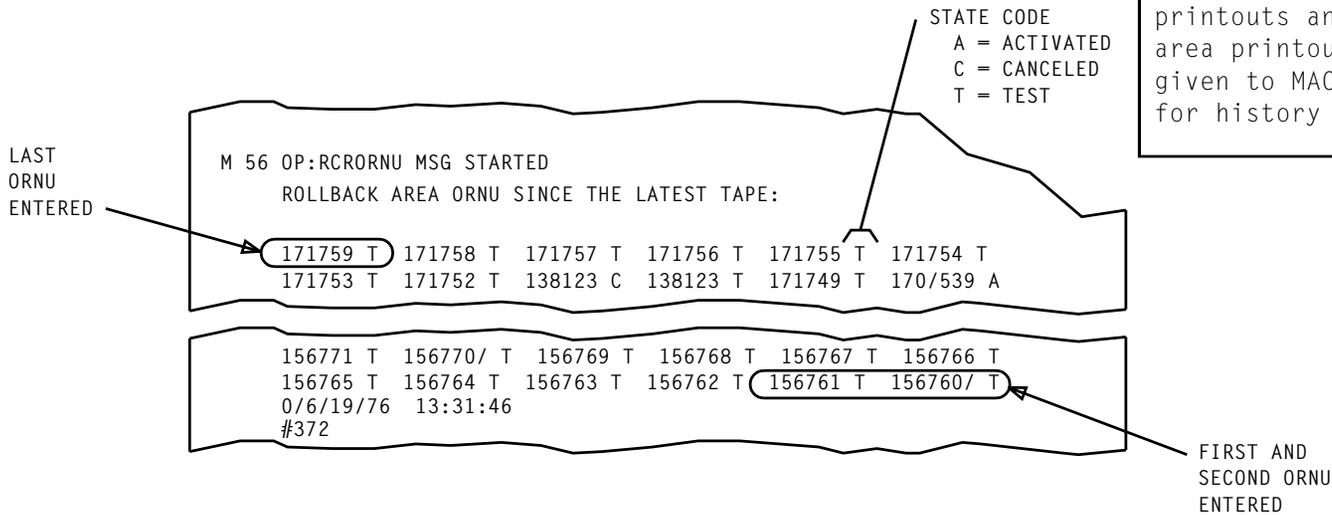
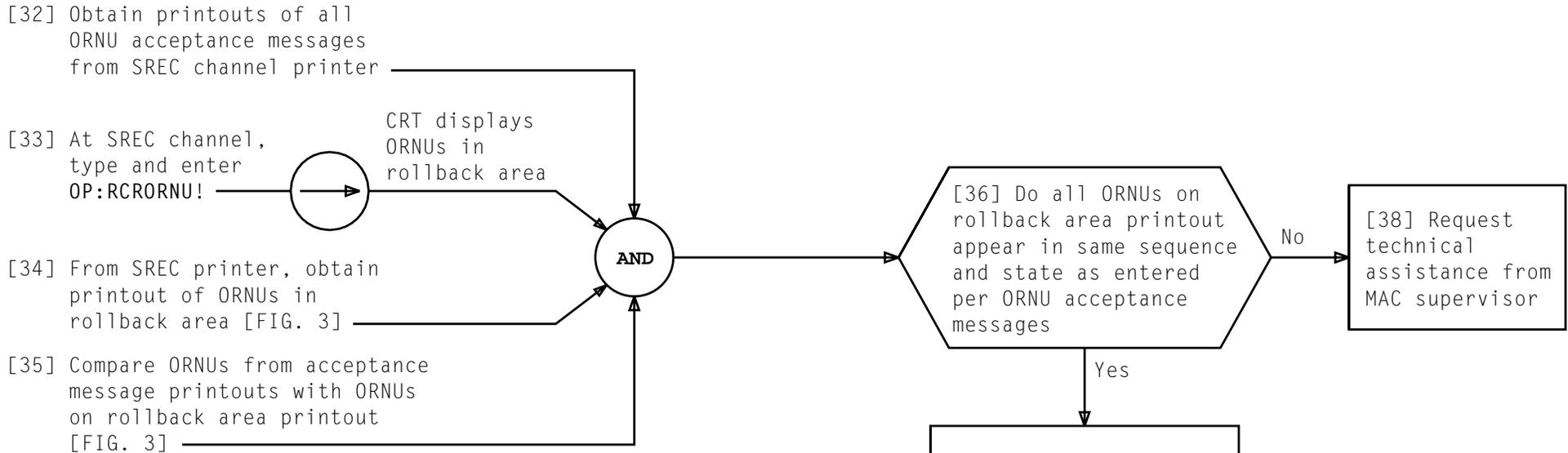


FIG. 3 - Sample Printout of ORNUs Entered in Rollback Area Since Latest Reinitialization Tape Dump

ROLL FORWARD RECENT CHANGE DATA MESSAGES (RCDMs) FOLLOWING SYSTEM REINITIALIZATION (SR)

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1. General

- 1.1 Cursor must be at left margin prior to each entry.
- 1.2 Execution character for all messages in this procedure is the **RETURN** key
- 1.3 If at any time during SCANS session the message **ENTER SYSTEM SELECT CODE** is obtained, link to host computer has been lost. In this case, it will be necessary to enter **^SCANS1** and log in again

2. Procedure

- 2.1 Establish DDD communication link with Gateway II computer per local instruction
- 2.2 After connection is made, type and enter **^SCANS1** (**^** is obtained by depressing SHIFT and 6 keys simultaneously)

Response: CONNECT IN PROGRESS

AWAITING HOST RESPONSE

CONNECTING TO HOST SYSTEM

Gateway DEC2/6.03A hh:mm:ss: TTYnn (etc.)
 Connected to Node DEC2B(xx) Line #yy
 Please LOGIN

- 2.3 Type and enter **LOG 7122,xxxxxx**
 xxxxxx = PPA number assigned by SCANS administrator

Response: JOB zz Gateway II DEC2/6.03 Line xx-yy TTYnn
 Password:

- 2.4 Type and enter password

Response: Enter subpassword:

- 2.5 Type and enter subpassword

Response: Enter up to 5 initials

- 2.6 Type and enter your name or initials up to 5 characters

Response: Welcome to the time share support system

End of Procedure

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1. General

- 1.1 Cursor must be at left margin prior to each entry
- 1.2 Execution character for all messages in this procedure is the **RETURN** key
- 1.3 If at any time during SCANS session the message **ENTER SYSTEM SELECT CODE** is obtained, link to host computer has been lost. In this case, it will be necessary to enter **^SCANS1** and log in again

2. Procedure

- 2.1 Type and enter **SUM+,S 4E,G 4E(a),I b**
 - a = Generic designation number
 - b = Generic issue number

Response: Summary list of BWMs for specified generic is obtained

Note: There may be a short delay before printout is received

End of Procedure

1. General

- 1.1 Cursor must be at left margin prior to each entry
- 1.2 Execution character for all messages in this procedure is the **RETURN** key
- 1.3 If at any time during SCANS session the message **ENTER SYSTEM SELECT CODE** is obtained, link to host computer has been lost. In this case, it will be necessary to enter **^SCANS1** and log in again

2. Procedure

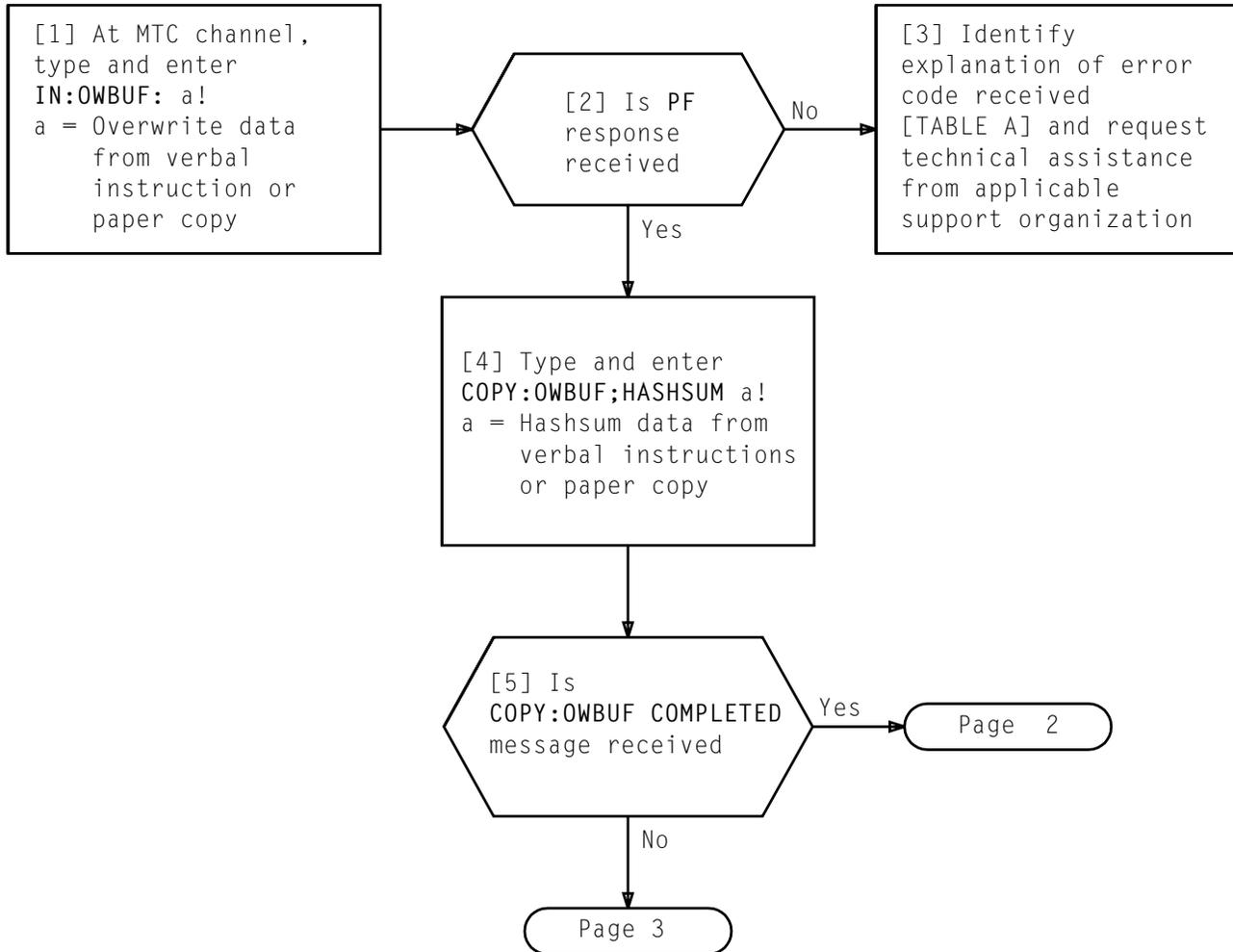
- 2.1 Type and enter appropriate message to print desired BWMs:
 - (a) For a specific BWM, type and enter **BWM:S 4E,R aa-bbbb**
aa-bbbb = BWM number
Response: Printout of requested BWM received
 - (b) For all BWMs associated with a specific generic issue, type and enter **BWM,S 4E,G 4E(a),I b**
a = Generic designation number
b = Generic issue number
Response: Printout of all BWMs associated with specified generic issue including those BWMs associated with all generics received

- (c) For all BWMs associated with a specific generic issue within a given range of BWMs, type and enter **BWM,S 4E,G 4E(a),I b,R c-d**
a = Generic designation number
b = Generic issue number
c = Lower limit BWM number
d = Upper limit BWM number

Response: Printout of all BWMs associated with the specified generic issue within the given range of BWMs received

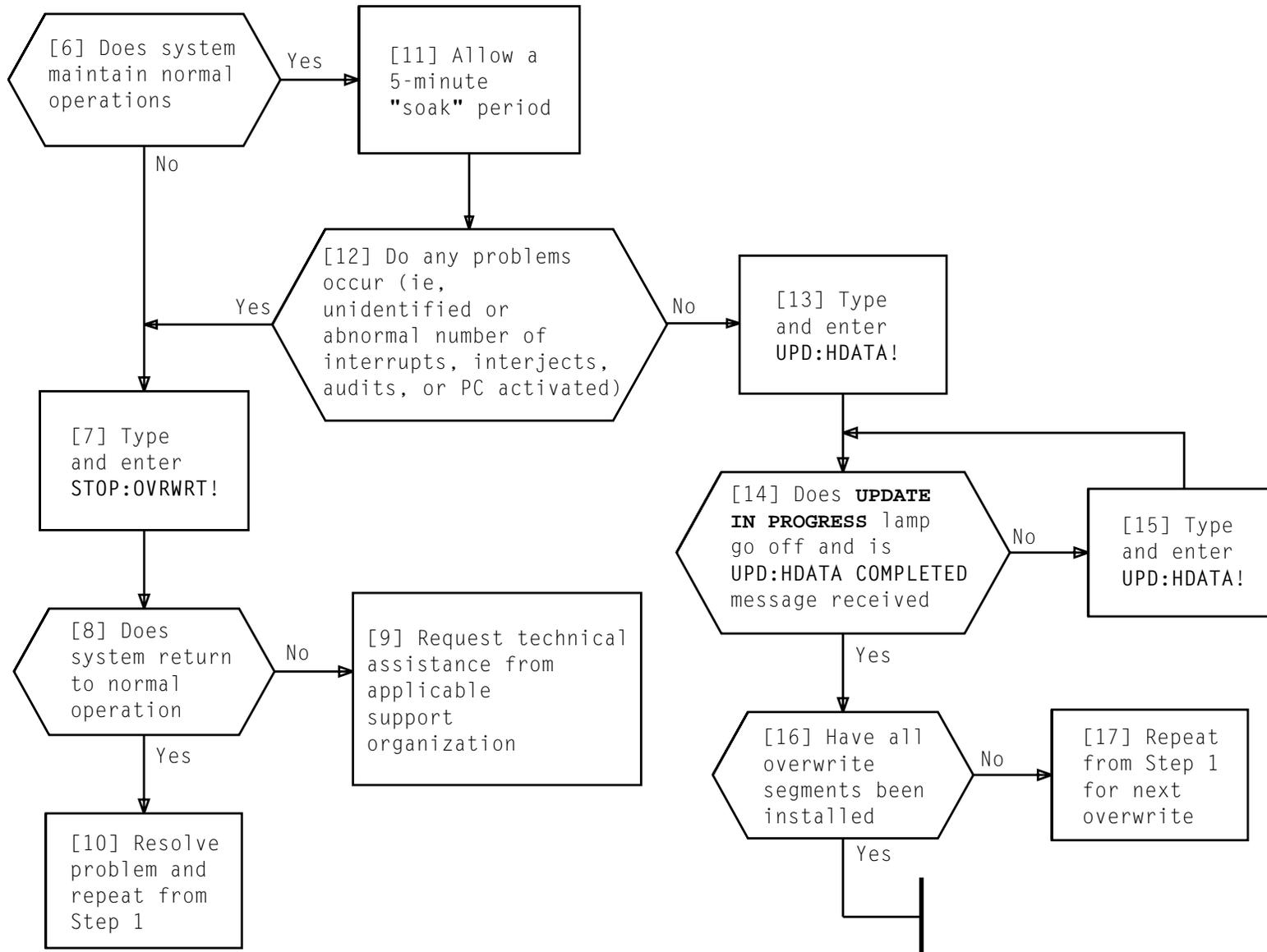
End of procedure

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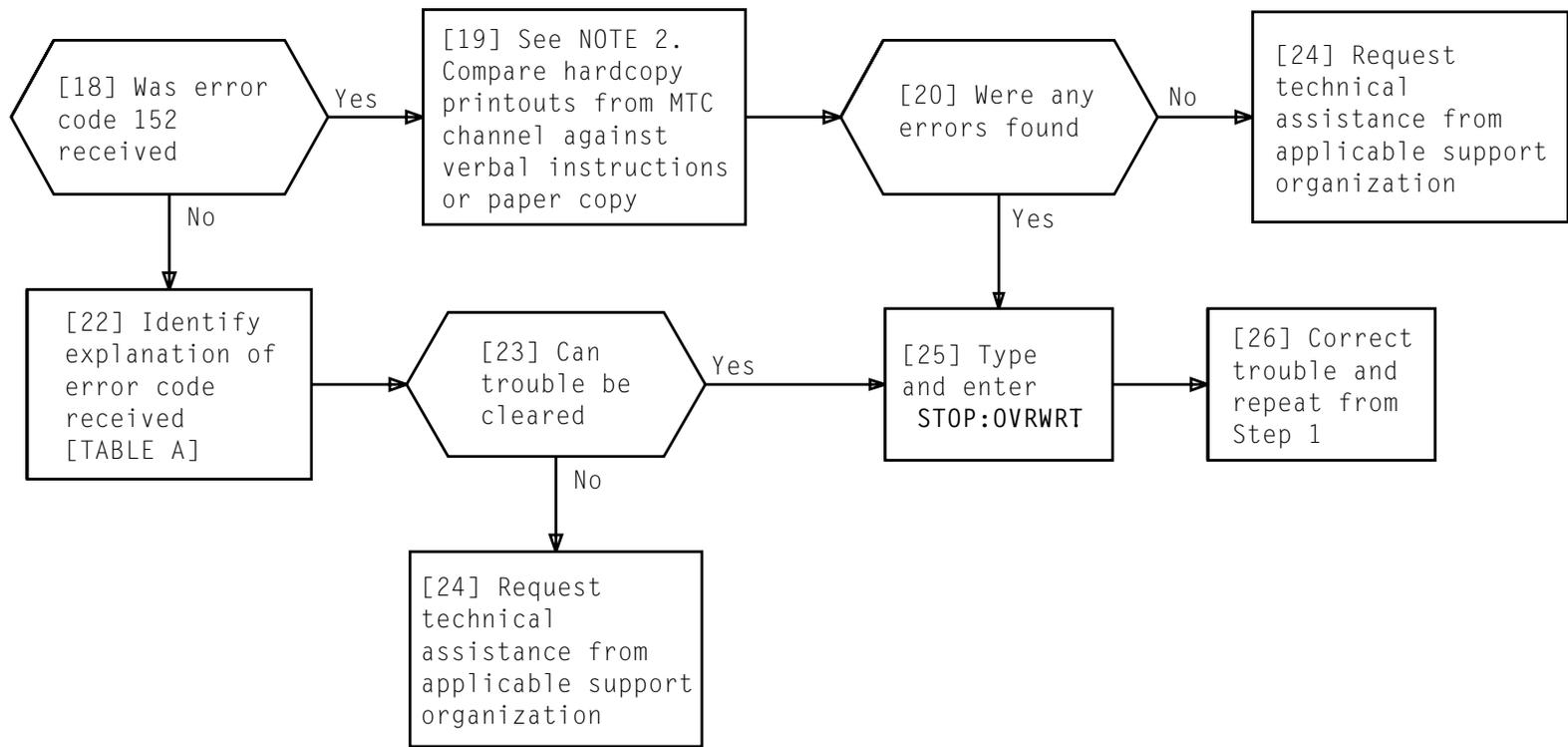
**INSTALL MANUAL OVERWRITES USING VERBAL INSTRUCTIONS OR
PAPER COPY AS SOURCE**

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INSTALL MANUAL OVERWRITES USING VERBAL INSTRUCTIONS OR PAPER COPY AS SOURCE

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NOTE 2	
Hash sum failed indicating that OLD DATA and NEW DATA in overwrite buffer does not agree with hash sum calculated	
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INSTALL MANUAL OVERWRITES USING VERBAL INSTRUCTIONS OR PAPER COPY AS SOURCE

**TABLE A
OVERWRITE ERROR CODES**

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
DPLX FAIL	GULP cannot be paged to parse the message because the file stores are duplex failed.	115	Incorrect ID tag specified for a file store only overwrite.
50	Conditional printout may follow. This acknowledgement is used if disk files are duplex failed and GULP is being paged from tape.	120	Part or all non-library main memory overwrite is not backed up on file store.
		121	File store backup range is not contiguous. Overwrite must be split on main memory store boundary.
100	Invalid syntax. Check input manual to verify that no extra keywords have been input.	122	PKG, ADR conversion failed. This is due to either invalid or unknown PKG name, relative address larger than size of PKG, or library package not loaded.
101	No argument for keyword ID.		
102	No argument for keyword PKG.		
103	No argument for keyword FPKG.		
104	No argument for keyword ADR.		
105	No argument for keyword DATA.	123	FPKG, ADR conversion failed. Invalid FPKG name.
106	Number of arguments of OLDDATA is different from number of arguments of DATA.		
110	Overwrites of system merge ID tag cannot be mixed with overwrites of other ID tags.	124	Library overwrite outside of PS36 address range.
111	Overwrite overlaps two ID tags.	131	Overwrite in progress from another channel.
		132	Previously input COPY:OWBUF request has not yet completed. Enter STOP:OVRWRT.
112	Wrong ID tag specified for a library file store only overwrite.	133	Hash mismatch on COPY:OWBUF. Enter STOP:OVRWRT.
113	Input address is not in hashed range.	134	Previously input UPD:HDATA request has not yet completed. Enter STOP:OVRWRT.
114	Invalid ID tag mnemonic.	135	No overwrite in progress

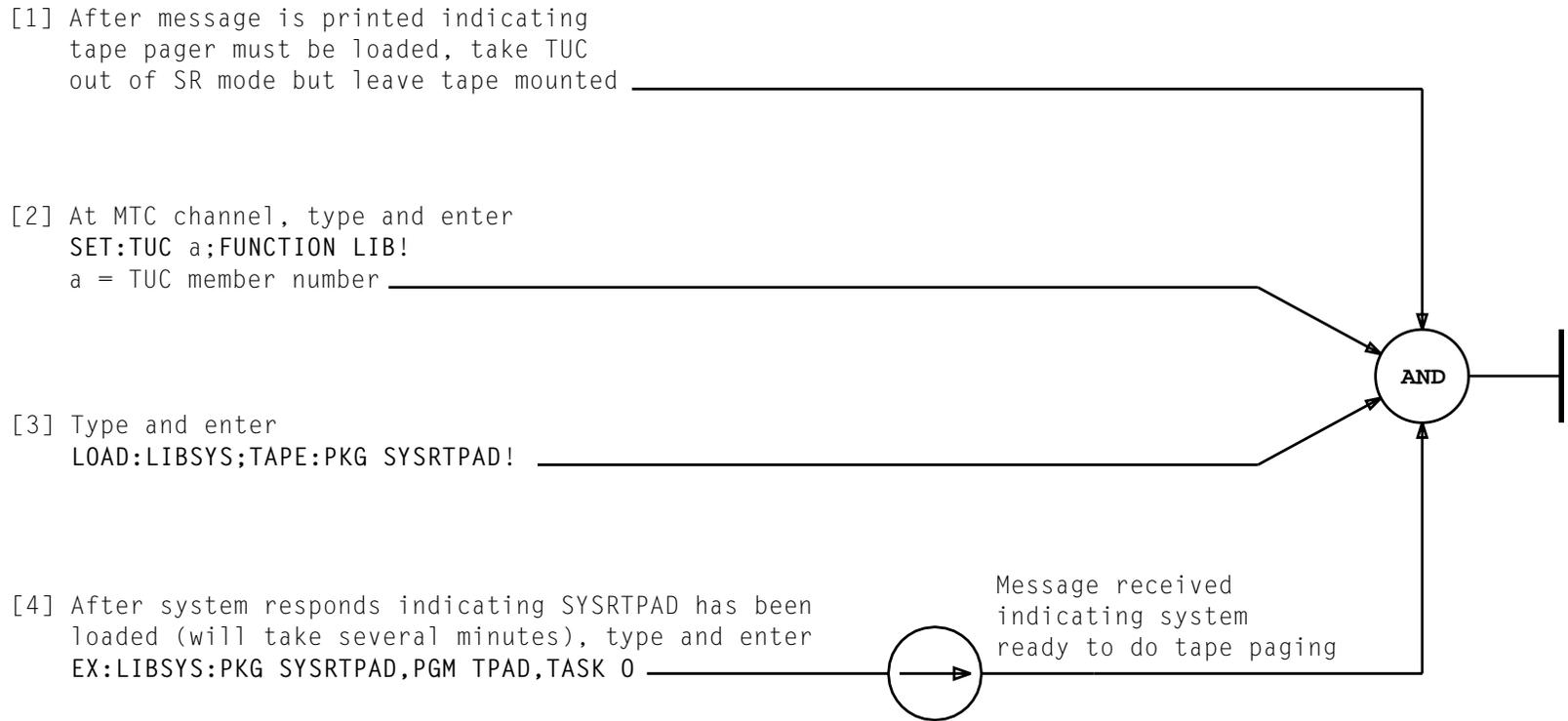
TABLE A
OVERWRITE ERROR CODES

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
136	UPD:HDATA may be input only from the maintenance channel (or its backup if the maintenance channel is out-of-service) or the SCC channel. Before entering message, check for audit printouts or interrupts to assure overwrite is not incorrect.	153	Hash update by SAWS failed. Enter STOP:OVRWRT. Tape audit (SAST) must be run to correct hash errors.
		160	File store queue full.
		161	DKAD reject – core ADR is out of range. Request technical assistance.
137	A COPY:OWBUF message must be input.	162	DKAD reject – file store address mismatches ID tag.
138	Core only overwrite backed out.	163	DKAD reject – write request not multiple of 32 or not on sector boundary.
140	Overwrite buffer full.	164	DKAD reject – size too big.
141	Library program not loaded in PS36.	165	DKAD reject – file specified is out-of-service.
142	PS36 not configured for library system.	166	DKAD reject – blocked.
143	Input overwrite overlaps with overwrite currently in buffer.	167	DKAD reject – write (trouble) to in-service file.
144	Old data specified in message does not match data in system.	168	DKAD reject – queue invalid for GULP.
145	Library system in transition state. Wait a few seconds and reenter the message.	169	DKAD reject – mutilated queue.
150	Library program is not currently loaded in PS36. The overwrite has been bypassed.	170	DKAD reject – no queue specified.
151	PS36 is not currently configured. PS36 overwrites have been bypassed.	180	Execution of GULP function is in progress.
		181	Message processing in progress.
152	Hashum input on COPY:OWBUF does not match computed hash. This indicates that some data in the buffer is different than was expected when input hash was generated. Enter STOP:OVRWRT and check printout.	182	Dataset input mode in progress on another channel.

**TABLE A
OVERWRITE ERROR CODES**

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
183	Dataset execution is in progress.		
184	Message print in progress.		
185	Failure to page in GULP or failure to seize general buffer table (GBT).		

INSTALL MANUAL OVERWRITES USING VERBAL INSTRUCTIONS OR PAPER COPY AS SOURCE

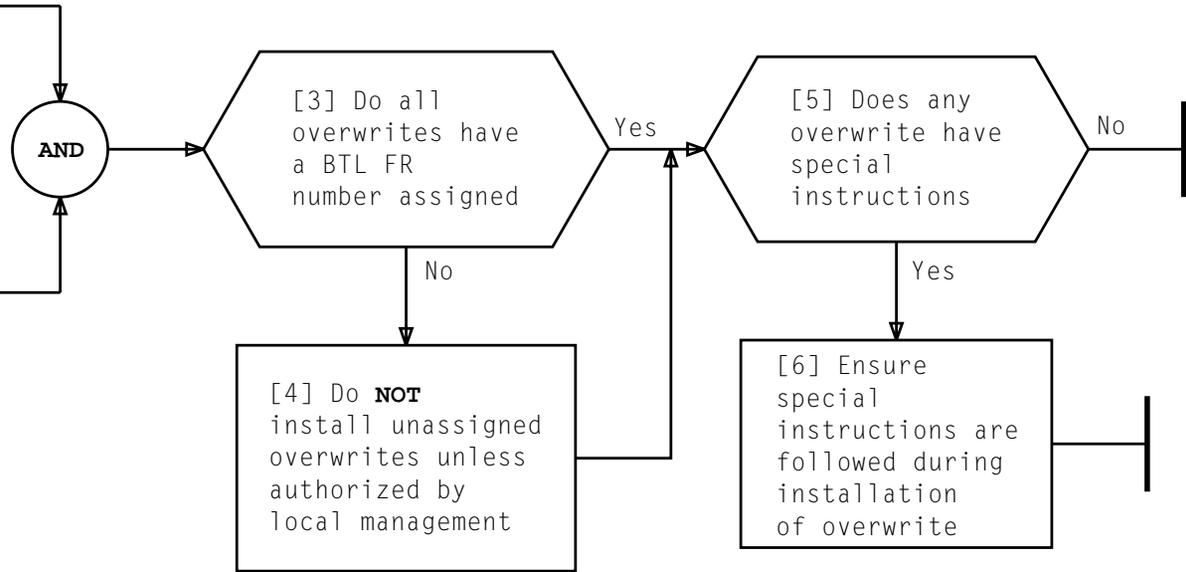


SET UP SYSTEM FOR TAPE PAGING

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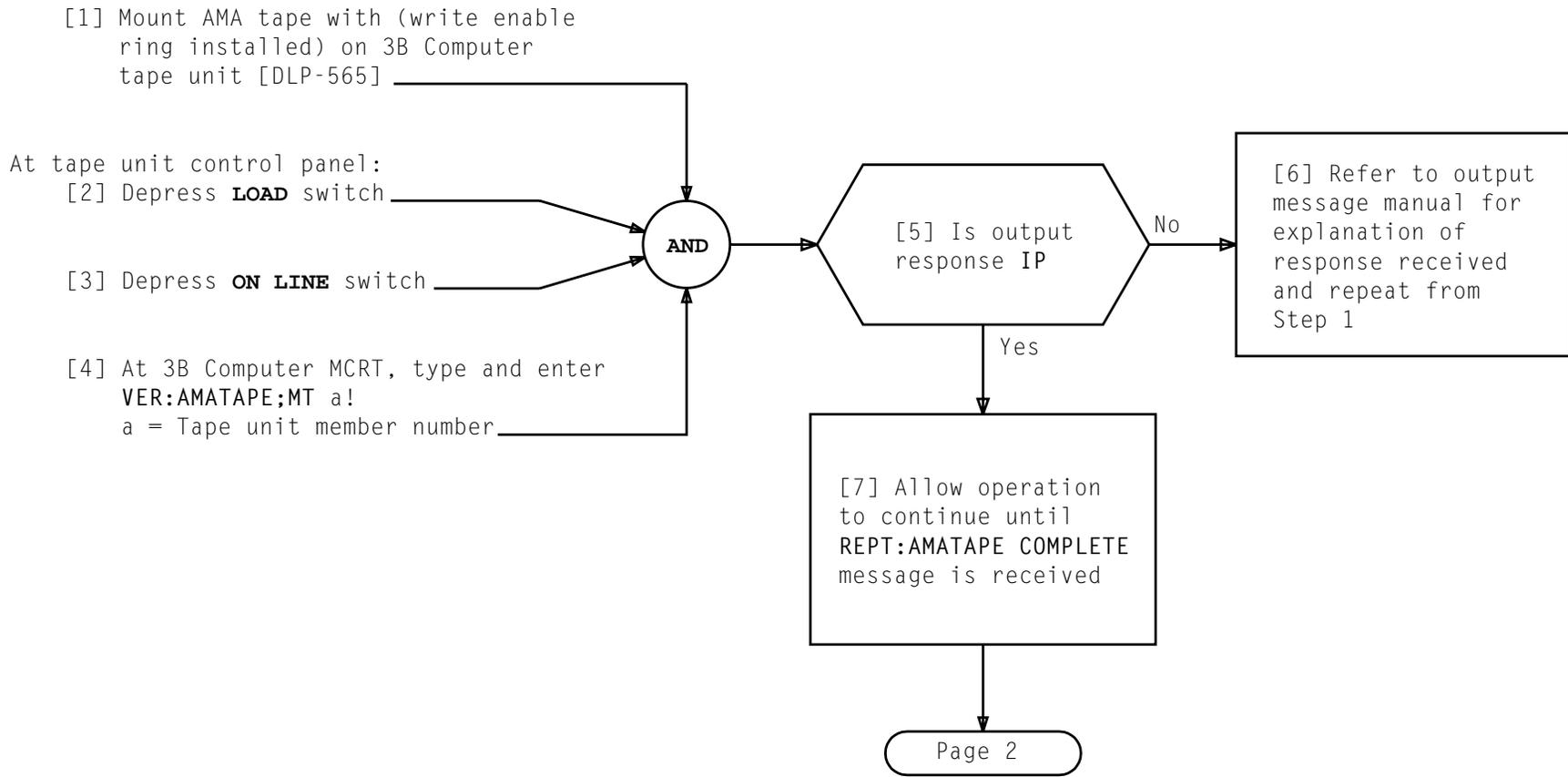
[1] Ensure local support organization is notified when overwrites are ready for installation

[2] Ensure all overwrites have a BTL FR number assigned

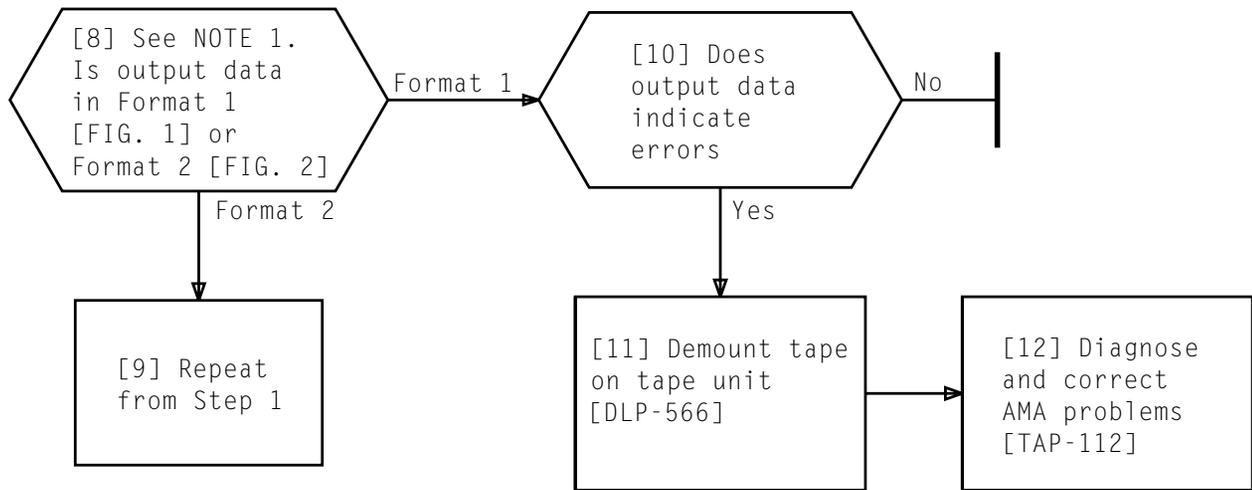


CHECK MANUAL OVERWRITES FOR SPECIAL INSTRUCTIONS AND NEEDED AUTHORIZATION

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TEXT
PHRASE
STATEMENT

```

REPT AMATAPE COMPLETE FOR IC STREAM
VOL SER NUMBER 6.306
TAPE DRIVE NUMBER 2
START TIME 0629 240000
PRIMARY
START BLOCK 6206 0628240000
END BLOCK 8863 0629240000
RECORDS WRITTEN 880
TAPE SEQUENCE NUBER 33
NORMAL TERMINATION NO MORE DATA
  
```

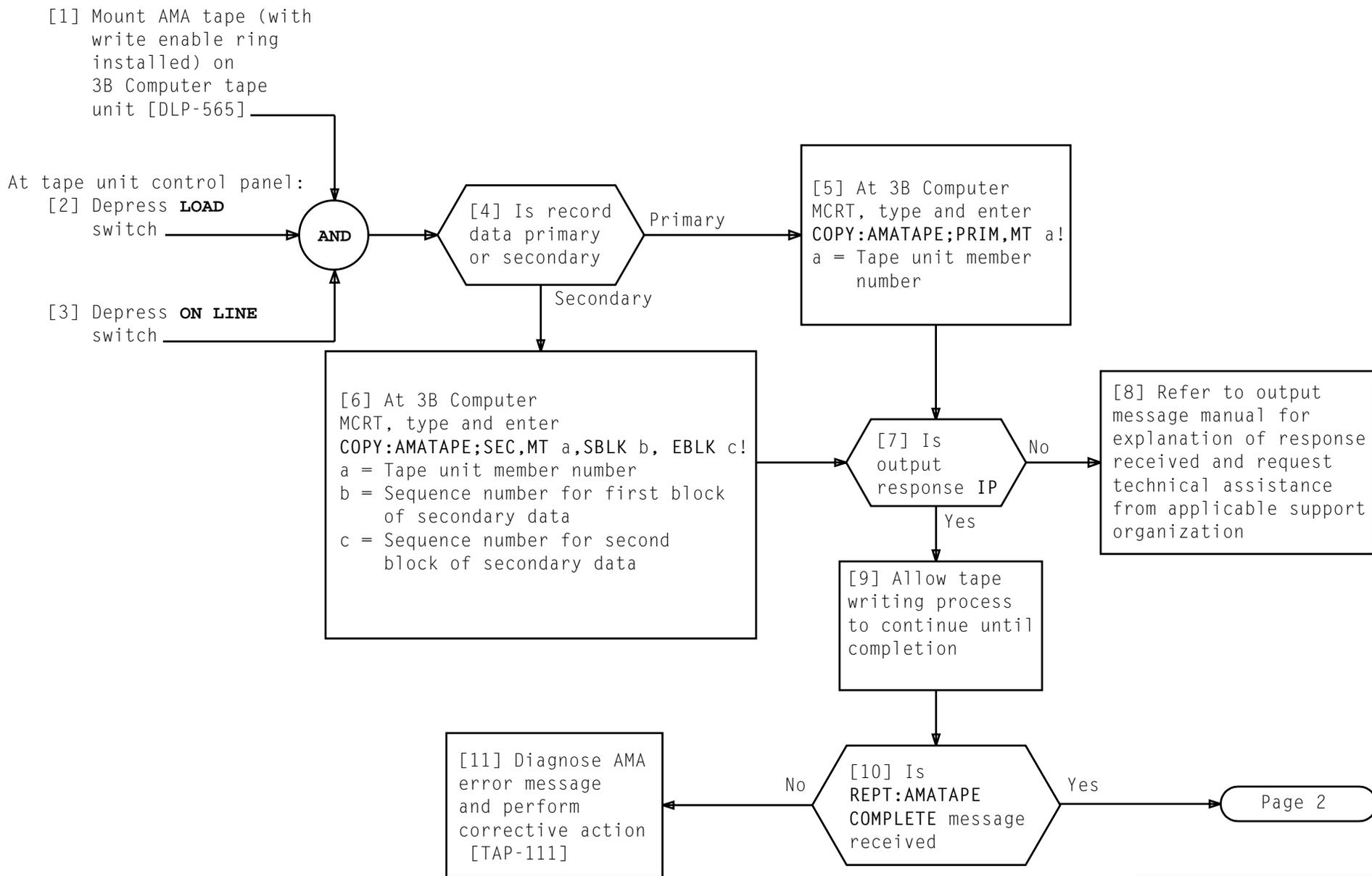
FIG. 1 - Sample Printout of REPT:AMATAPE COMPLETE Message (Format 1)

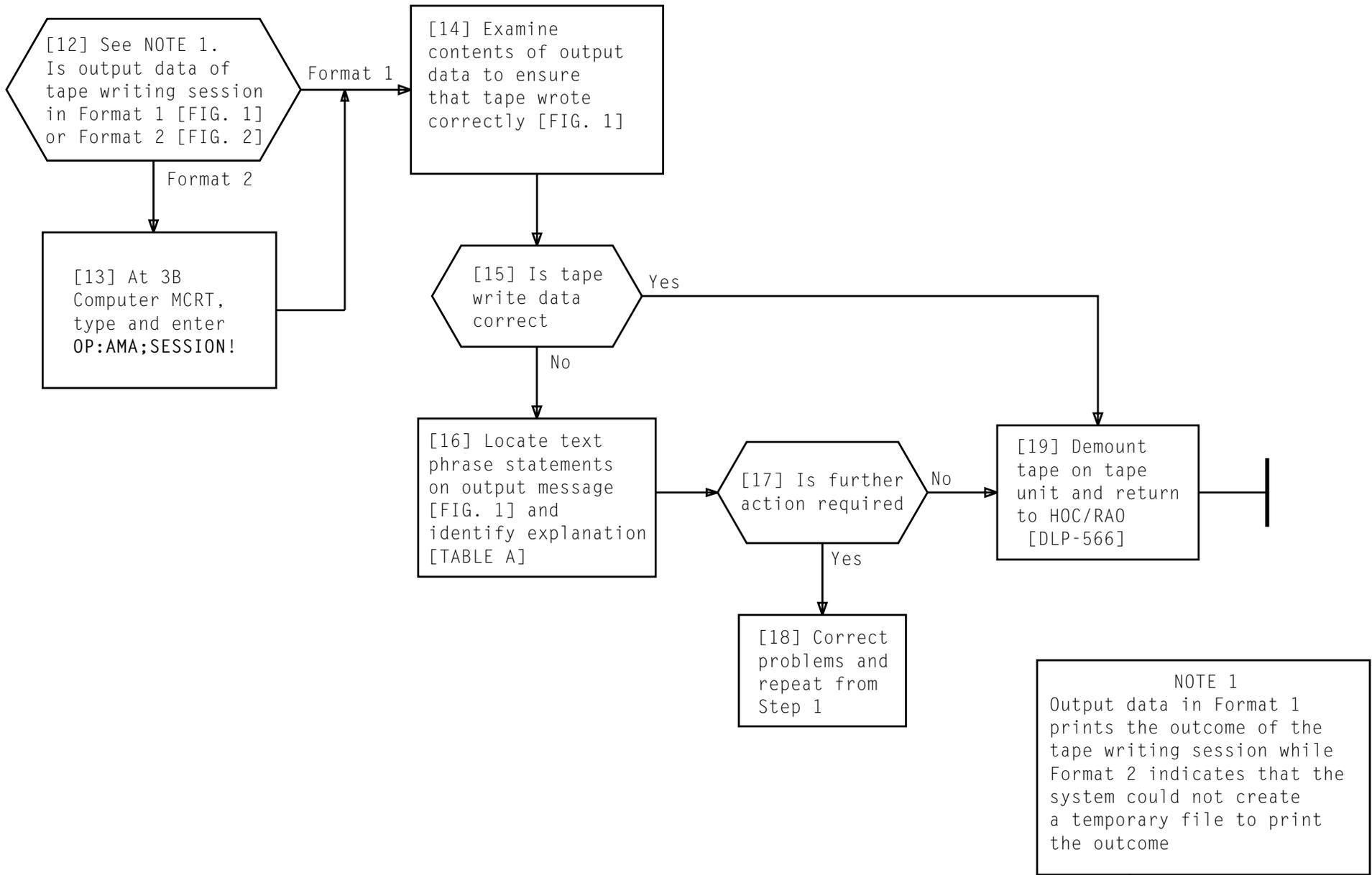
```

REPT:AMATAPE COMPLETE FOR a STREAM
TEMPORARY FILE COULD NOT BE CREATED
  
```

FIG. 2 - Sample Printout of REPT:AMATAPE COMPLETE Message (Format 2)

NOTE 1 Output data in format 1 prints the verification data while format 2 indicates that the system could not create a temporary file to print the data	
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NOTE 1
Output data in Format 1 prints the outcome of the tape writing session while Format 2 indicates that the system could not create a temporary file to print the outcome

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TEXT
PHRASE
STATEMENT

```

REPT AMATAPE COMPLETE FOR IC STREAM
VOL SER NUMBER 6.306
TAPE DRIVE NUMBER 2
START TIME 0629 240000
PRIMARY
START BLOCK 6206 0628240000
END BLOCK 8863 0629240000
RECORDS WRITTEN 880
TAPE SEQUENCE NUBER 33
NORMAL TERMINATION NO MORE DATA

```

**FIG. 1 - Sample Printout of REPT:AMATAPE COMPLETE
Message (Format 1)**

```

REPT:AMATAPE COMPLETE FOR a STREAM
TEMPORARY FILE COULD NOT BE CREATED

```

**FIG. 2 - Sample Printout of REPT:AMATAPE COMPLETE
Message (Format 2)**

TABLE A	
TEXT PHRASE STATEMENTS	EXPLANATION
NORMAL TERMINATION - NO MORE DATA	ALL DATA HAS BEEN WRITTEN
TERMINATION REQUESTED VIA STOP AMA TAPE MESSAGE	STOP MESSAGE HAS BEEN ENTERED TO TERMINATE WRITE PROCEDURE
NORMAL TERMINATION - MORE DATA TO BE WRITTEN	TERMINATION IS NORMAL BUT ALL DATA HAS NOT BEEN WRITTEN
TRAILER LABELS COULD NOT BE WRITTEN	SOMETHING IN TRAILER LABEL CONTENTS PREVENTS WRITING
NORMAL TERMINATION - MORE DATA REQUESTED THAN AVAILABLE	WRITING STOPS WHEN DATA IS WRITTEN, THOUGH WRITE ORDER ASKED FOR MORE
AUTOMATIC TAPE WRITING STOP TIME WAS REACHED	PRESET STOP TIME WAS REACHED, TERMINATING WRITE PROCEDURE REGARDLESS OF COMPLETENESS
TAPE WRITING STOPPED FOR REX DGNS	ROUTINE EXERCISE IN PROGRESS INTERRUPTS TAPE WRITING

[1] Mount AMA tape with write enable ring installed on 3B Computer tape unit [DLP-565]

At tape unit control panel:

[2] Depress **LOAD** switch

[3] Depress **ON LINE** switch

[4] At 3B Computer MCRT, type and enter
OP:AMA;CONTROLFILE a!
 a = OC or IC

System responds with
REPT AMA CONTROL FILE message

[5] On AMA control file printout [FIG. 1], verify
 AMA tape writing data [TABLE A]

AND

Page 2

```

24 REPT AMA CONTROL FILE
OFFICE ID 123456
DAYS UNTIL EXPIRATION 5
PROCESS START TIME 00:00
PROCESS STOP TIME 00:00
DEFAULT MT FOR AUTO TAPE START 0
AMA OPTION IS TELEPROCESSING
DATA TRANSFER IS MANUALLY INHIBITED
AMAT PASSWORD 0040123456
HOC PASSWORD 0320123456
BACKUP HOC PASSWORD 0320218357
PASSWORD FROM LAST SESSION 0320123456
TAPE SESSION IS NOT IN PROGRESS
TELEPROCESSING SESSION IS NOT IN PROGRESS
OFFICE TYPE 004
AUTOMATIC TAPE WRITING IS NOT INHIBITED
TAPE SEQUENCE NUMBER 4
  
```

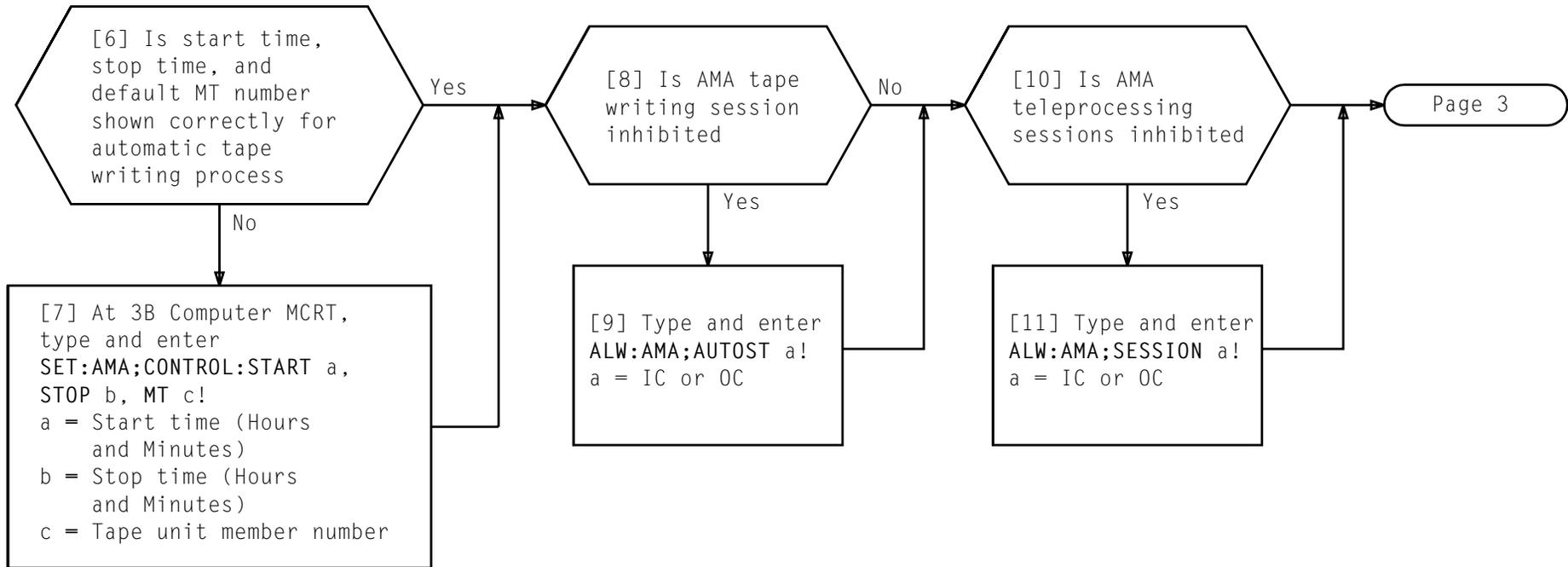
FIG.1 - Sample Printout of AMA Control File

TABLE A
AMA TAPE WRITING DATA

Process start time
Process stop time
Default MT for auto tape start
Indication of whether or not auto tape writing has been inhibited
Indication of whether or not AMA data transfer sessions have been manually inhibited

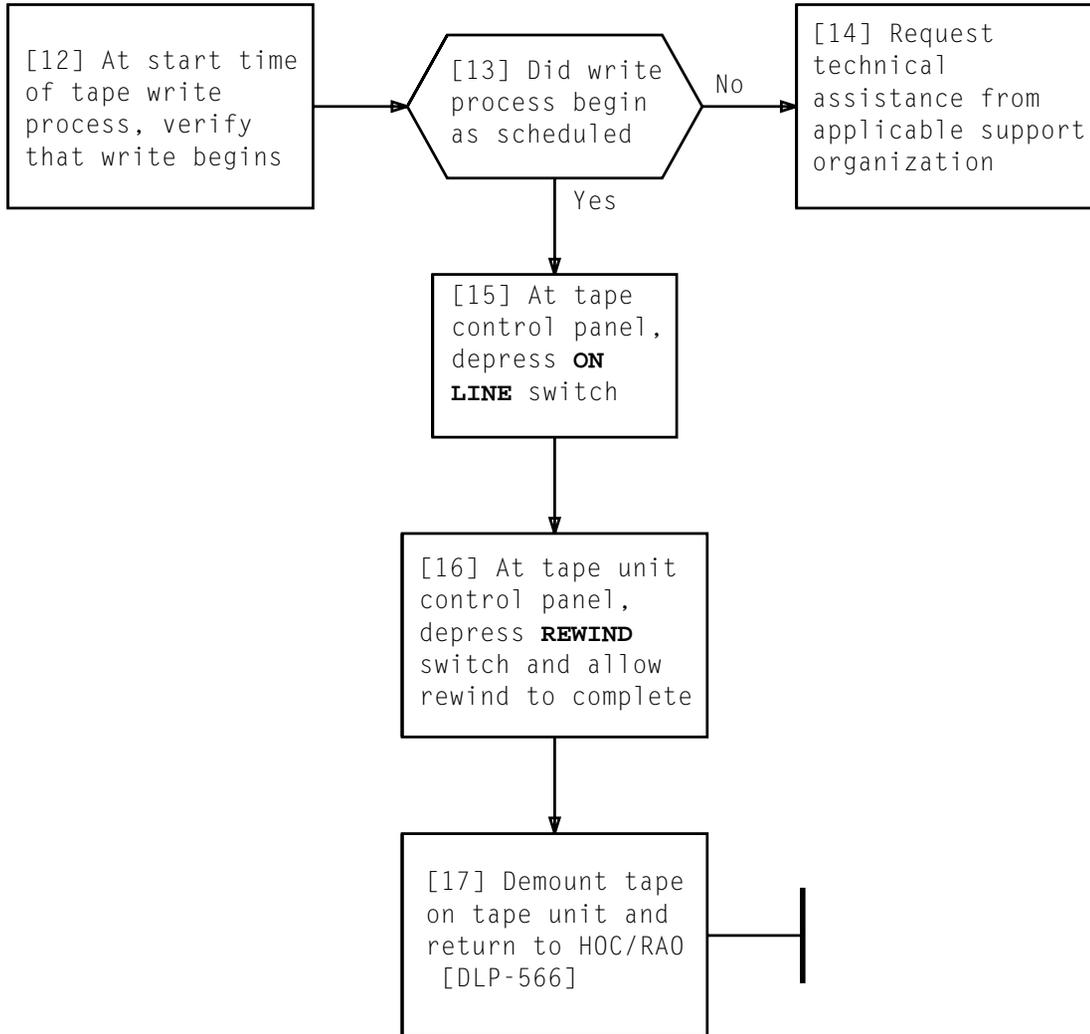
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INITIALIZE AUTOMATIC AMA TAPE WRITING PROCESS



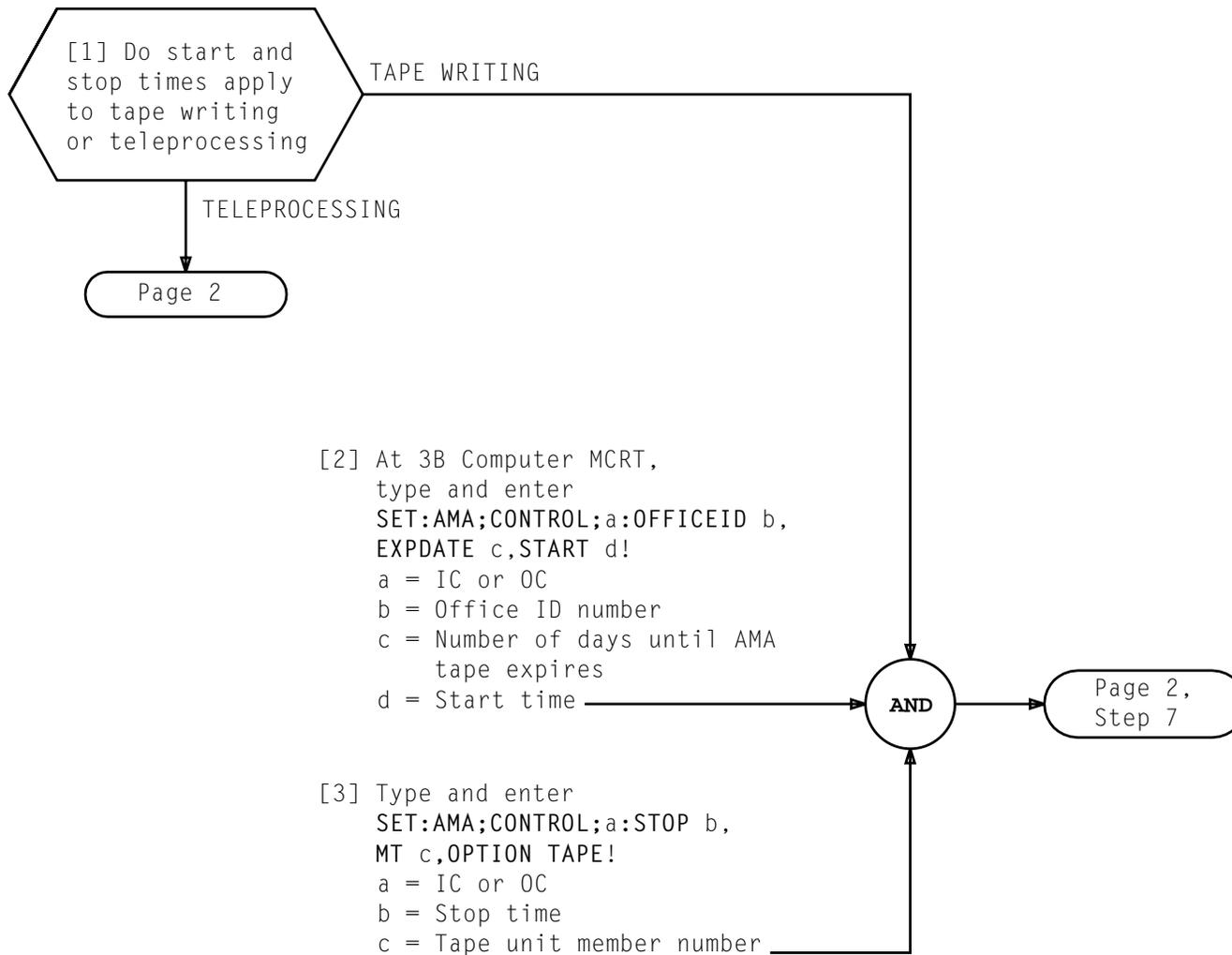
INITIALIZE AUTOMATIC AMA TAPE WRITING PROCESS

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INITIALIZE AUTOMATIC AMA TAPE WRITING PROCESS

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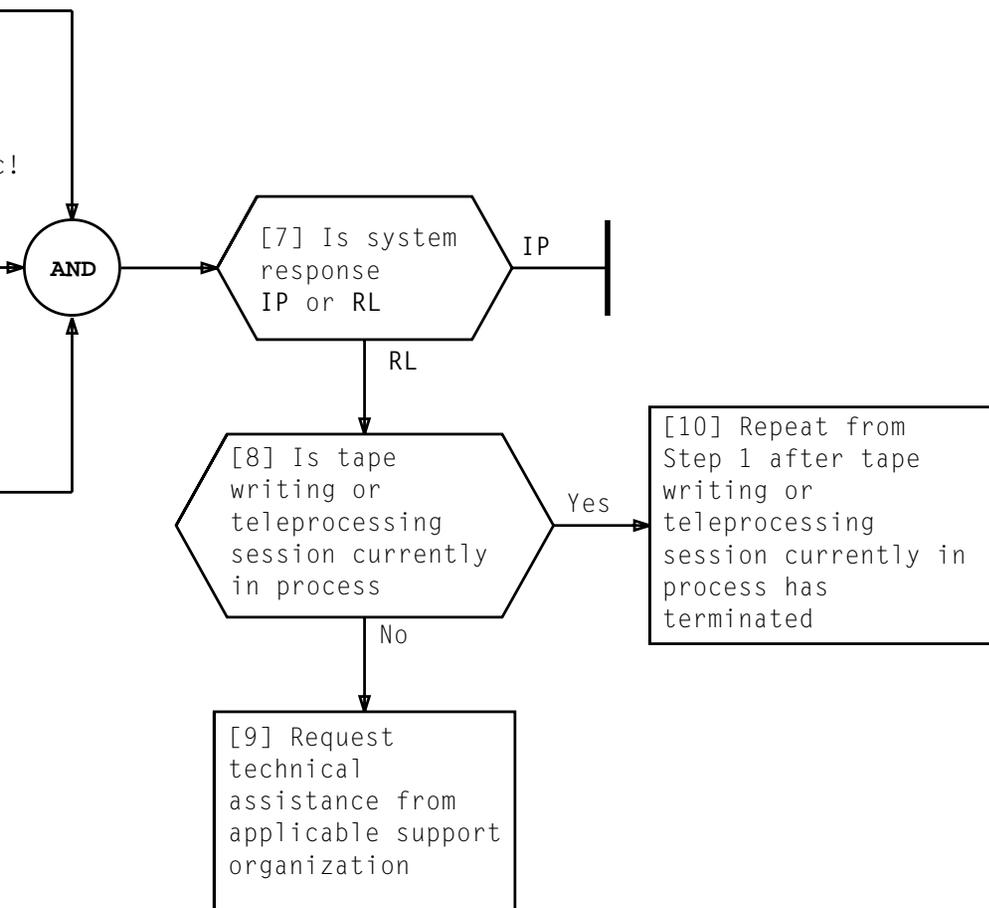
**SET START AND STOP TIME FOR AUTOMATIC AMA RECORD OUTPUT
(TAPE OR TELEPROCESSING)**

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[4] At 3B Computer MCRT,
 type and enter
 SET:AMA;CONTROL; a:OFFICEDID b,START c!
 a = IC or OC
 b = Office ID number
 c = Start time

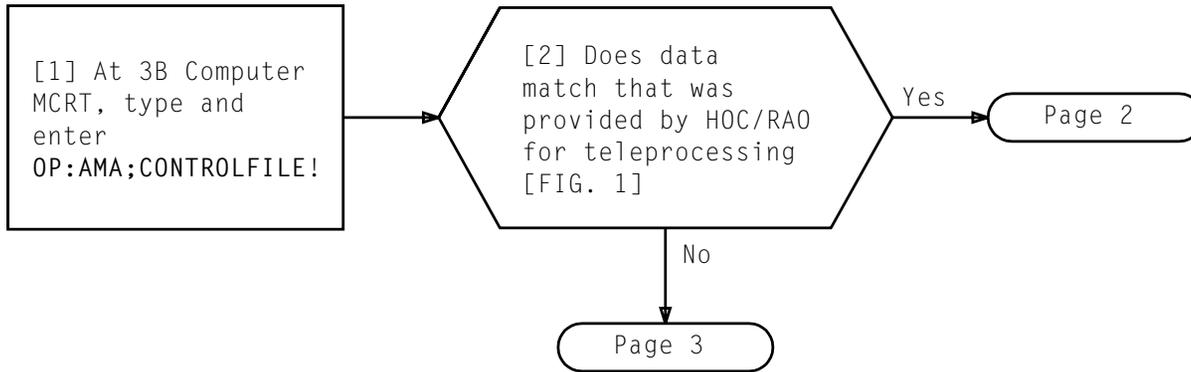
[5] Type and enter
 SET:AMA;CONTROL: a:STOP b,OPTION TP,HOCPSWD c!
 a = IC or OC
 b = Stop time
 c = HOC password

[6] Type and enter
 SET:AMA;CONTROL; a:BACKUPSWD b!
 a = IC or OC
 b = Backup HOC password



**SET START AND STOP TIME FOR AUTOMATIC AMA RECORD OUTPUT
 (TAPE OR TELEPROCESSING)**

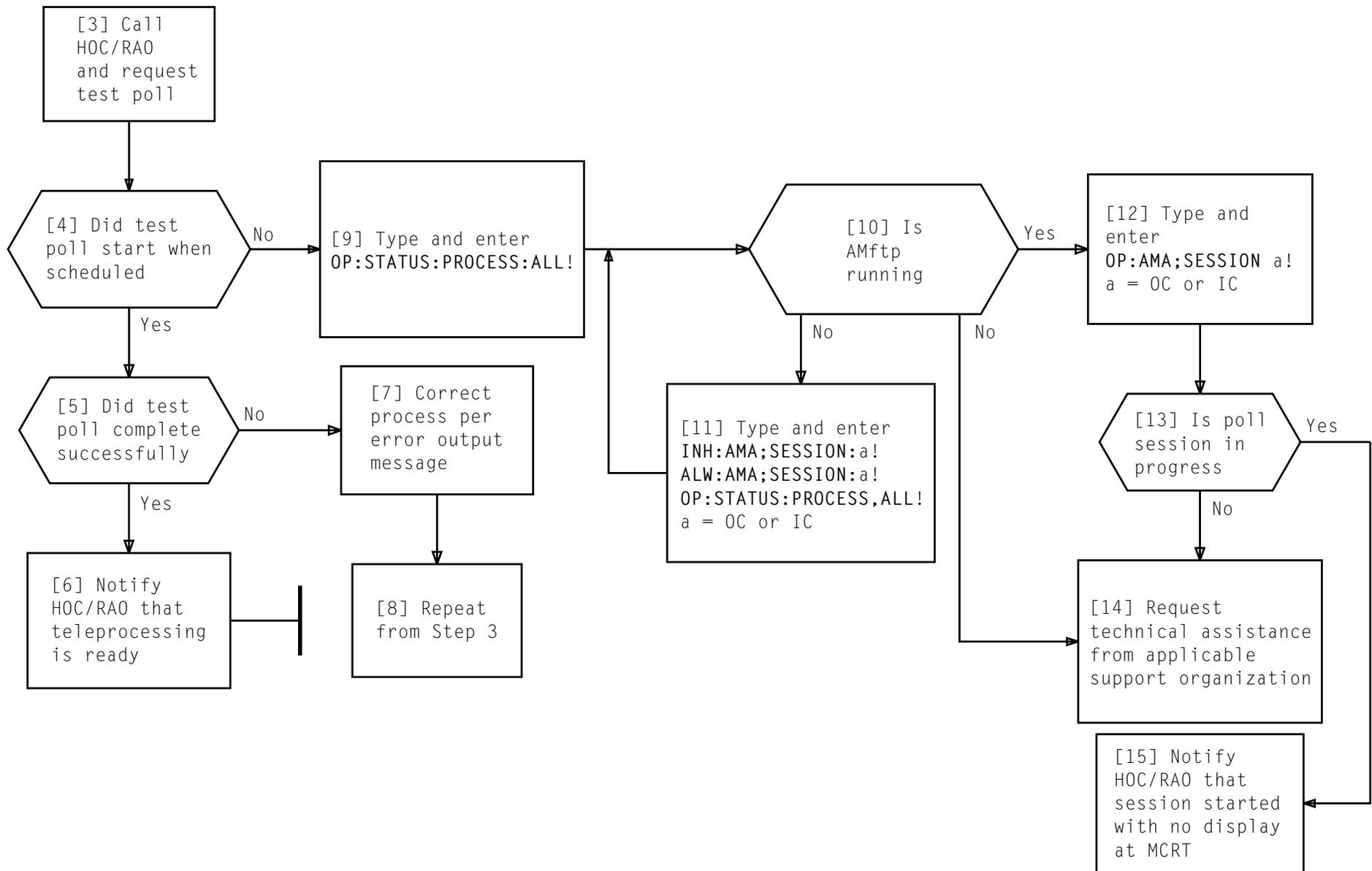
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```

24 REPT AMA CONTROL FILE
OFFICE ID 123456
DAYS UNTIL EXPIRATION 5
PROCESS START TIME 0/ 0/:0/0/
PROCESS STOP TIME 0/ 0/:0/0/
DEFAULT MT FOR AUTO TAPE START 0/
AMA OPTION IS TELEPROCESSING
DATA TRANSFER IS MANUALLY INHIBITED
AMAT PASSWORD 0 /0/40/123456
HOC PASSWORD 0/320/123456
BACKUP HOC PASSWORD 0/320/218357
PASSWORD FROM LAST SESSION 0/320/123456
TAPE SESSION IS NOT IN PROGRESS
TELEPROCESSING SESSION IS NOT IN PROGRESS
OFFICE TYPE 0/0/4
AUTOMATIC TAPE WRITING IS NOT INHIBITED
TAPE SEQUENCE NUMBER 4
  
```

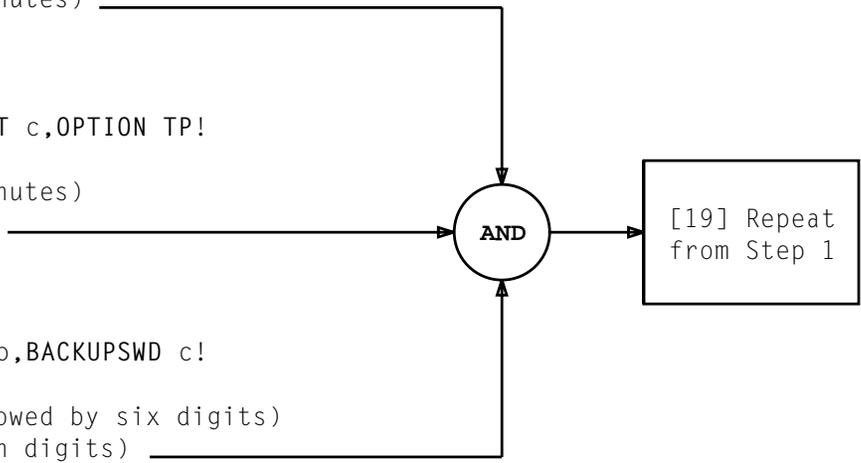
FIG. 1 - AMA Control File Printout



[16] Type and enter
SET:AMA;CONTROL; a:OFFICEID b,EXPDATE c,START d!
a = OC or IC
b = Office ID number (0040 followed by six digits)
c = Number of days until AMA tape expires
d = Stop time (Hours and minutes)

[17] Type and enter
SET:AMA;CONTROL; a:STOP b,MT c,OPTION TP!
a = OC or IC
b = Stop time (Hours and minutes)
c = Tape unit member number

[18] Type and enter
SET:AMA;CONTROL; a:HOCPSWD b,BACKUPSWD c!
a = OC or IC
b = HOC password (0320 followed by six digits)
c = Backup HOC password (ten digits)



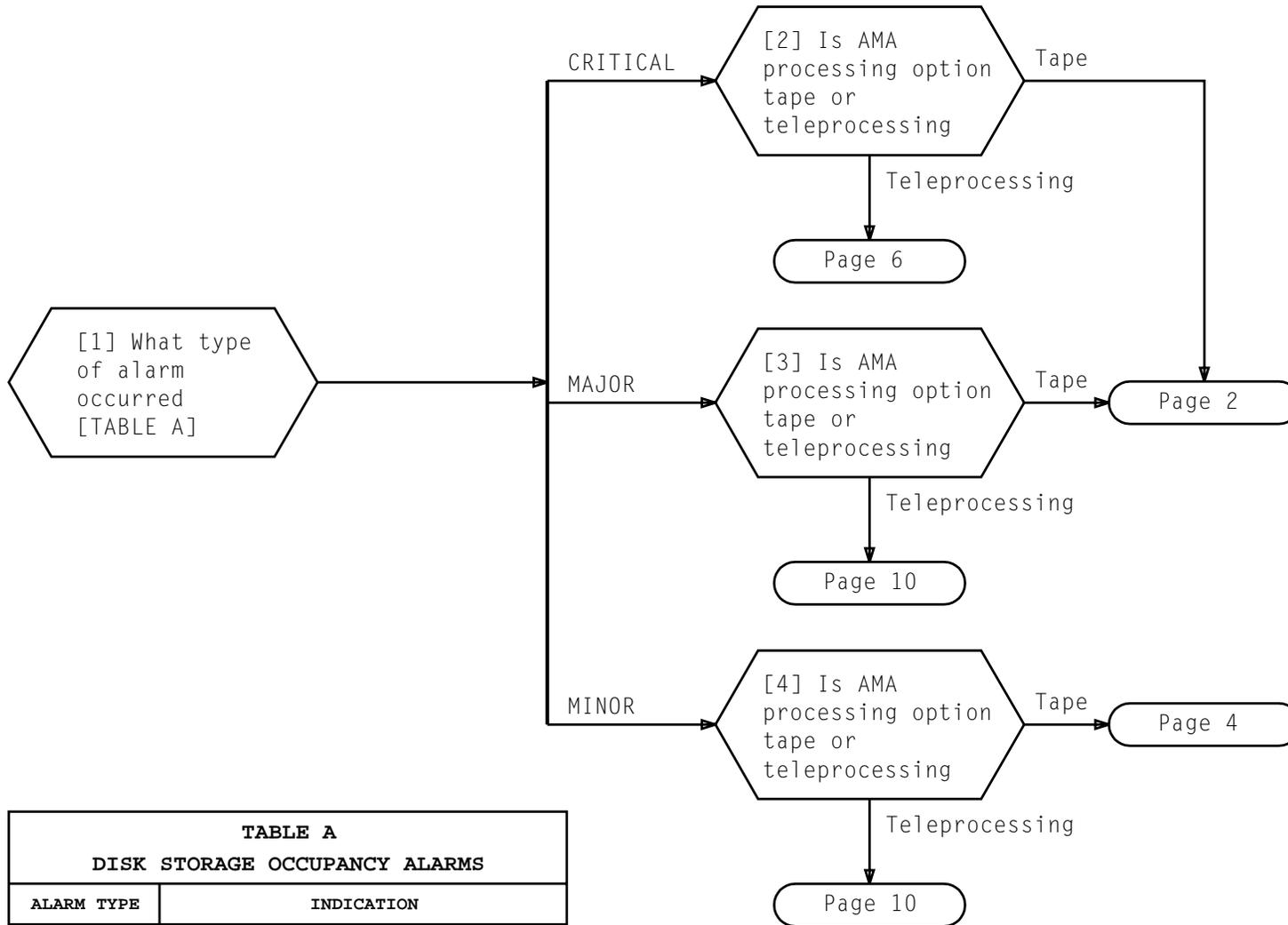
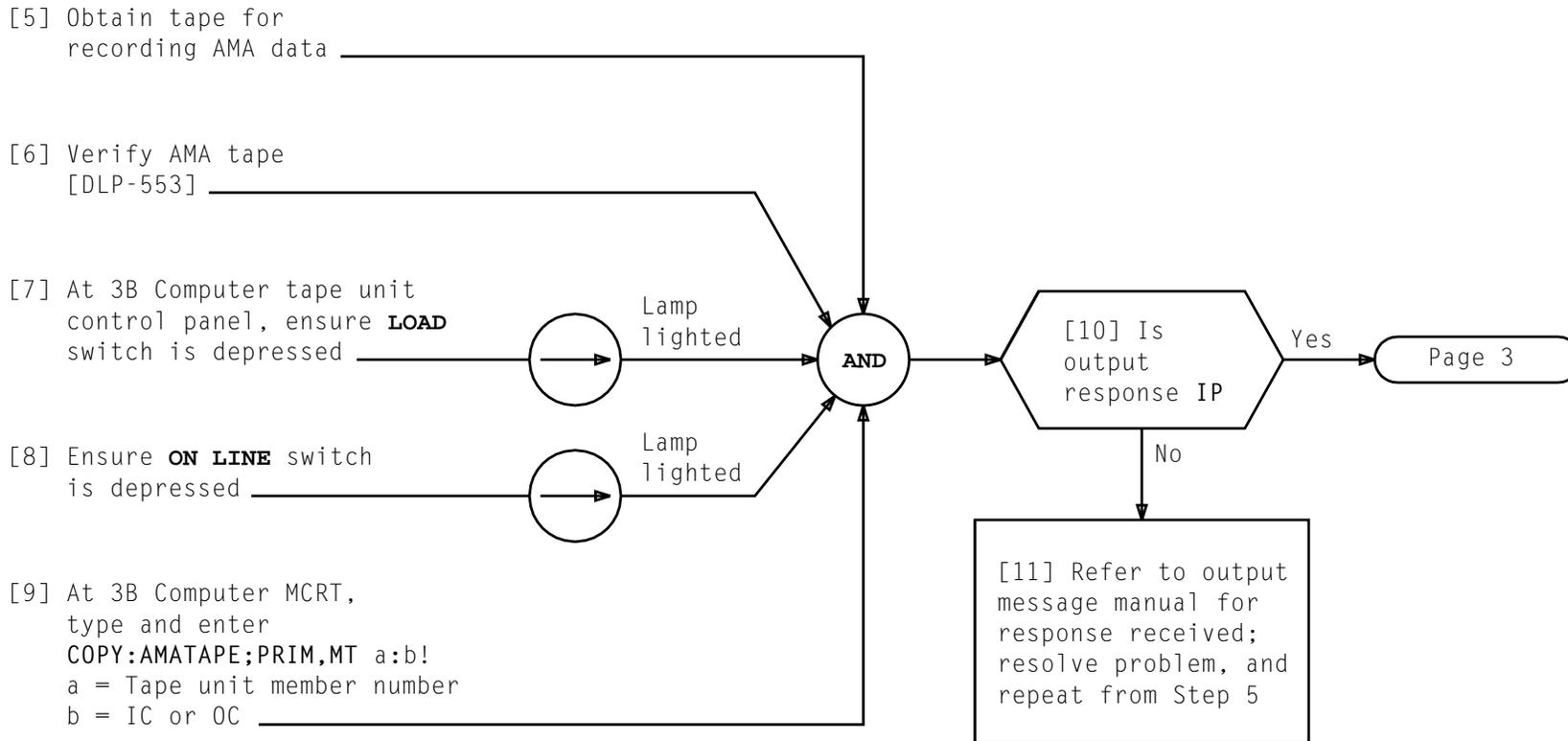


TABLE A DISK STORAGE OCCUPANCY ALARMS	
ALARM TYPE	INDICATION
MINOR	Disk storage is 70-89% full
MAJOR	Disk storage is 90-99% full
CRITICAL	Disk storage is 100% full

REDUCE AMA DISK STORAGE OCCUPANCY



[12] Allow tape writing process
to continue for 15 minutes
from initial start

[13] After 15 minutes has elapsed,
at 3B Computer MCRT
type and enter
STOP:AMATAPE: a!
a = IC or OC

[14] Demount AMA tape on tape
unit [DLP-566]

[15] Type and enter
OP:AMA;DISK: a!
a = IC or OC

AND

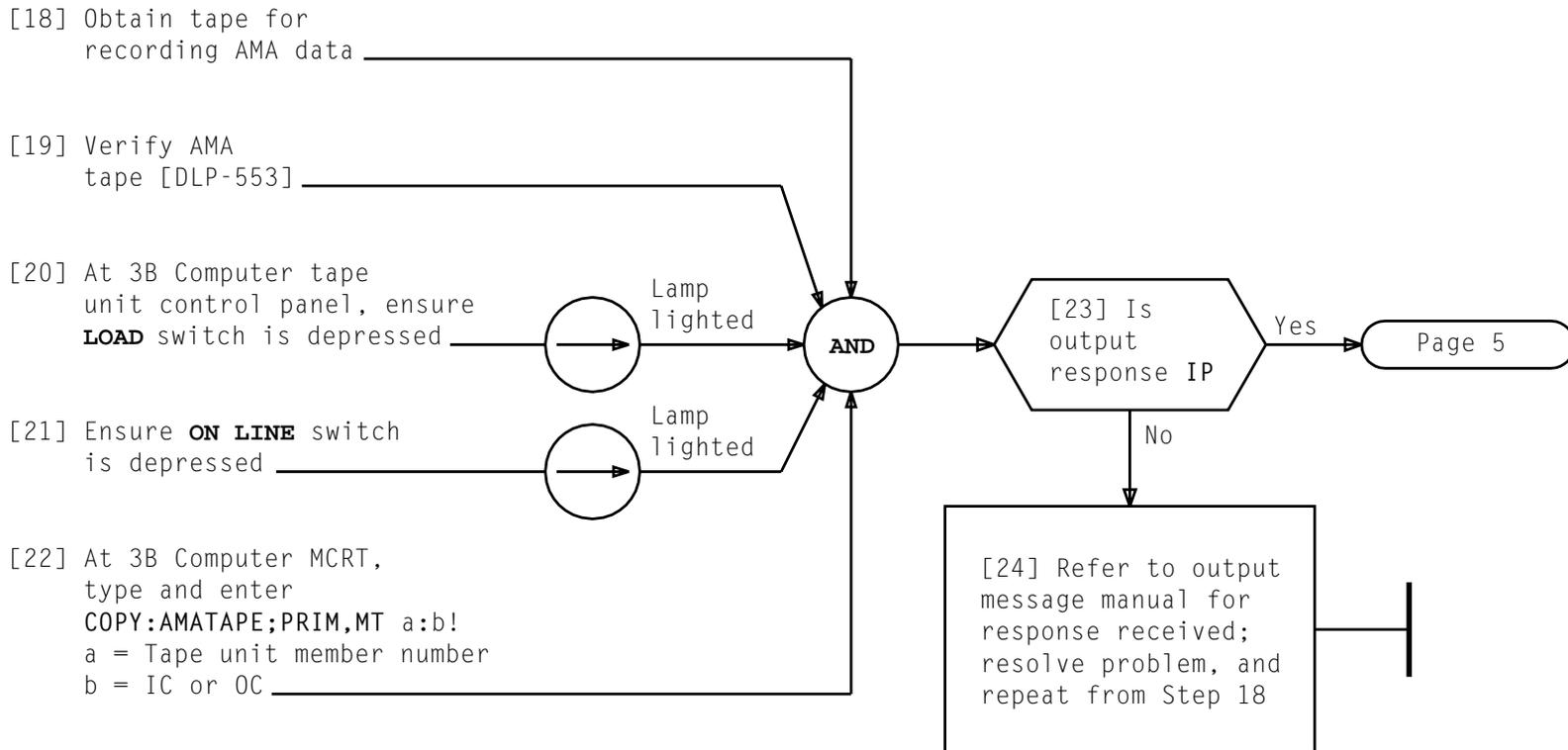
[16] Is disk
storage occupancy
less than 87
percent full

No

[17] Repeat
from
Step 5

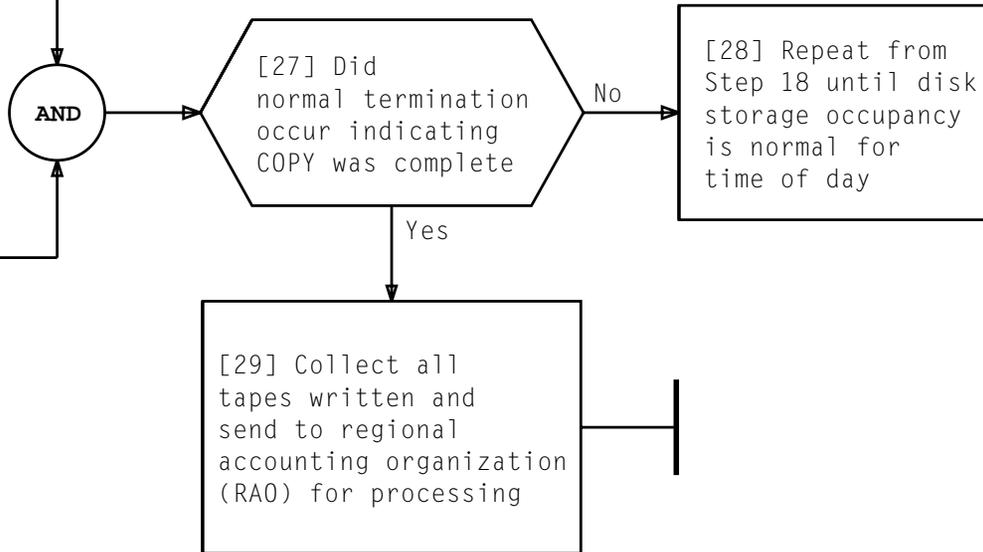
Yes

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[25] Allow tape writing process to continue uninterrupted until tape fills or normal termination occurs

[26] Demount tape on tape unit [DLP-566]

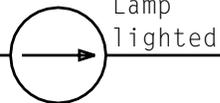


[30] See NOTE 1. At 3B Computer MCRT,
type and enter
SET:AMA;CONTROL;a:OPTION TAPE!
a = IC or OC

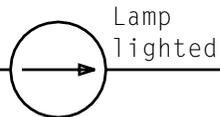
[31] Obtain tape for
recording AMA data

[32] Verify AMA tape
[DLP-553]

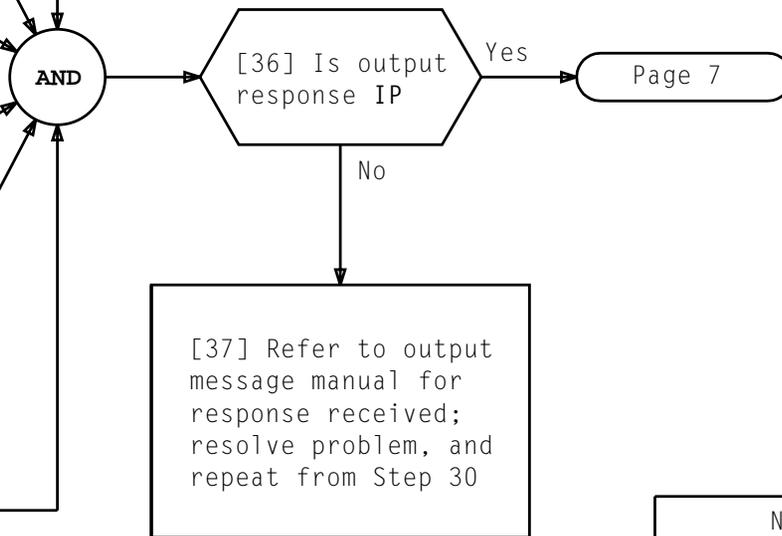
[33] At 3B Computer tape
unit control panel, ensure
LOAD switch is depressed



[34] Ensure **ON LINE** switch
is depressed



[35] At 3B Computer MCRT,
type and enter
COPY:AMATAPE;PRIM,MT a:b!
a = Tape unit member number
b = IC or OC



NOTE 1
For disk storage
occupancy to be at
100% full, minor
and major alarms
could not be retired
and conditions
progressed to
critical

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REDUCE AMA DISK STORAGE OCCUPANCY

[38] Allow tape writing process
to continue for 15 minutes
from initial start

[39] After 15 minutes has elapsed,
at 3B Computer MCRT
type and enter
STOP:AMATAPE: a!
a = IC or OC

[40] Demount AMA tape on tape
unit [DLP-566]

[41] Type and enter
OP:AMA;DISK: a!
a = IC or OC

AND

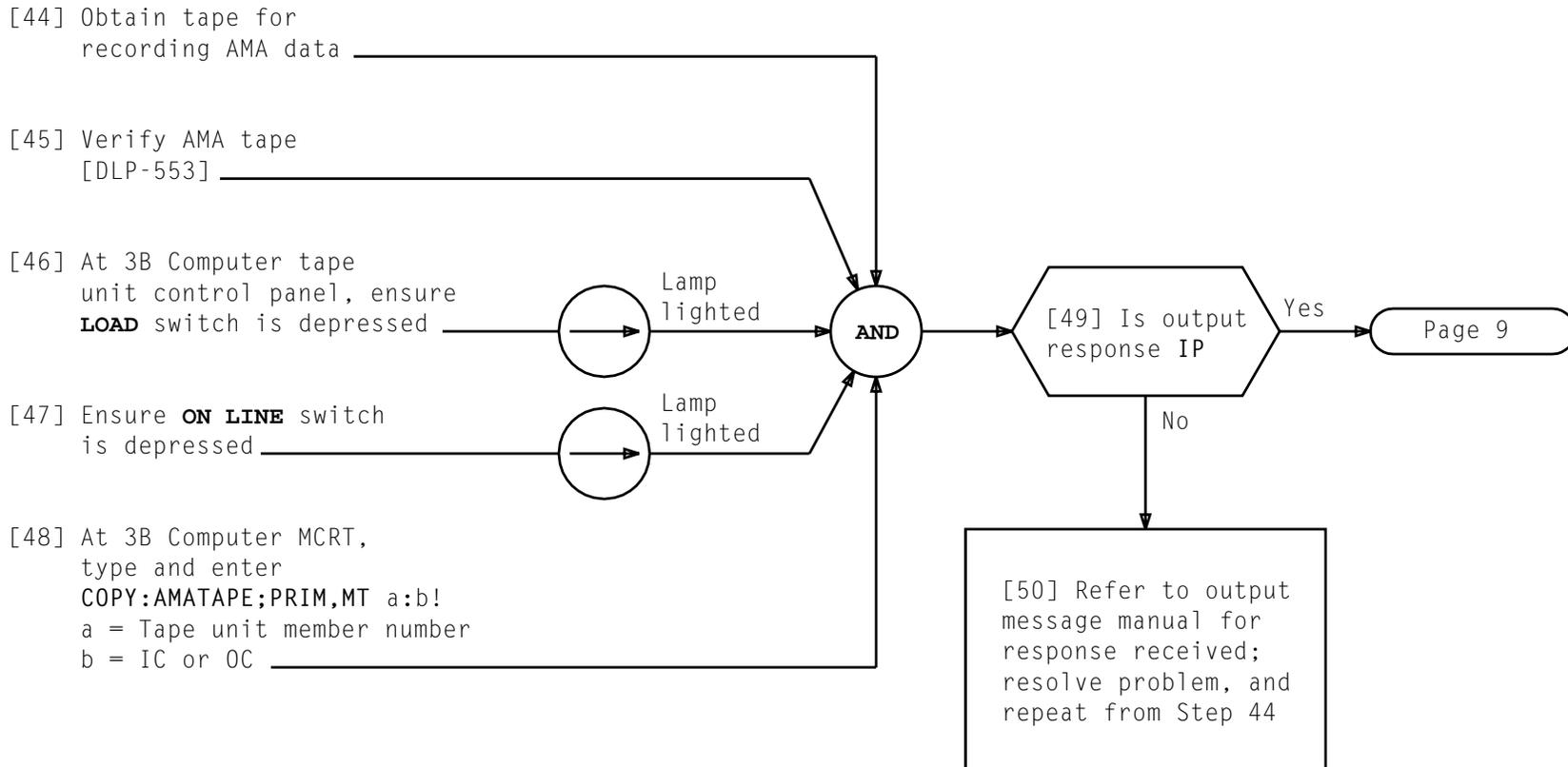
[42] Is disk
storage occupancy
less than 87
percent full

No

[43] Repeat
from
Step 30

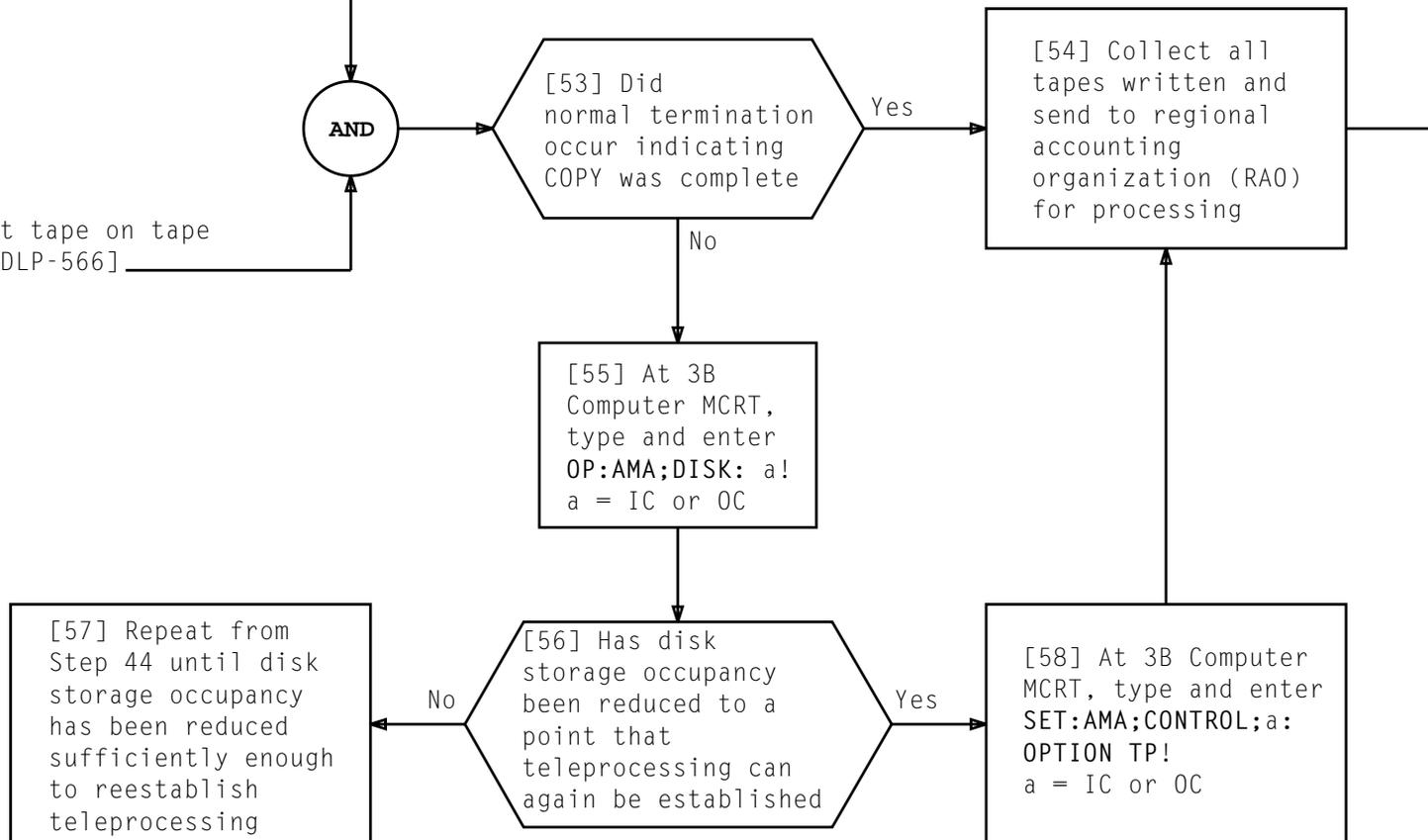
Yes

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[51] Allow tape writing process to continue uninterrupted until tape fills or normal termination occurs

[52] Demount tape on tape unit [DLP-566]



REDUCE AMA DISK STORAGE OCCUPANCY

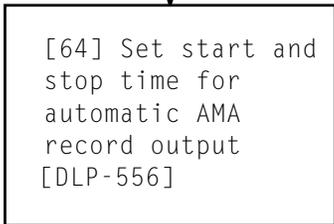
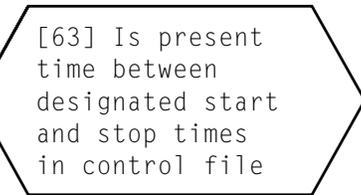
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[59] At 3B Computer MCRT,
type and enter
SET:AMA;CONTROL;a:OPTION TAPE!
a = IC or OC

[60] Obtain tape for
recording AMA data

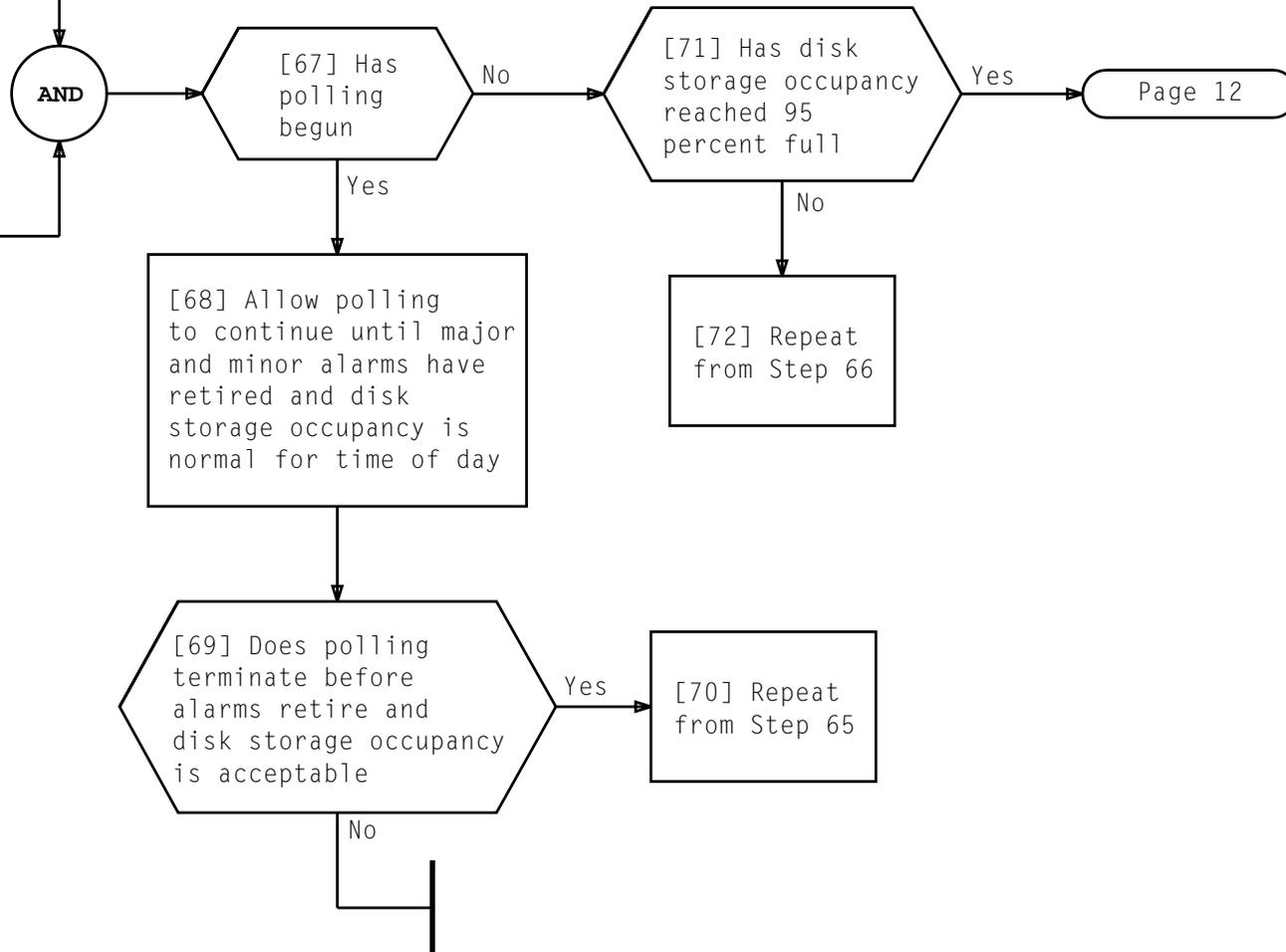
[61] Verify AMA tape
[DLP-553]

[62] Type and enter
SET:AMA;CONTROL;a:OPTION TP!
a = IC or OC



[65] Contact regional
accounting office (RAO)
and request demand
poll

[66] Type and enter
OP:AMA;DISK: a !
a = IC or OC

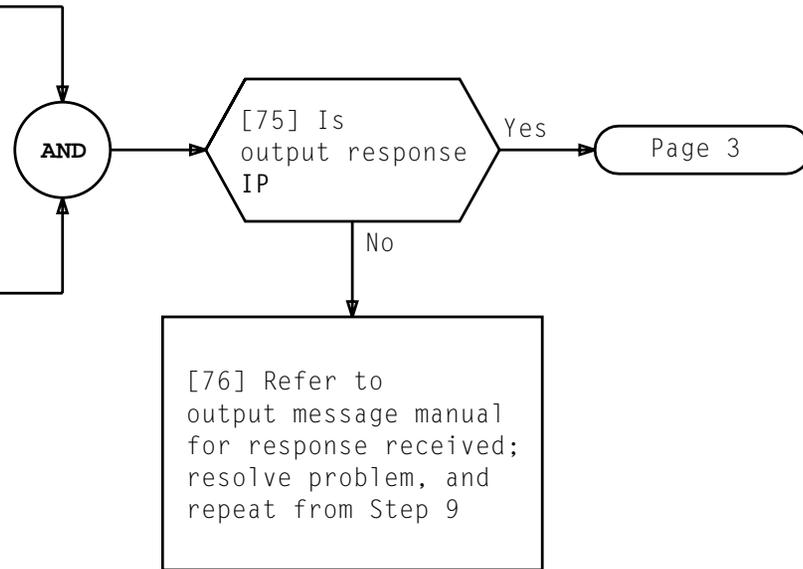


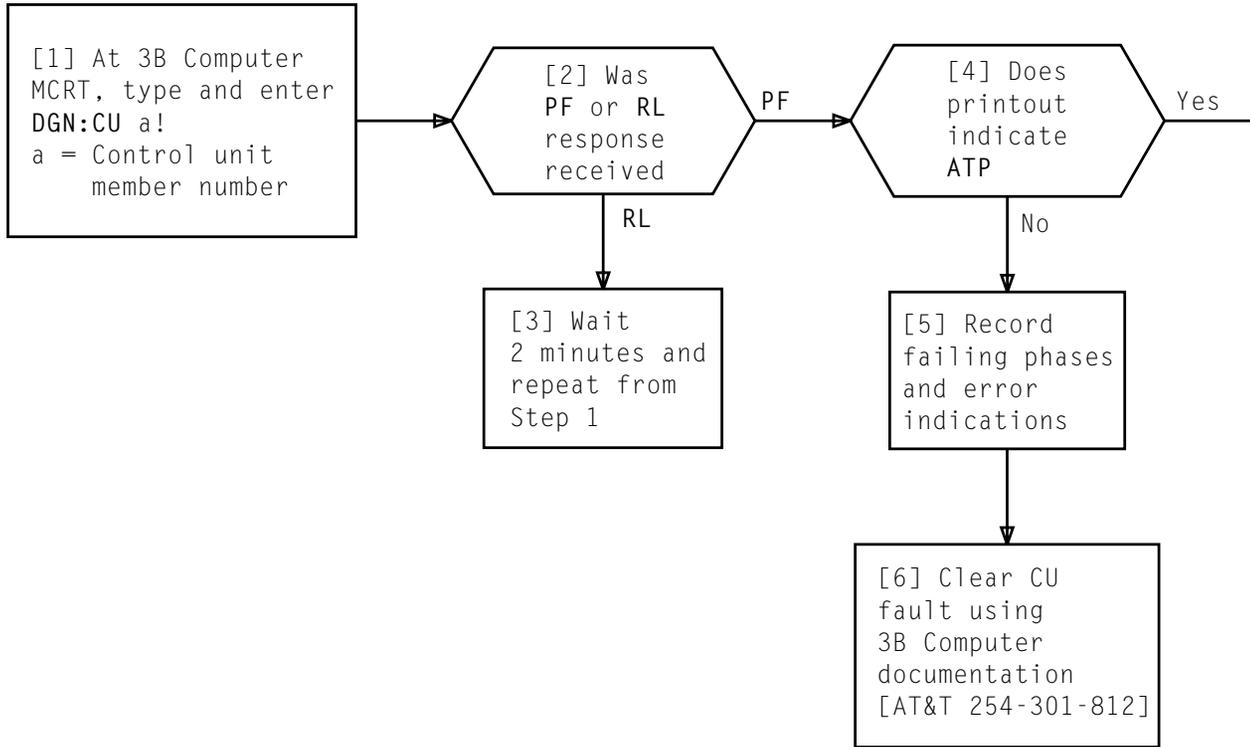
REDUCE AMA DISK STORAGE OCCUPANCY

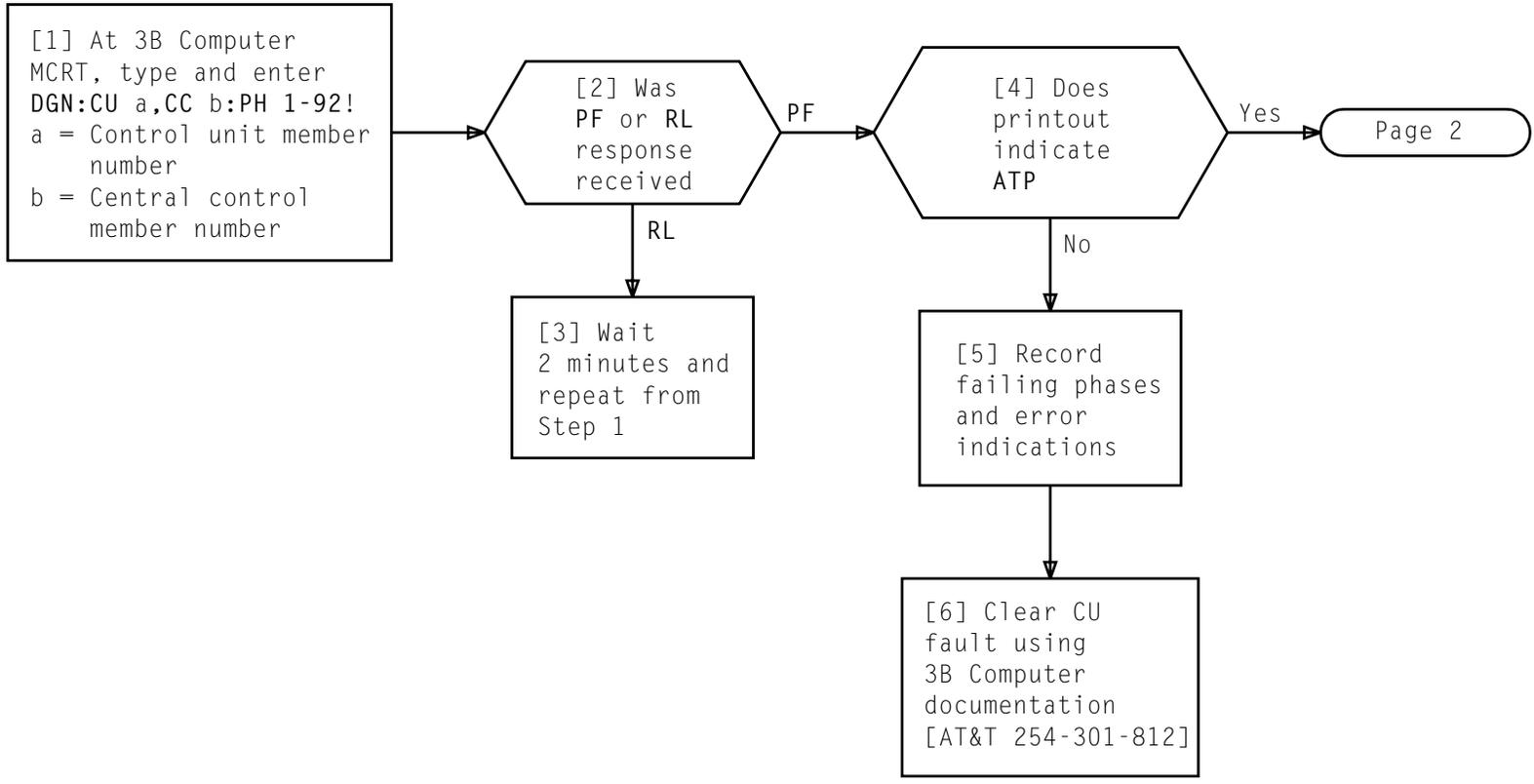
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[73] At 3B Computer,
type and enter
SET:AMA;CONTROL; a:OPTION TAPE!
a = IC or OC

[74] Type and enter
COPY:AMATAPE:PRIM, MT a:b!
a = Tape unit member number
b = IC or OC







PERFORM CONTROL UNIT DEMAND DIAGNOSTICS

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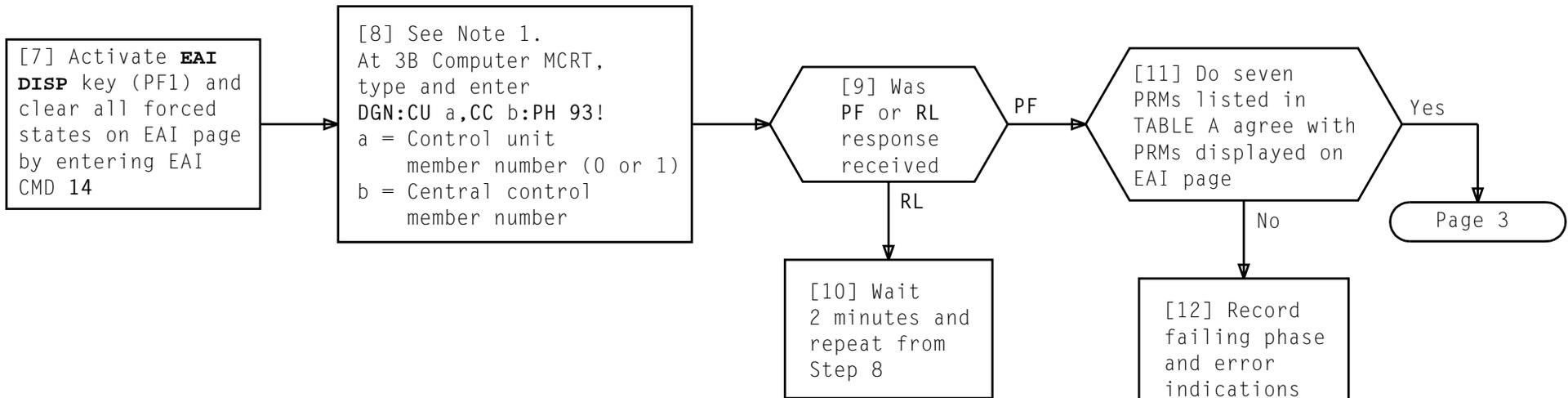
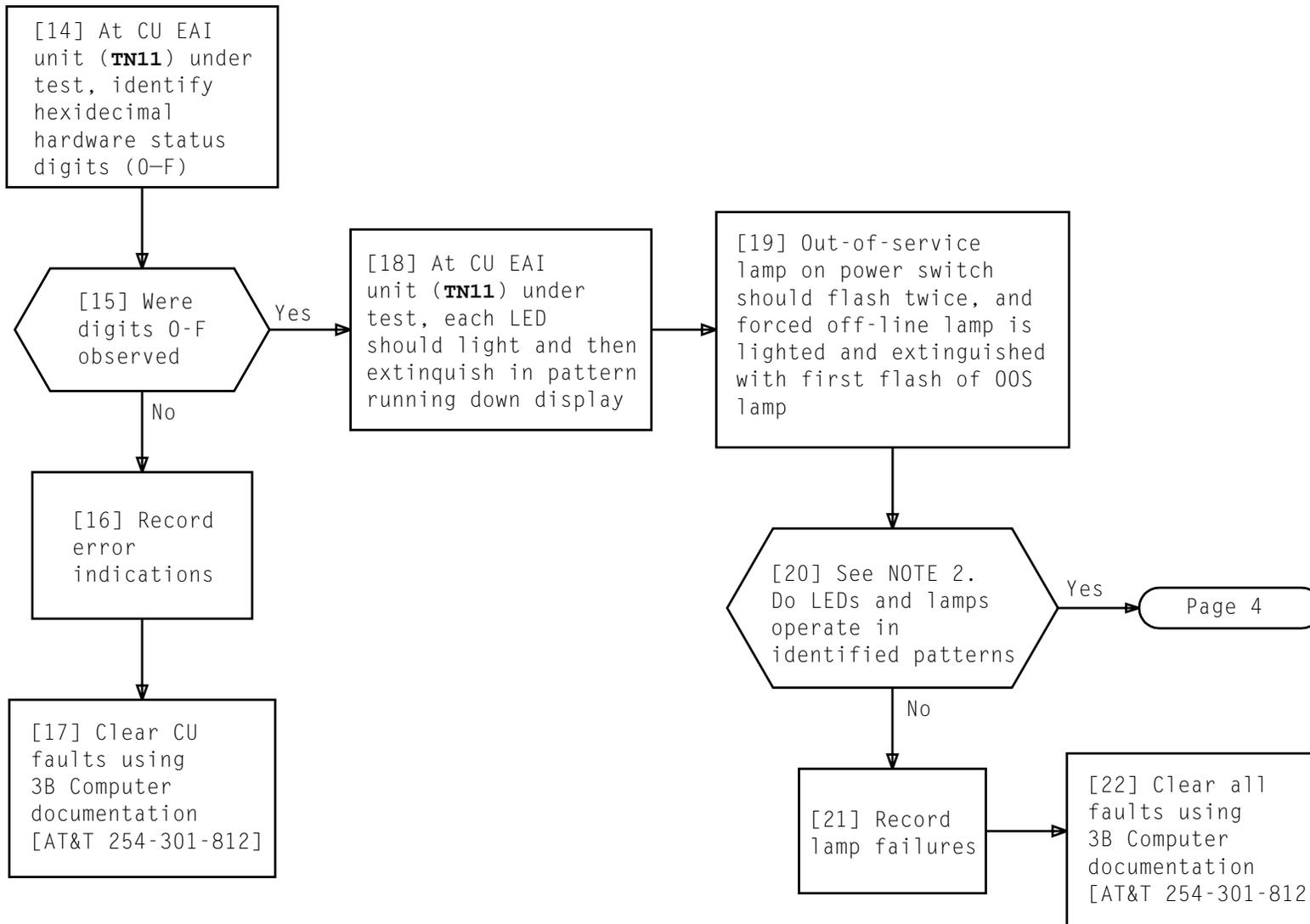


TABLE A
CONTROL UNIT DEMAND DIAGNOSTIC PRMs

PRM-x	0123	4567	89AB	CDEF	xx	xx	xx
PRM-x	AAAA	AAAA	AAAA	AAAA	xx	xx	xx
PRM-x	5555	5555	5555	5555	xx	xx	xx
PRM-x	EEEE	EEEE	EEEE	EEEE	xx	xx	xx
PRM-x	1111	1111	1111	1111	xx	xx	xx
PRM-x	0000	0000	0000	0000	xx	xx	xx
PRM-x	FFFF	FFFF	FFFF	FFFF	xx	xx	xx

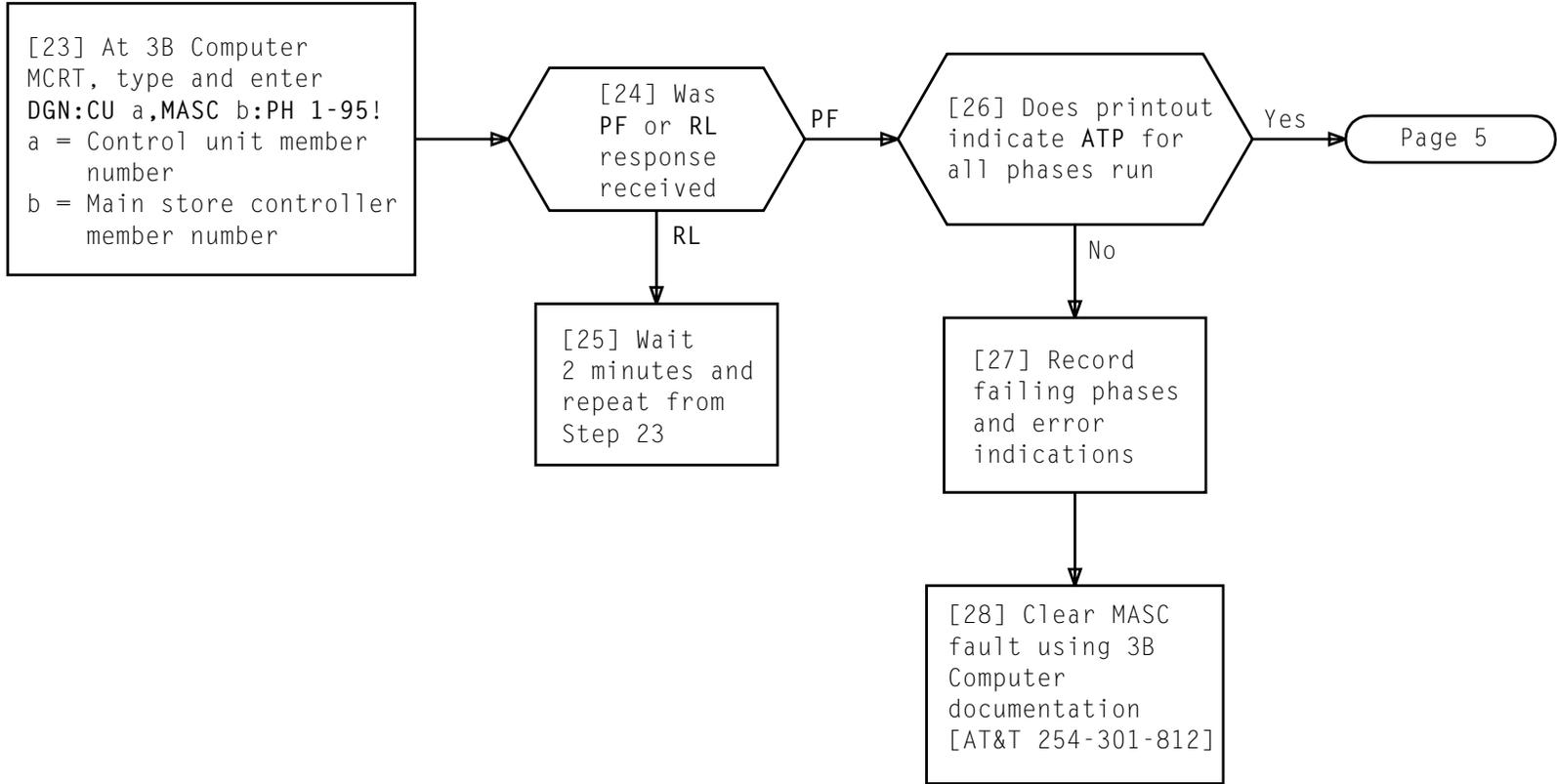
NOTE 1
Read Steps 8-17 to become familiar with phase 93 and observations to be made while performing this phase. This phase may require two people.

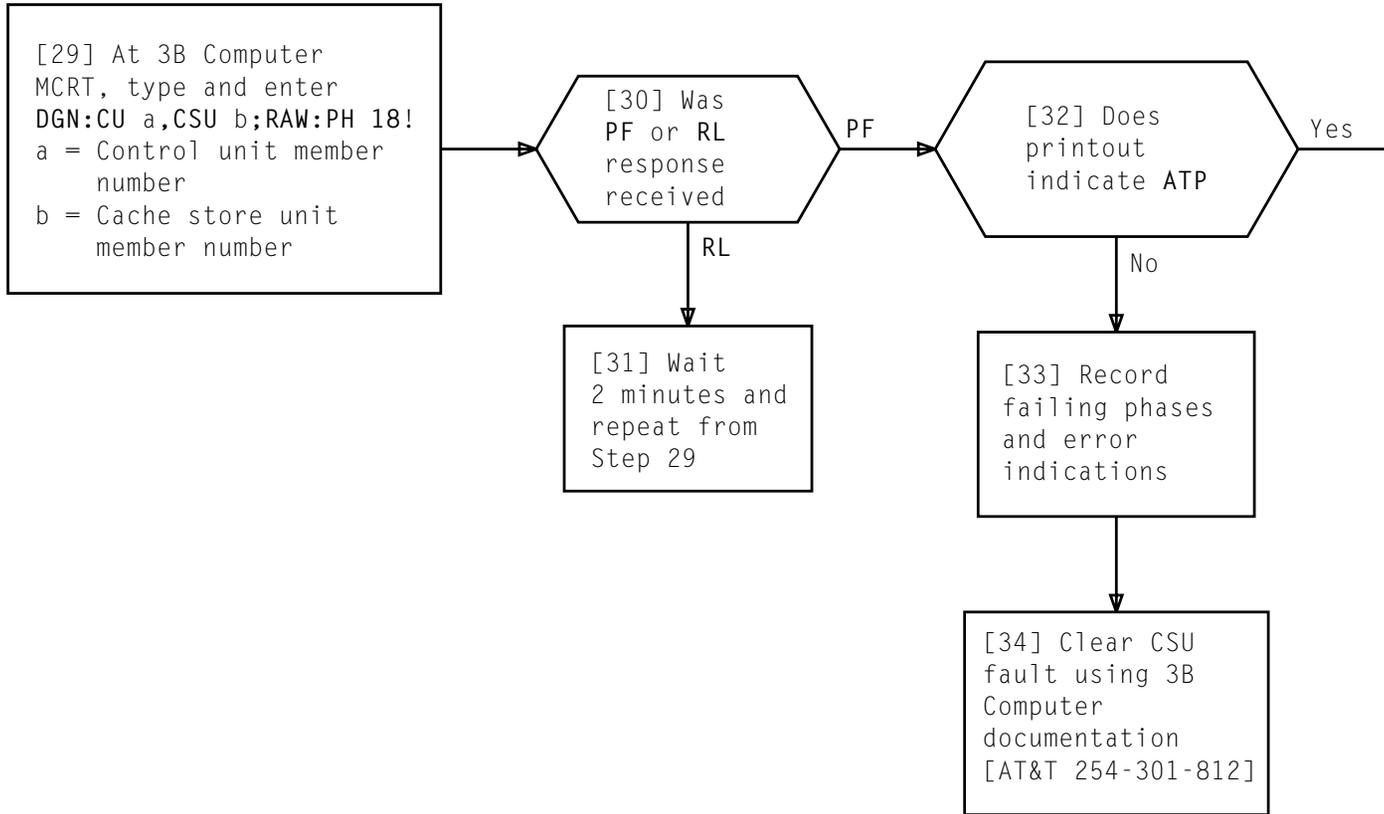
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NOTE 2
 Since any failure is indicated visually, phase may run ATP in spite of display faults

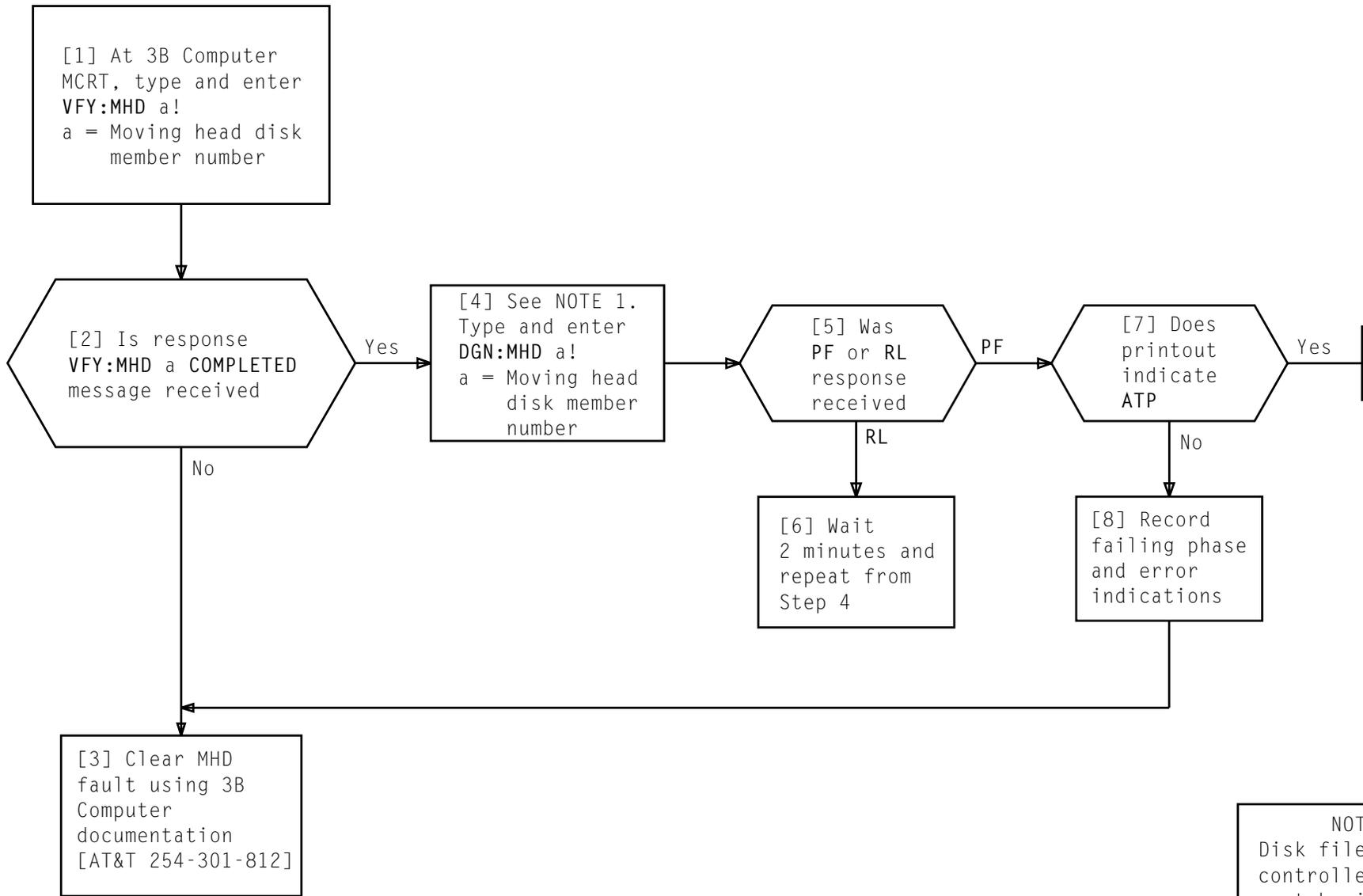
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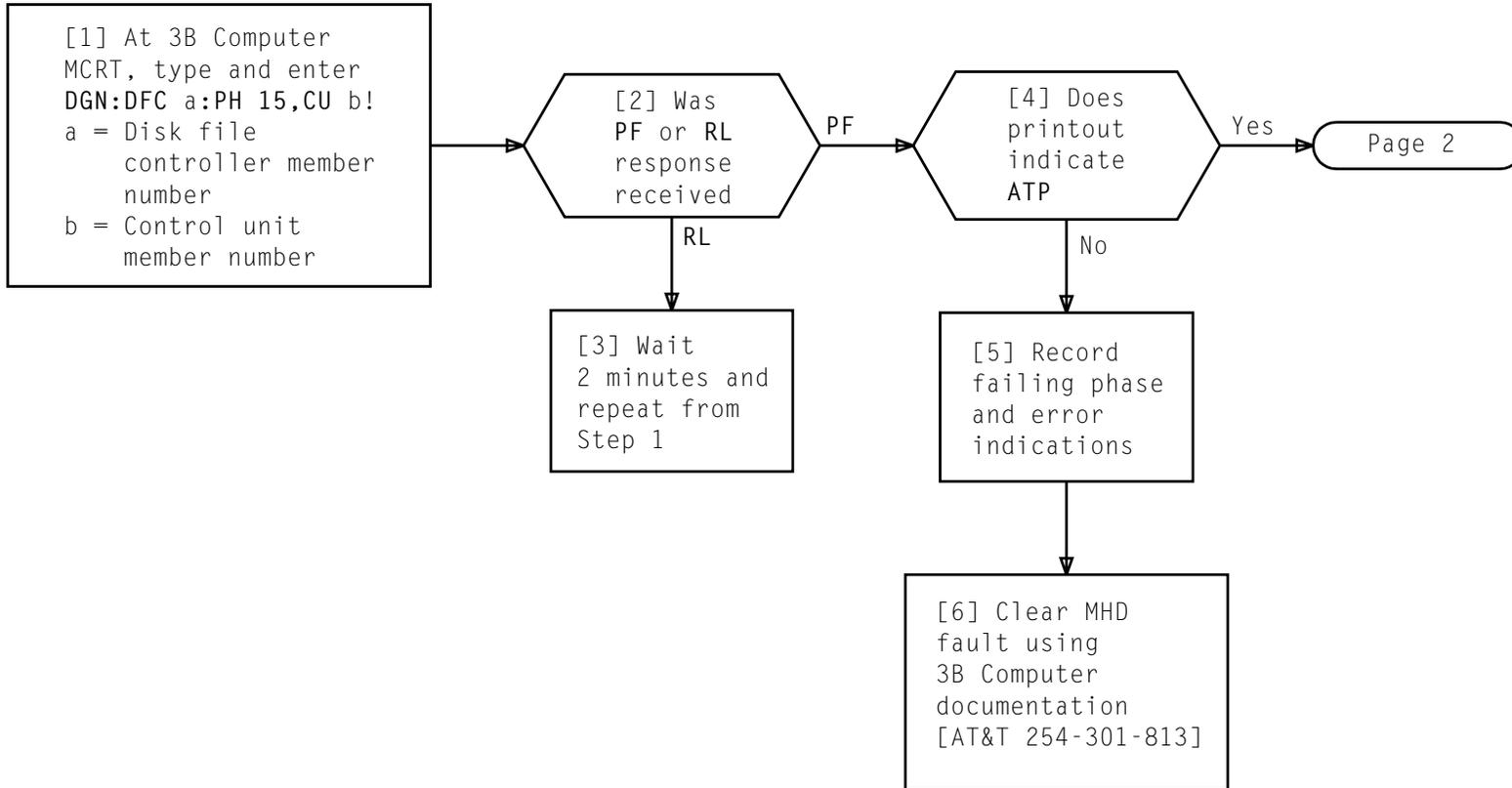


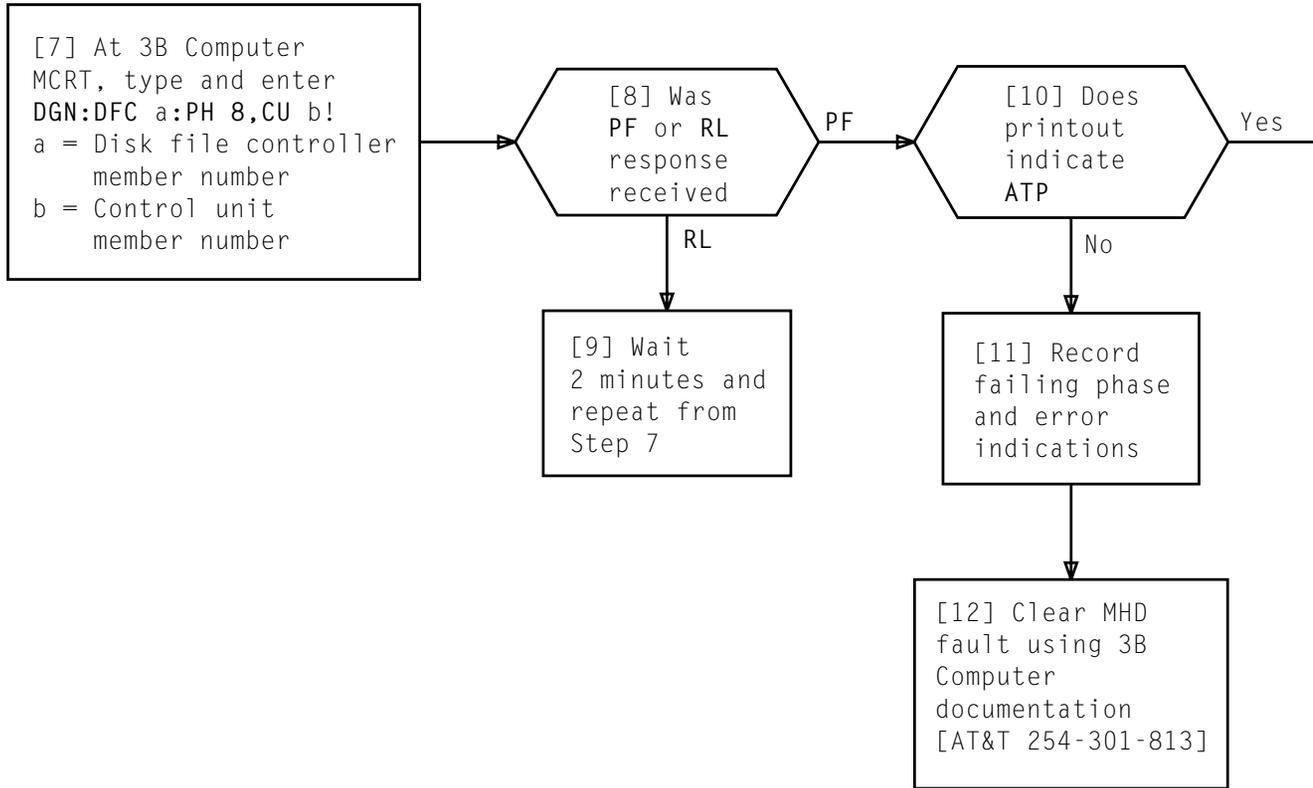
PERFORM CONTROL UNIT DEMAND DIAGNOSTICS

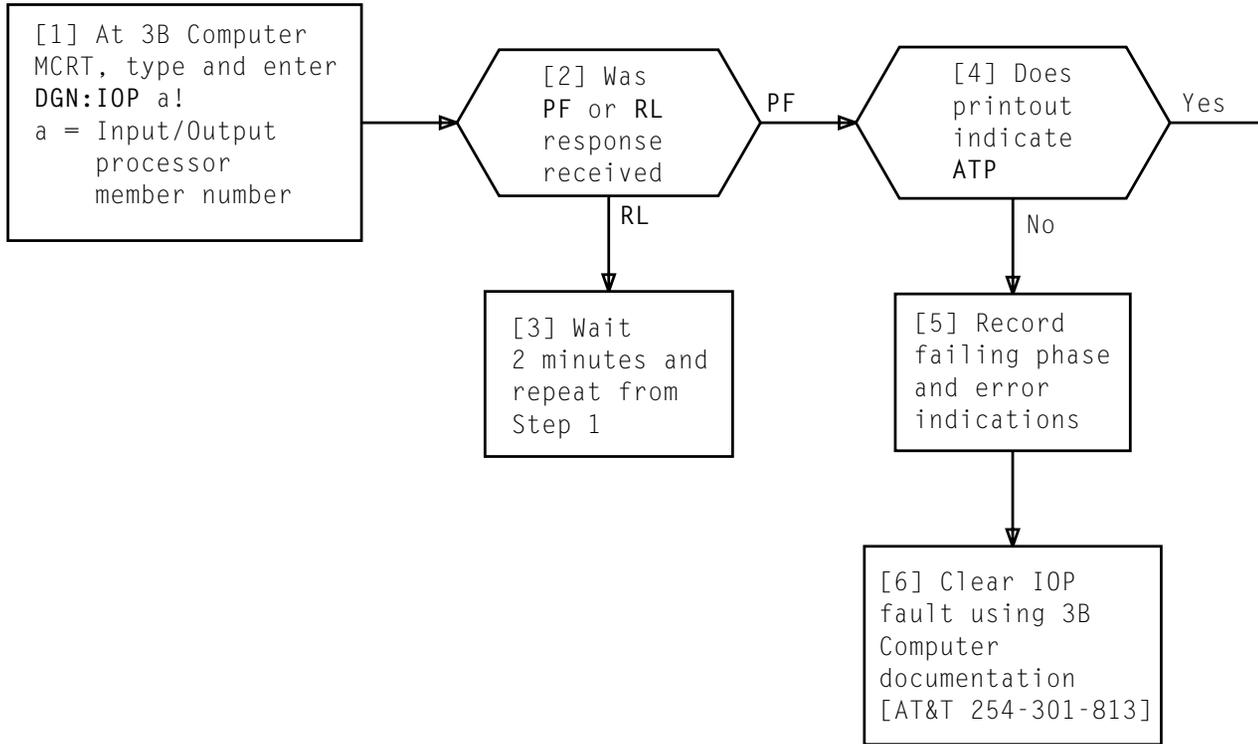
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NOTE 1	
Disk file controller (DFC) must be in service before MHD can be diagnosed	
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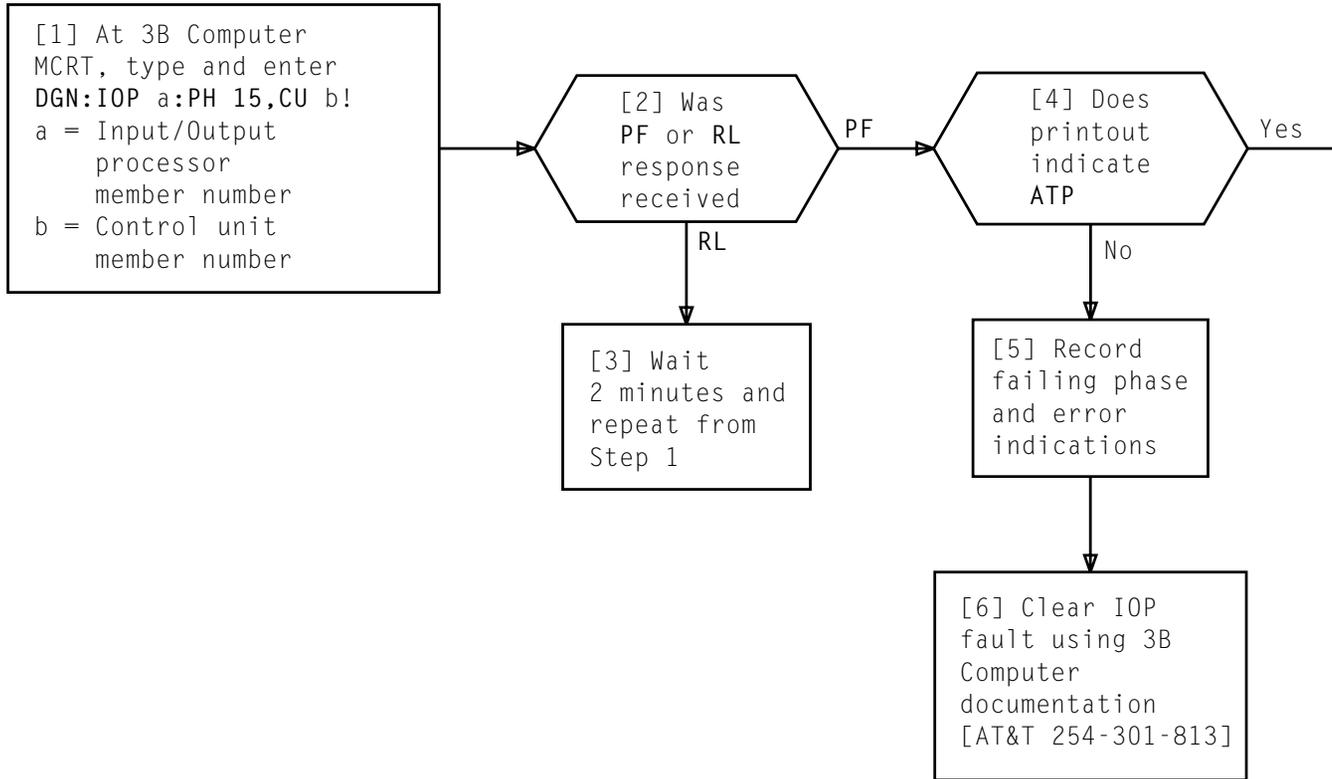






PERFORM INPUT/OUTPUT PROCESSOR (IOP) DIAGNOSTICS

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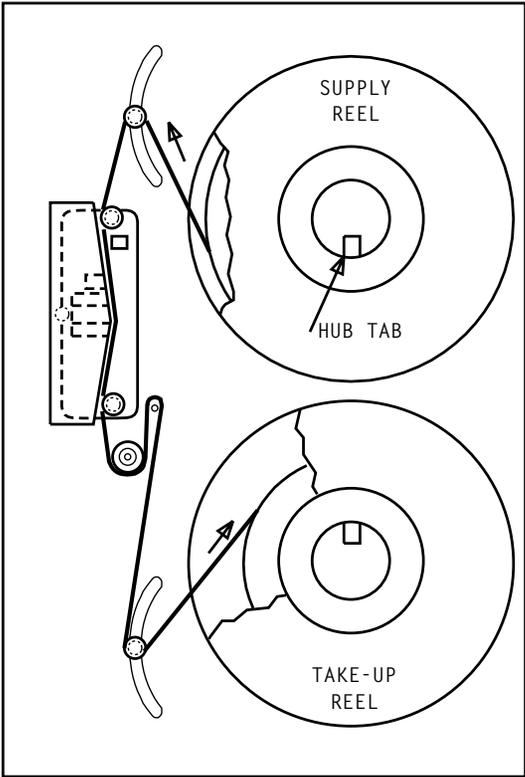
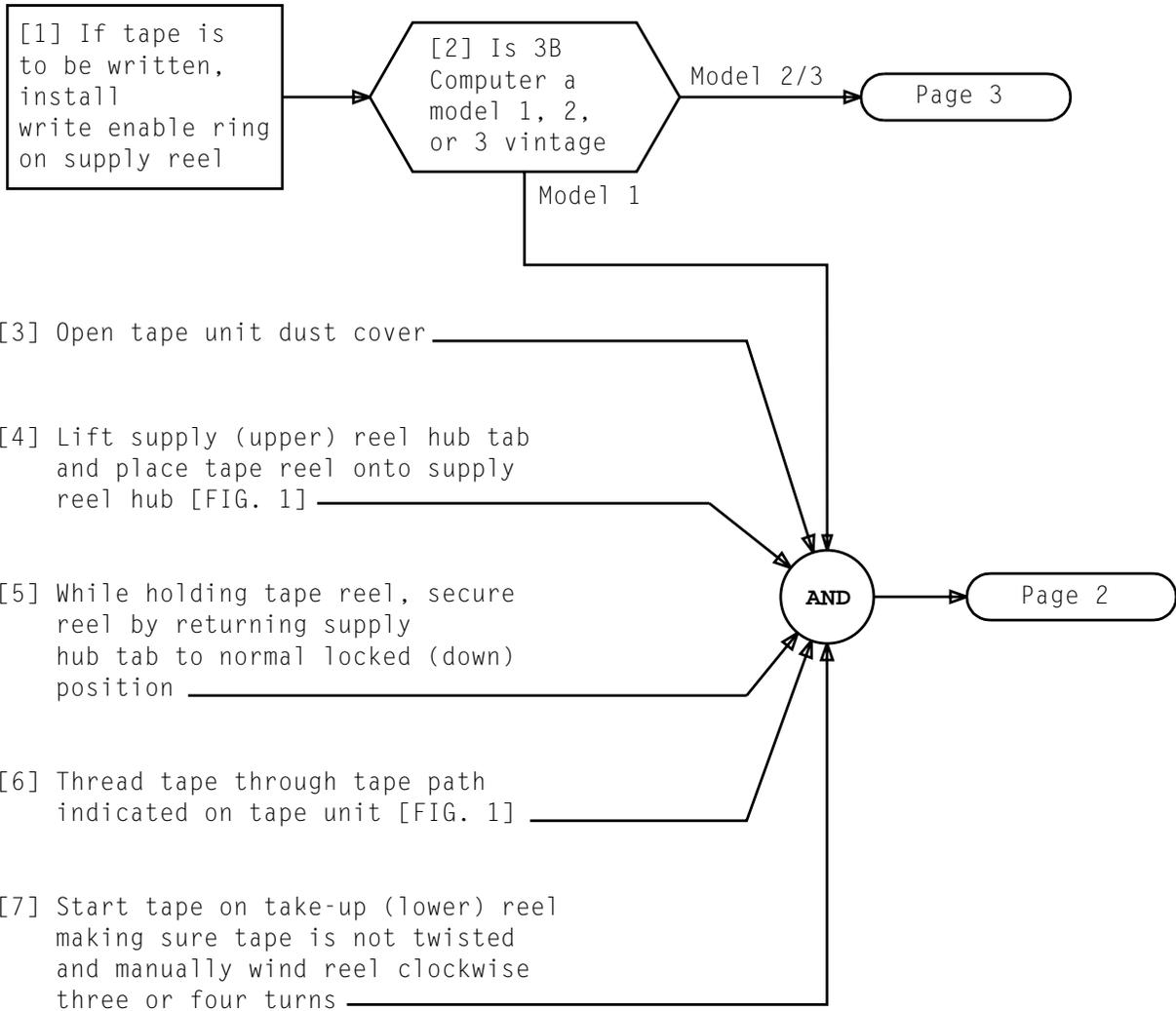
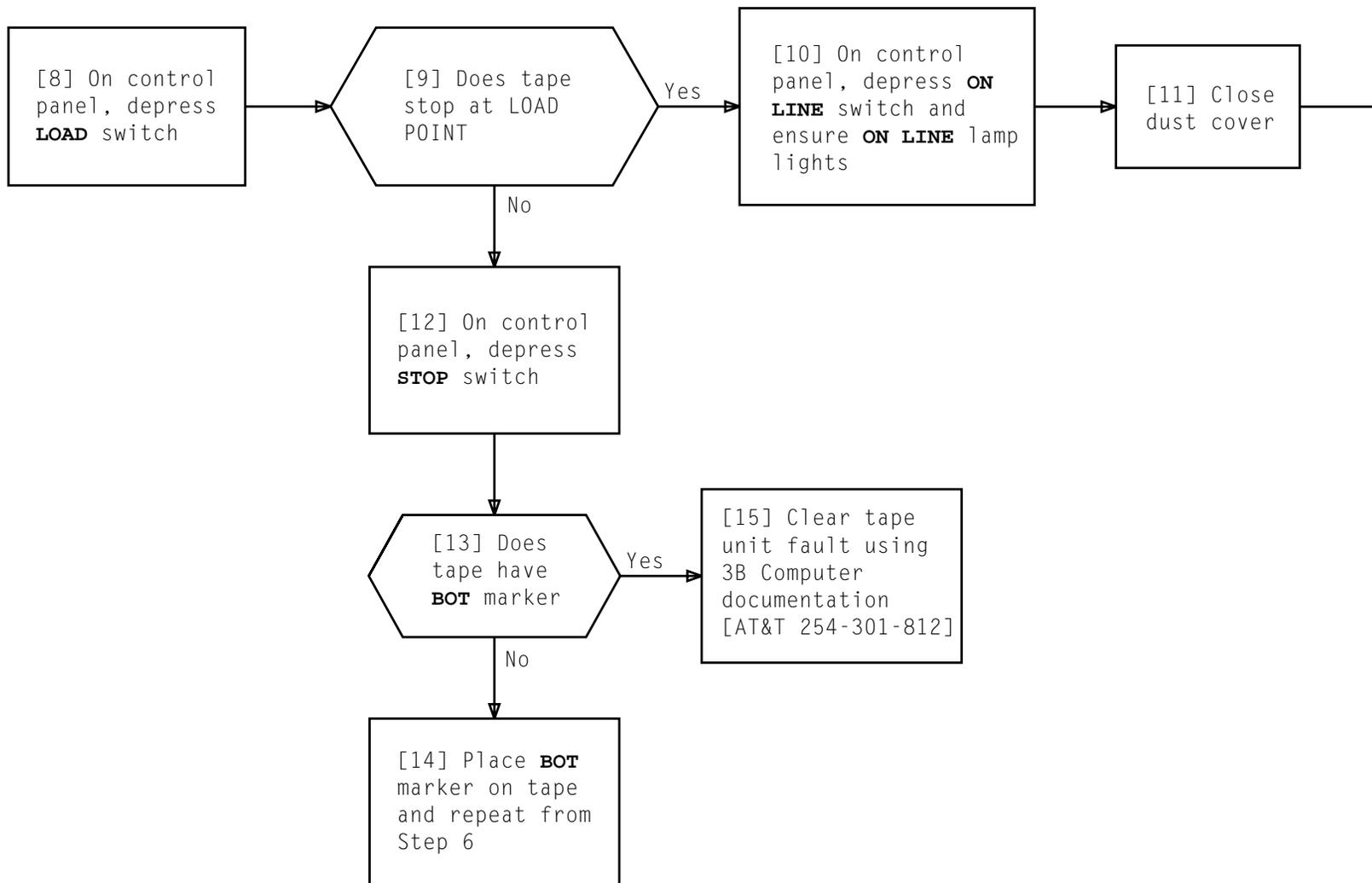


FIG. 1 - 3B Computer Tape Unit

MOUNT 1600 BPI TAPE ON 3B COMPUTER TAPE UNIT

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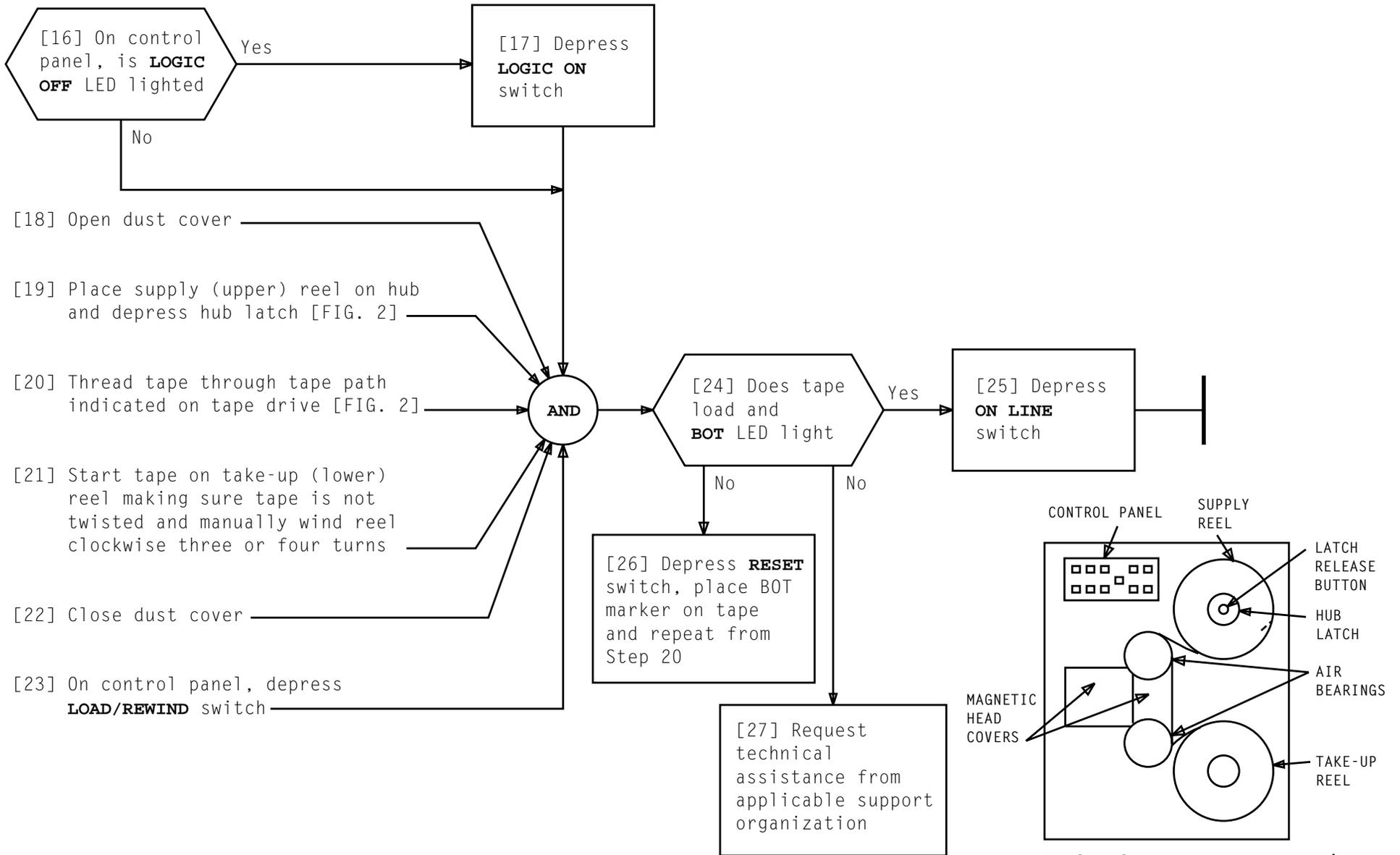
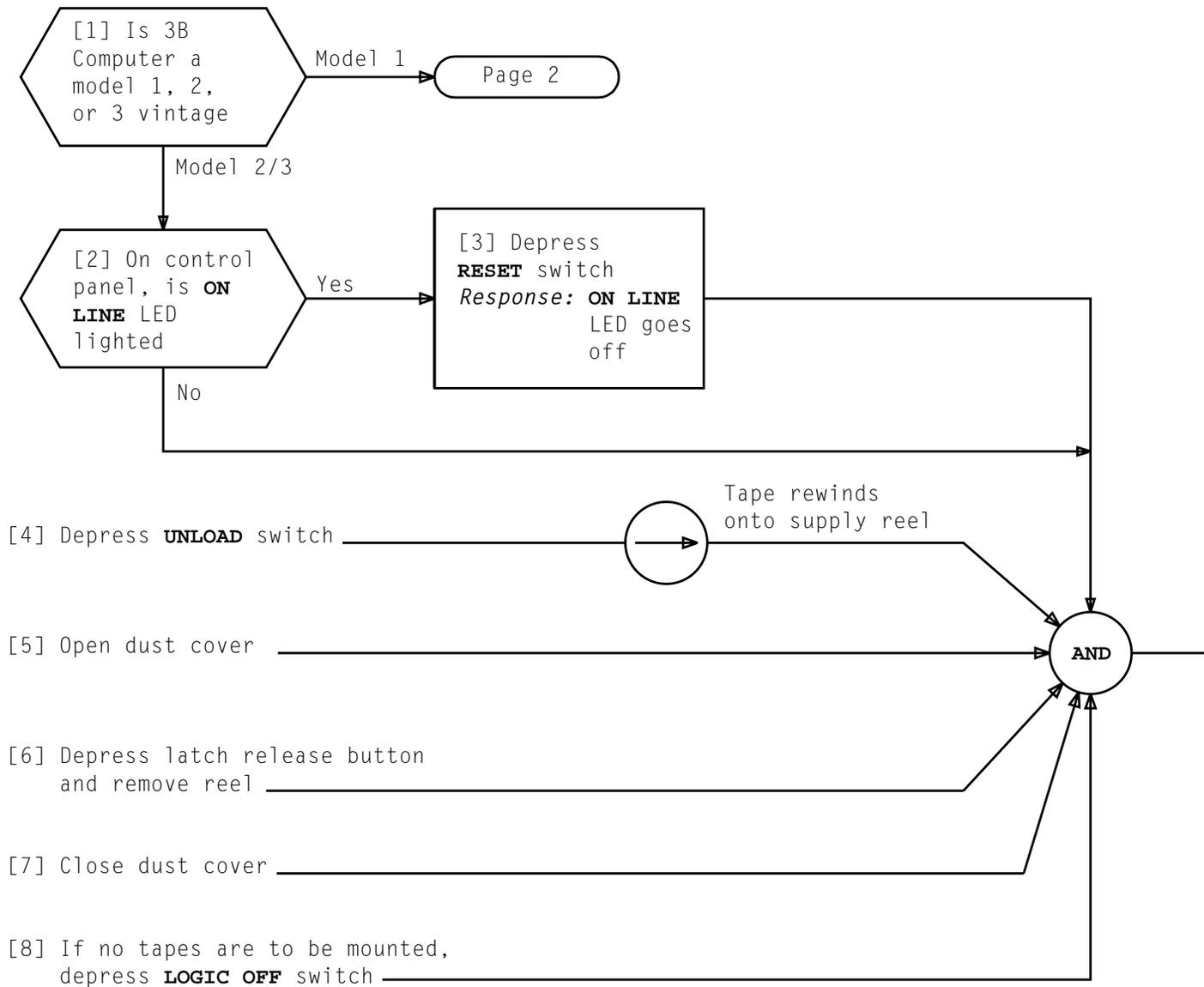


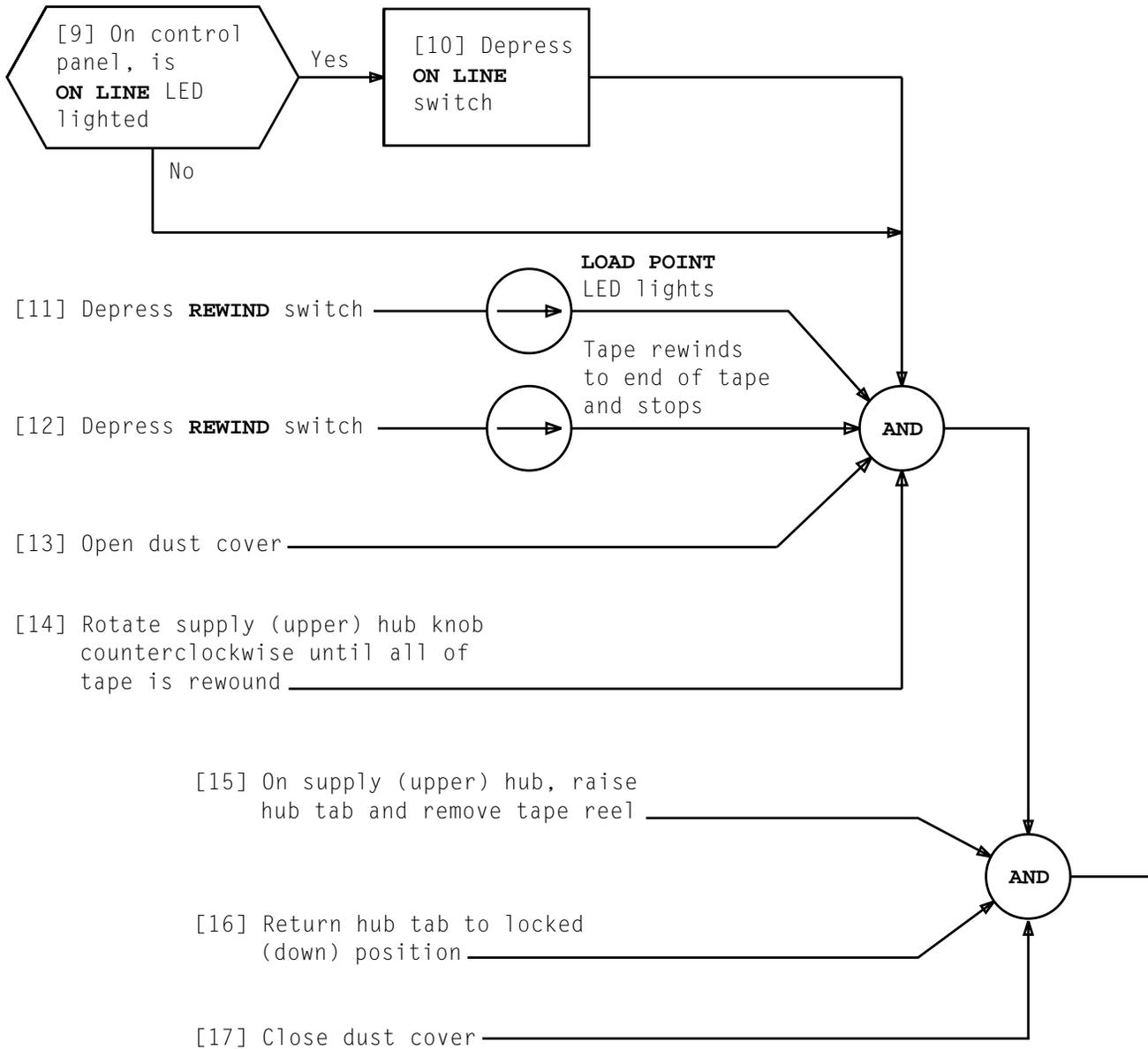
FIG. 2 - 3B Computer Tape Unit

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DEMOUNT 1600 BPI TAPE ON 3B COMPUTER TAPE UNIT

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DEMOUNT 1600 BPI TAPE ON 3B COMPUTER TAPE UNIT

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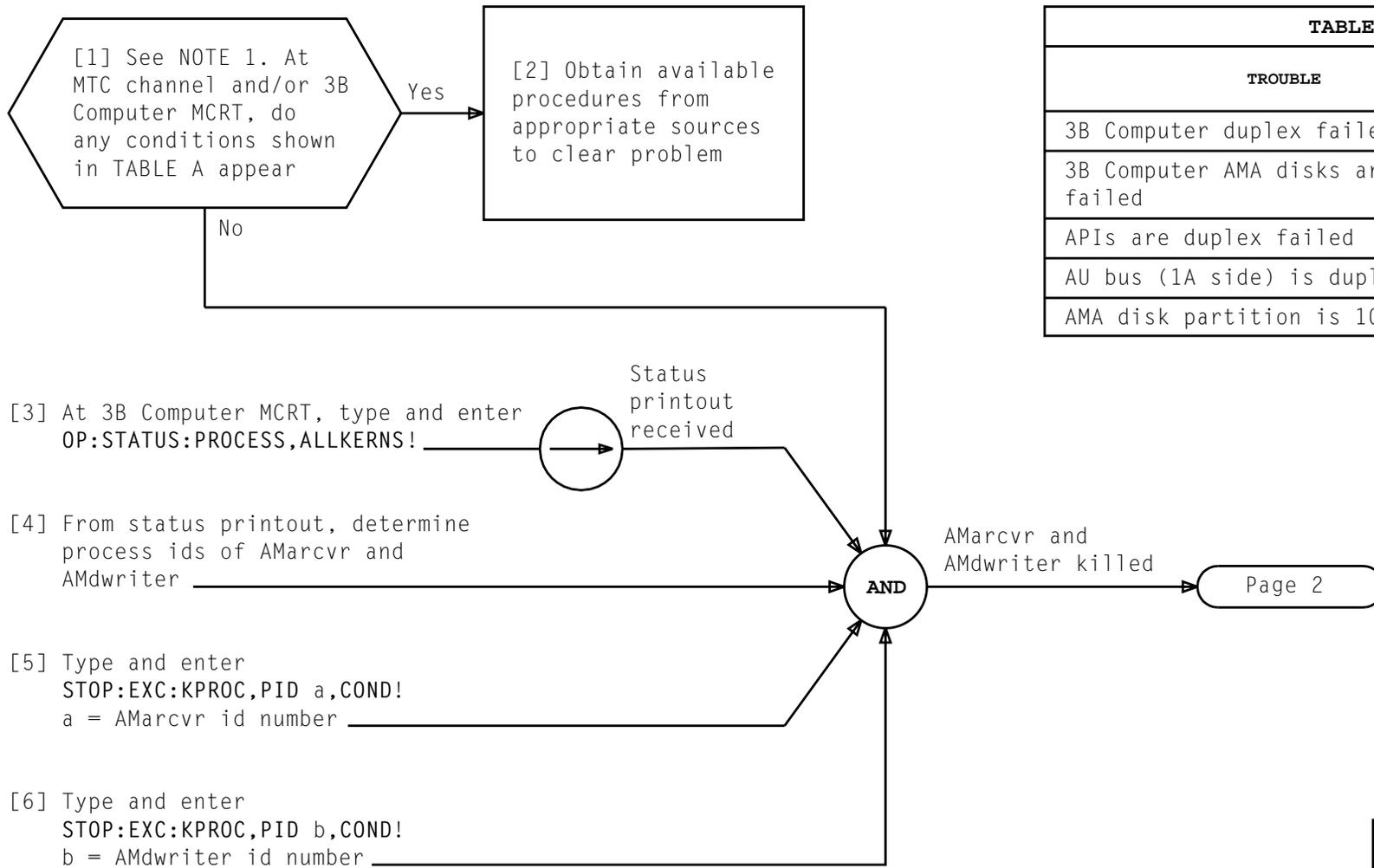
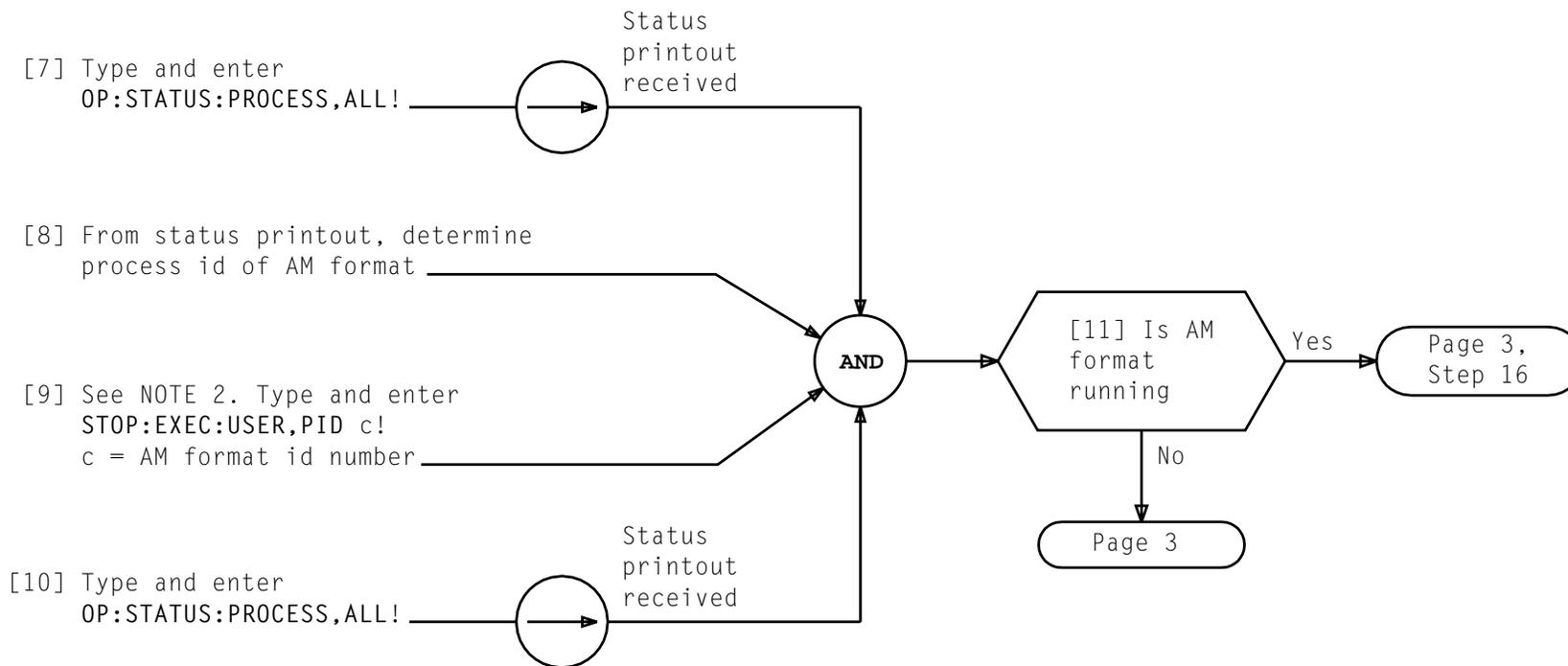


TABLE A	
TROUBLE	RESPONSIBLE AREA
3B Computer duplex failed	3B
3B Computer AMA disks are duplex failed	3B
APIs are duplex failed	3B/1A
AU bus (1A side) is duplex failed	1A
AMA disk partition is 100% full	3B

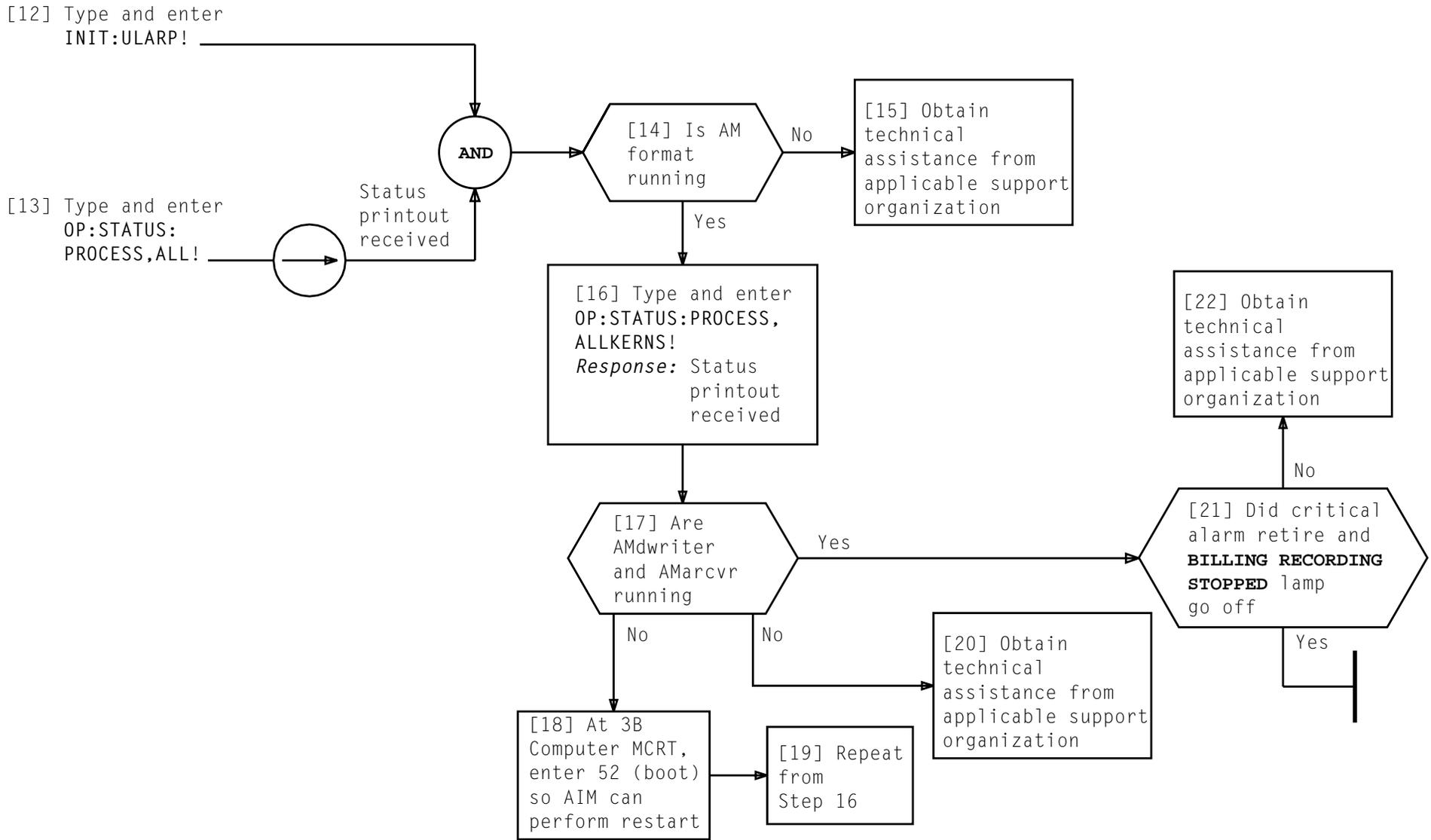
NOTE 1
 When buffer overflow report message appears, there is, at the same time, a critical alarm, and a **BILLING RECORDING** lamp lit on the MCC

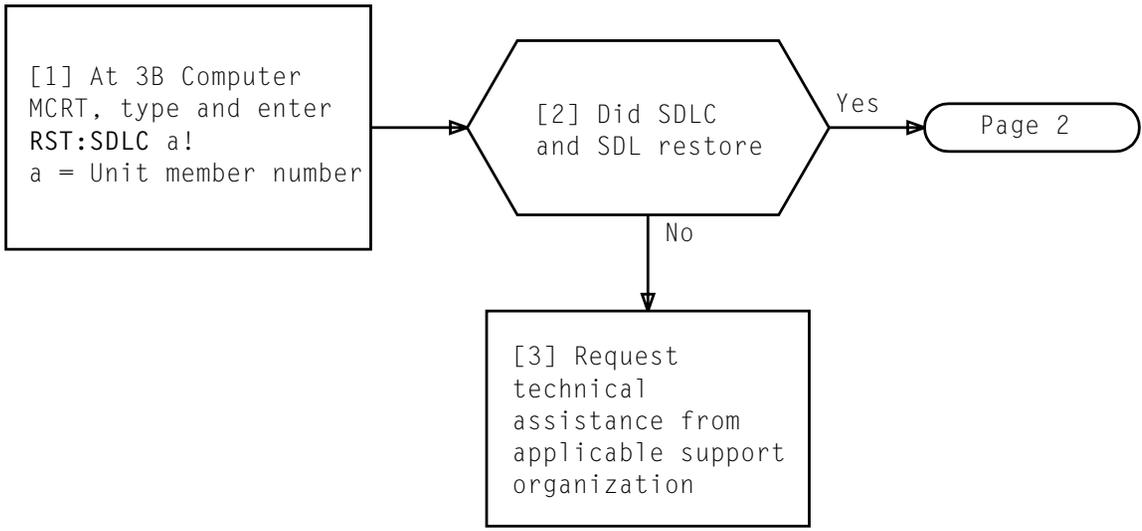
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CORRECT TRANSFER BUFFER OVERFLOW PROBLEM



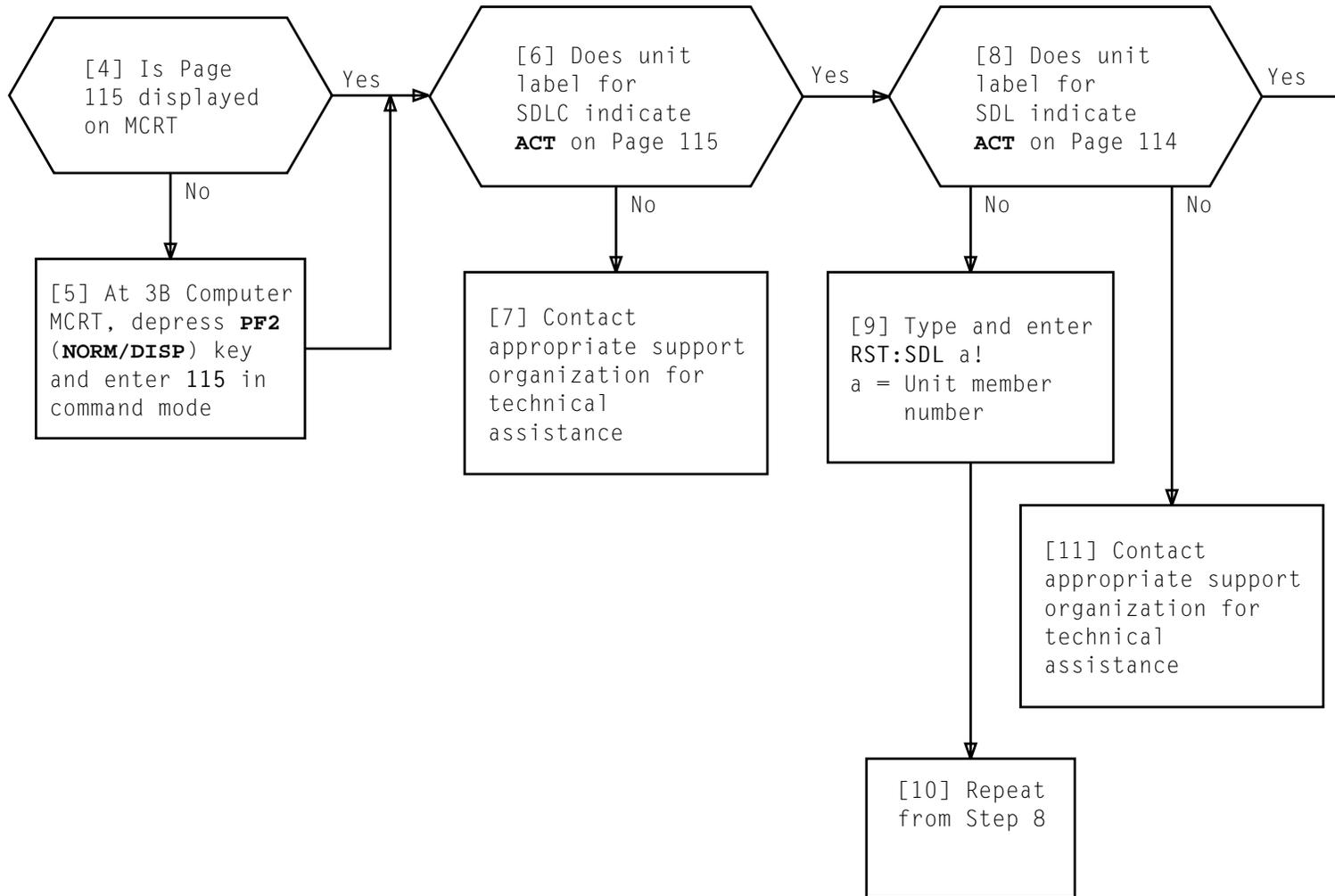
NOTE 2	
When AM format is killed, it is automatically restarted if conditions are normal	
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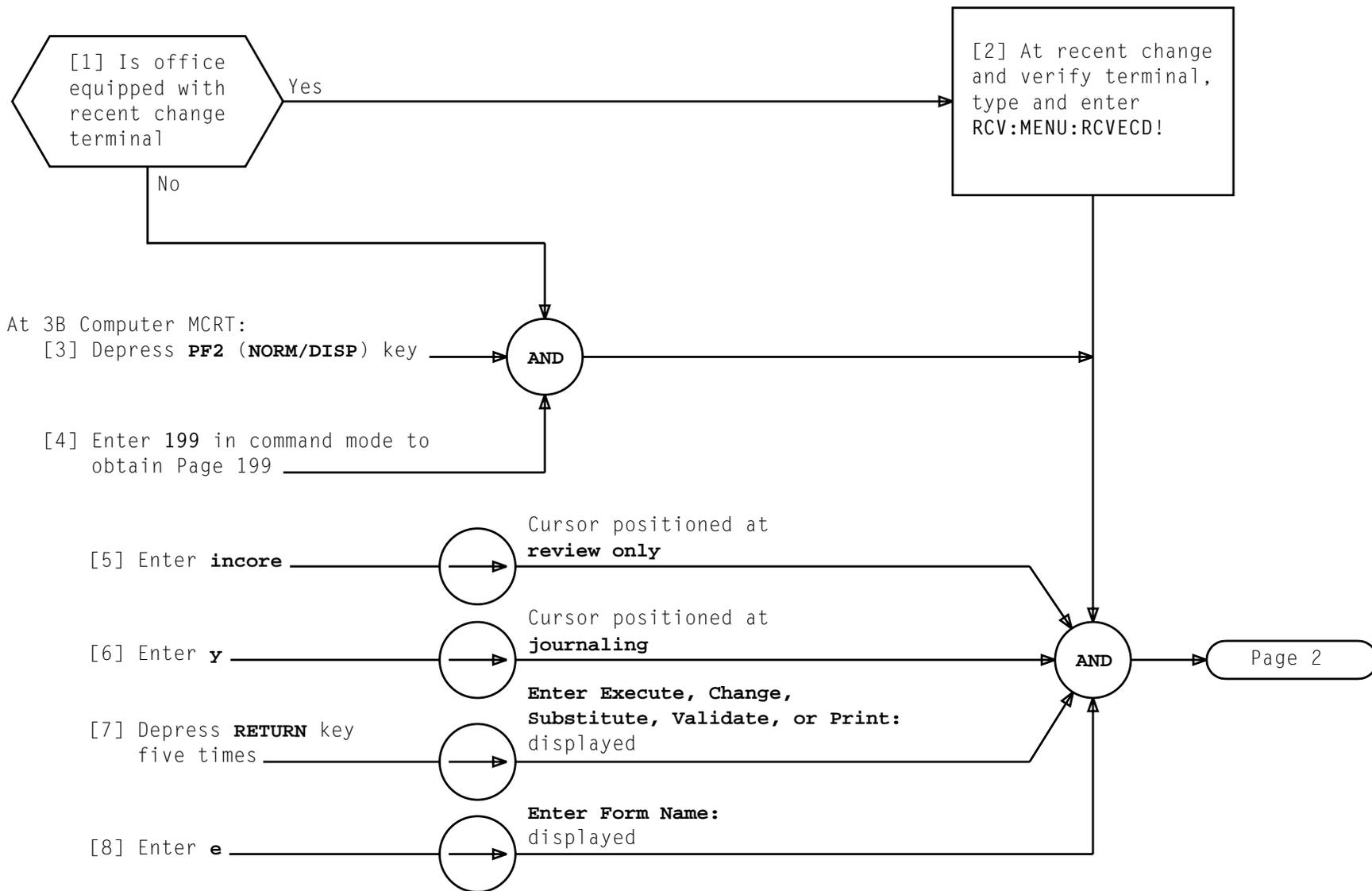




RESTORE SDLC AND SDL

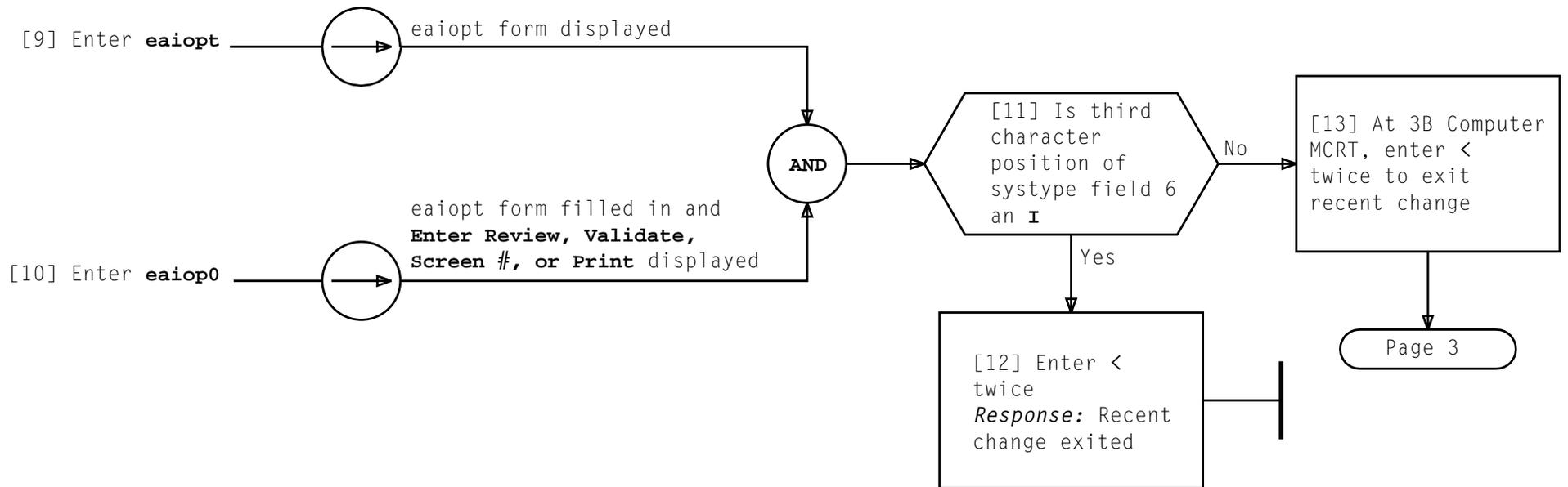
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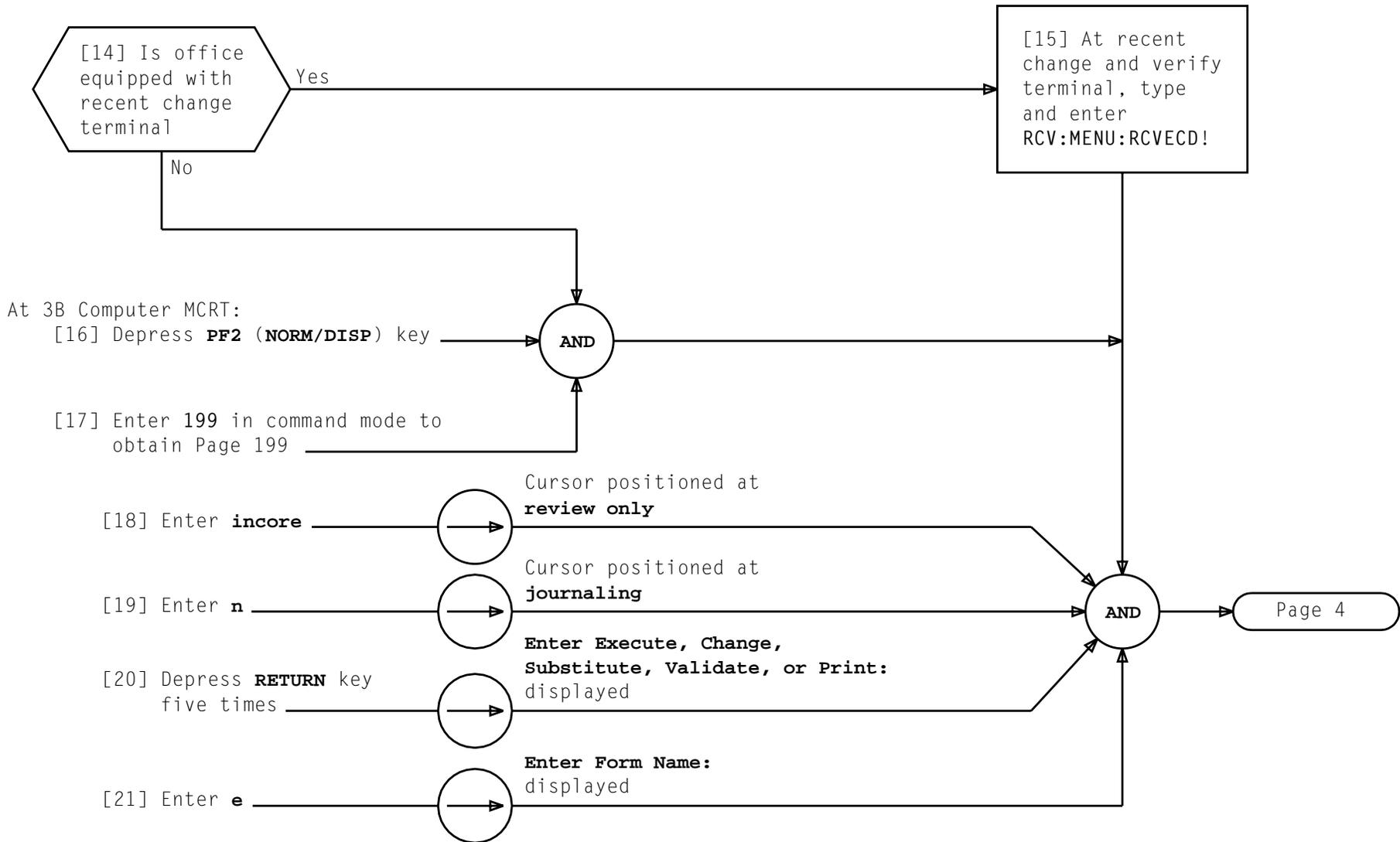


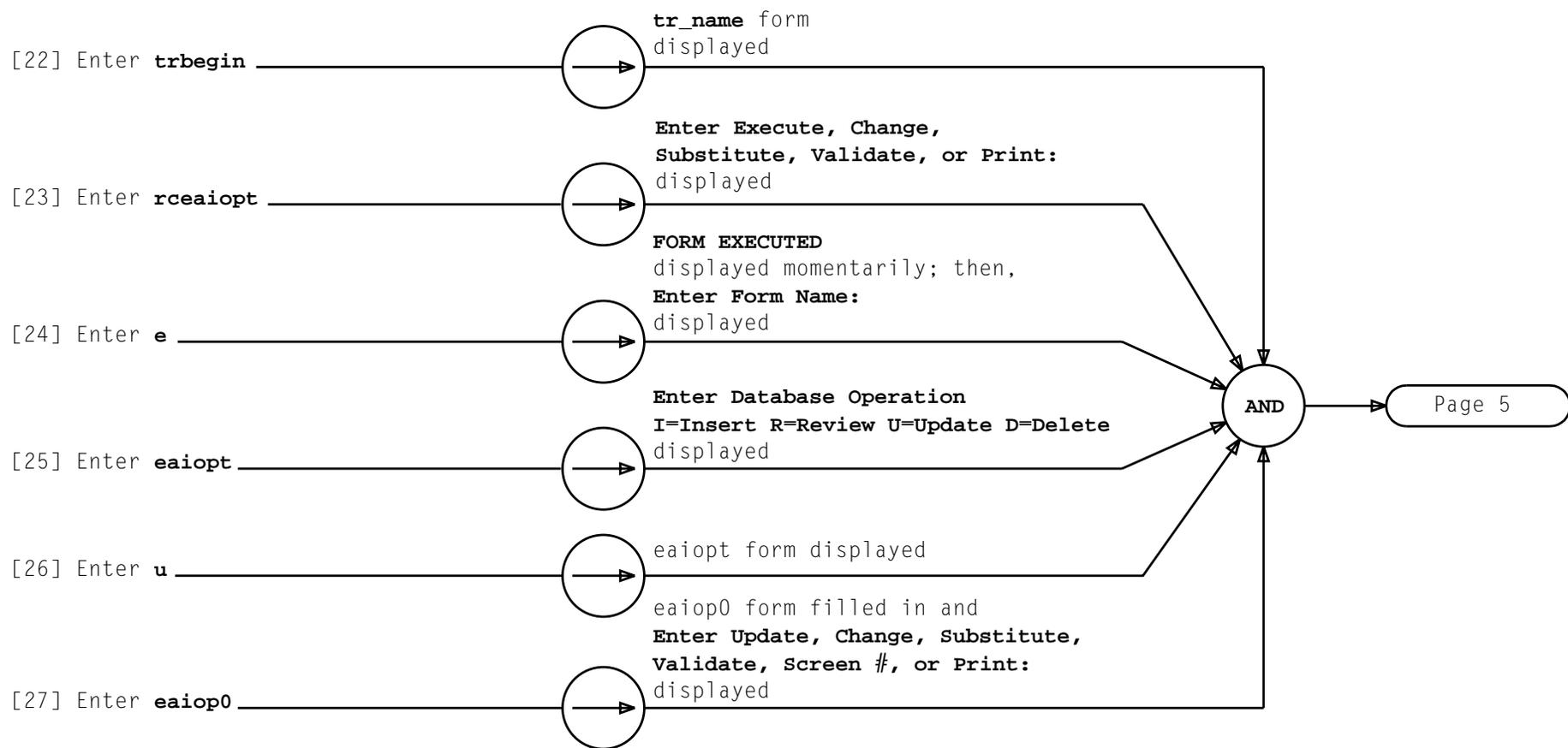


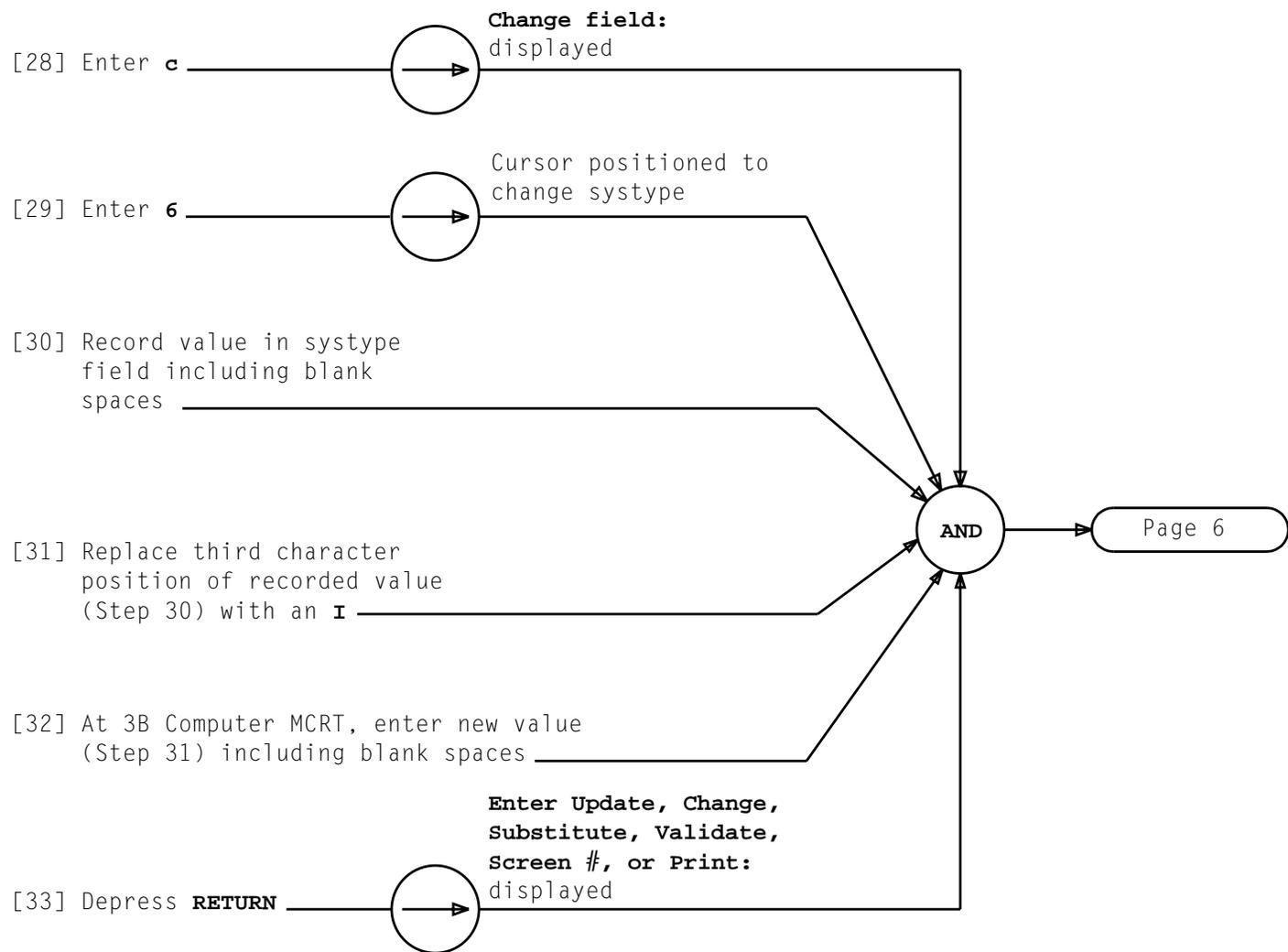
VERIFY SYSTYPE FIELD DATA

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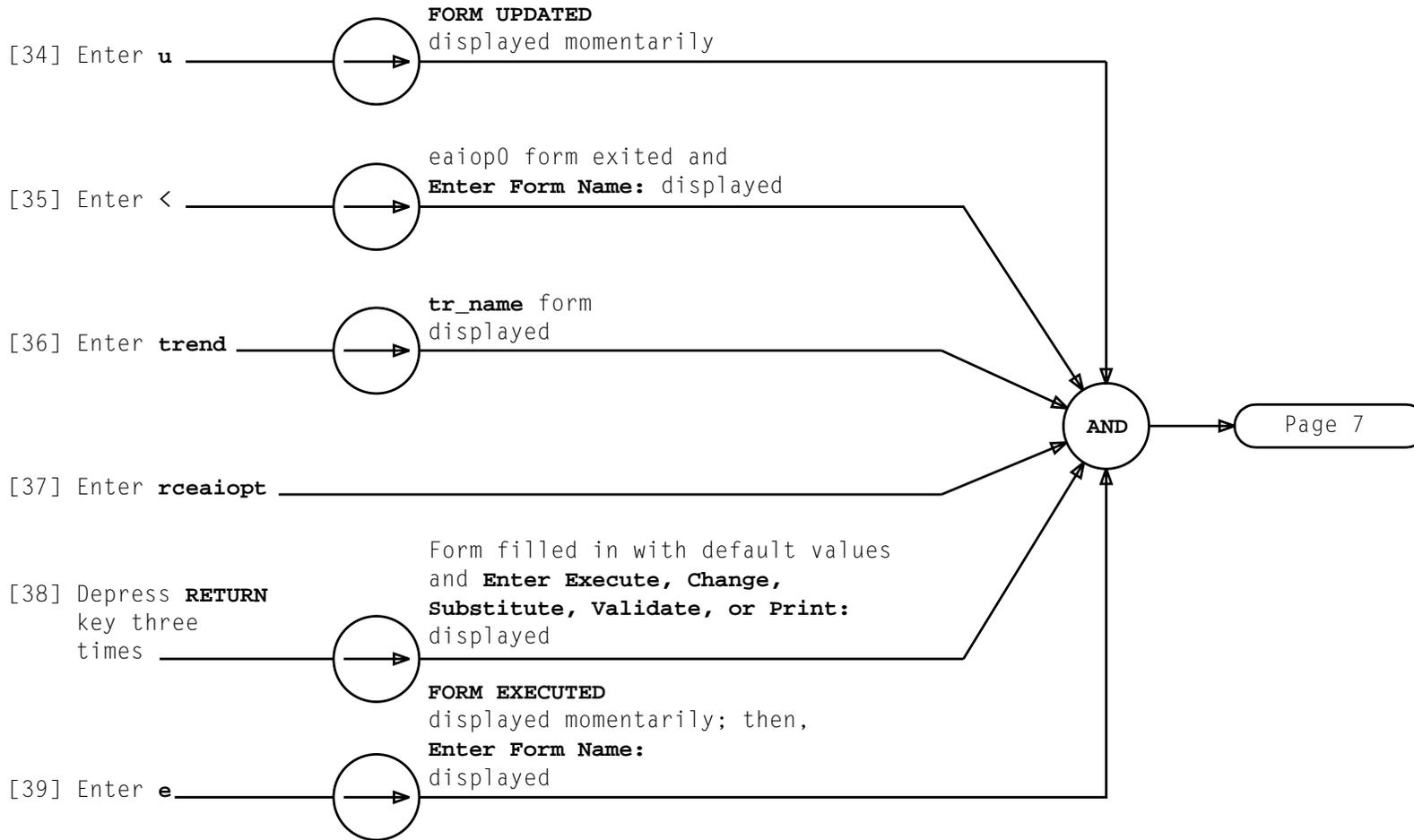


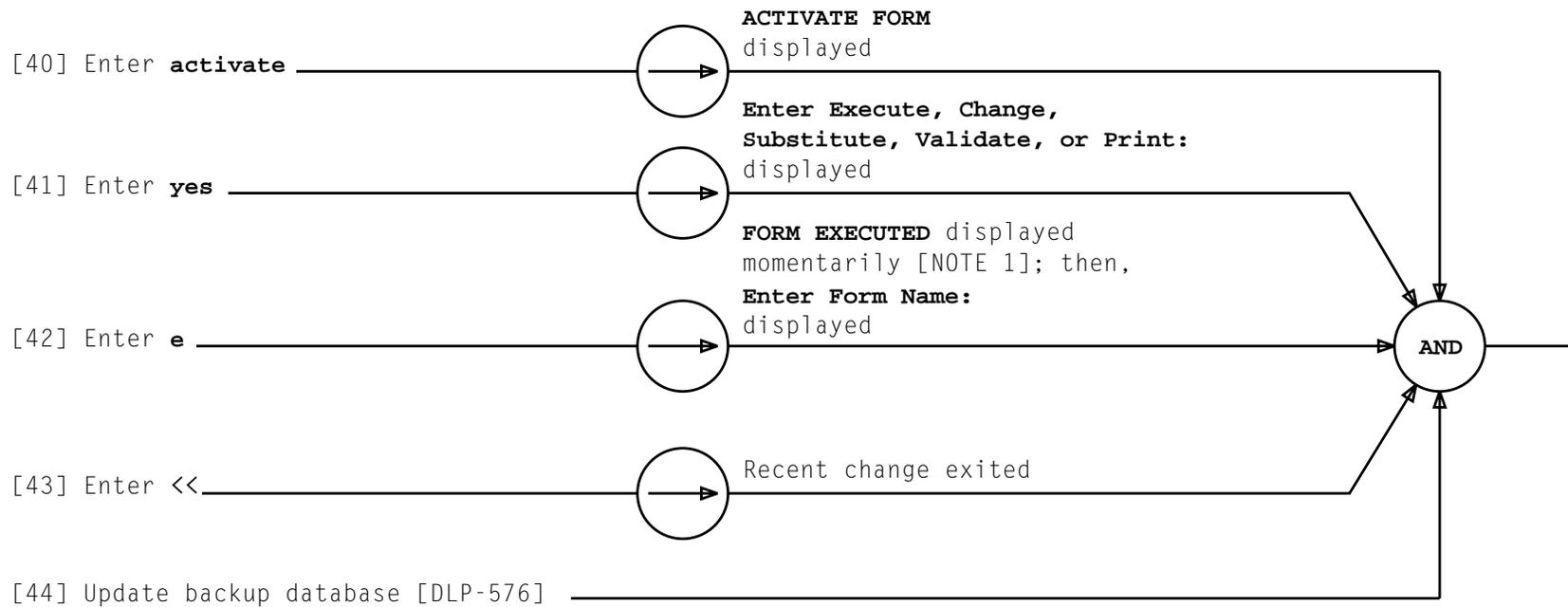




VERIFY SYSTYPE FIELD DATA

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NOTE 1	
It may take several minutes before FORM EXECUTED is displayed	
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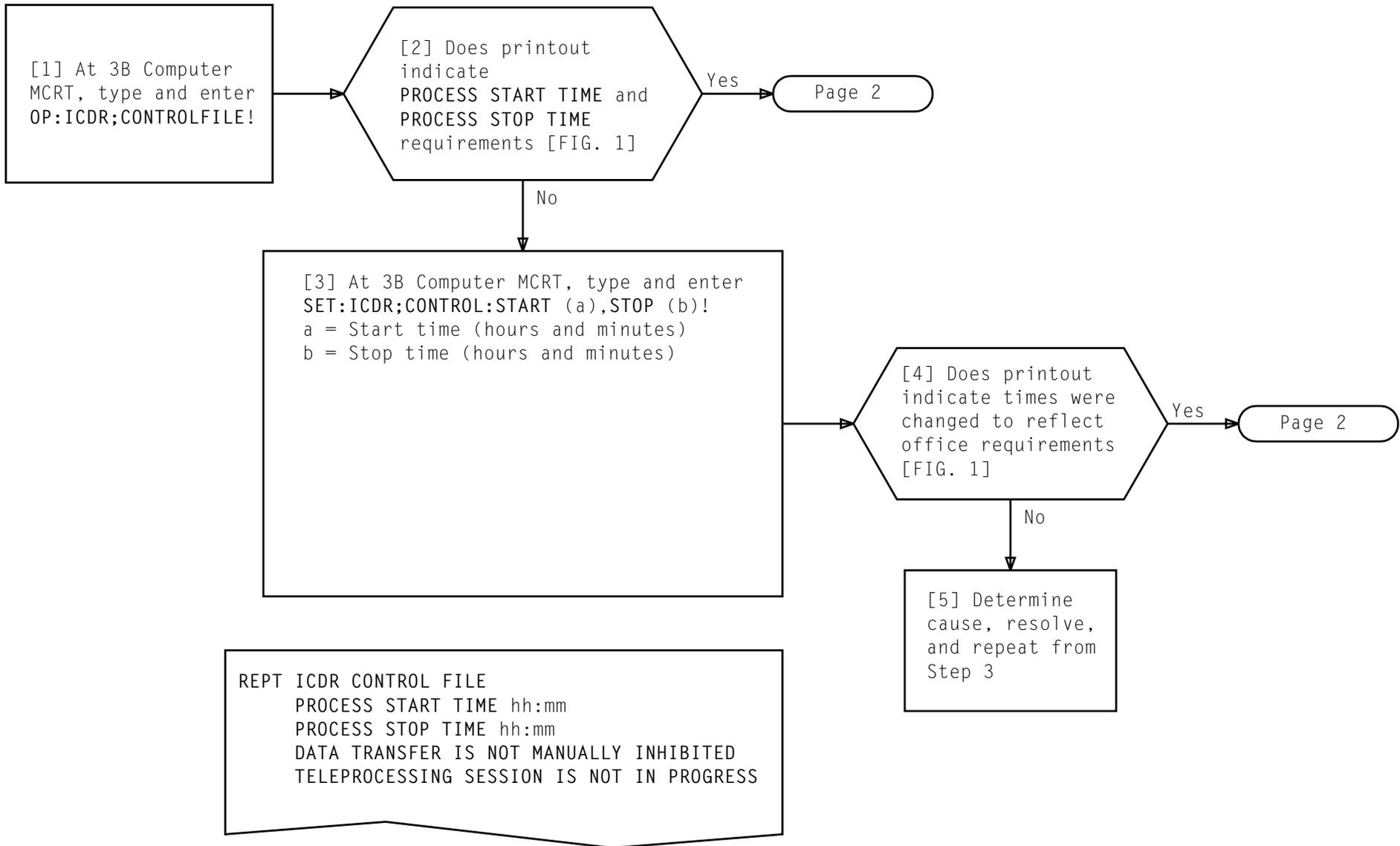
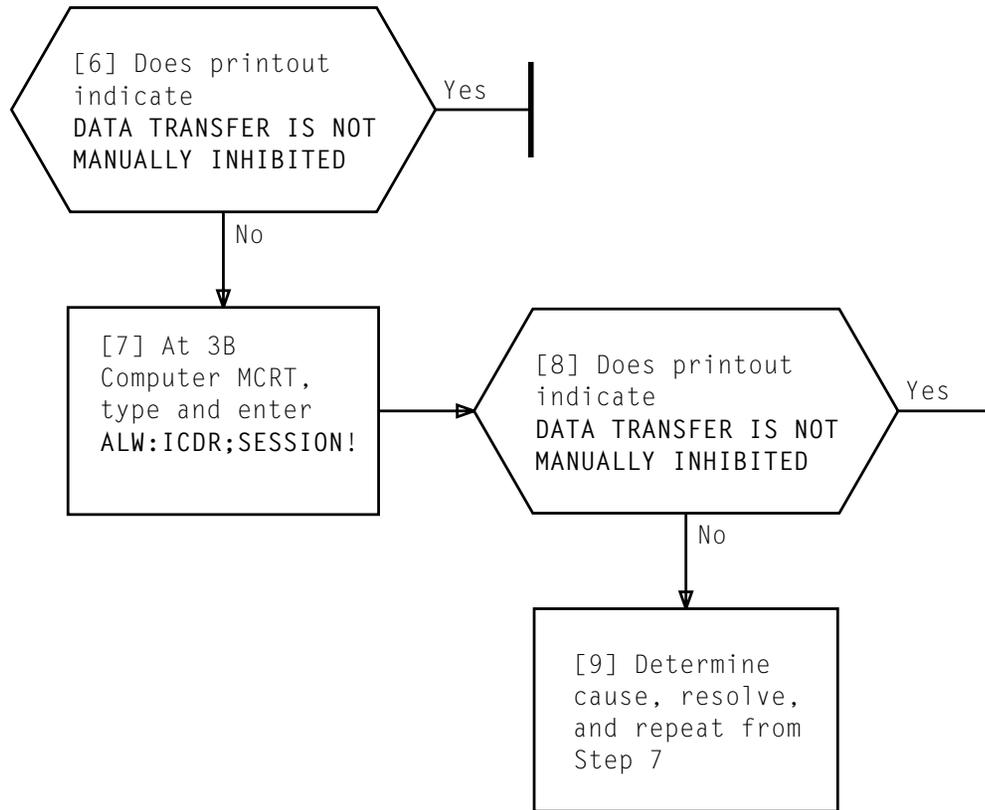
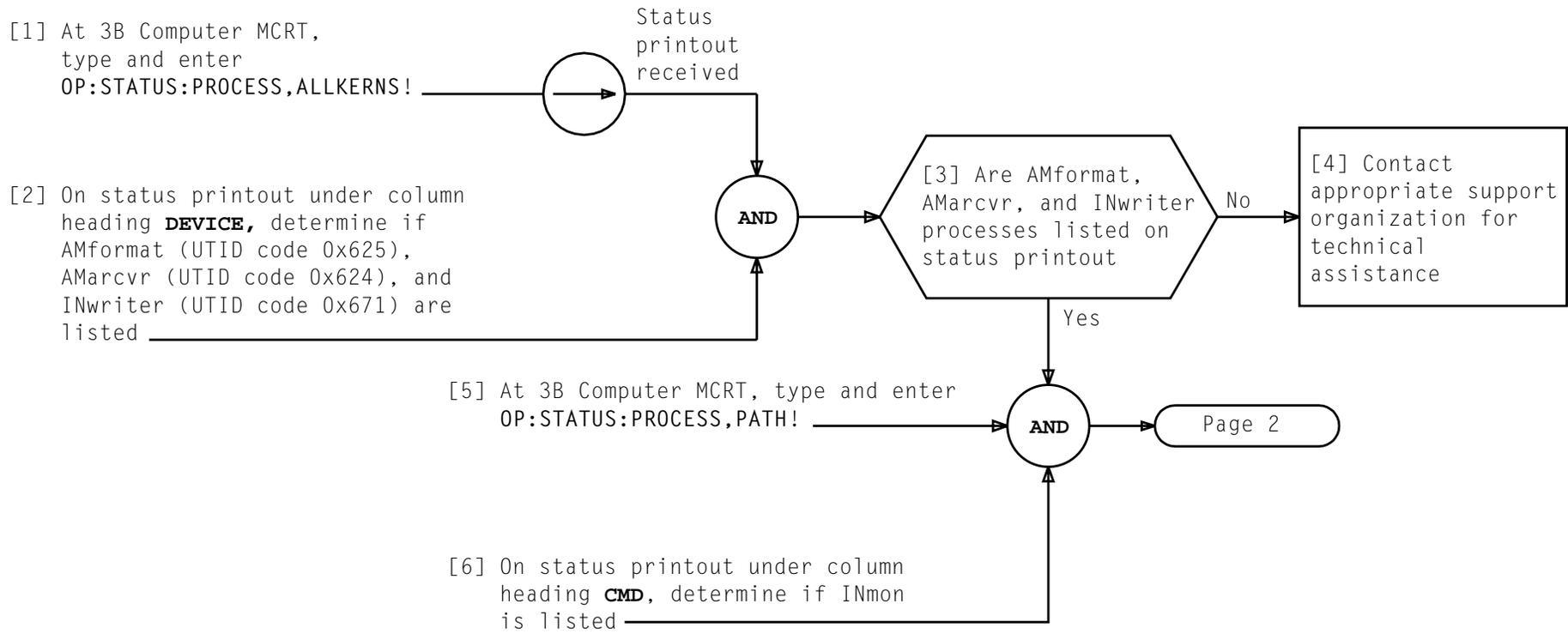


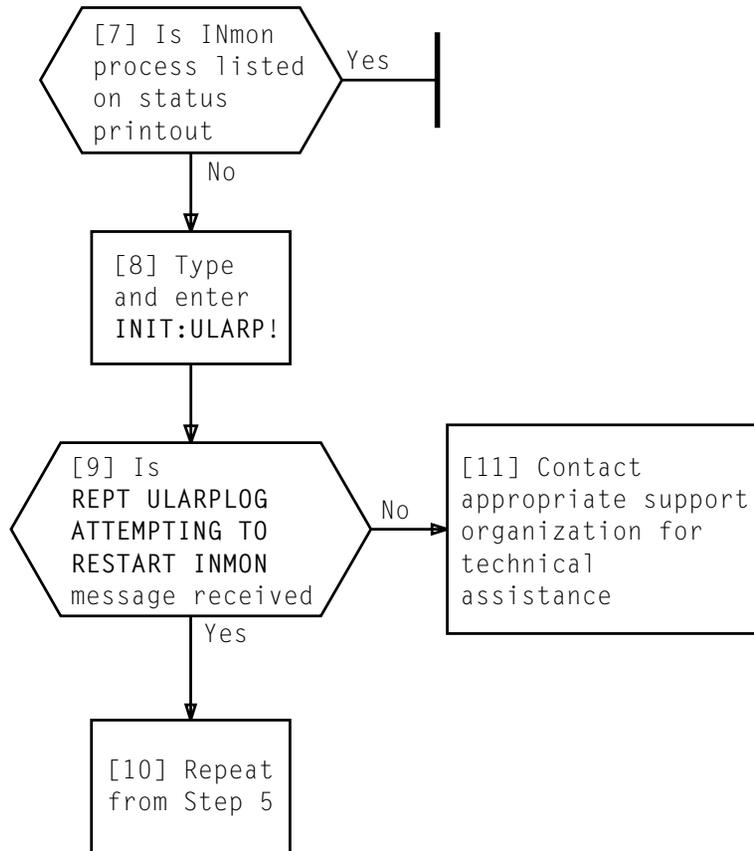
FIG. 1 - Sample Printout of ICDR Control File Status



VERIFY ICDR CONTROL FILE PARAMETERS

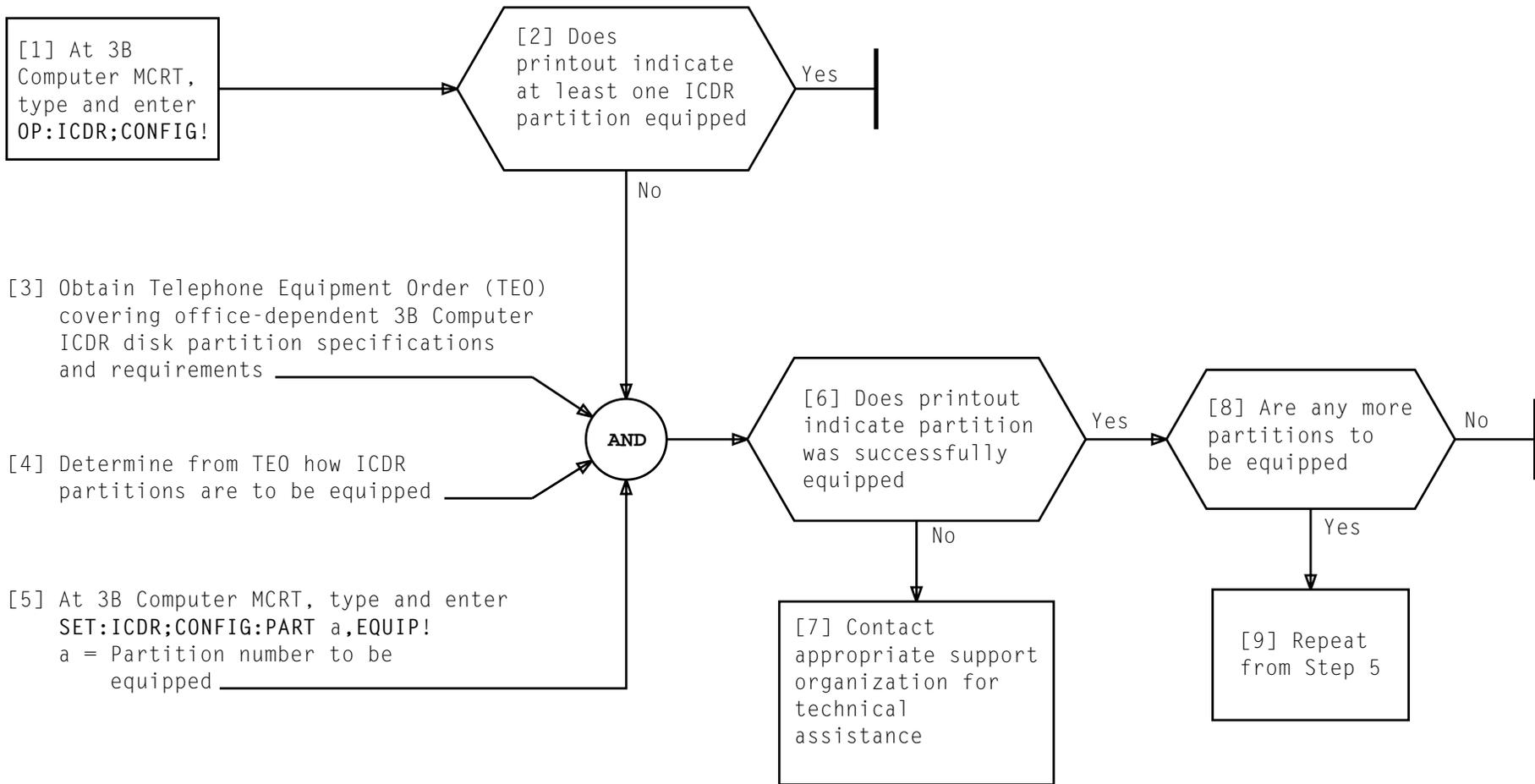
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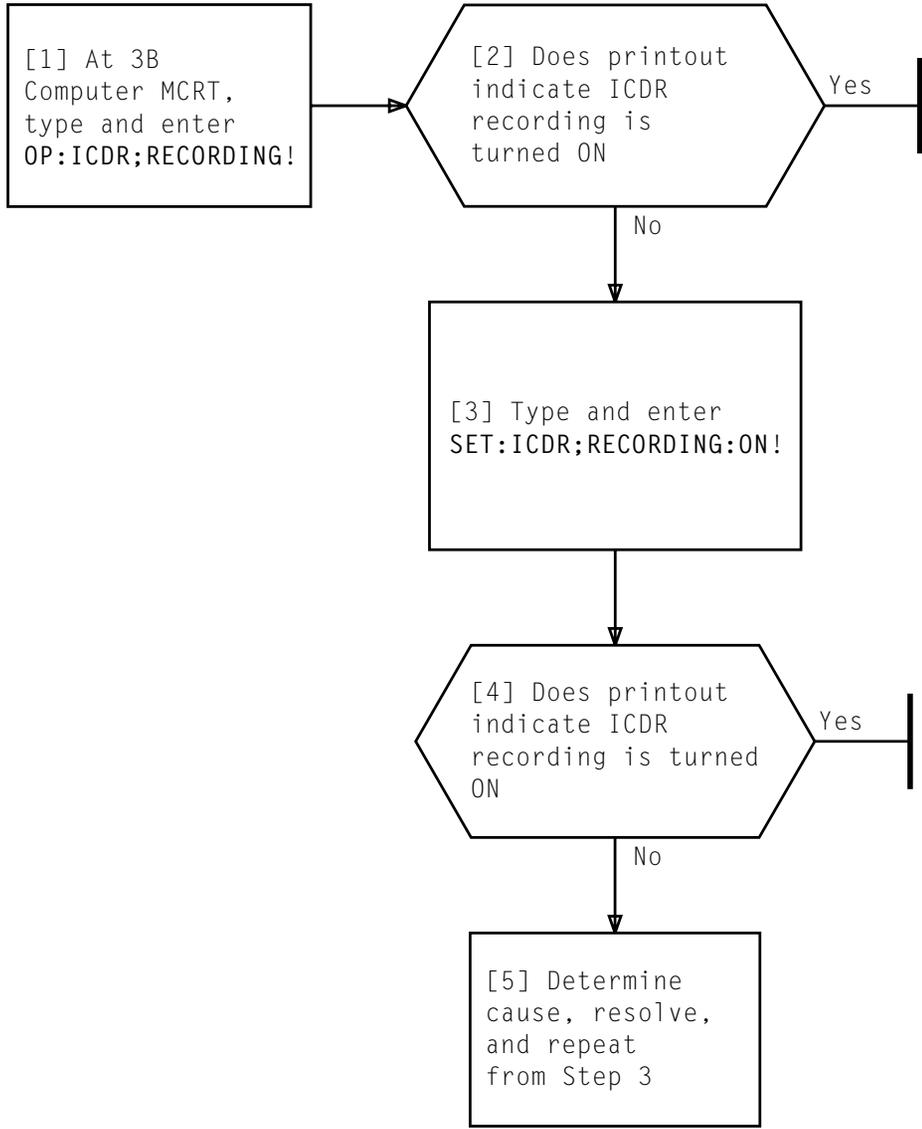




VERIFY ICDR PROCESSES RUNNING

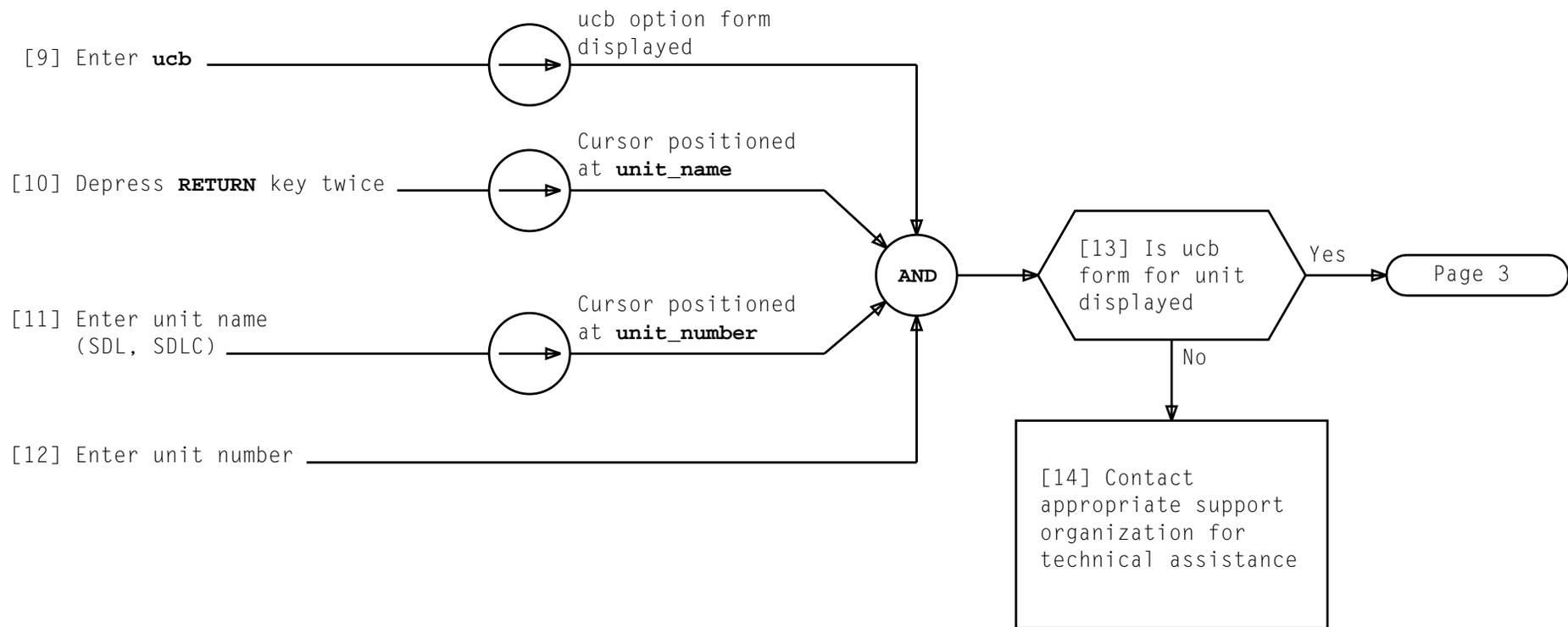
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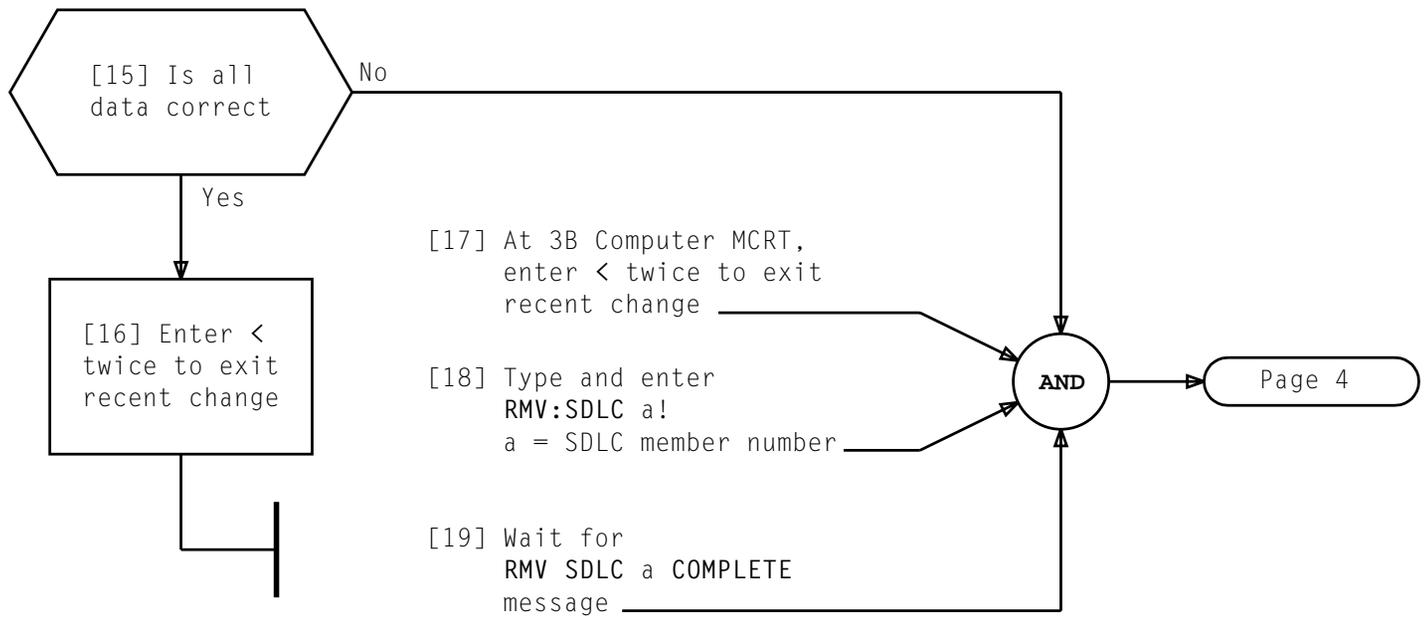


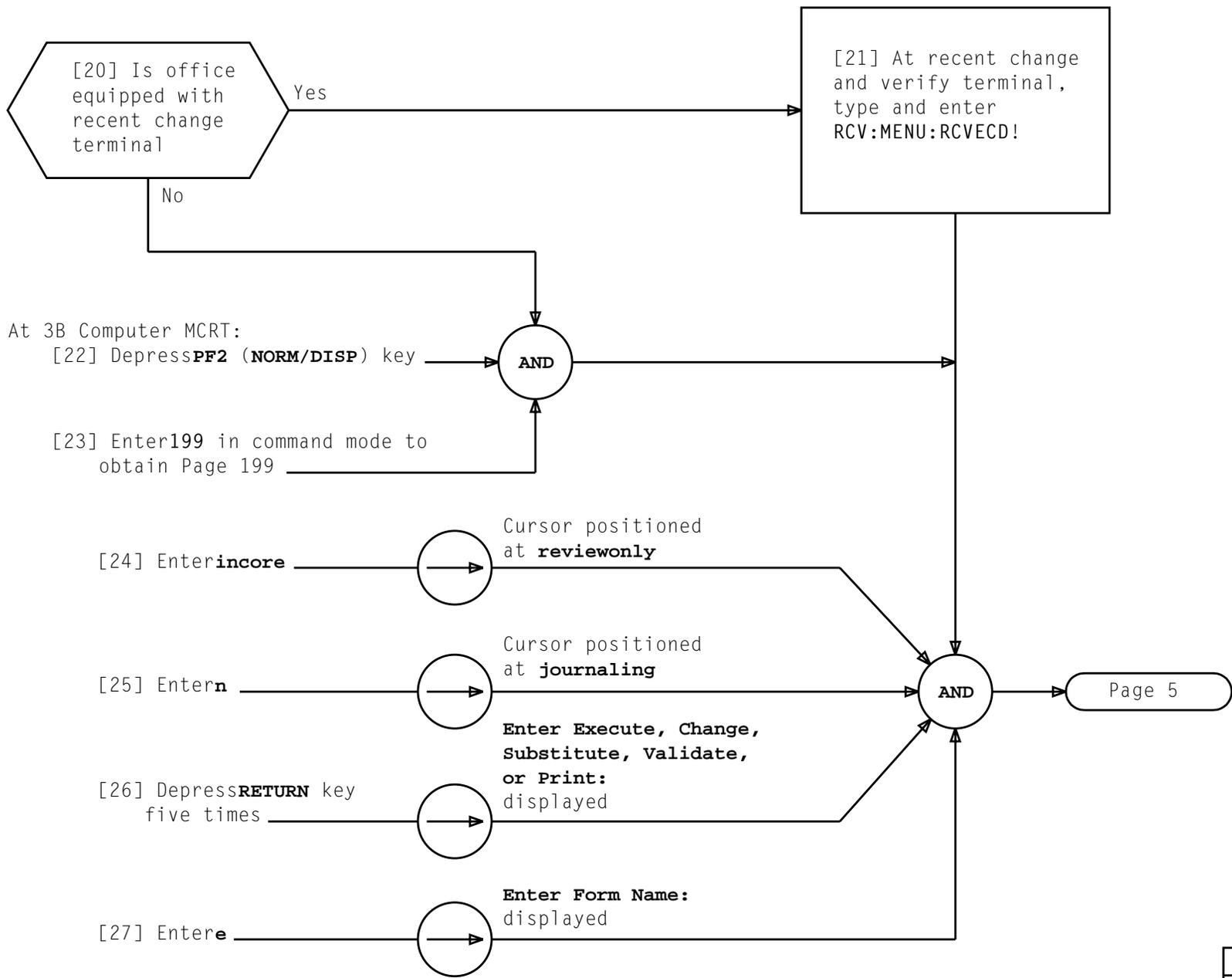


VERIFY ICDR RECORDING IS TURNED ON AT 3B COMPUTER

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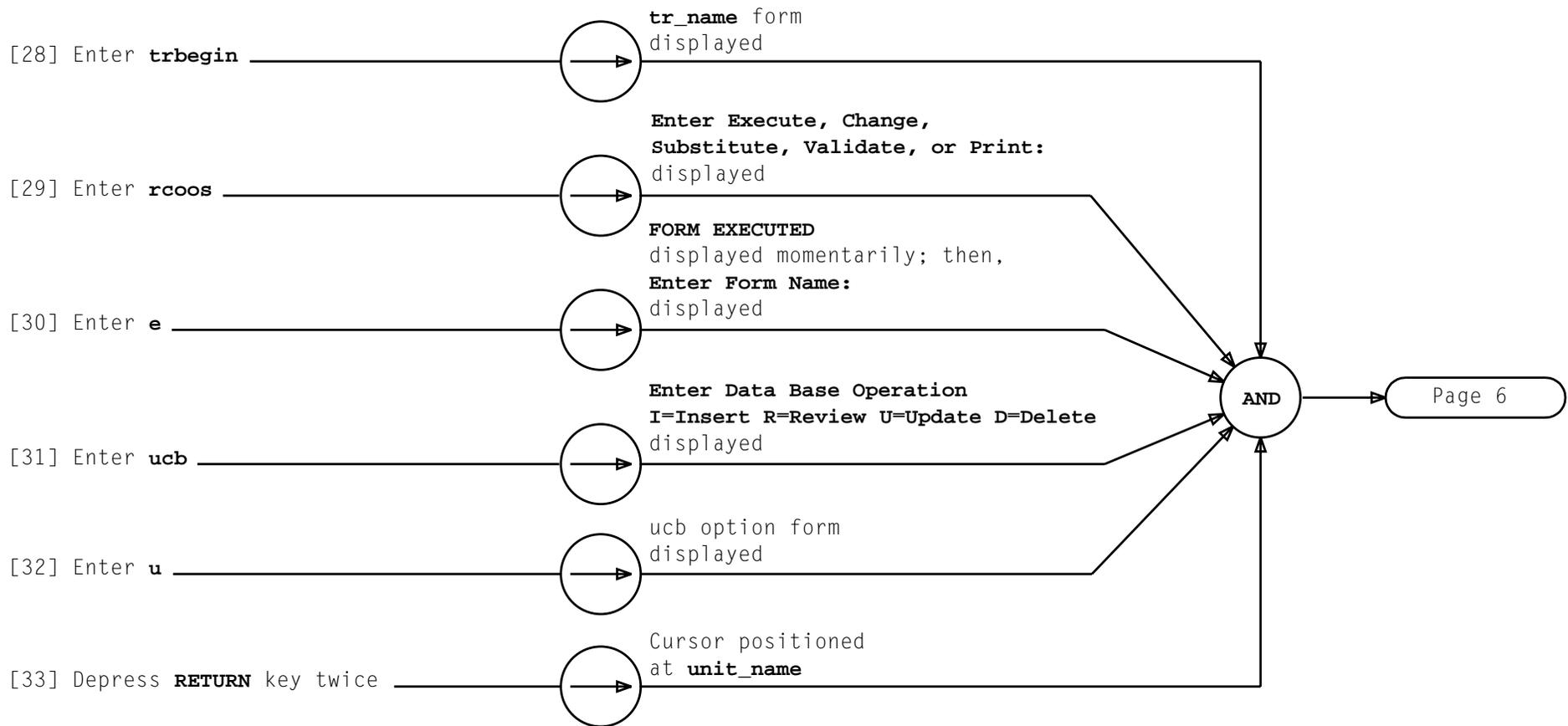






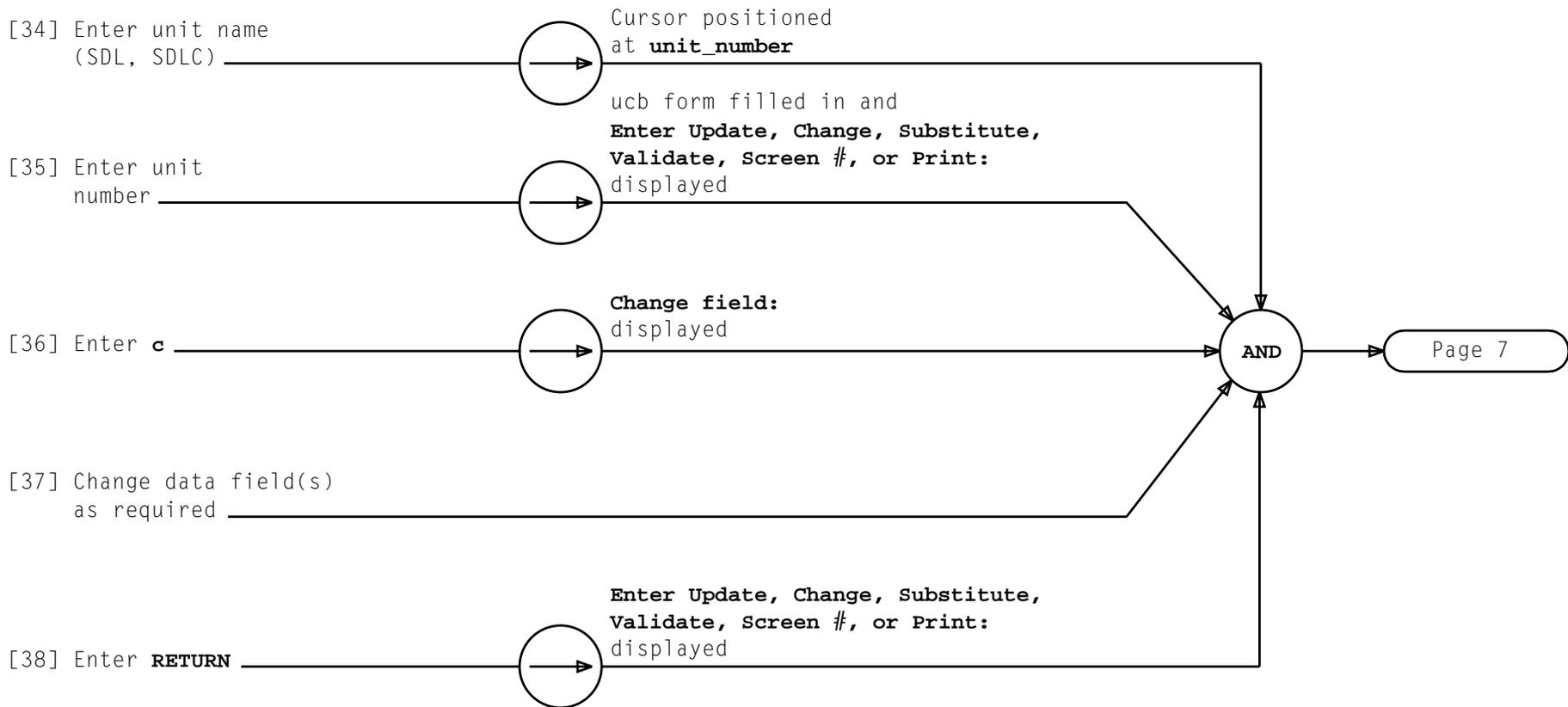
VERIFY UNIT CONTROL BLOCK (UCB) DATA

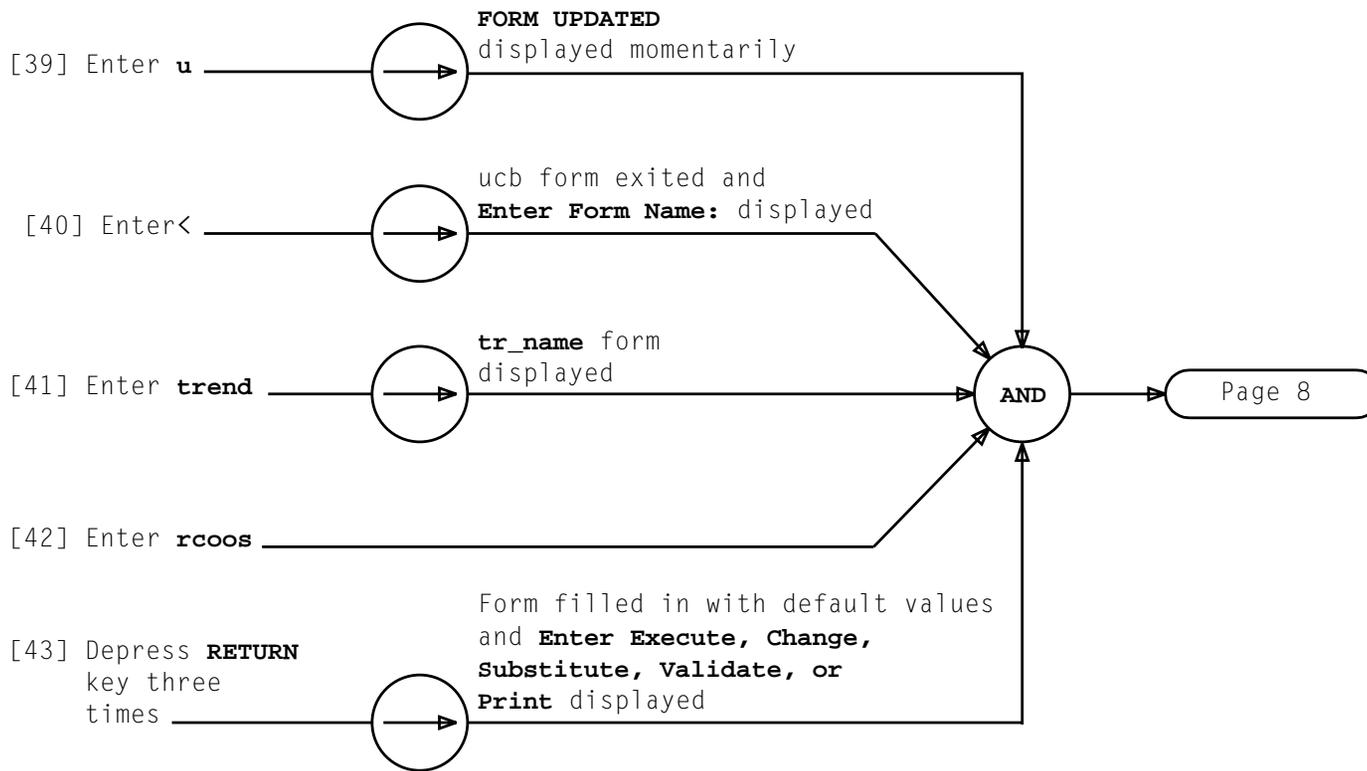
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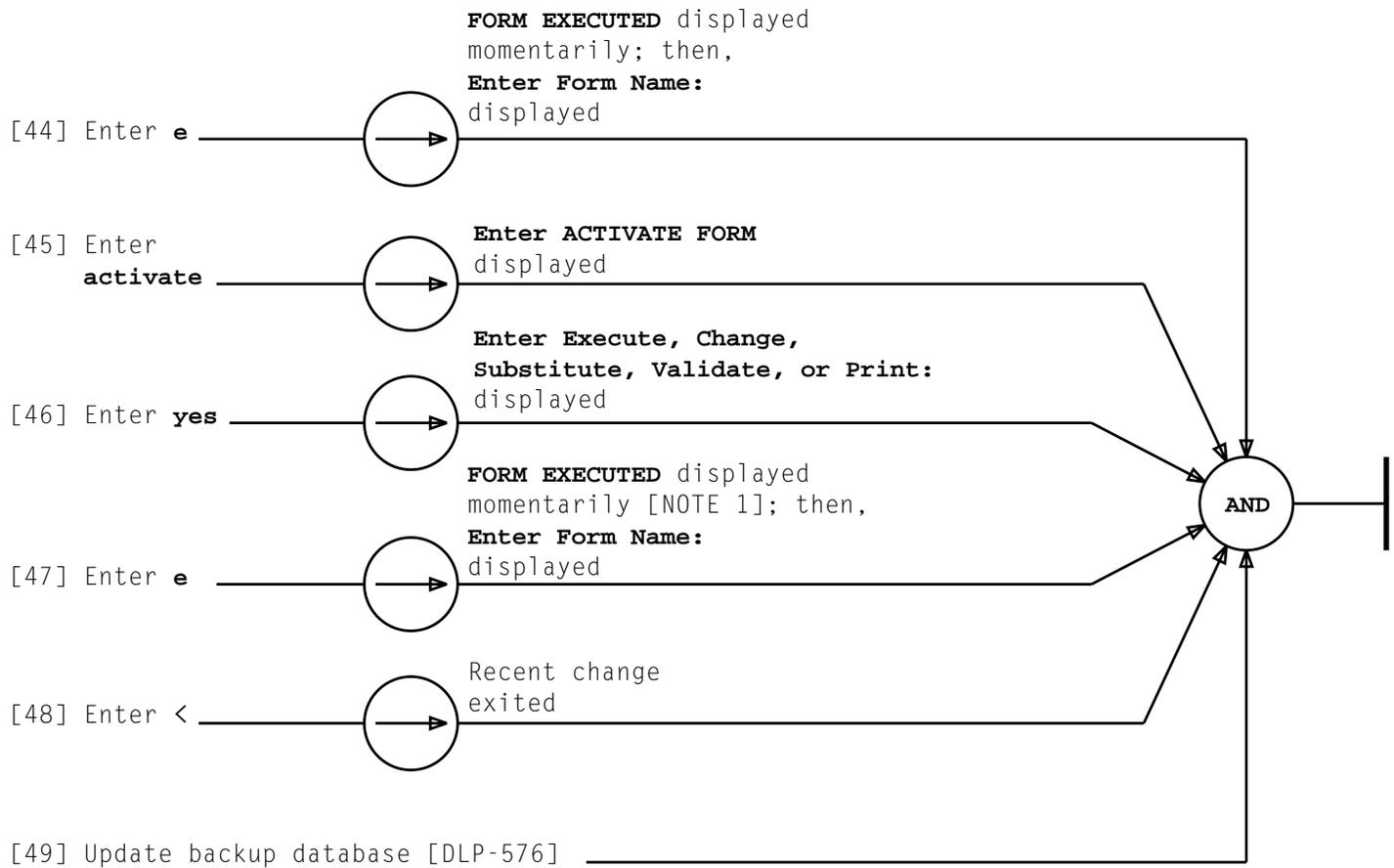


VERIFY UNIT CONTROL BLOCK (UCB) DATA

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NOTE 1	
It may take several minutes before FORM EXECUTED is displayed	
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At 3B Computer MCRT:

[1] Depress **PF1 (EA DISP)** key
to display EAI page

[2] Depress **PF3 (CMD/MSG)** key
to enter command mode

[3] Enter **42** in command mode to
obtain the application
parameter prompt

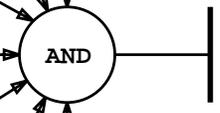
[4] Enter **I** to restart dead
processes

[5] Enter **50** to initialize
application

[6] Type and enter
OP:STATUS:PROCESS,ALLKERNS!

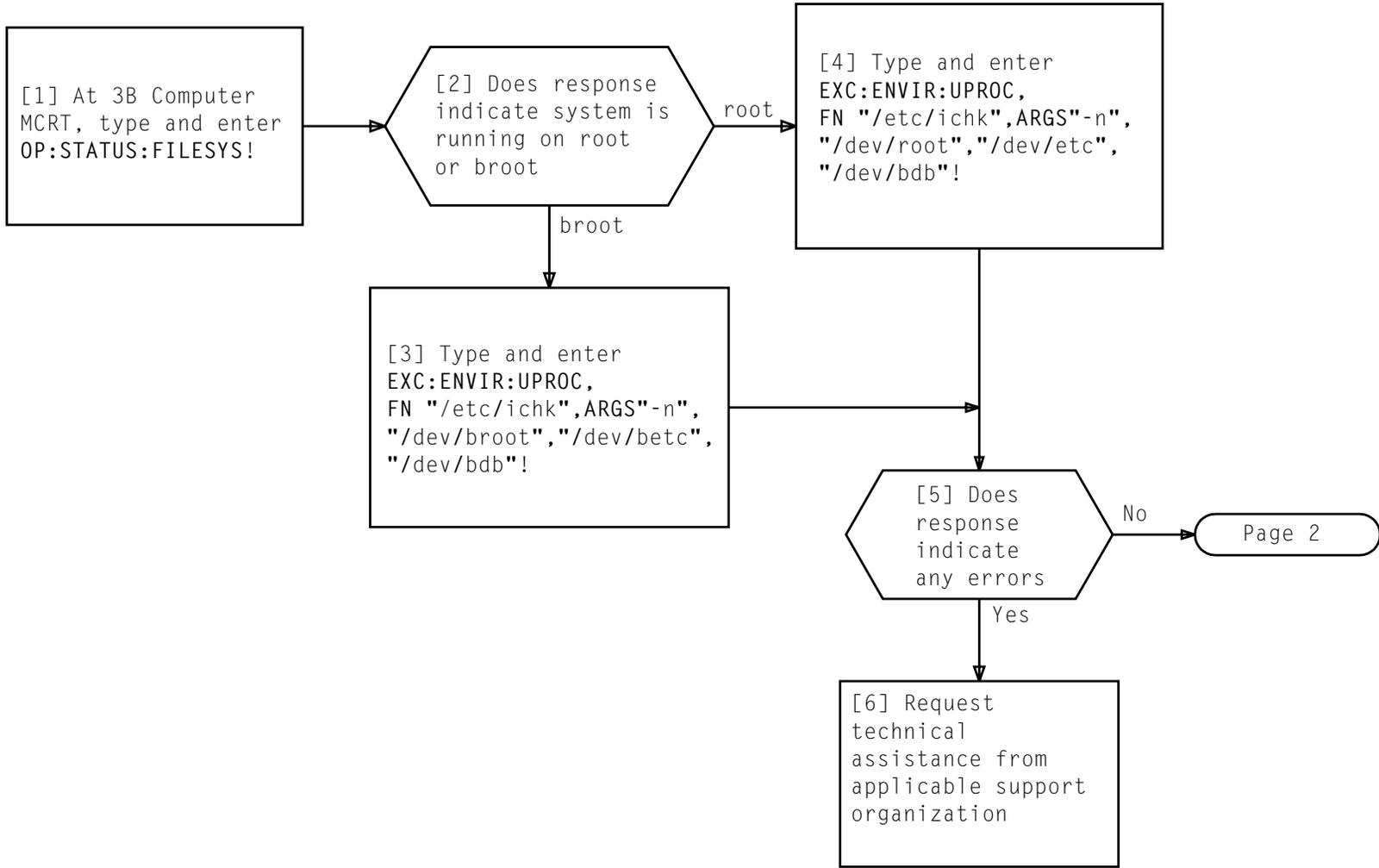
Status
printout
received

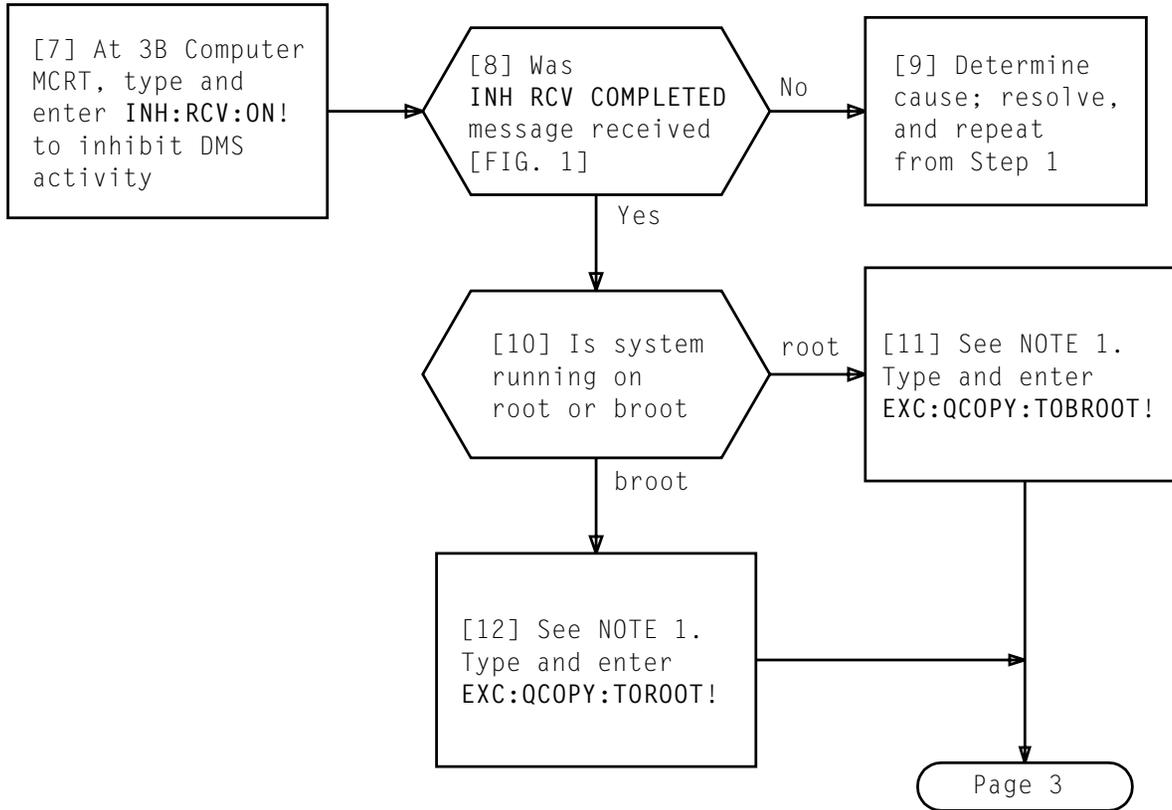
[7] Verify that previously nonrunning
processes are now active



RESTART 3B COMPUTER PROCESSES

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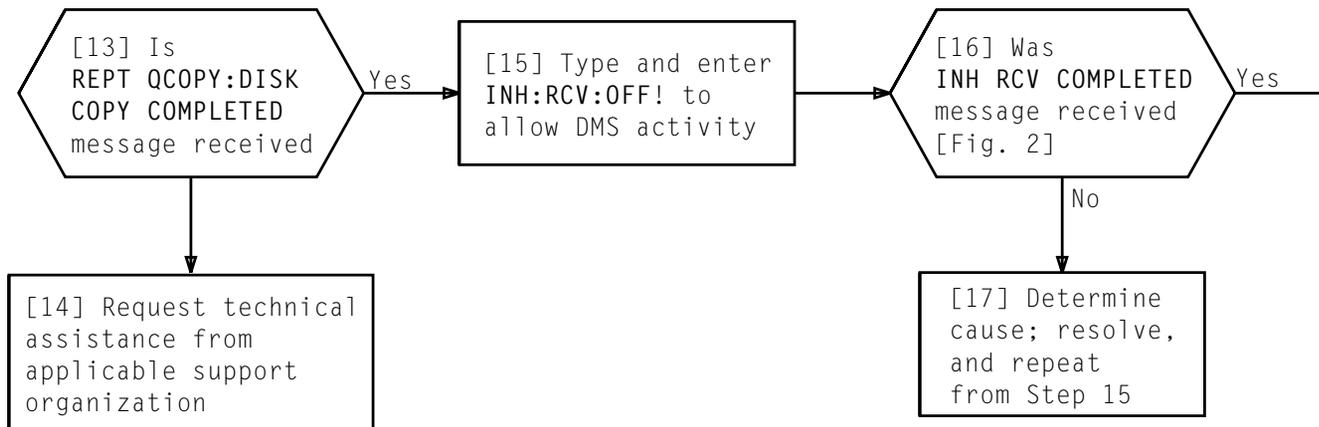


```

INH RCV COMPLETED
4ESS INH RCV COMPL
RECENT CHANE INHIBIT ON
  
```

FIG. 1 - Sample Printout of Output Messages Indicating RC Inhibit Is On

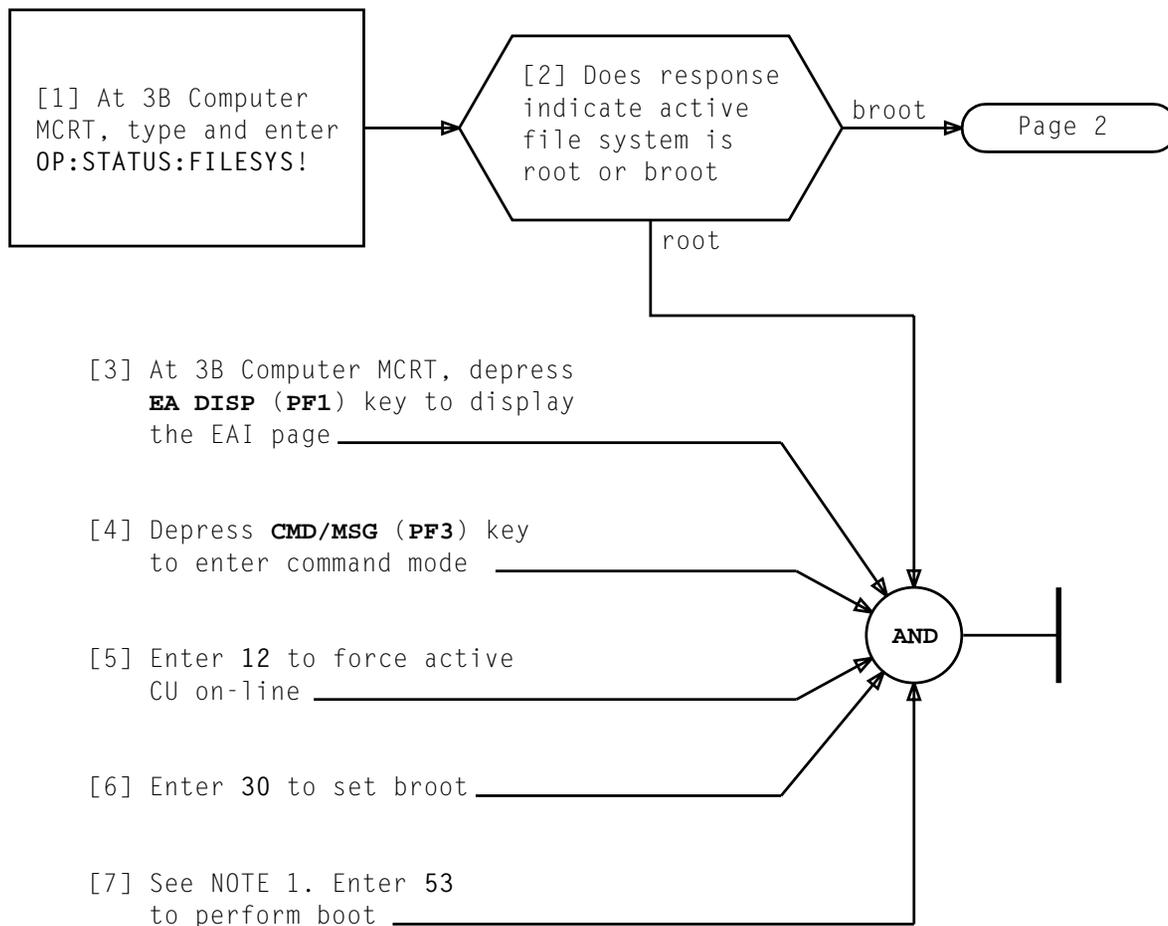
NOTE 1	
This command requires several minutes to complete	
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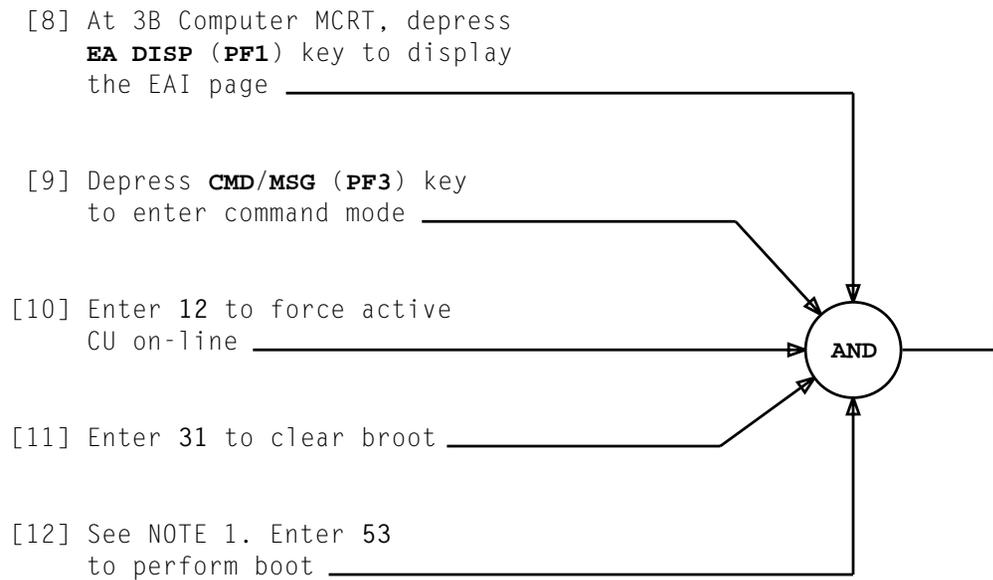
```

INH RCV COMPLETED
4ESS INH RCV COMPL
RECENT CHANGE INHIBIT OFF
  
```

FIG. 2 - Sample Printout of Output Message Indicating RC Inhibit Is OFF



NOTE 1	
A 53 boot takes approximately 63 seconds to complete	
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[1] Select available
3B Computer tape unit

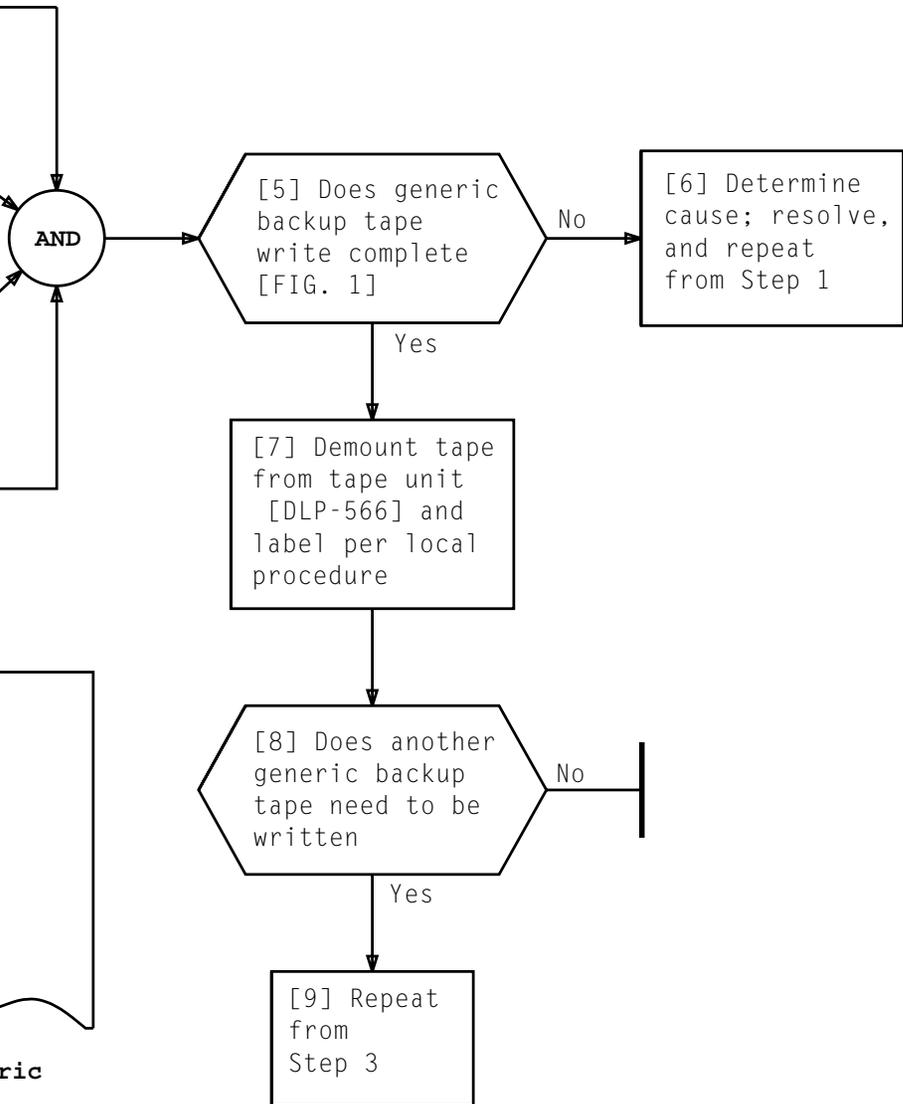
[2] If tape is mounted on
selected tape unit,
demount tape [DLP-566]

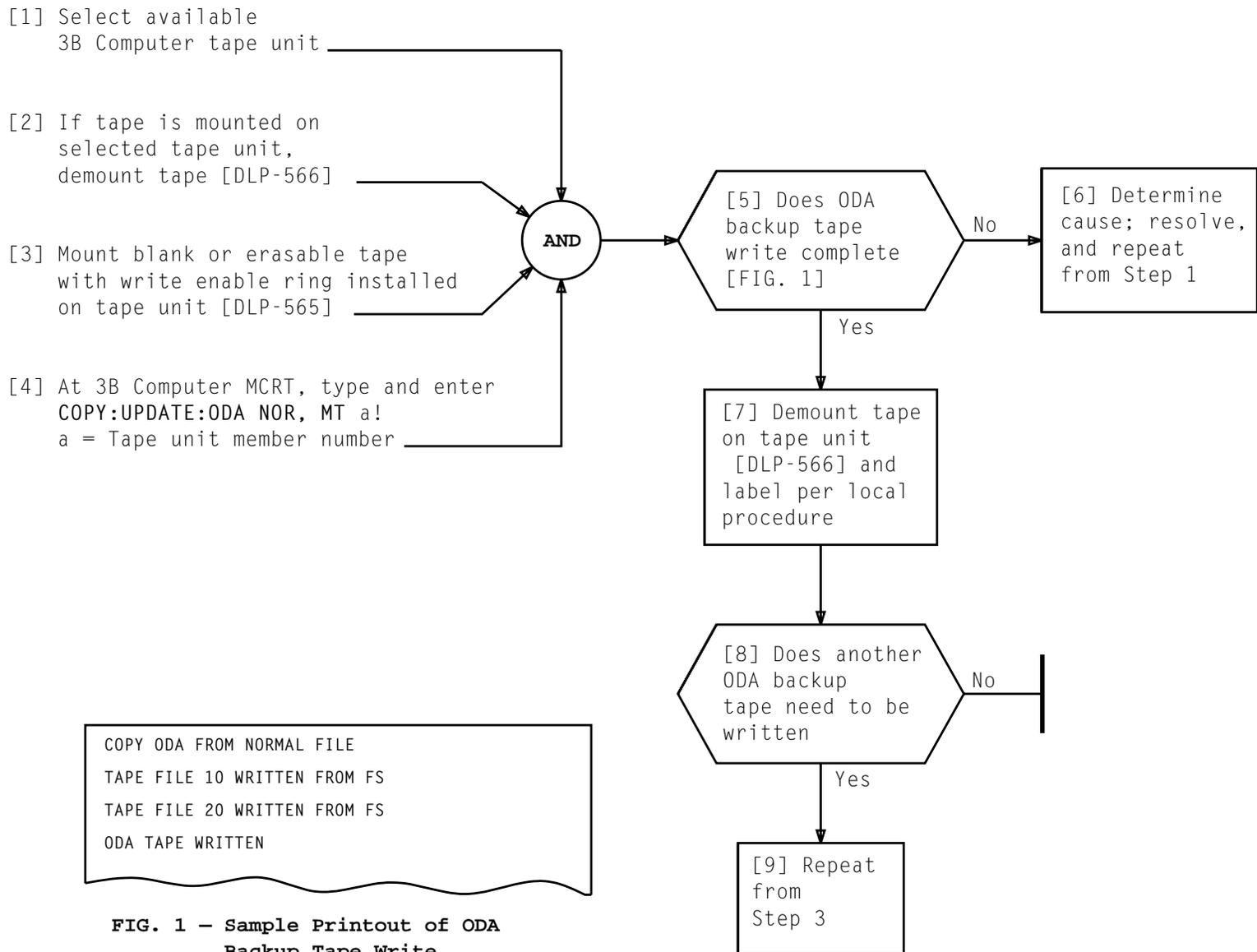
[3] Mount blank or erasable tape
with write enable ring installed
on tape unit [DLP-565]

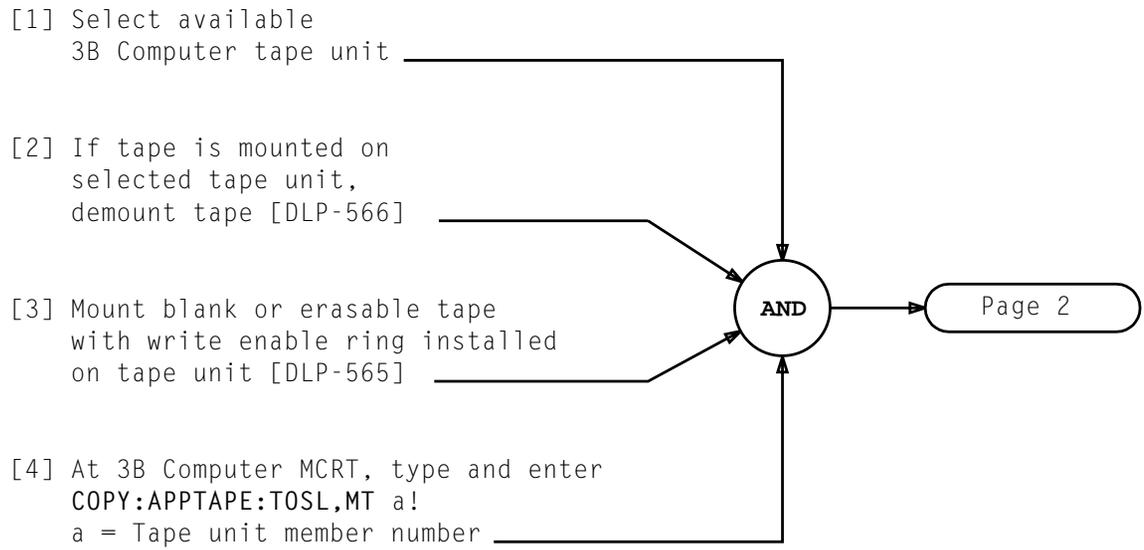
[4] At 3B Computer MCRT, type and enter
COPY:UPDATE:GEN NOR, MT a!
a = Tape unit member number

```
COPY GEN FROM NORMAL FILE
TAPE FILE 10 WRITTEN FROM FS
TAPE FILE 20 WRITTEN FROM FS
TAPE FILE 30 WRITTEN FROM FS
      .
      .
TAPE FILE n WRITTEN FROM FS
GENERIC TAPE WRITTEN
```

FIG. 1 - Sample Printout of Generic Backup Tape Write







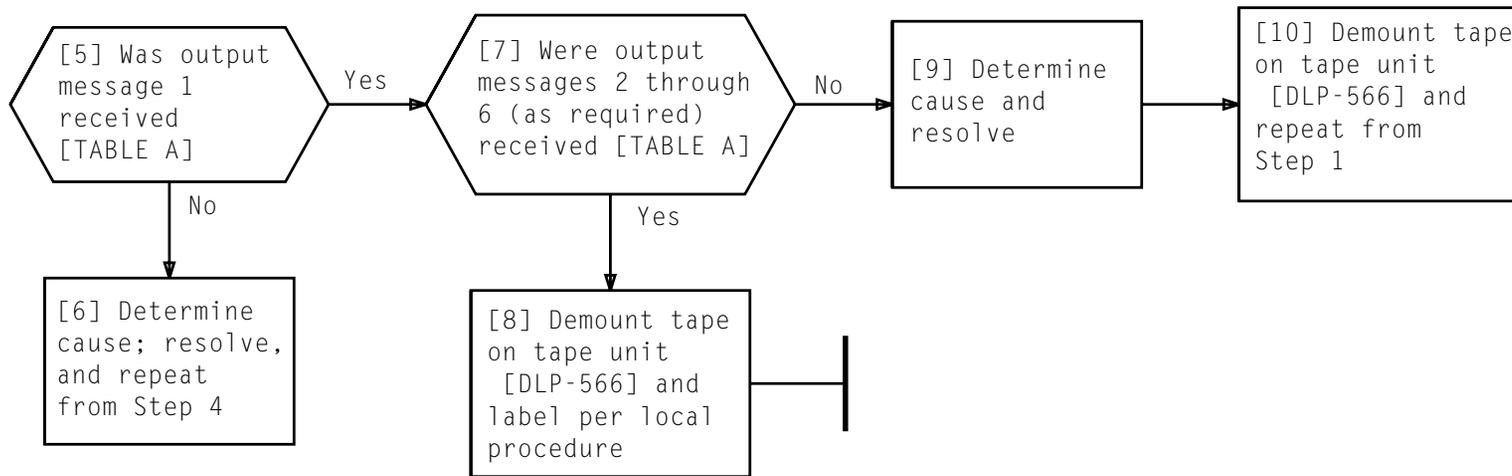


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE:TOSL,WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4*	APPTAPE ADDRESS RANGE cccccccc – dddddddd STARTED
5*	APPTAPE ADDRESS RANGE cccccccc – dddddddd COMPLETED
6	APPTAPE COMPLETED
* Only receive if office has Mass Status Table (MST) aaaaaaaa = Starting TOSL address bbbbbbbb = Ending TOSL address cccccccc = Starting MST address dddddddd = Ending MST address mm/dd/yy hh:mm = Month/day/year hour:minute tape was written	

[1] Select available
3B Computer tape unit

[2] If tape is mounted on
selected tape unit,
demount tape [DLP-566]

[3] Mount blank or erasable tape
with write enable ring installed
on tape unit [DLP-565]

[4] See NOTE 1. At 3B Computer MCRT, type and enter
COPY:APPTAPE:LTS,MT a!
a = Tape unit member number

AND

Page 2

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**
response will be
received.

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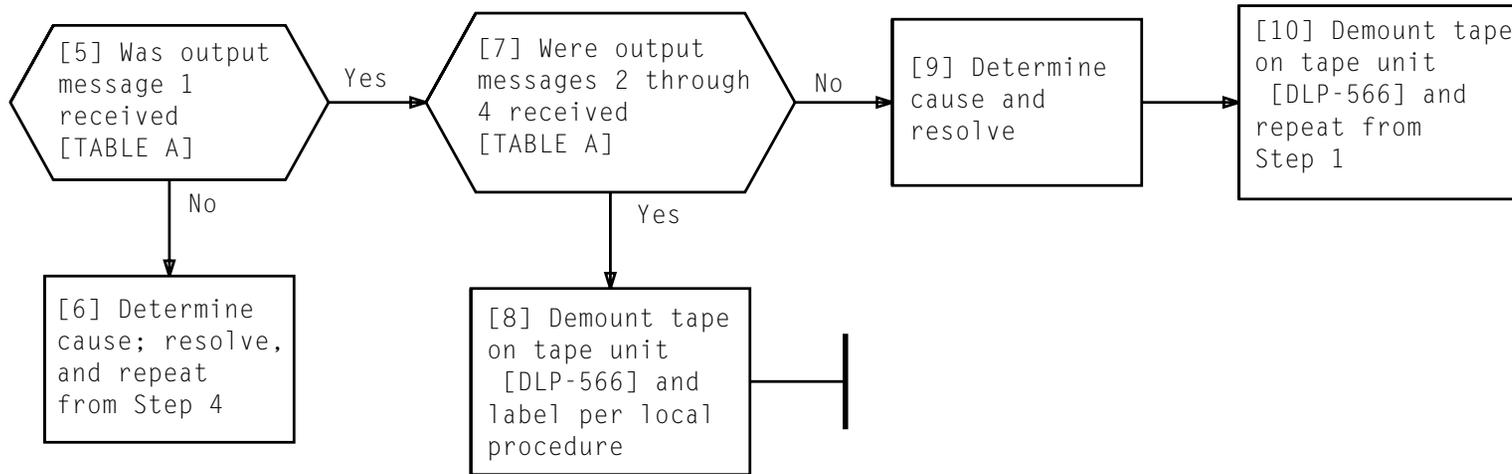
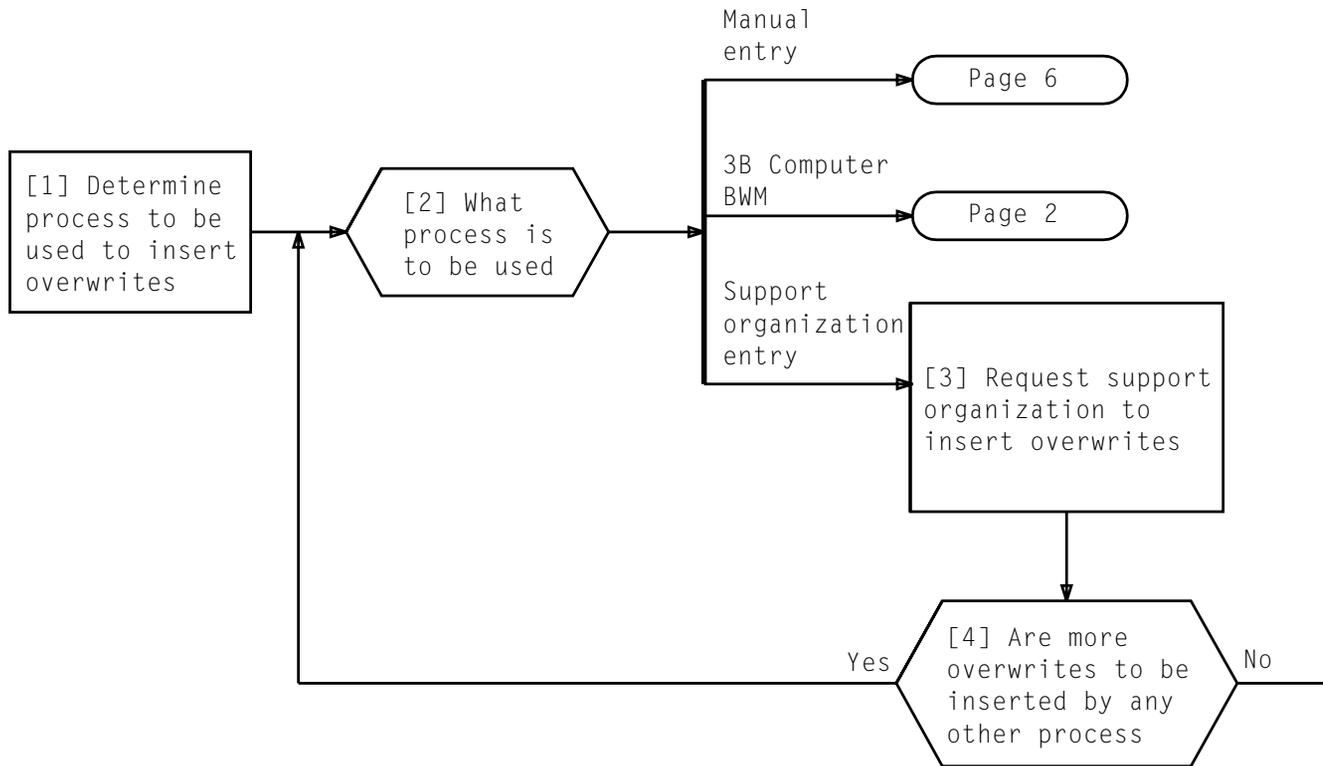


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE:TOSL,WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = Month/day/year hour:minute tape was written aaaaaaaaa = Starting LTS address through bbbbbbbb = Ending LTS address written	



INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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[5] Request support organization to download BWM to 3B Computer disks

[6] At 3B Computer MCRT, depress **NORM DISP (PF2)** key and enter 109 in command mode to obtain display page 109

[7] Enter 400,aaaxx-xxxx to select BWM
aaaxx-xxxx = BWM number to be applied

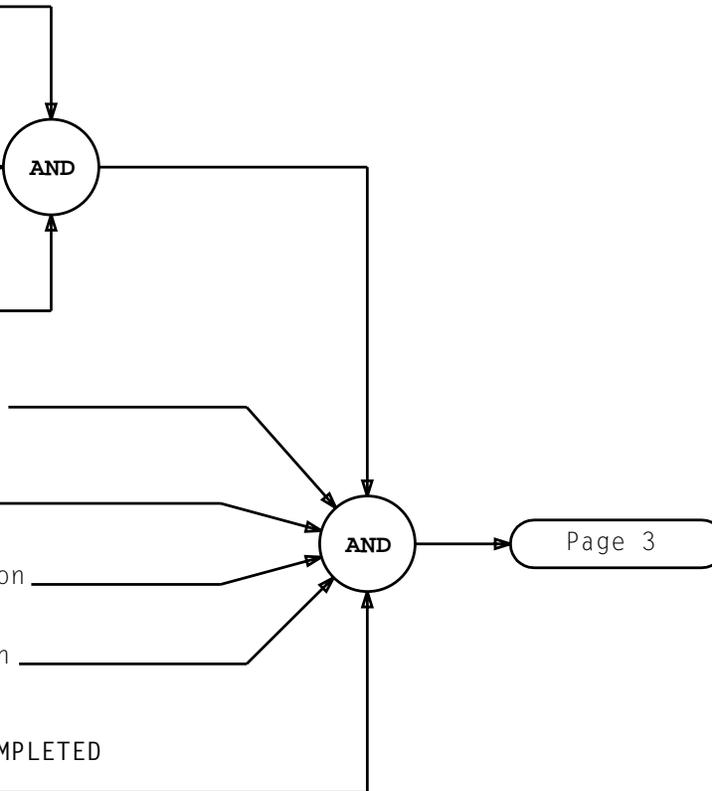
[8] Enter 403 to select APPLY section

[9] Enter 409 to display commands

[10] Enter 403 to reselect APPLY section

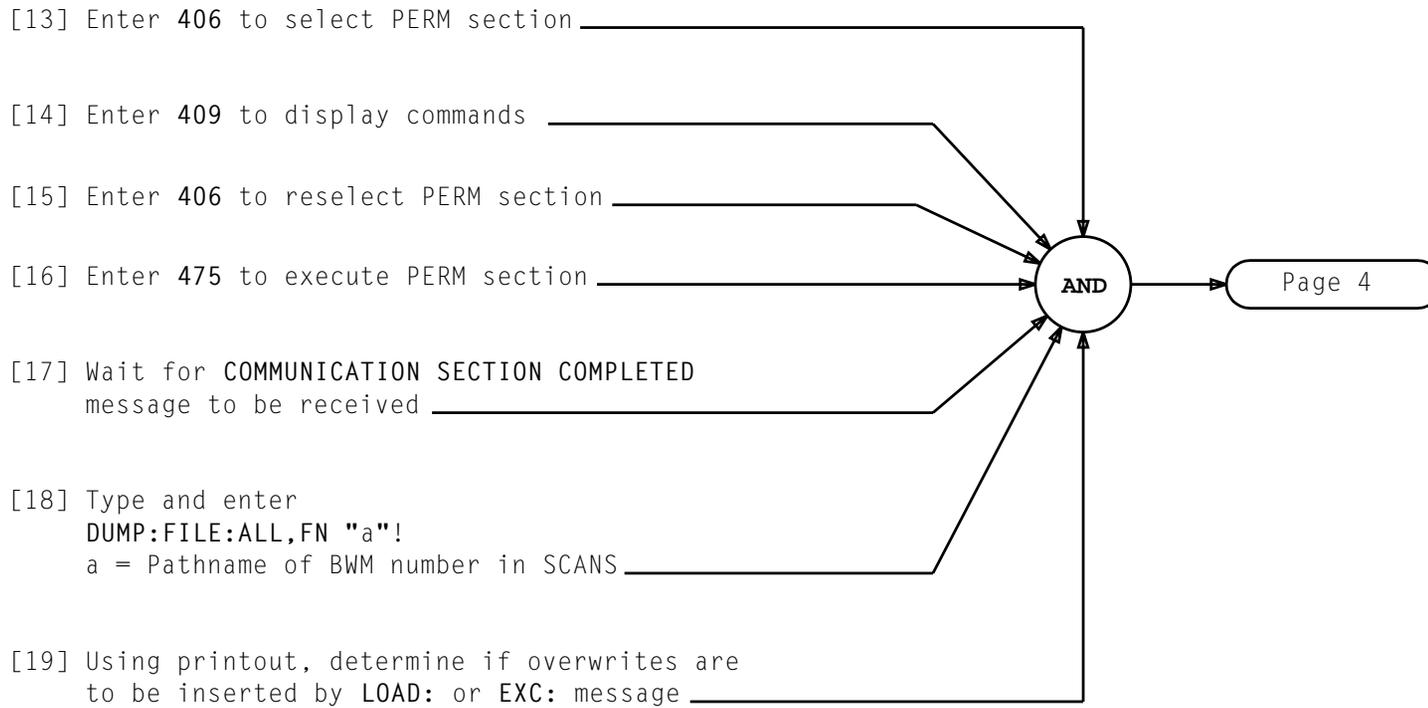
[11] Enter 475 to execute APPLY section

[12] Wait for **COMMUNICATION SECTION COMPLETED** message to be received



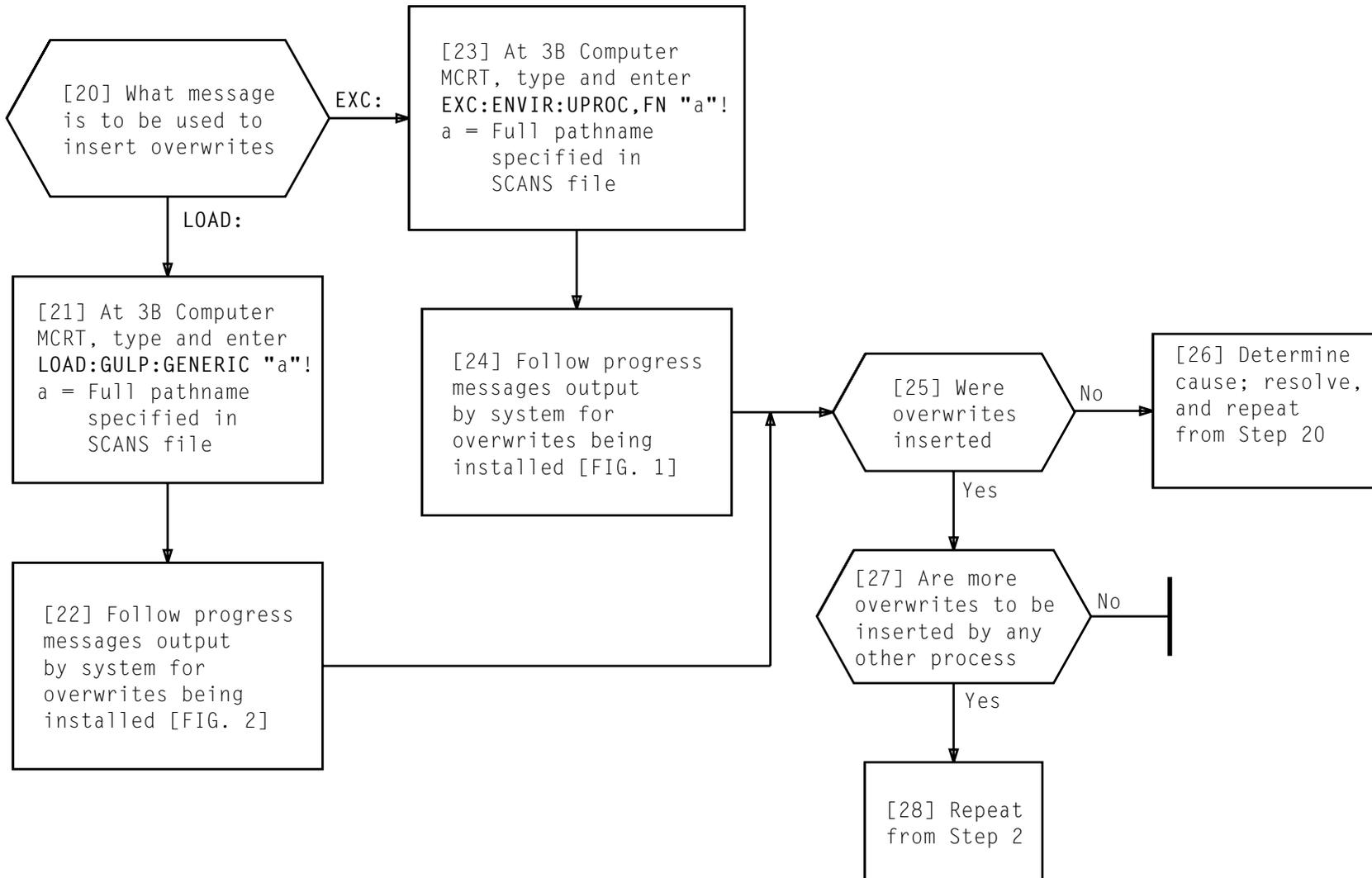
INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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```

IN:OSOW:START!
READY FOR OVERWRITE DATA
IN:OSOW:a b,DATA c!
IN:OSBUF:COMPLETED
MM ADR    FS ADR  ID  OLD DATA  NEW DATA
vvvvvvvv wwwwwwww xx  yyyyyyyy  zzzzzzzz
READY FOR OVERWRITE DATA
      .
      .
      .
IN:OSOW:UPD[,HASHSUM d]!
EXC ENV UPROC COMPLETED
OVERWRITE DATA WRITTEN TO UPDATE FILE

```

FIG. 1 - Sample Printout of Progress Messages for Overwrites Inputted Via EXC Command

```

BUILDING OW BUFFER - OW BLOCK 1
BUILDING OW BUFFER - OW BLOCK 2
      .
      .
      .
DATABASE UPDATED WITH OVERWRITES

```

FIG. 2 - Sample Printout of Progress Messages for Overwrites Inputted Via LOAD Command

INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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[29] Collect and list overwrites to be inserted into generic via update file

[30] See NOTE 1. At 3B Computer MCRT, type and enter IN:OSOW:START!

READY FOR OVERWRITE DATA message received

AND

[31] Is overwrite applicable to main memory or FS only

FS only

Main Memory

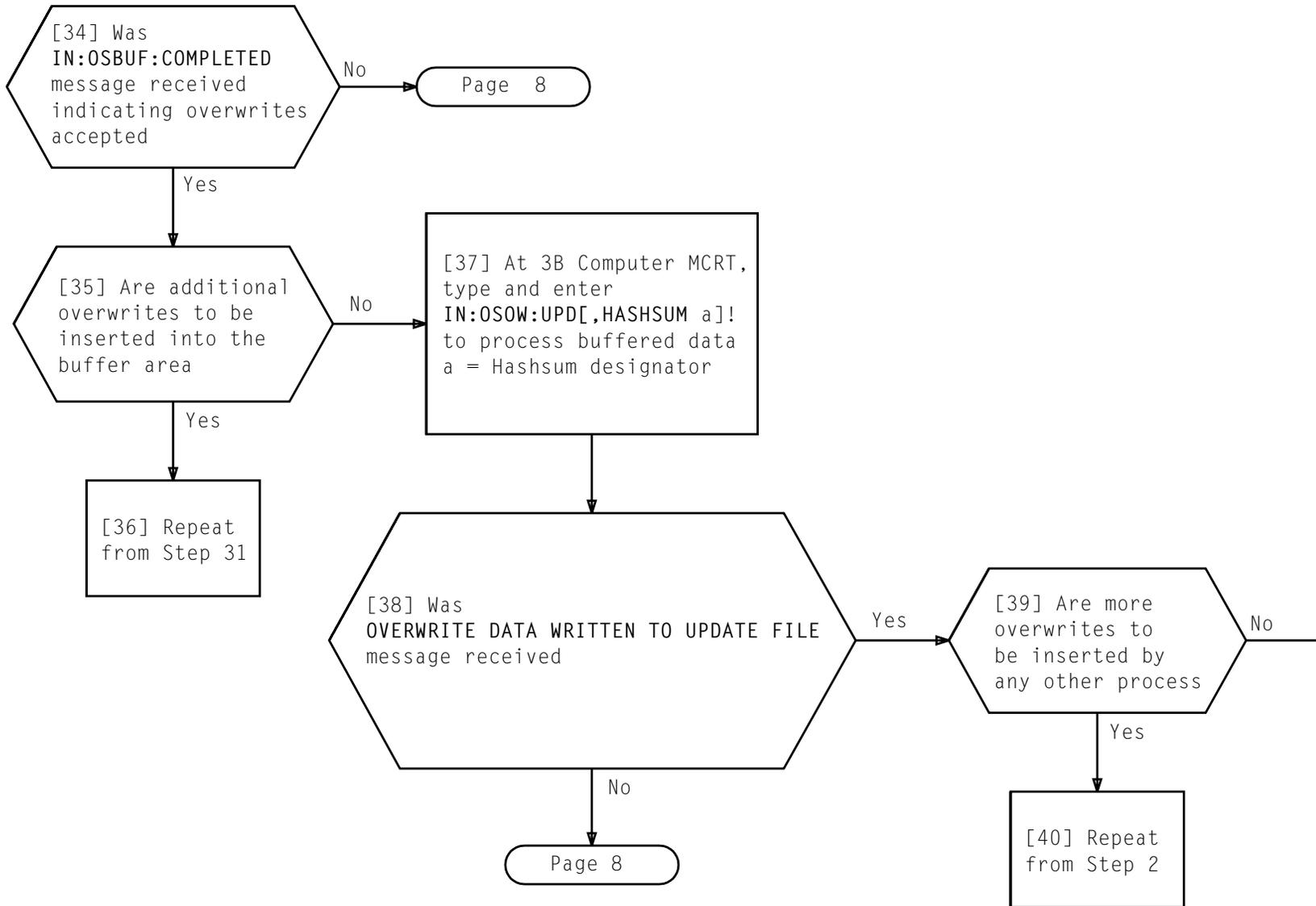
[32] See NOTE 2. Type and enter IN:OSOW:FSADR a, DATA b [,OLDDATA c]!
 a = Disk address (octal) for data to be changed
 b = Data (octal) to be changed
 c = Expected value (octal) of old data

[33] See NOTE 2. Type and enter IN:OSOW:MMADR a, DATA b [,OLDDATA c]!
 a = Main memory address (octal) for data to be changed
 b = Data (octal) to be changed
 c = Expected value (octal) of old data

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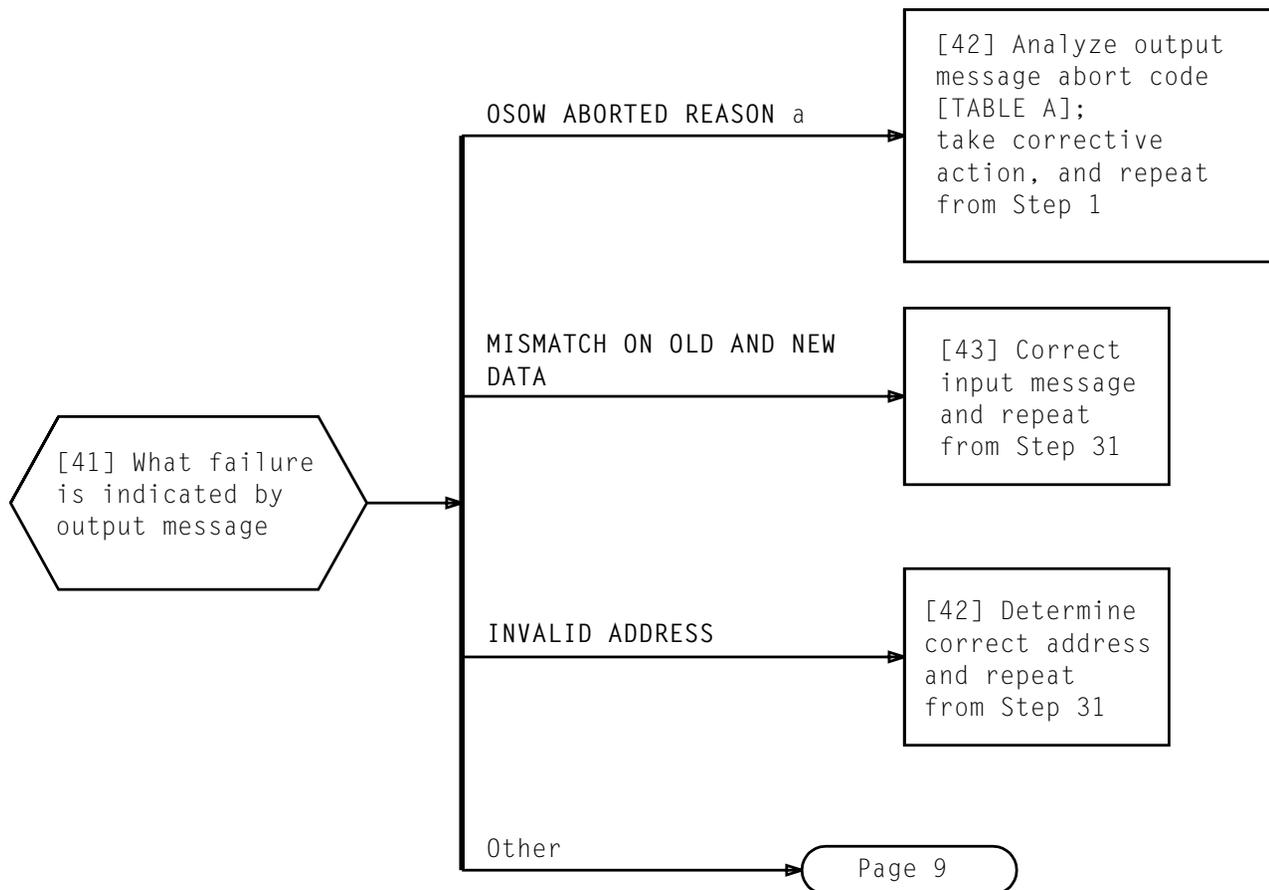
NOTES
 1. Overwrite process will time out after 20 minutes of inactivity
 2. OLDDATA is not required to be inputted, but if information is available, it should be entered to ensure that correct data is being changed

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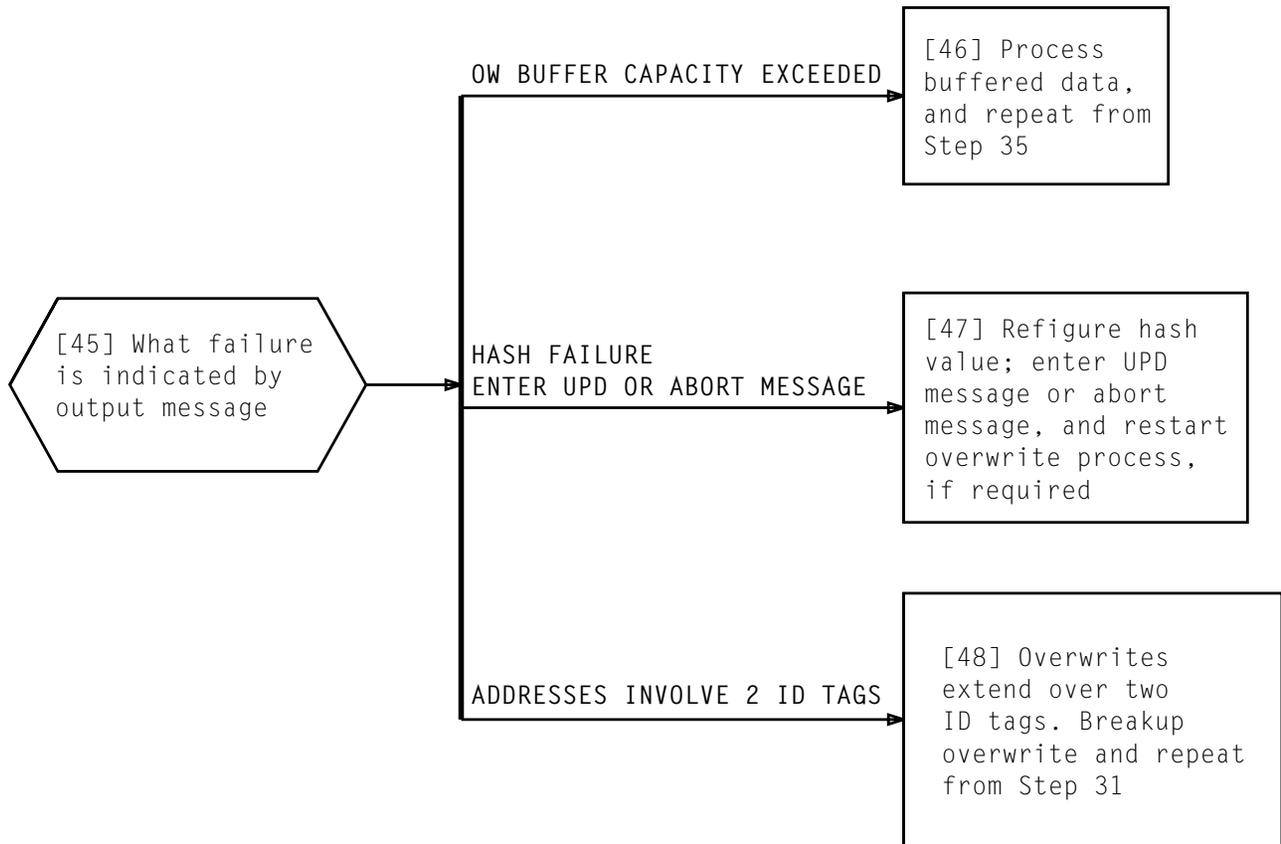
INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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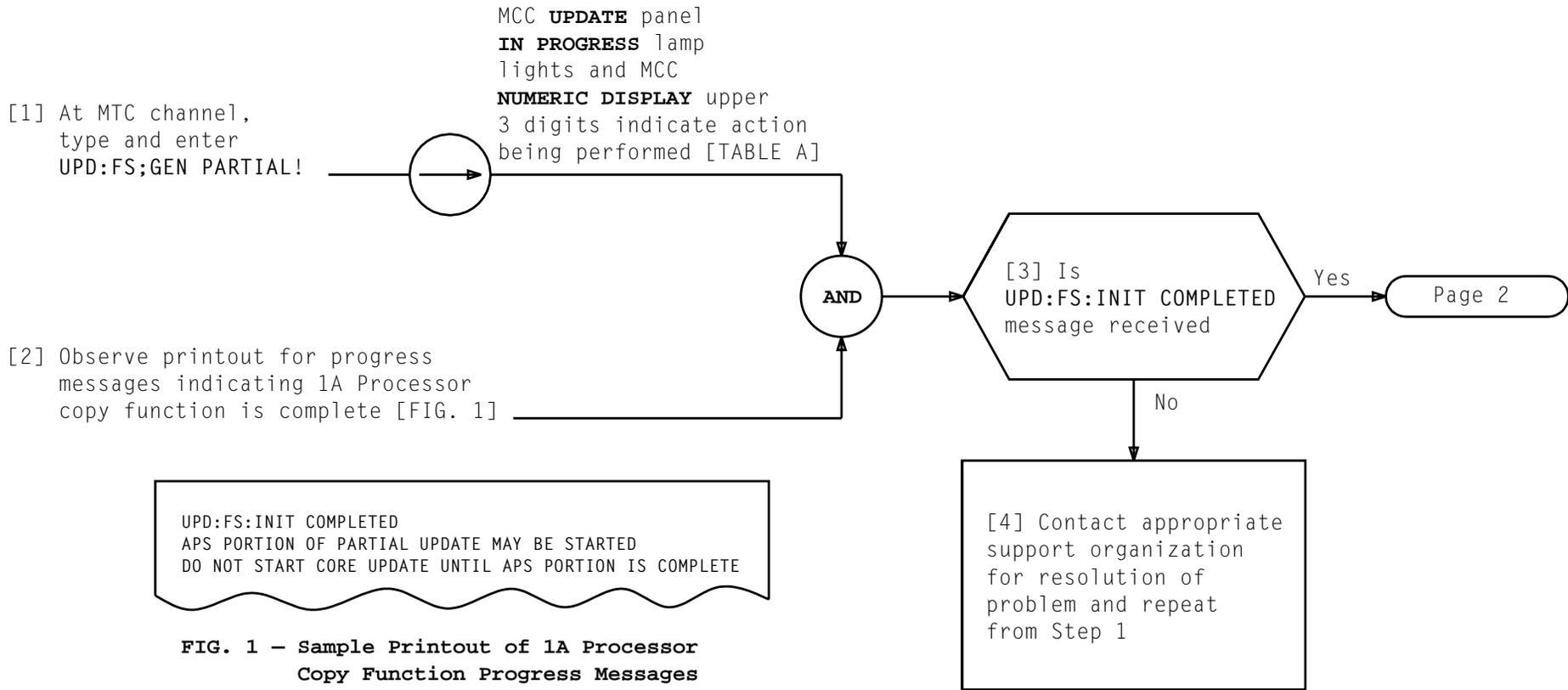
INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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TABLE A SYSTEM ERROR CODES	
ERROR CODE	EXPLANATION
100	Failure on access of IASTAT file
101	UPDATE file is in update mode
103	Cannot allocate main memory for compare
104	Cannot allocate extra main memory for MTRANS compare
105	Cannot open UPDATE for reading
106	Cannot open NORMAL for reading
107	Cannot open temp file for printing output
108	Failure on seek of IAFILE
109	Failure on read of IAFILE
10a	Invalid switch condition
10b	Translator pointer error
10c	Out-of-range MM address for translation to FS address
10d	Cannot translate valid MM address to FS address
10e	Read buffer not large enough
10f	Invalid ID in overwrite file
110	Invalid word count in overwrite file
111	Invalid hashsum
112	Cannot position overwrite file
113	Invalid FS-only address
114	Invalid MM address
115	OW Buffer capacity exceeded
116	Address in OW buffer duplicated

INSERT CRITICAL GENERIC OVERWRITES INTO UPDATE FILE

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**FIG. 1 – Sample Printout of 1A Processor
Copy Function Progress Messages**

TABLE A MCC NUMERIC DISPLAY CODES	
UPPER THREE DIGITS	EXPLANATION
122	Copy in progress
170	Copy complete

[5] Identify tape header generic identification number (4E<xx>4x.xx) previously recorded

[6] At 3B Computer MCRT, type and enter
 LOAD:UPDATE:PARTL "a", MT b!
 a = Generic identification number
 b = Tape unit member number

System responds with update progress messages [FIG. 2]

AND

[7] Is DATABASE COMPLETE message received [FIG. 2]

Yes

No

[8] Identify explanation of error code received [TABLE A] and perform corrective action to correct problem

```

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
WRITE MERGE DATA
DATABASE COMPLETE
  
```

FIG. 2 - Sample Printout of Generic Partial Update Progress Messages

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TABLE A
SYSTEM ERROR CODES

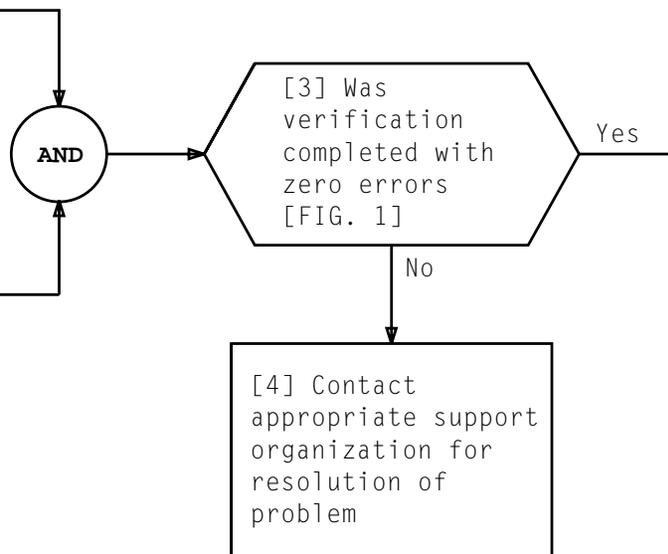
ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
100	Failure on access of 1ASTAT file	117	Size of hash sums area on tape not as expected
101	UPDATE file is in update mode	118	First word in 3-word block header invalid
102	UPDATE file is unlocked	119	Tape read error or missing EOF
103	Cannot allocate main memory for merge data	11a	ODA CS2FS map indicates data in all-generic 32K block
104	Cannot allocate main memory for tape reads	11b	Invalid ODA CS2FS map value when generic map has DDB pointer
105	Cannot open 1AFILE for reading	11c	Start address of FS-only block less than previous end address
106	Cannot open 1AFILE for reading and writing	11d	Invalid combination for ODA and generic CS2FS maps
107	Mismatch of ID tag for tape-only data	11e	FS address for hash head table on tape not as expected
108	Failure on seek of 1AFILE	11f	MM address for hash head table on tape not as expected
109	Failure on read of 1AFILE	120	ODA tape hash pointers not in numerical sequence
10a	Invalid command line combination	121	Generic tape hash pointers not in numerical sequence
10b	Cannot open tape drive for reading	122	First word in 3-word header for hash sum block invalid
10c	Cannot read tape	123	Invalid hash pointers
10d	Cannot open scratch file for tape header information	124	Unexpected ID tag on tape
10e	Missing expected EOF	125	Hash collision by data other than generic or ODA
10f	Record size not equal to 1545 bytes	126	Invalid ID tag requested for read tape and write FS
110	Size of ID2FS map on tape not as expected	127	Failure on write of 1AFILE
111	FS address of ID2FS map on tape not as expected	128	Pointer error in ID2FS map for merge data
112	MM address of ID2FS map on tape not as expected		
113	Size of CS2FS map not as expected		
114	FS address of CS2FS map on tape not as expected		
115	MM address of CS2FS map on tape not as expected		
116	Size of hash head table on tape not as expected		

TABLE A (Contd)
SYSTEM ERROR CODES

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
129	Disagreement in ID2FS map data for hash head table addresses	13a	Mismatch on ID2FS map between system and tape
12a	Disagreement in ID2FS map data for tape header addresses	13b	Mismatch on top part of CS2FS map between system and tape
12b	Disagreement in ID2FS map data for ID2FS and CS2FS addresses	13c	Mismatch on DDB part of CS2FS map between system and tape
12c	Failure on create of UNIX™ file for SYSRBASE	13d	Mismatch of OFL generation date and time for system and tape
12d	Failure on write of UNIX file for SYSRBASE	13e	Failure on seek of difference file
12e	Out-of-range MM address for translation to FS address	13f	Difference file data greater than 64512 words
12f	Cannot translate valid MM address to FS address	140	Inadequate buffer space for difference information
130	Invalid condition in collision block	141	Failure to create difference file
131	Cannot open tape drive for writing	142	Failure on open of difference file
132	Failure on write to tape	143	Failure on write of difference file
133	Pointer error in ID2FS map	144	Error in CS2FS DDB pointer
134	Disagreement in ID2FS map for network management addresses	145	Has sum error for shared block
135	Failure on create of UNIX file for tape-only data		
136	Failure on seek of UNIX file for tape-only data		
137	Failure on write of UNIX file for tape-only data		
138	Tape is not the required NWM tape		
139	Tape is not an SR tape		

[1] At 3B Computer MCRT,
type and enter
VER:APPFILE UPD!

[2] See NOTE 1. Observe
printout for zero errors



```

VER:APPFILE STARTED, /dev/lafileX (X = 0 or 1)
VER:APPFILE /dev/lafileX MERGE AREA, MSG IP, 0 ERRORS DETECTED
VER:APPFILE /dev/lafileX ID 1, MSG IP, 0 ERRORS DETECTED (Generic Area)
VER:APPFILE /dev/lafileX ID 2, MSG IP, 0 ERRORS DETECTED (Library Area)
VER:APPFILE /dev/lafileX ID 3, MSG IP, 0 ERRORS DETECTED (ODA Area)
VER:APPFILE /dev/lafileX ID 7, MSG IP, 0 ERRORS DETECTED (Network Management Area)
VER:APPFILE /dev/lafileX ID 11, MSG IP, 0 ERRORS DETECTED (RC Rollback Area)
VER:APPFILE /dev/lafileX ID 12, MSG IP, 0 ERRORS DETECTED (Traffic and Plant Management Area)
VER:APPFILE /dev/lafileX COMPLETED, 0 ERRORS DETECTED
  
```

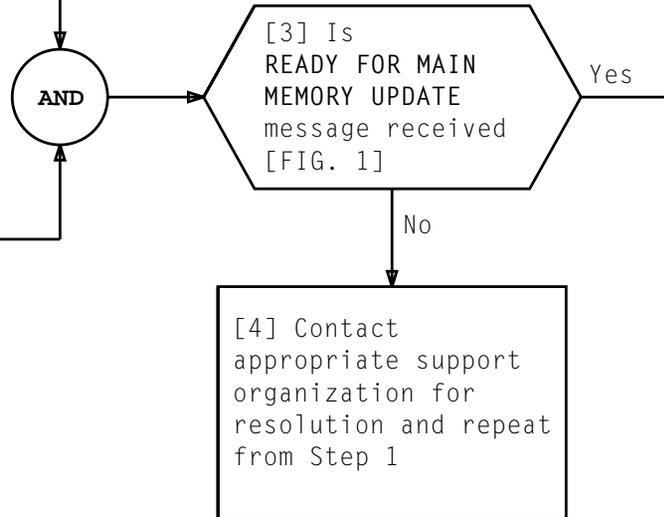
FIG. 1 – Sample Printout of Verification Output Messages Indicating Zero Errors

NOTE 1
It takes approximately 15 minutes for verification to complete

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[1] At 3B Computer MCRT,
type and enter
LOAD:UPD:DIFF!

[2] Observe printout for
progress messages [FIG. 1]

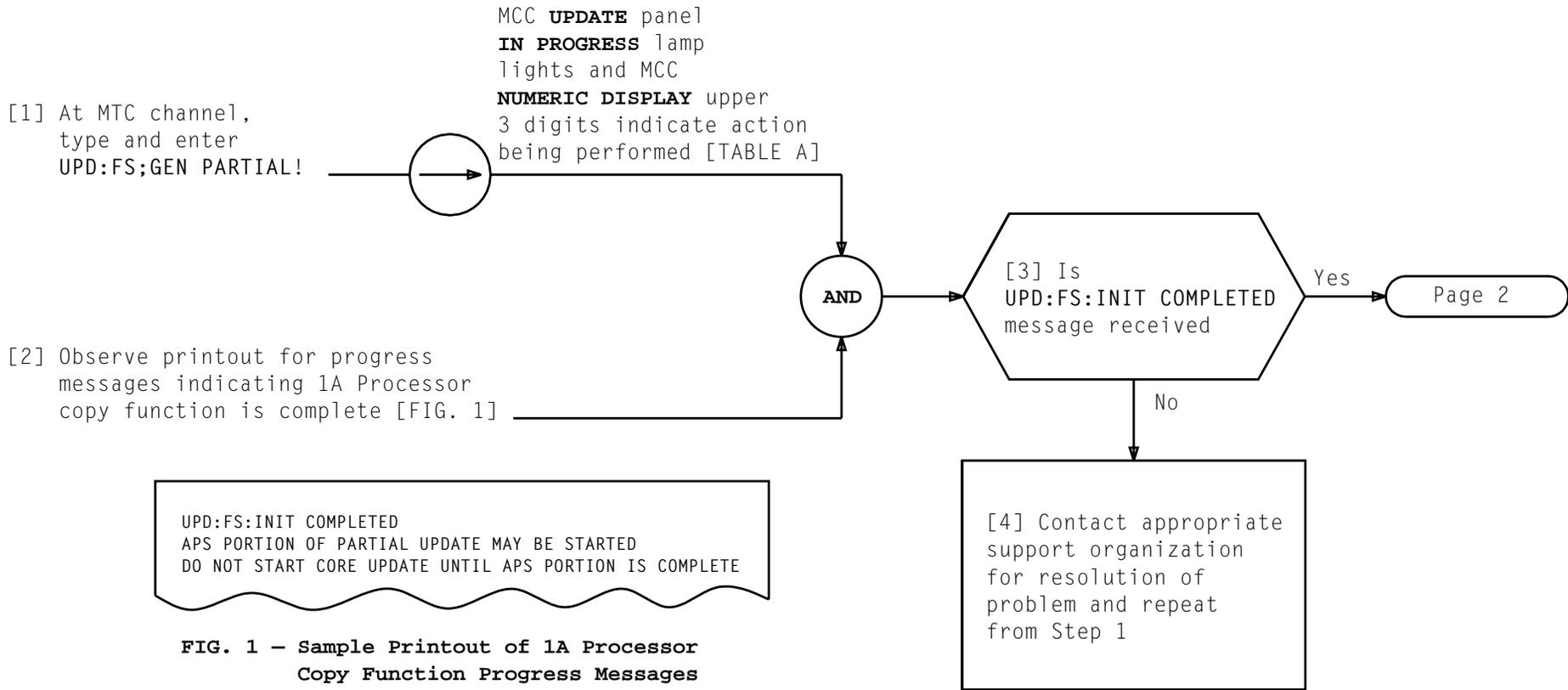


```
DETERMINING DIFFERENCES FOR ADDRESS 0
DETERMINING DIFFERENCES FOR ADDRESS 2000000
DETERMINING DIFFERENCES FOR ADDRESS 4000000
.
.
DETERMINING DIFFERENCES FOR ADDRESS 16000000
DETERMINING HASH DIFFERENCES
READY FOR MAIN MEMORY UPDATE
```

FIG. 1 - Sample Printout of Progress Messages

DETERMINE MAIN-MEMORY GENERIC DIFFERENCES BETWEEN THE NORMAL AND UPDATE FILE

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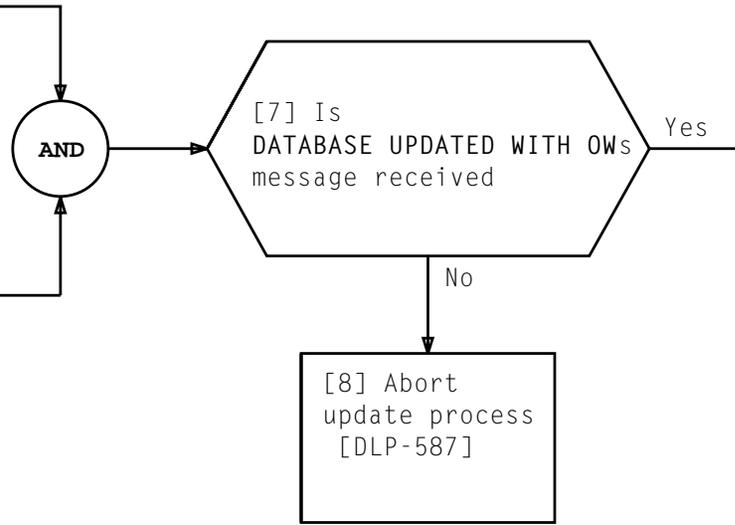


**FIG. 1 – Sample Printout of 1A Processor
Copy Function Progress Messages**

TABLE A MCC NUMERIC DISPLAY CODES	
UPPER THREE DIGITS	EXPLANATION
122	Copy in progress
170	Copy complete

[5] At 3B Computer
 MCRT, type and enter
 LOAD:GULP:GENERIC "a"
 a = OW file pathname

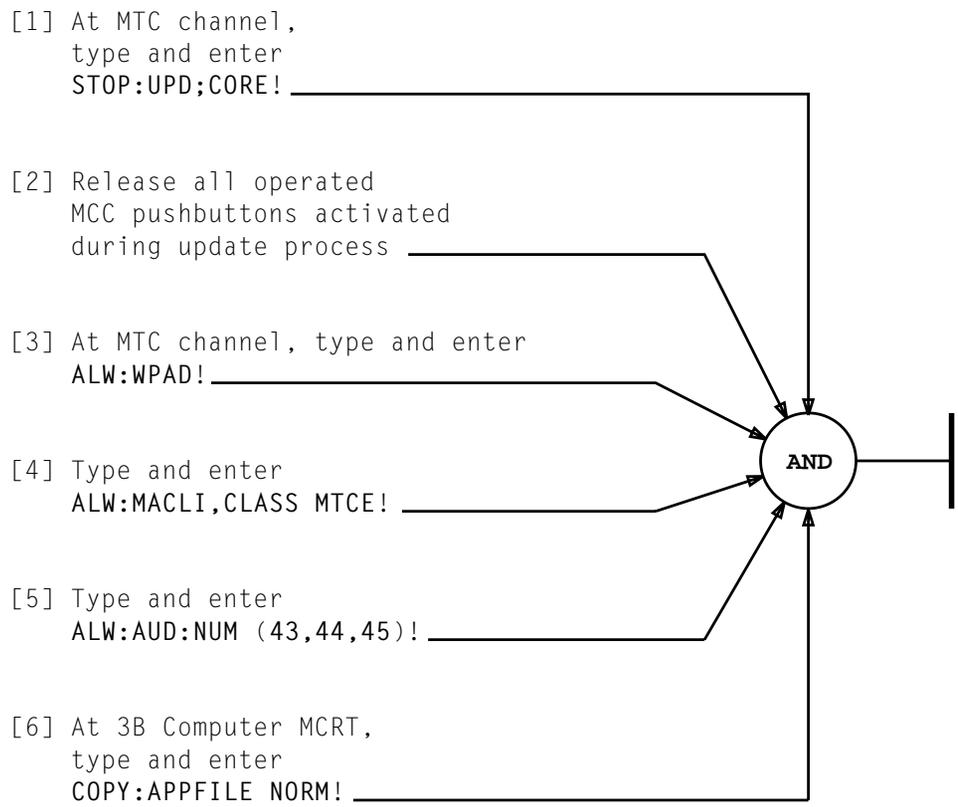
[6] Observe printout for
 progress messages
 indicating an updated
 database [FIG. 2]



```

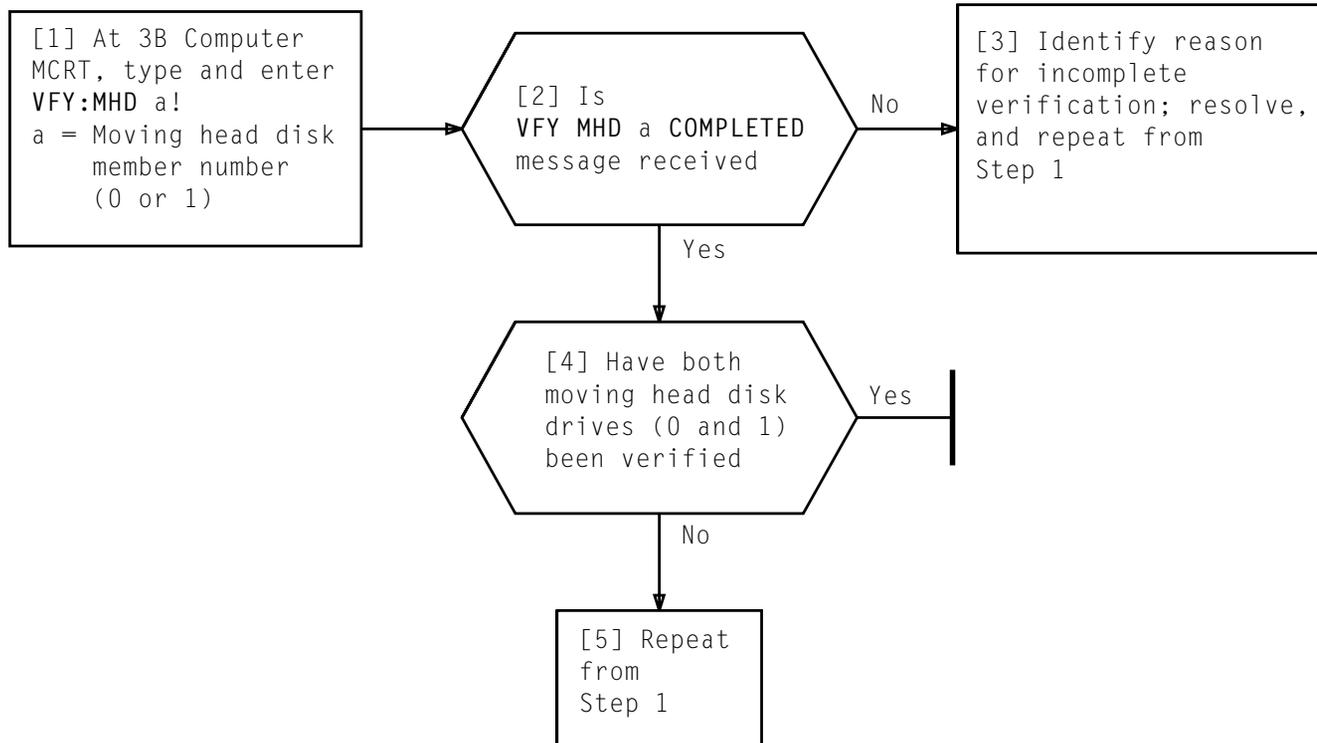
BUILDING OW BUFFER - OW BLOCK 1
BUILDING OW BUFFER - OW BLOCK 2
DATABASE UPDATED WITH OWs
  
```

FIG. 2 - Sample Printout of 3B Computer
 Load Function Progress Messages



ABORT UPDATE PROCESS

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VERIFY MOVING HEAD DISK (MHD) DRIVES

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1. Load new tape cartridge on MTT as follows:
 - 1.1 Set function selector switch to **FS**
 - 1.2 Lift protective cover
 - 1.3 Set **RELEASE – ENGAGE** lever to **RELEASE**
 - 1.4 Unwind approximately 6 inches of tape from cartridge
 - 1.5 Ensure that write inhibit "plug" is installed in top of tape cartridge (side with label)
 - 1.6 Place tape cartridge on MTT (label side up)
 - 1.7 Thread tape through read/write heads
 - 1.8 Insert plastic tape leader into slot in center of take-up reel
 - 1.9 Set **RELEASE – ENGAGE** lever to **ENGAGE** position
 - 1.10 Close protective cover
 - 1.11 Depress **FAST ACCESS – FWD** pushbutton and hold for 6 seconds
Response: Tape moves forward
 - 1.12 Depress and hold **FAST ACCESS – REV** pushbutton until tape stops and **BEGIN OF TAPE** lamp lights

2. Record clock track as follows:
 - 2.1 Set function selector switch to **RECORD CLK TRK**
Response: Tape advances
 - 2.2 Wait while clock track is recorded (takes about 7 minutes)
 - 2.3 When tape stops and **END OF TAPE** lamp lights, set function selector switch to **STOP CODES – FS**

- 2.4 Depress and hold **FAST ACCESS – REV** pushbutton until tape stops rewinding and **BEGIN OF TAPE** lamp lights
 - 2.5 Depress **SINGLE STEP – FWD** pushbutton
Response: Tape winds forward short distance and stops, **BEGIN OF TAPE** lamp goes off
 - 2.6 Reset **TAPE POSITION** counter to zero
3. Set MTT to receive mode as follows:
 - 3.1 Set **DATA MODE** switch to **AUTO – ON LINE**
 - 3.2 Depress **DATA – RECEIVE** pushbutton
- End of procedure

1. General

- 1.1 Cursor must be at left margin prior to each entry
- 1.2 Execution character for all messages in this procedure is the **RETURN** key
- 1.3 If at any time during SCANS session the message **ENTER SYSTEM SELECT CODE** is obtained, link to host computer has been lost. In this case, it will be necessary to enter **^SCANS1** and log in again

2. Procedure

- 2.1 Type and enter **OW,S 4E,G 4E(a),I b**
 - a = Generic designation number
 - b = Generic issue number

Response: **TURN RECORDER ON AND TYPE CARRIAGE RETURN WHEN READY**

Note: Step 2.3 must be performed immediately after the execution of Step 2.2
- 2.2 Depress **RETURN** key when ready to copy overwrites onto MTT tape
- 2.3 At EIA switch, depress key **3**

Response: **STOP** indicator on MTT flashes during write process
- 2.4 At MTT, when tape stops turning and **STOP** indicator has been lighted steadily for at least 20 seconds, depress **DATA - STOP** pushbutton
- 2.5 At EIA switch, depress key **1**
- 2.6 At TTY, type and enter **K/F** to logoff
- 2.7 At MTT, depress and hold **FAST ACCESS - REV** pushbutton until tape stops rewinding and **BEGIN OF TAPE** lamp lights

2.8 Depress **SINGLE STEP - FWD** pushbutton

Response: Tape winds forward short distance and stops; **BEGIN OF TAPE** lamp goes off

End of procedure

1. Assure that MTT is connected to KD or KDP

At MTT:

2. Set **DATA MODE** switch to **MAN**
3. Depress **DATA-SEND** pushbutton

At KD or KDP:

4. Depress to light **LOCAL** pushbutton
5. Depress to light **REC** pushbutton
6. Review data on screen against hardcopy of SCANS message
Note: This review provides familiarization with the tape contents as well as verification that correct data is on tape
7. Repeat from Step 3 until desired review of tape is completed

End of procedure

**REVIEW AND COMPARE SCANS BWM OVERWRITE TAPE CARTRIDGE WITH
SCANS HARDCOPY**

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[1] Mount library tape for appropriate generic on available tape transport [DLP-535]

[2] At MTC channel, type and enter
 SET:TUC a;FUNCTION LIB!
 a = TUC member number

Tape header printed

[3] Using tape header information, verify generic issue is correct for library package to be loaded

AND

[4] Type and enter
 ALW:TUC a:RO!
 a = TUC member number

System responds with OK

[5] See NOTE 1. Type and enter
 LOAD:LIBSYS,FS;TAPE:PKG a!
 a = Library package name(s)

See NOTE 2.
 RMV:PS a
 RST:PS a KCODE 34
 REPT:ADS FUNCTION LIB ACTIVE

[6] See NOTE 3.
 Was output message
 LOAD:LIBSYS COMPLETED received

Yes

No

[7] Was output message
 LOAD:LIBSYS STOPPED
 PKG SIZE ERROR received

Yes

No

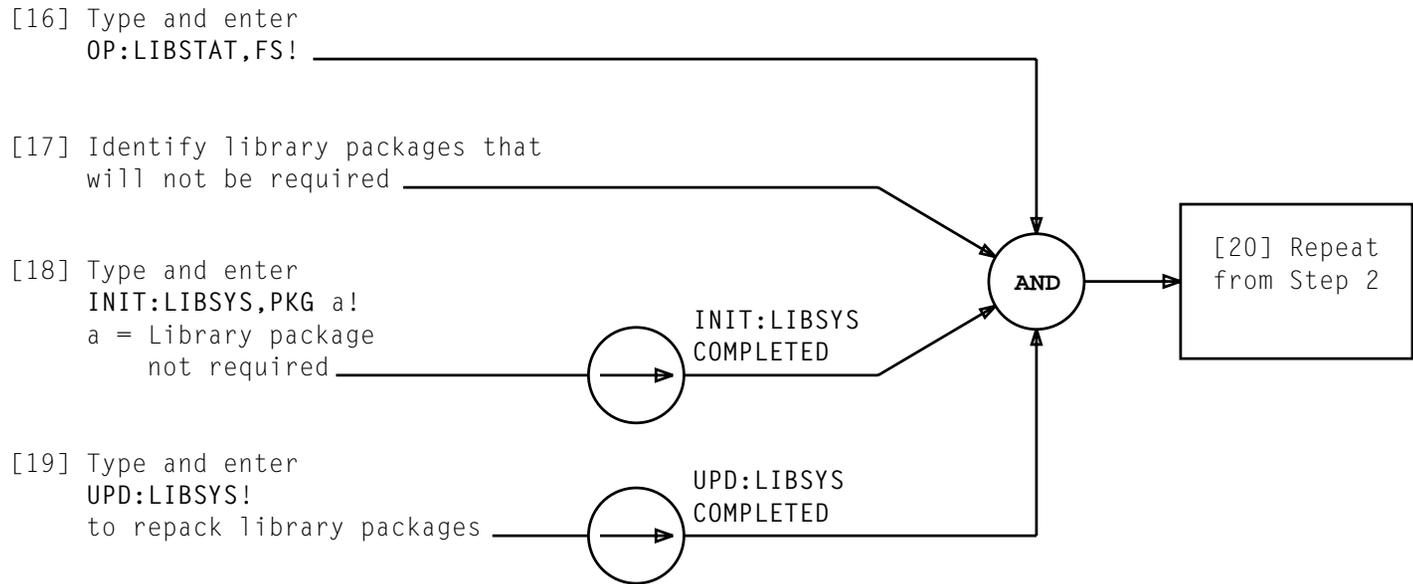
Page 3

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- NOTES
- Multiple library packages (maximum of four) may be loaded at one time by separating with commas and enclosing in parentheses
 - If PS is already configured to K-code 34, RMV and RST messages will not be received
 - System will not respond COMPLETED until tape is loaded.

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LOAD LIBRARY PROGRAM PACKAGE(S) ON DISK



LOAD LIBRARY PROGRAM PACKAGE(S) ON DISK

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[1] Mount network management (NWM) tape on available 3B Computer tape unit [DLP-565]

[2] Verify network management tape identification [DLP-594]

[3] See NOTES 1 and 2.
At 3B Computer MCRT, type and enter
LOAD:UPDATE:CONT NWM,MT a!
a = Tape unit member number

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

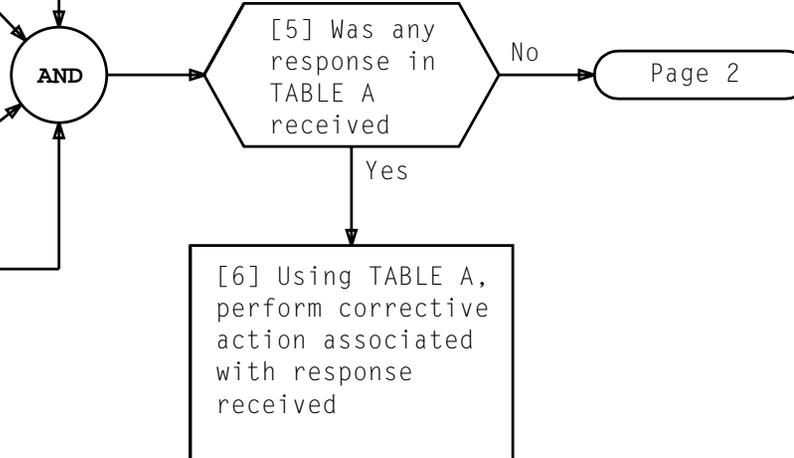
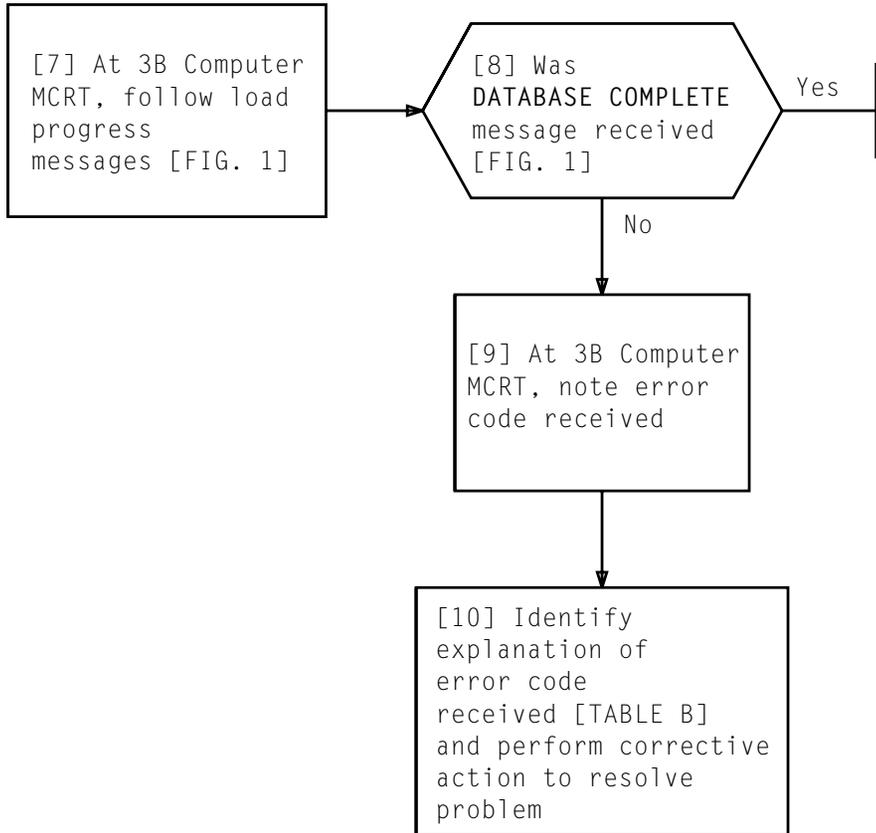


TABLE A	
RESPONSE	CORRECTIVE ACTION
TAPE DRIVE NOT READY – CORRECT AND ENTER AGAIN	Correct tape drive problem and repeat from Step 2.
WRONG GENERIC – CHANGE TAPE AND ENTER AGAIN	Demount wrong network management tape. Obtain correct tape, mount, and repeat from Step 2.
INVALID COMMAND – ENTER AGAIN	Repeat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

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

TAPE HEADER
•
•
•
TAPE FILE 10 LOADED TO FS

NWM COMPLETE

WRITE MERGE DATA AND ZERO FS AREAS

MAPPING DYNAMIC DATA FROM NORMAL FILE

DATABASE COMPLETE
  
```

FIG. 1 - Sample Printout of Network Management Load Progress Messages

**TABLE B
SYSTEM ERROR CODES**

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
100	Failure on access of 1ASTAT file	116	Size of hash head table on tape not as expected
101	UPDATE file is in update mode	117	Size of hash sums area on tape not as expected
102	UPDATE file is unlocked	118	First word in 3-word block header invalid
103	Cannot allocate main memory for merge data	119	Tape read error or missing EOF
104	Cannot allocate main memory for tape reads	11a	ODA CS2FS map indicates data in all-generic 32K block
105	Cannot open 1AFILE for reading	11b	Invalid ODA CS2FS map value when generic map has DDB pointer
106	Cannot open 1AFILE for reading and writing	11c	Start address of FS-only block less than previous end address
107	Mismatch of ID tag for tape-only data	11d	Invalid combination for ODA and generic CS2FS maps
108	Failure on seek of 1AFILE	11e	FS address for hash head table on tape not as expected
109	Failure on read of 1AFILE	11f	MM address for hash head table on tape not as expected
10a	Invalid command line combination	120	ODA tape hash pointers not in numerical sequence
10b	Cannot open tape drive for reading	121	Generic tape hash pointers not in numerical sequence
10c	Cannot read tape	122	First word in 3-word header for hash sum block invalid
10d	Cannot open scratch file for tape header information	123	Invalid hash pointers
10e	Missing expected EOF	124	Unexpected ID tag on tape
10f	Record size not equal to 1545 bytes	125	Hash collision by data other than generic or ODA
110	Size of ID2FS map on tape not as expected	126	Invalid ID tag requested for read tape and write FS
111	FS address of ID2FS map on tape not as expected	127	Failure on write of 1AFILE
112	MM address of ID2FS map on tape not as expected		
113	Size of CS2FS map not as expected		
114	FS address of CS2FS map on tape not as expected		
115	MM address of CS2FS map on tape not as expected		

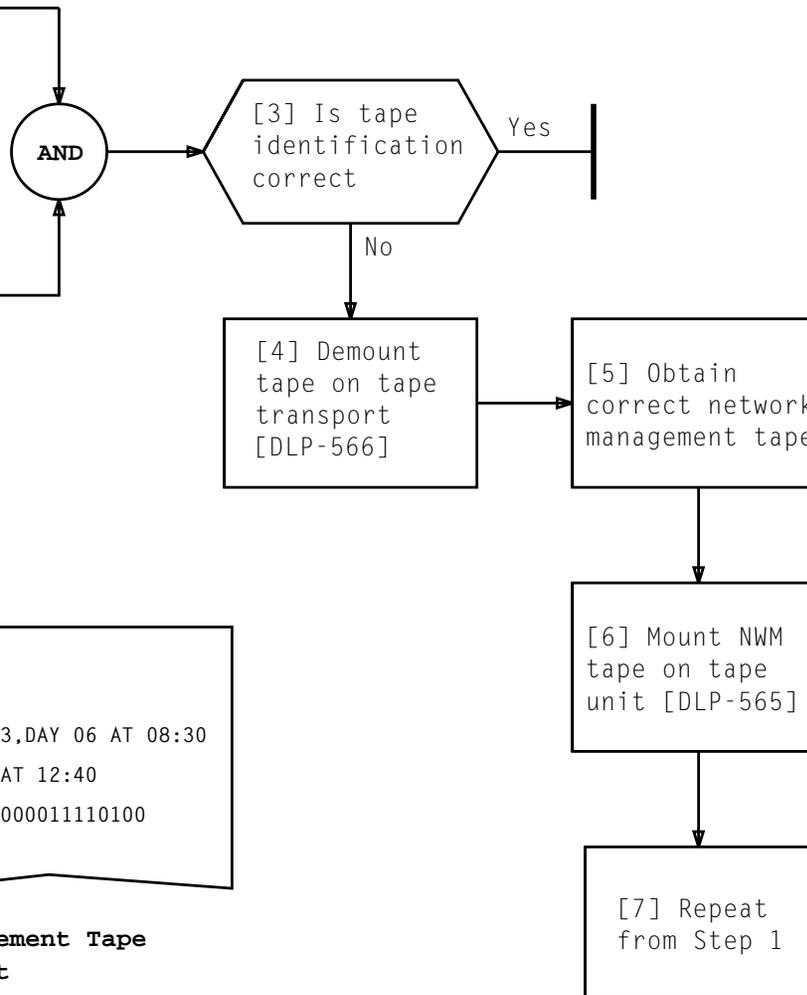
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**TABLE B (Contd)
SYSTEM ERROR CODES**

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
128	Pointer error ID2FS map for merge data	136	Failure on seek of UNIX file for tape-only data
129	Disagreement in ID2FS map data for hash head table addresses	137	Failure on write of UNIX file for tape-only data
12a	Disagreement in ID2FS map data for tape header addresses	138	Tape is not the required NWM tape
12b	Disagreement in ID2FS map data for ID2FS and CS2FS addresses	139	Tape is not an SR tape
12c	Failure on create of UNIX™ file for SYSRBASE	13a	Mismatch on ID2FS map between system and tape
12d	Failure on write of UNIX file for SYSRBASE	13b	Mismatch on top part of CS2FS map between system and tape
12e	Out-of-range MM address for translation to FS address	13c	Mismatch on DDB part of CS2FS map between system and tape
12f	Cannot translate valid MM address to FS address	13d	Mismatch of OFL generation date and time for system and tape
130	Invalid condition in collision block	13e	Failure on seek of difference file
131	Cannot open tape drive for writing	13f	Difference file data greater than 64512 words
132	Failure on write to tape	140	Inadequate buffer space for difference information
133	Pointer error in ID2FS map	141	Failure to create difference file
134	Disagreement in ID2FS map for network management addresses	142	Failure on open of difference file
135	Failure on create of UNIX file for tape-only data	143	Failure on write of difference file
		144	Error in CS2FS DDB pointer
		145	Hash sum error for shared block

[1] At 3B Computer MCRT, type and enter
 VER:UPDATE:TAPE,MT a!
 a = Tape unit member number

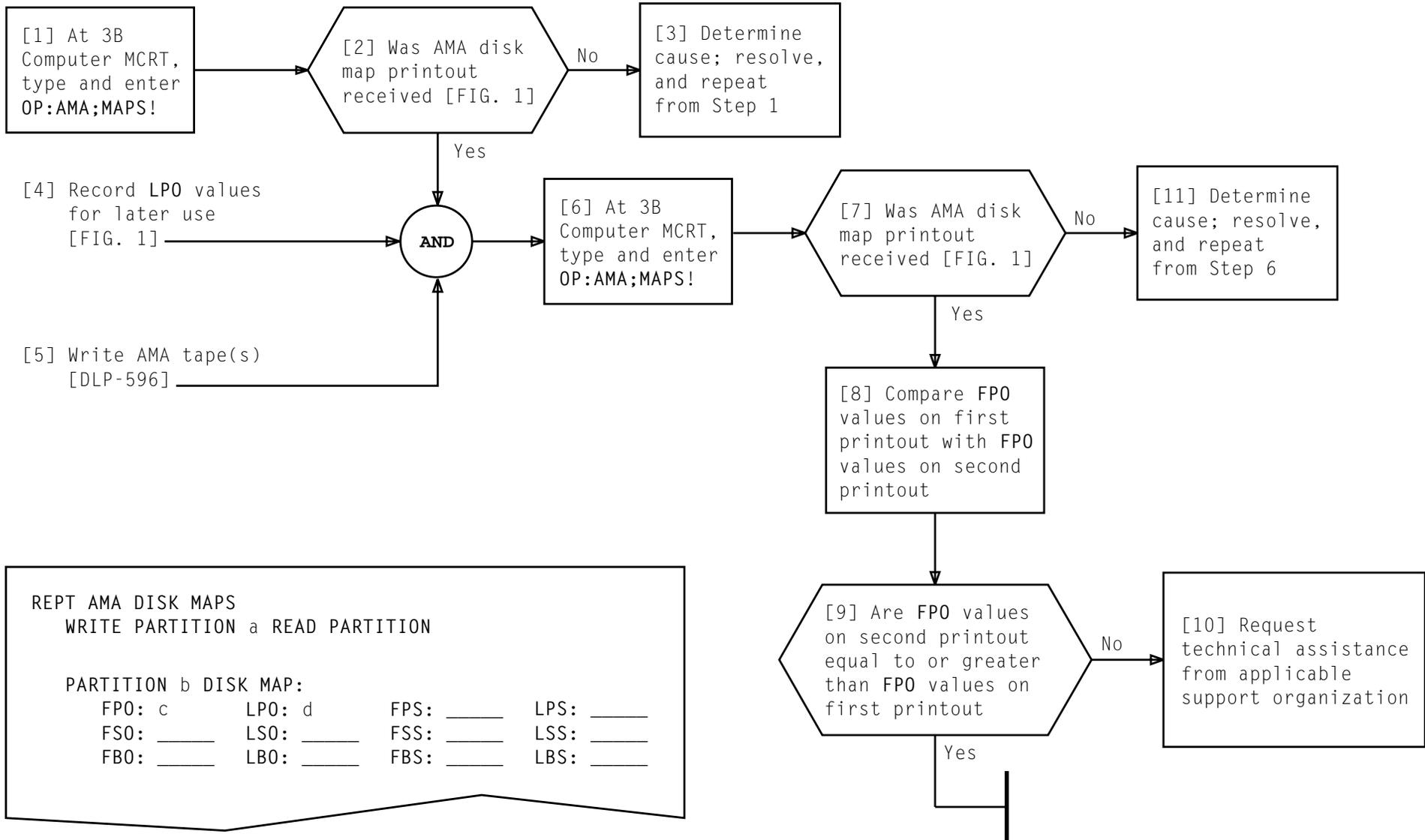
[2] Using verification printout
 [FIG. 1], verify that
 TAPE TYPE is NWM and
 ORIGINAL GENERIC is
 appropriate operating generic



```

TAPe TYPE: NWM
ORIGINAL GENERIC 4E<13>R4
MOST RECENT OFL GENERATION: YR 88,MON 03,DAY 06 AT 08:30
THIS TAPE WRITTEN: YR 88,MON 03,DAY 06 AT 12:40
FS IDS: 0000000010000000,TAPE IDS: 0000000011110100
PRTL UPD FLG: 0,PHASE REQD: 0000000
  
```

FIG. 1 - Sample Network Management Tape Verification Printout



```

REPT AMA DISK MAPS
WRITE PARTITION a READ PARTITION

PARTITION b DISK MAP:
FPO: c      LPO: d      FPS: _____ LPS: _____
FSO: _____ LSO: _____ FSS: _____ LSS: _____
FBO: _____ LBO: _____ FBS: _____ LBS: _____
  
```

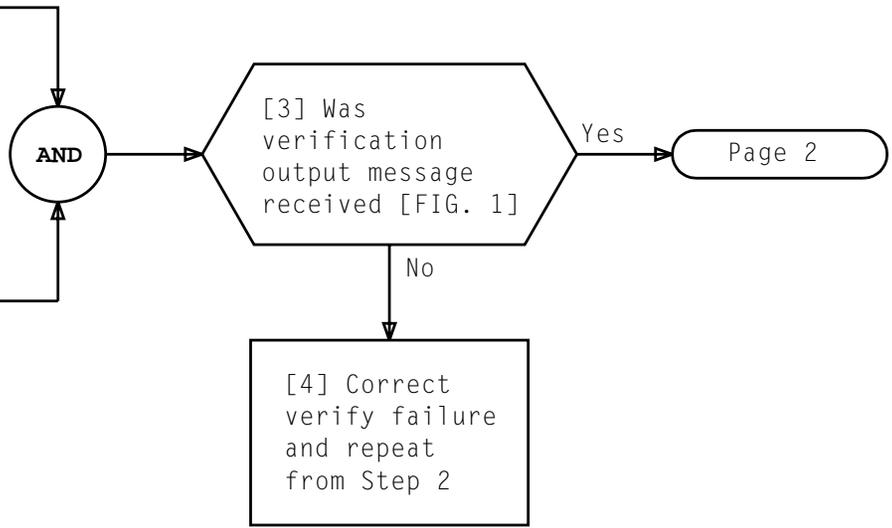
FIG. 1 - Sample Printout of AMA Disk Maps

SAVE PRIMARY AMA DATA ON TAPE

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[1] Mount AMA tape (supplied by RA0) with write enable ring installed on 3B Computer tape unit [DLP-565]

[2] At 3B Computer MCRT, type and enter
VER:AMATAPE;MT a:b!
 a = Tape unit member number
 b = IC or OC



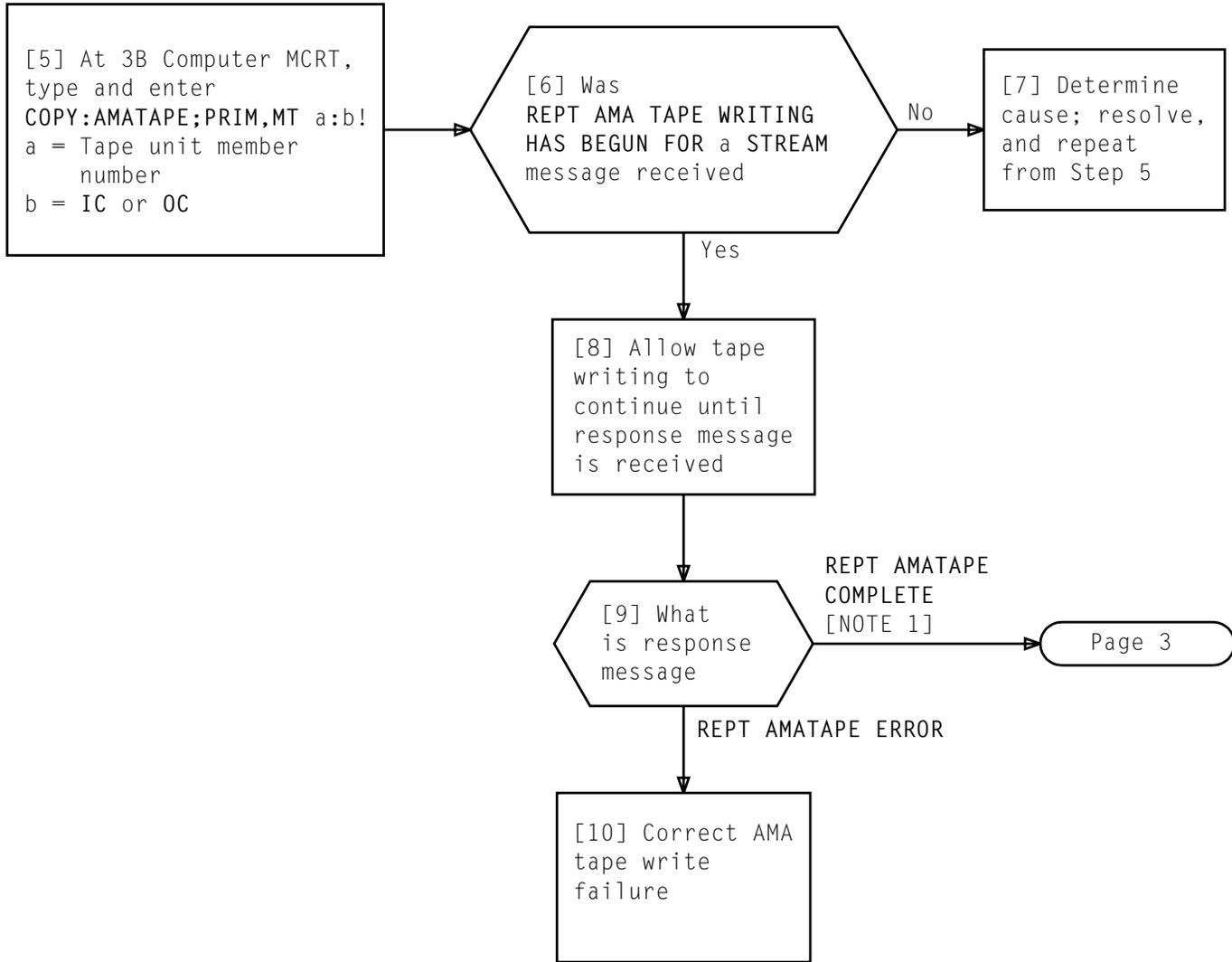
```

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
  
```

FIG. 1 - Sample Printout of AMA Verification Output Message

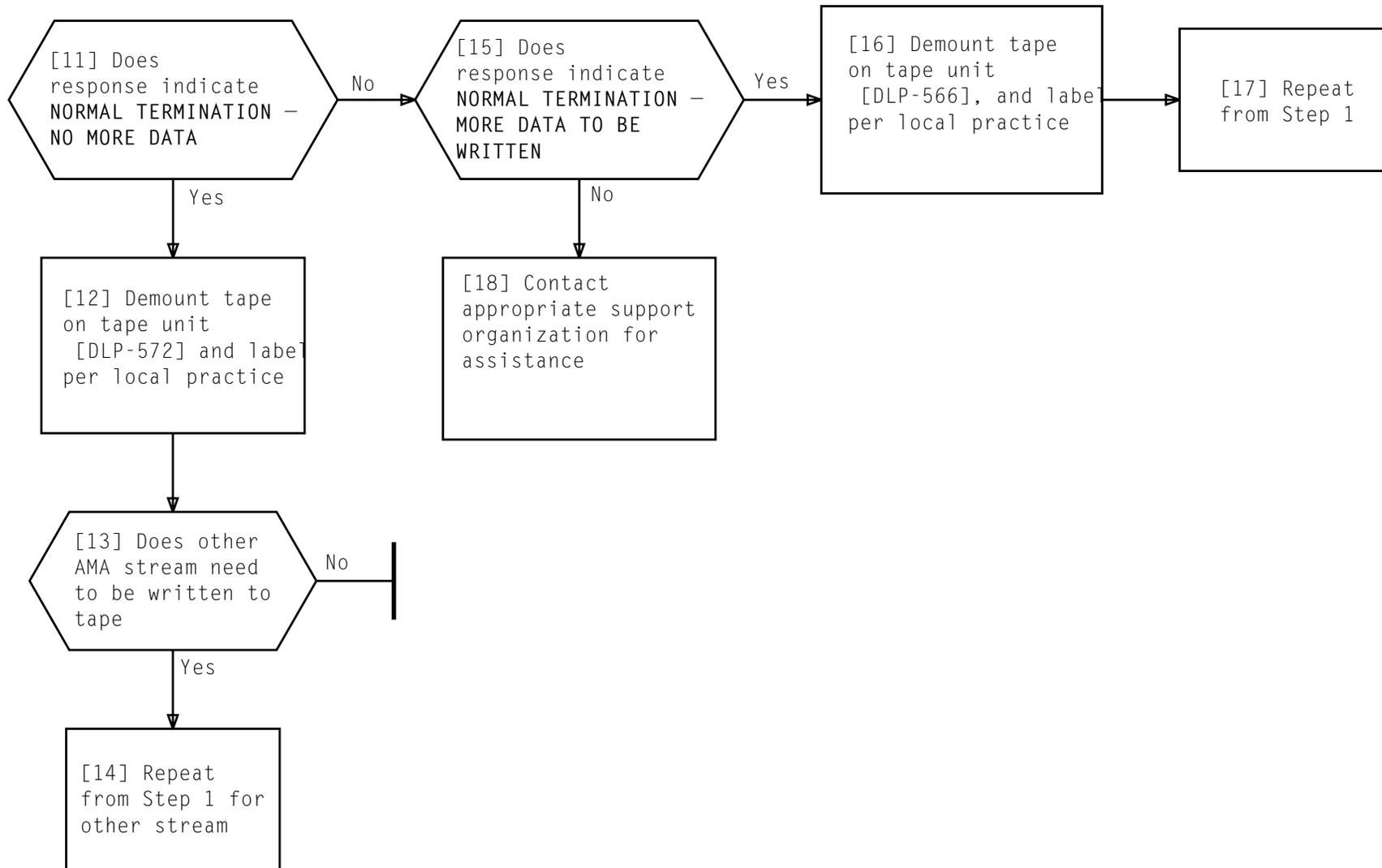
WRITE AMA TAPE(S)

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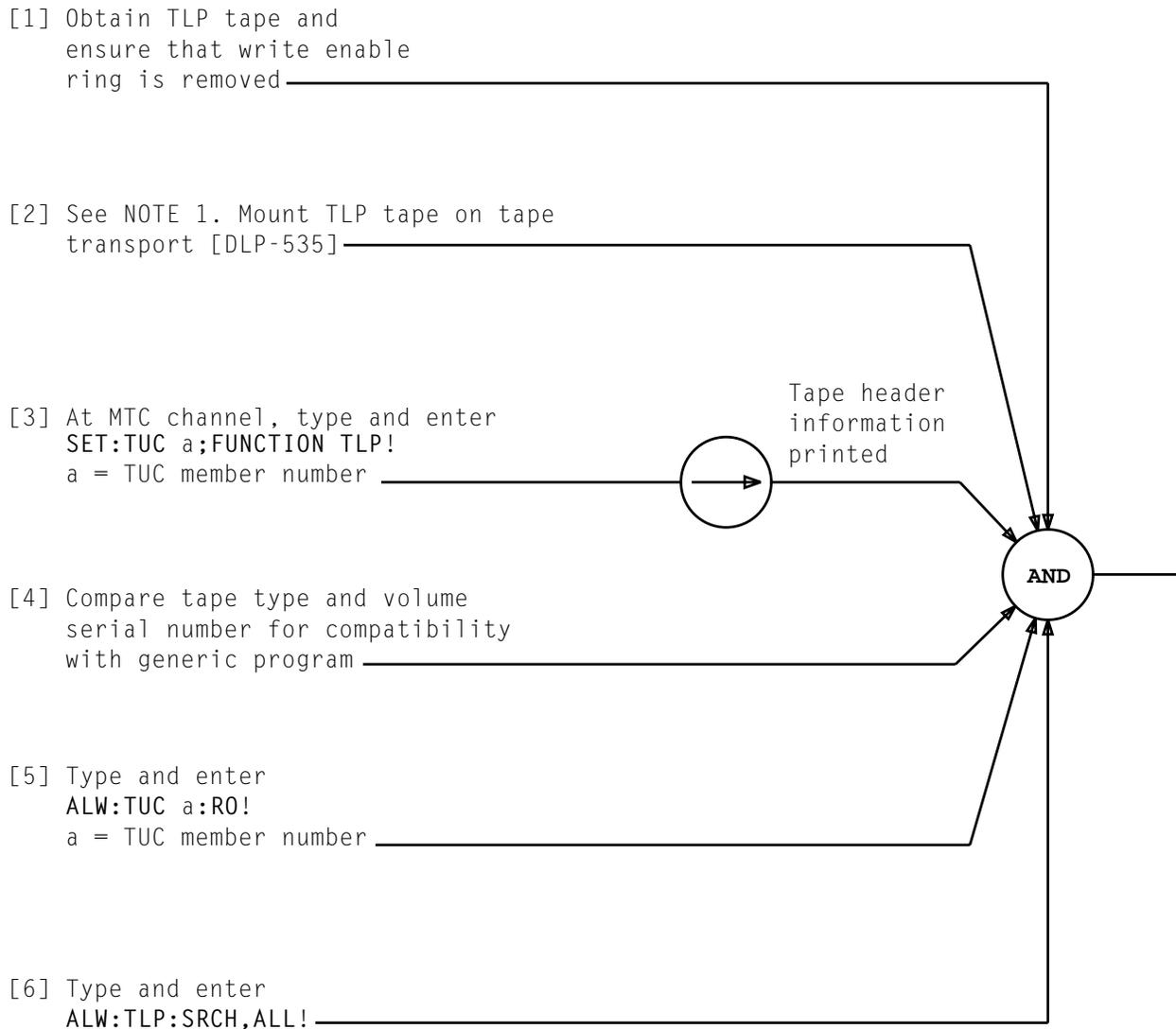
NOTE 1 Output message contains detailed data of AMA tape	
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WRITE AMA TAPE(S)



WRITE AMA TAPE(S)

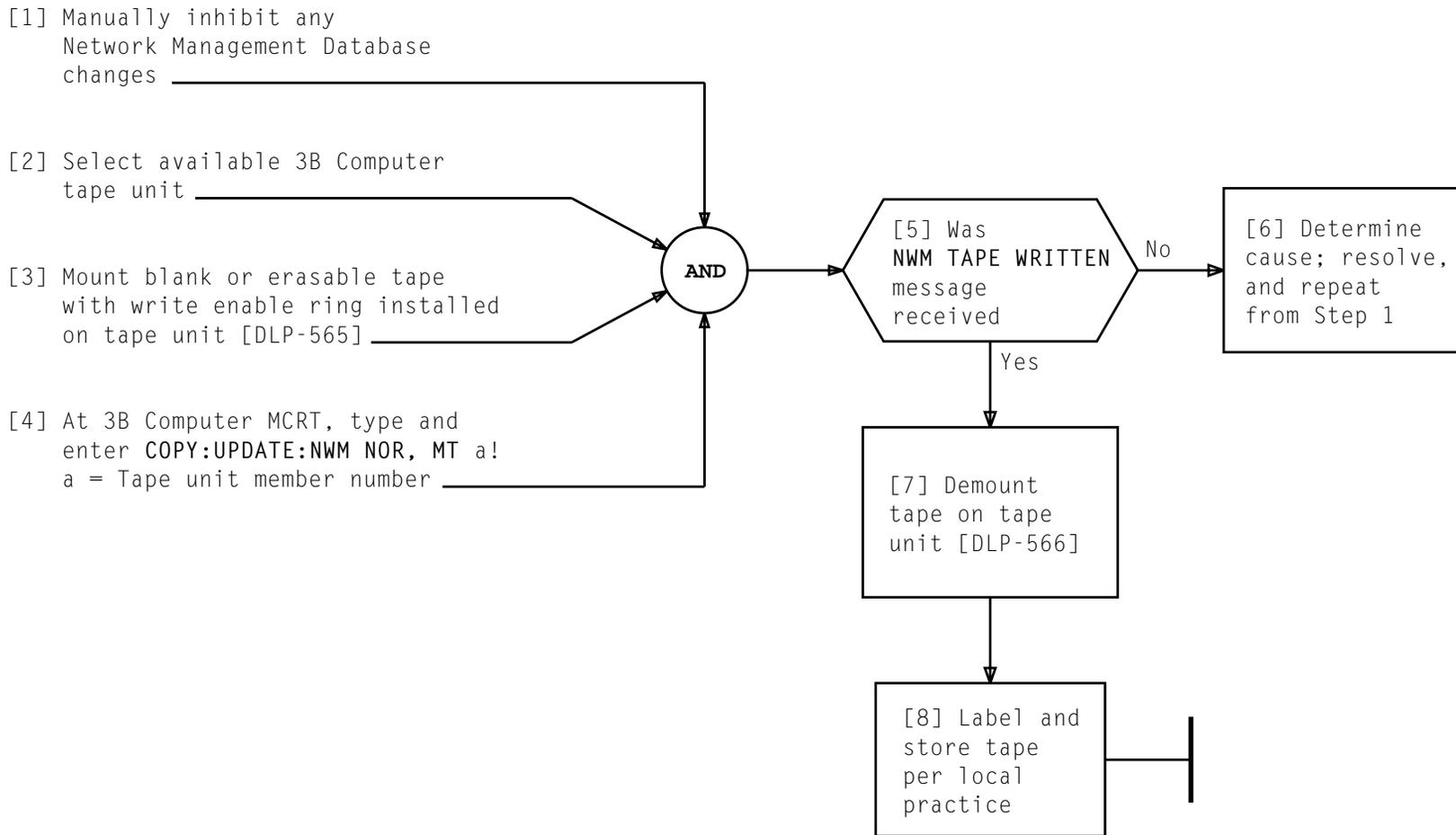
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NOTE 1	
Local procedures will dictate tape units on which TLP tape can be mounted	
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PLACE TROUBLE LOCATION PROCEDURE (TLP) TAPE IN SERVICE



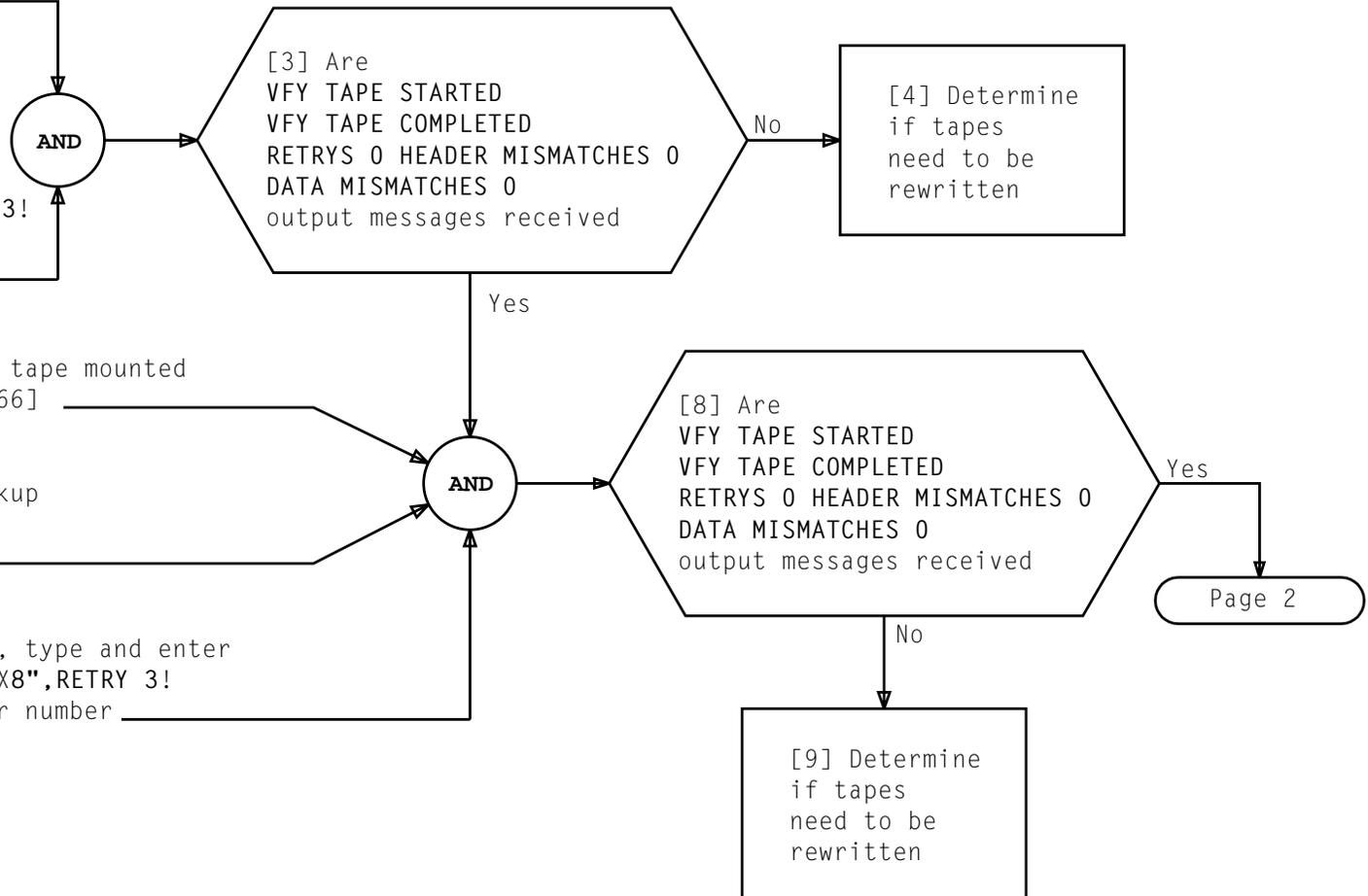
[1] Mount RT0/ first backup tape
on available tape unit
[DLP-565]

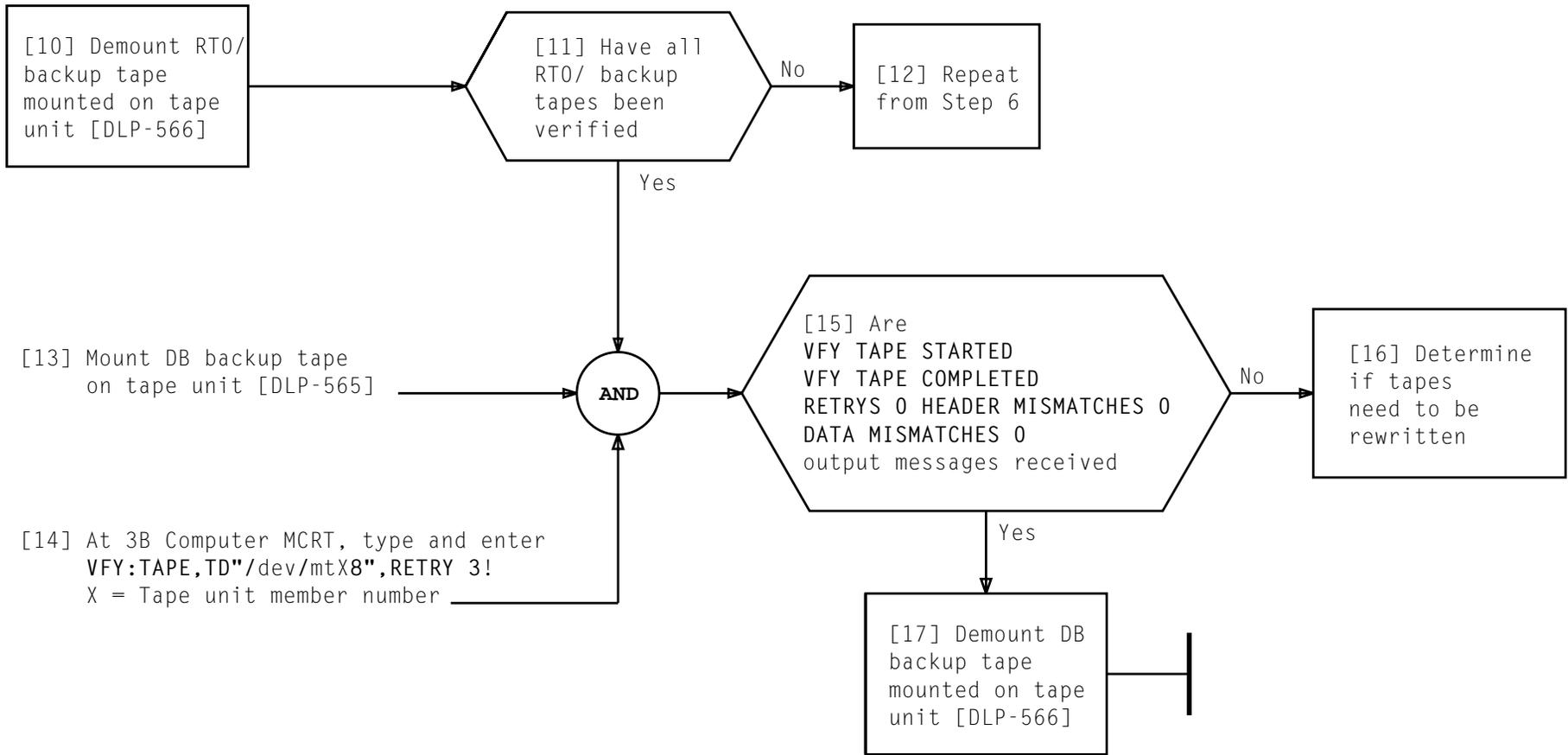
[2] At 3B Computer MCRT,
type and enter
VFY:TAPE,TD"/dev/mtX8",RETRY 3!
X = Tape unit member
number

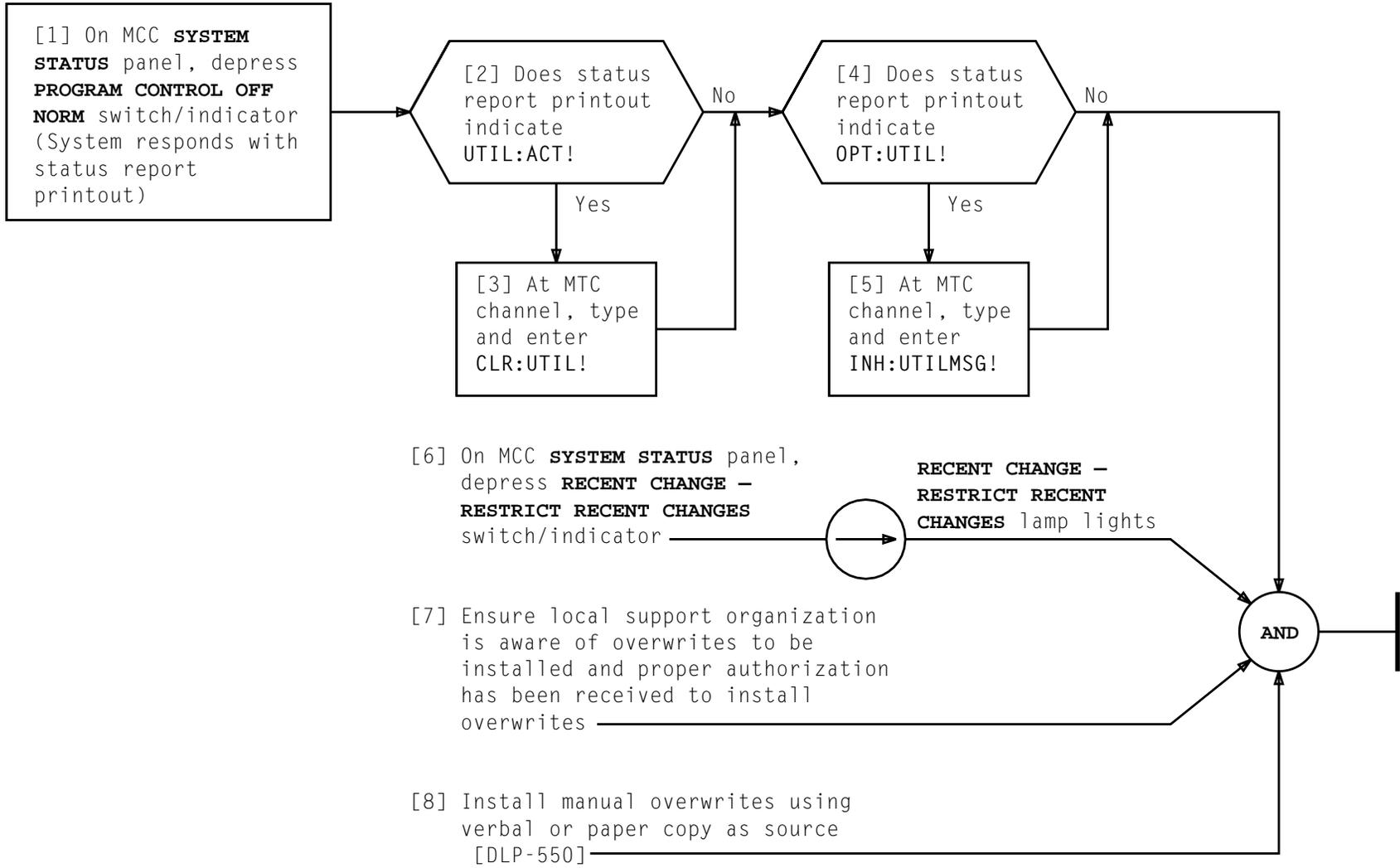
[5] Demount RT0/ backup tape mounted
on tape unit [DLP-566]

[6] Mount next RT0/ backup
tape on tape unit
[DLP-565]

[7] At 3B Computer MCRT, type and enter
VFY:TAPE,TD"/dev/mtX8",RETRY 3!
X = Tape unit member number





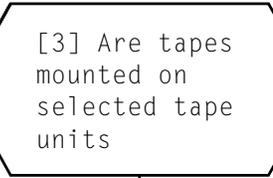


INSTALL AUTHORIZED OVERWRITES FOLLOWING SYSTEM REINITIALIZATION (SR)

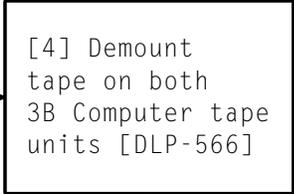
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[1] Obtain 1600 BPI generic and ODA tapes and ensure that they are compatible

[2] Select two 3B Computer tape units for mounting generic and ODA tapes



Yes



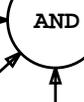
No

[5] Mount 1600 BPI generic and ODA tapes on separate 3B Computer tape units [DLP-565]

[6] Load 1600 BPI generic and ODA data on disk [DLP-602]

[7] Verify 1afile hashed areas contain zero errors [DLP-584]

[8] At 3B Computer MCRT, type and enter INIT:APDRV:FPI!



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REINITIALIZATION (SR) USING 1600 BPI TAPES**

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[9] On MCC **VERRIDE CONTROL** panel, release all activated switch/indicators

[10] On MCC **VERRIDE CONTROL** panel, select an override configuration [TABLE A]

[11] On MCC **UPDATE** panel, depress **UPDATE** key

[12] On MCC **ROCESSOR CONFIGURATION SEQUENCER** panel, depress **DISABLE AUTO PC** switch/indicator to obtain lighted condition, and depress **RESET COUNTER**

PC state counter at state 0

[13] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress any lighted keys

[14] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **MODIFY RECOVERY ACTIONS; PHASE-4-REQUEST**, and **DIRECT DATA INSERT 16** and **17** keys

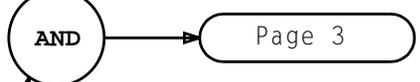
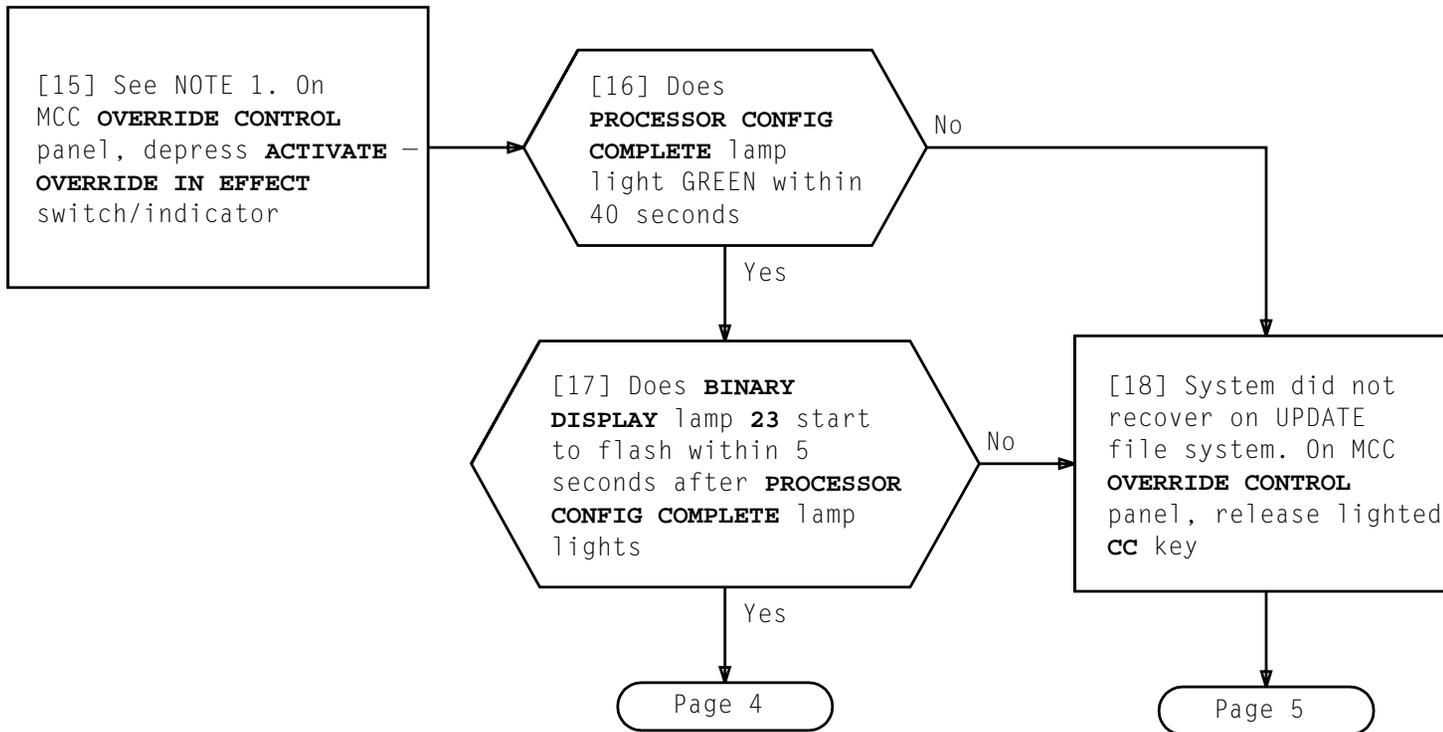


TABLE A VALID OVERRIDE CONFIGURATIONS									
CONFIGURATION	OVERRIDE CONTROL LAMPS								
	CC 0	CC 1	PSB 0	PSB 1	AUB 0	AUB 1	BLOCK 0 PS 0	VARIABLE PS 0	VARIABLE PS 1
1	X		X		X		X		
2	X		X		X			X	
3	X		X		X				X
4	X		X			X	X		
5	X		X			X		X	
6	X		X			X			X
7	X			X	X		X		
8	X			X	X			X	
9	X			X	X				X
10	X			X		X	X		
11	X			X		X		X	
12	X			X		X			X
13		X	X		X		X		
14		X	X		X			X	
15		X	X		X				X
16		X	X			X	X		
17		X	X			X		X	
18		X	X			X			X
19		X		X	X		X		
20		X		X	X			X	
21		X		X	X				X
22		X		X		X	X		
23		X		X		X		X	
24		X		X		X			X

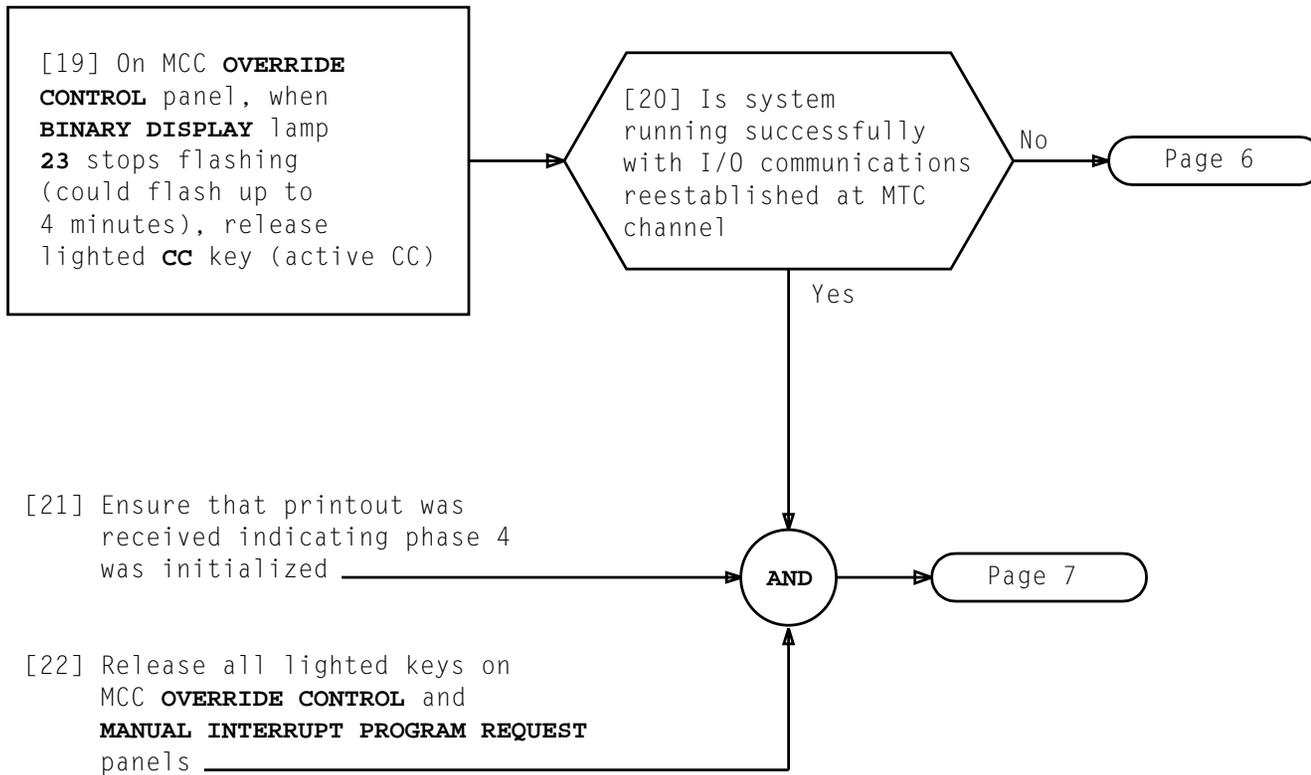
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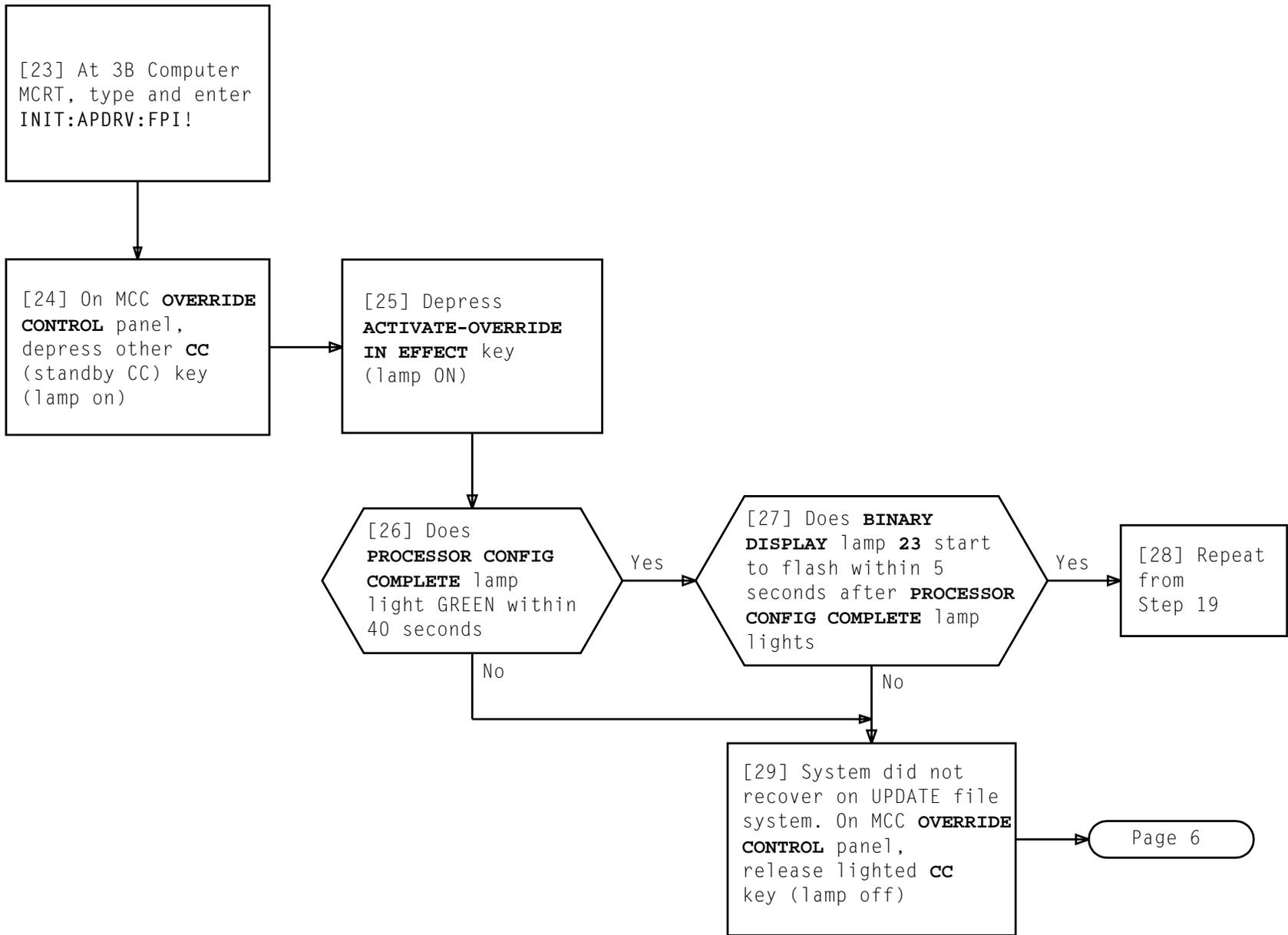
NOTE 1	
As soon as ACTIVATE-OVERRIDE IN EFFECT key is depressed, BASIC PROCESSOR, CALL STORE, and PROGRAM STORE lamps light red for short time. PROCESSOR CONFIG COMPLETE lamp goes off. PROCESSOR CONFIG COMPLETE lamp lights green if good processor configuration is established.	
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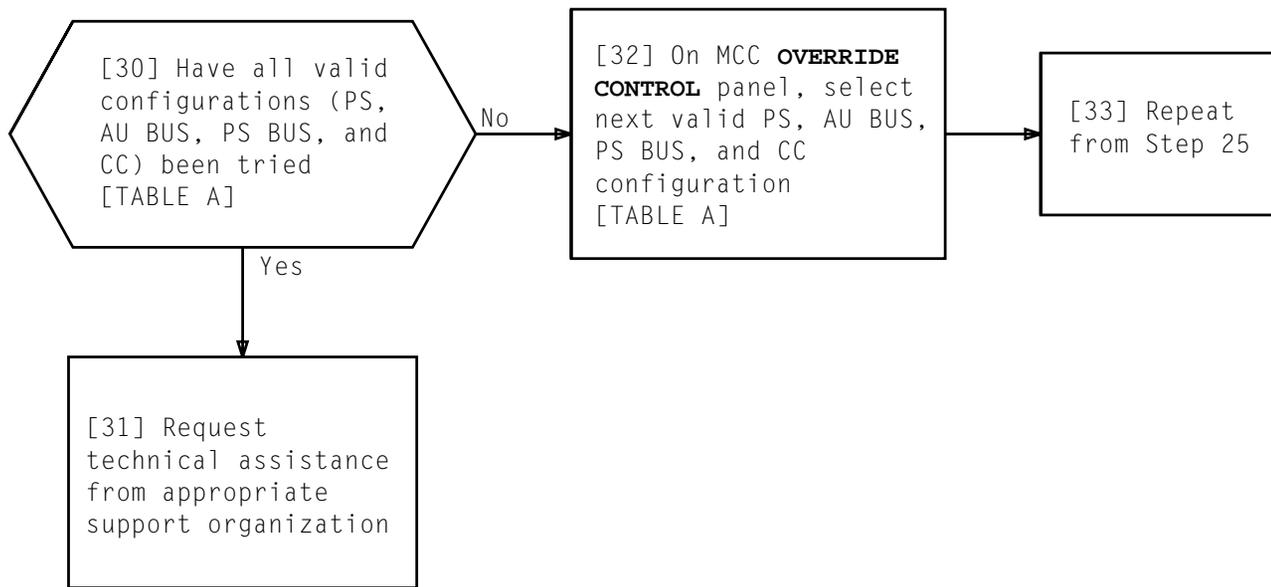
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[34] Ensure that system comes up with no duplex failures and out-of-service units are being restored

[35] On MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, verify that none of the **PHASE-IN PROG** lamps have been lighted in last 30 seconds and **FULL CFG** lamp is off

[36] On MCC **SYSTEM PERFORMANCE** panel, verify that **SYSTEM ACTIVITY** lamps are working

[37] On MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, release **DISABLE AUTO PC** key

DISABLE AUTO PC and PC ATTEMPT lamps off

AND

[38] Did any **OVERRIDE CONTROL** configuration fail

Yes

[39] Request technical assistance from appropriate support organization

No

[40] At MTC channel, type and enter **UPD:COMMIT;UPDATEFILE!**
Response:
 System responds with **UPD:COMMIT COMPLETED TO UPDATEFILE** message

PERFORM 1A PROCESSOR OVERRIDE ACTIVATED SYSTEM REINITIALIZATION (SR) USING 1600 BPI TAPES

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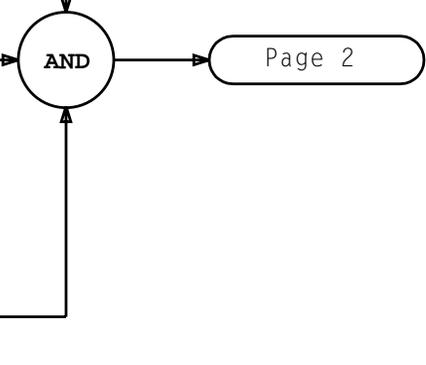
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[1] At 3B Computer MCRT,
 type and enter
VER:UPDATE:TAPE,MT a!
 a = Tape unit member
 number with generic
 tape mounted

[2] On generic tape header
 printout [FIG. 1], identify
 and record generic
 identification number

[3] At 3B Computer MCRT,
 type and enter
LOAD:UPDATE:GEN "a",MT b!
 a = Generic Identification number
 b = Tape unit member number with
 generic tape mounted

System responds
 with generic load
 progress messages
 [FIG. 2]



```

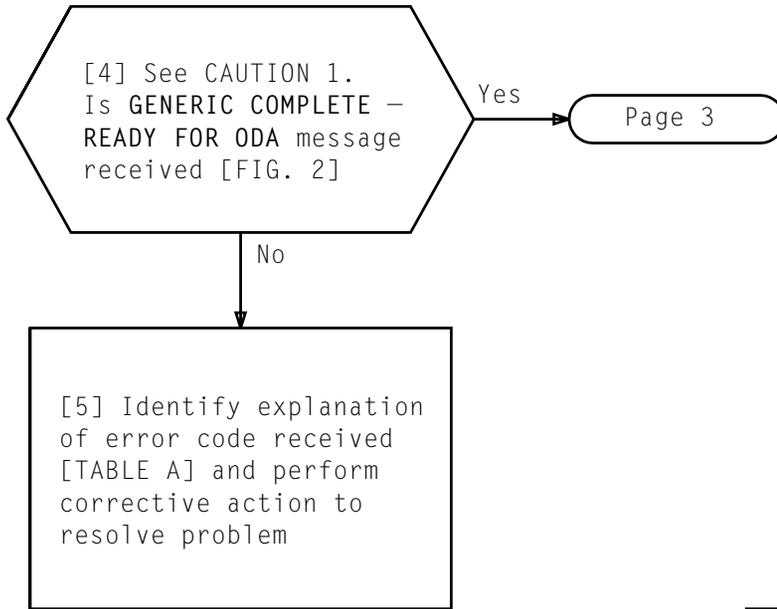
  TAPE TYPE: GEN
  GENERIC 4E<12>4A.01
  MOST RECENT OFL GENERATION: YR 88,MON 03,DAY 04 AT 11:28
  THIS TAPE WRITTEN: YR 88,MON 03,DAY 04 AT 17:19
  FS IDS: 0000000000000010,TAPE IDS: 0000000011111111
  PARTL UPD FLG: 0 PHASE REQD: 0001000
  
```

Generic
 Identification

FIG. 1 - Sample Printout of Generic Tape Header Information

**LOAD 1600 BPI GENERIC AND OFFICE DATA ASSEMBLY (ODA)
 DATA ON DISK**

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```

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. 2 - Sample Printout of Generic Load Progress Messages

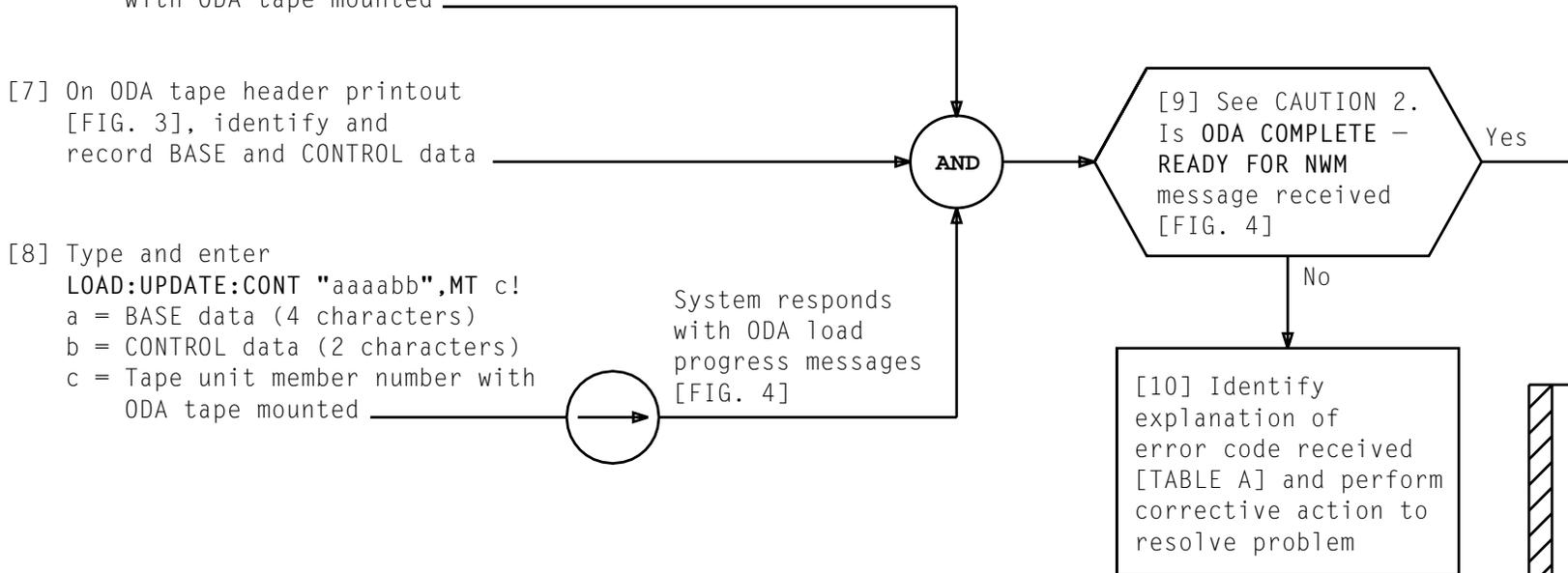
CAUTION 1
When GENERIC COMPLETE - READY FOR ODA message is received, update program enters a 20-minute wait mode. Input messages to process ODA tape must be entered within this time limit or the process will be terminated. If the process is terminated, all loads will have to be repeated

[6] At 3B Computer MCRT,
type and enter
VER:UPDATE:TAPE,MT a!
a = Tape unit member number
with ODA tape mounted

[7] On ODA tape header printout
[FIG. 3], identify and
record BASE and CONTROL data

[8] Type and enter
LOAD:UPDATE:CONT "aaaabb",MT c!
a = BASE data (4 characters)
b = CONTROL data (2 characters)
c = Tape unit member number with
ODA tape mounted

System responds
with ODA load
progress messages
[FIG. 4]



BASE AND CONTROL DATA

```

TAPE TYPE: ODA
BASE 908F,CONTROL HO
ORIGINAL GENERIC 4E<G12>.4R
MOST RECENT OFL GENERATION: YR 88,MON 03,DAY 05 AT 16:23
THIS TAPE WRITTEN: YR 88,MON 03,DAY 09 AT 08:23
FS IDS: 0000000000001000,TAPE IDS: 0000000011110100
PRTL UPD FLG: 0,PHASE REQD: 0001000
  
```

```

TAPE HEADER
.
.
.
TAPE FILE 10 LOADED TO FS
.
.
TAPE FILE n LOADED TO FS
ODA COMPLETE - READY FOR NWM
  
```

FIG. 4 - Sample Printout of ODA Load Progress Messages

FIG. 3 - Sample Printout of ODA Tape Header Information

CAUTION 2
When ODA COMPLETE - READY FOR NWM message is received, update program enters a 20-minute wait mode. Input messages to process NWM tape must be entered within this time limit or the process will be terminated. If the process is terminated, all loads will have to be repeated

LOAD 1600 BPI GENERIC AND OFFICE DATA ASSEMBLY (ODA) DATA ON DISK

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**TABLE A
SYSTEM ERROR CODES**

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
100	Failure on access of 1ASTAT file	117	Size of hash sums area on tape not as expected
101	UPDATE file is in update mode	118	First word in 3-word block header invalid
102	UPDATE file is unlocked	119	Tape read error or missing EOF
103	Cannot allocate main memory for merge data	11a	ODA CS2FS map indicates data in all-generic 32K block
104	Cannot allocate main memory for tape reads	11b	Invalid ODA CS2FS map value when generic map has DDB pointer
105	Cannot open 1AFILE for reading	11c	Start address of FS-only block less than previous end address
106	Cannot open 1AFILE for reading and writing	11d	Invalid combination for ODA and generic CS2FS maps
107	Mismatch of ID tag for tape-only data	11e	FS address for hash head table on tape not as expected
108	Failure on seek of 1AFILE	11f	MM address for hash head table on tape not as expected
109	Failure on read of 1AFILE	120	ODA tape hash pointers not in numerical sequence
10a	Invalid command line combination	121	Generic tape hash pointers not in numerical sequence
10b	Cannot open tape drive for reading	122	First word in 3-word header for hash sum block invalid
10c	Cannot read tape	123	Invalid hash pointers
10d	Cannot open scratch file for tape header information	124	Unexpected ID tag on tape
10e	Missing expected EOF	125	Hash collision by data other than generic or ODA
10f	Record size not equal to 1545 bytes	126	Invalid ID tag requested for read tape and write FS
110	Size of ID2FS map on tape not as expected	127	Failure on write of 1AFILE
111	FS address of ID2FS map on tape not as expected	128	Pointer error in ID2FS map for merge data
112	MM address of ID2FS map on tape not as expected		
113	Size of CS2FS map not as expected		
114	FS address of CS2FS map on tape not as expected		
115	MM address of CS2FS map on tape not as expected		
116	Size of hash head table on tape not as expected		

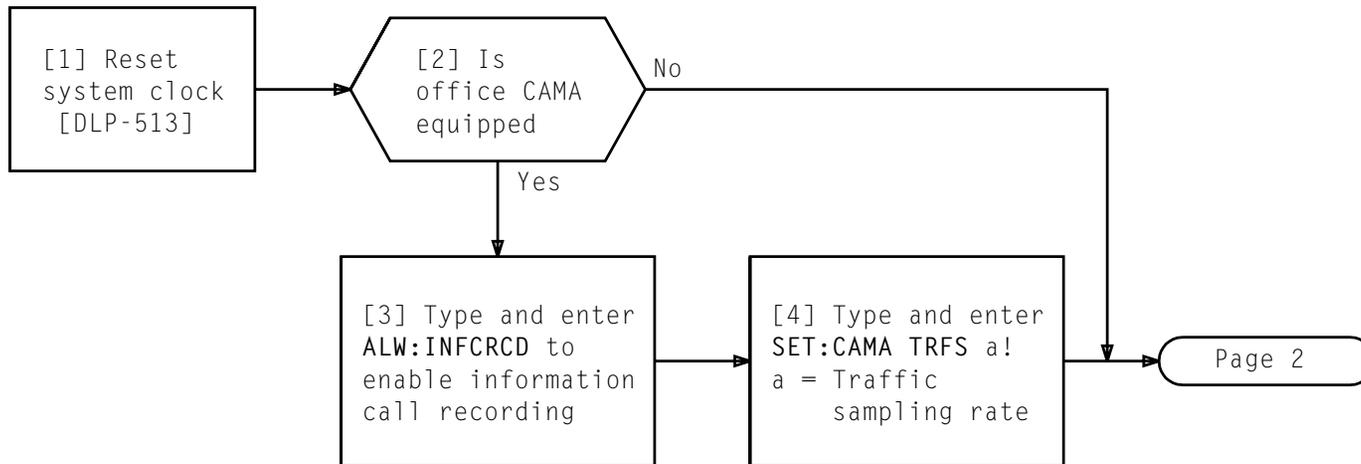
**LOAD 1600 BPI GENERIC AND OFFICE DATA ASSEMBLY (ODA)
DATA ON DISK**

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**TABLE A (Contd)
SYSTEM ERROR CODES**

ERROR CODE	EXPLANATION	ERROR CODE	EXPLANATION
129	Disagreement in ID2FS map data for hash head table addresses	13a	Mismatch on ID2FS map between system and tape
12a	Disagreement in ID2FS map data for tape header addresses	13b	Mismatch on top part of CS2FS map between system and tape
12b	Disagreement in ID2FS map data for ID2FS and CS2FS addresses	13c	Mismatch on DDB part of CS2FS map between system and tape
12c	Failure on create of UNIX™ file for SYSRBASE	13d	Mismatch of OFL generation date and time for system and tape
12d	Failure on write of UNIX file for SYSRBASE	13e	Failure on seek of difference file
12e	Out-of-range MM address for translation to FS address	13f	Difference file data greater than 64512 words
12f	Cannot translate valid MM address to FS address	140	Inadequate buffer space for difference information
130	Invalid condition in collision block	141	Failure to create difference file
131	Cannot open tape drive for writing	142	Failure on open of difference file
132	Failure on write to tape	143	Failure on write of difference file
133	Pointer error in ID2FS map	144	Error in CS2FS DDB pointer
134	Disagreement in ID2FS map for network management addresses	145	Hash sum error for shared block
135	Failure on create of UNIX file for tape-only data		
136	Failure on seek of UNIX file for tape-only data		
137	Failure on write of UNIX file for tape-only data		
138	Tape is not the required NWM tape		
139	Tape is not an SR tape		



**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION
(SR) USING 1600 BPI TAPES**

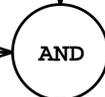
Revised

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[5] At MTC channel, type and enter
RST:a b! to restore all units
 lost during SR
 a = Unit type
 b = Unit member number

[6] Type and enter **INIT:DFSTAT**
 to restore any multiple duplex
 failed units

[7] Obtain backup 800 BPI network
 management (NWM) tape and verify
 write-enable ring is not installed



[8] Select available 1A Processor tape
 transport

[9] If tape is mounted on selected
 tape transport, demount tape
 [DLP-536]

[10] Mount NWM tape on tape transport
 [DLP-535]

[11] Load and verify NWM data using
 800 BPI tape [DLP-514]

[12] Demount NWM tape from tape
 transport [DLP-536]

[13] Attach tape retainer strap and
 store tape per local instructions



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**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
 USING 1600 BPI TAPES**

Revised

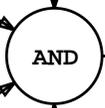
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[14] Obtain 800 BPI traffic and plant measurement (TPM) tape and verify write-enable ring is not installed

[15] Select available 1A Processor tape transport

[16] If tape is mounted on selected tape transport, demount tape [DLP-536]

[17] Mount TPM tape on tape transport [DLP-535]

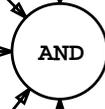


[18] Load and verify TPM data using 800 BPI tape [DLP-515]

[19] Demount TPM tape on tape transport [DLP-536]

[20] Attach tape retainer strap and store tape per local instructions

[21] At MTC channel, type and enter OP:DUSTATUS!

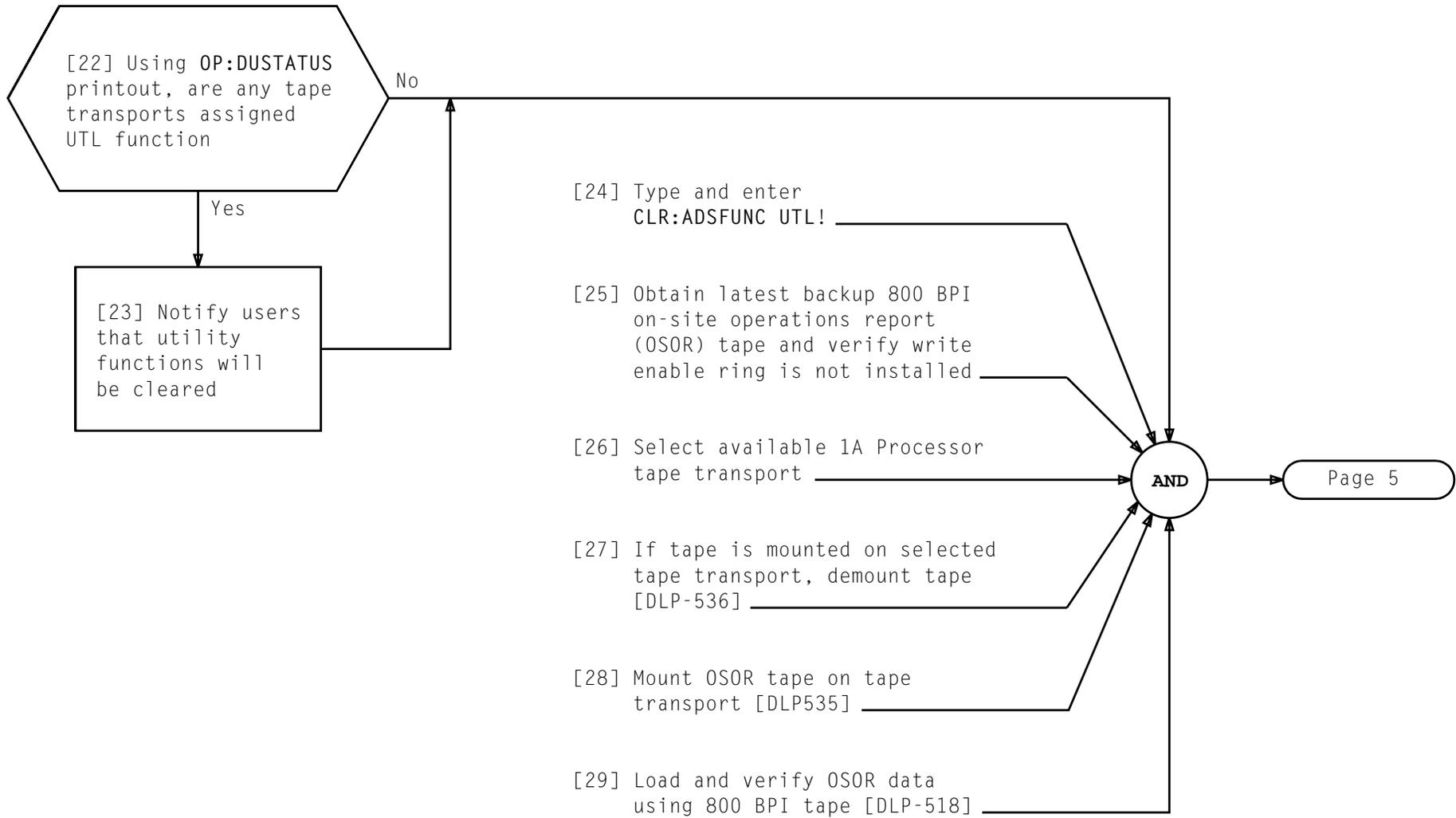


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**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 1600 BPI TAPES**

Revised

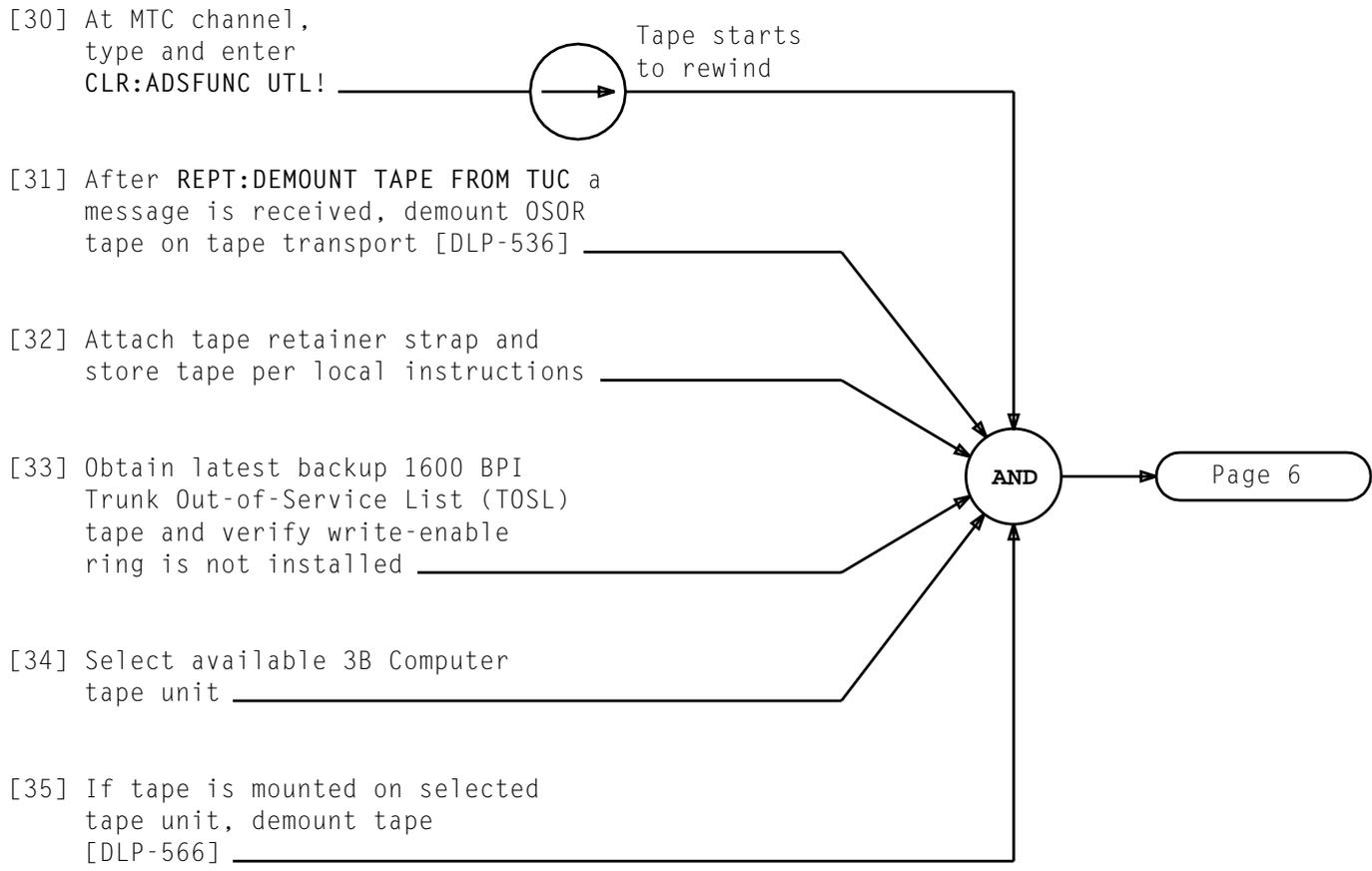
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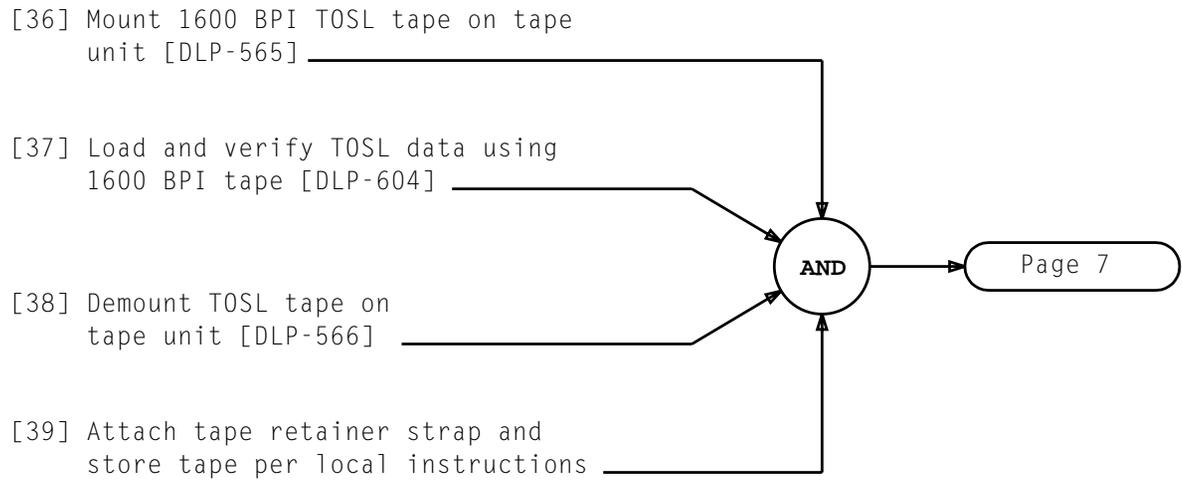
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**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 1600 BPI TAPES**

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[40] Obtain 1600 BPI long-term storage (LTS) tape and ensure write-enable ring is not installed

[41] Select available 3B Computer tape unit

[42] If tape is mounted on selected tape unit, demount tape on tape unit [DLP-566]

[43] Mount LTS tape [DLP-565]

[44] Load and verify LTS data using 1600 BPI tape [DLP-605]

[45] Demount LTS tape on tape unit [DLP-566]

[46] Attach tape retainer strap and store tape per local instructions

AND

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**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 1600 BPI TAPES**

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[47] At MTC channel,
type and enter
AUD:NUM (43,44,45)!

System responds with
AUD COMPLETE, 0 ERRORS
DETECTED message

[48] See NOTE 1. Wait for
AUD COMPLETED, 0 ERRORS
DETECTED message to be
received

[49] At 3B Computer MCRT,
type and enter
RST:LN00 a!
a = DLN member number

System responds with
REPT DLNCM PROC (PUMP):
LN00-a PUMP COMPLETE IN
xxxx MSEC message

[50] Type and enter
RST:LN32 a!
a = DLN member number

System responds with
REPT DLNCM PROC (PUMP):
LN32-a PUMP COMPLETE IN
xxxx MSEC message

[51] Type and enter
OP:MSGRCDF,FS!

System responds with
OP:MSGRCDF,FS COMPL
message

[52] On MCC **SYSTEM STATUS** panel,
ensure that **PROGRAM CONTROL**
OFF NORM lamp is off

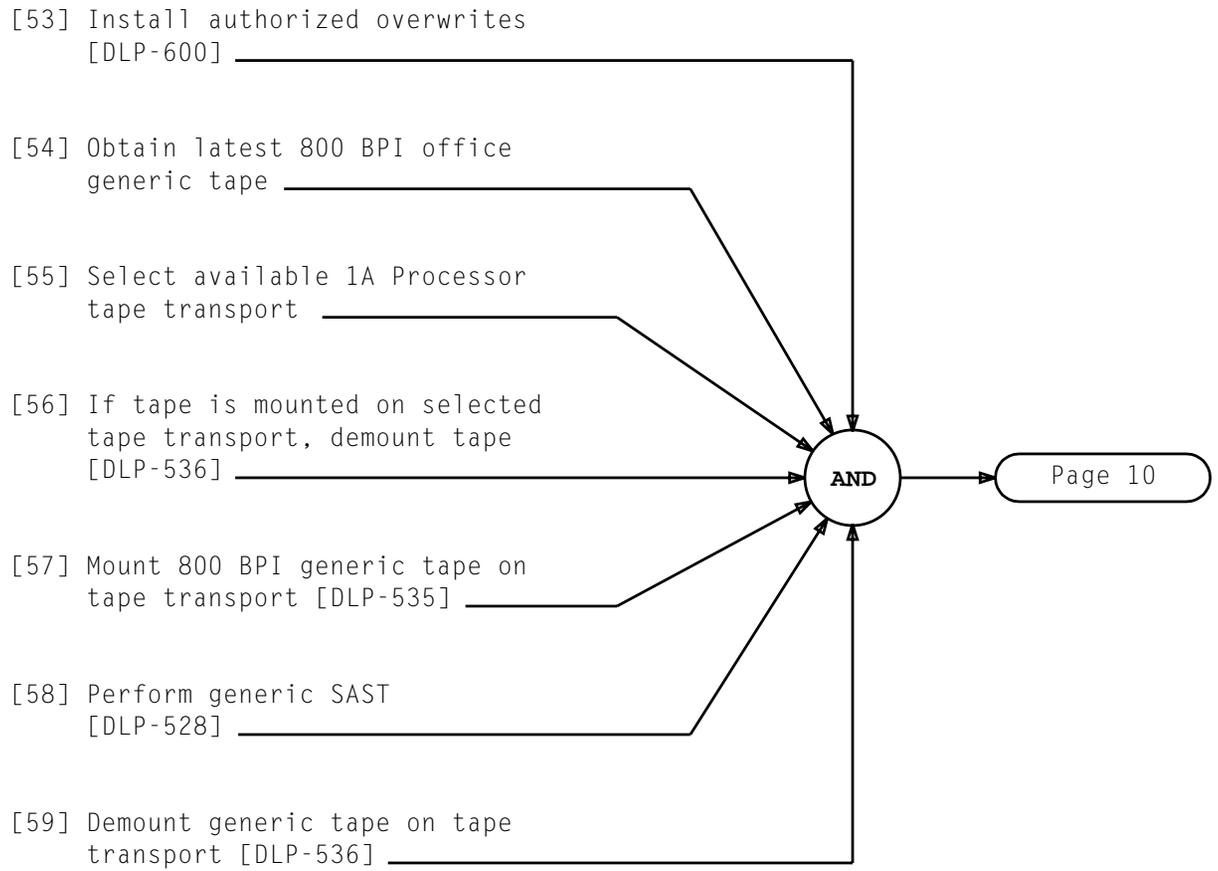
AND

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NOTE 1 Audit 43 takes approximately 40 minutes to complete	
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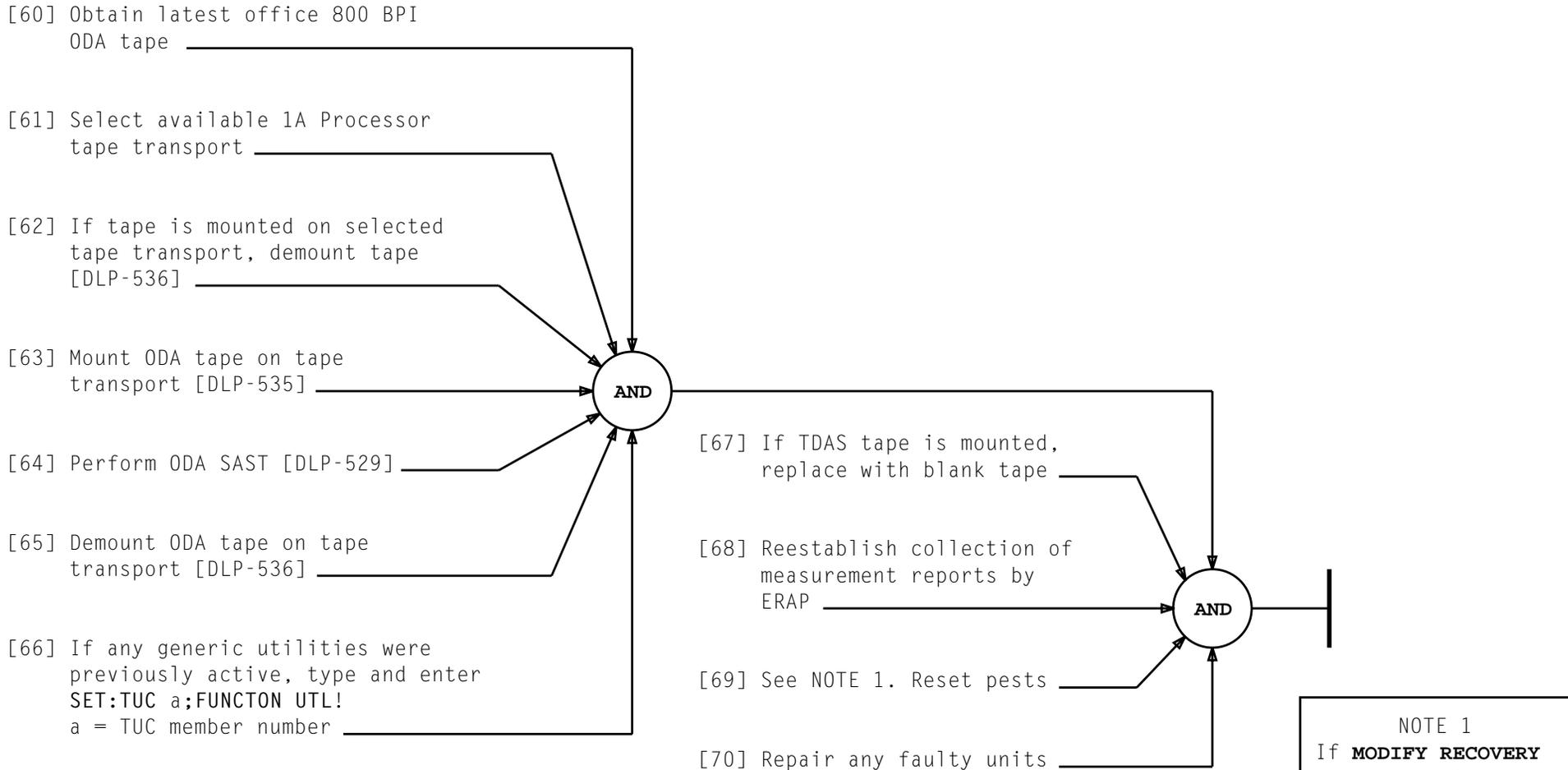
**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
USING 1600 BPI TAPES**



**RESTORE SYSTEM CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR)
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NOTE 1
If **MODIFY RECOVERY ACTIONS** switch/indicator and **DIRECT DATA INSERT 0** switch/indicator were used during recovery, pests should only be reset after consulting with TAC

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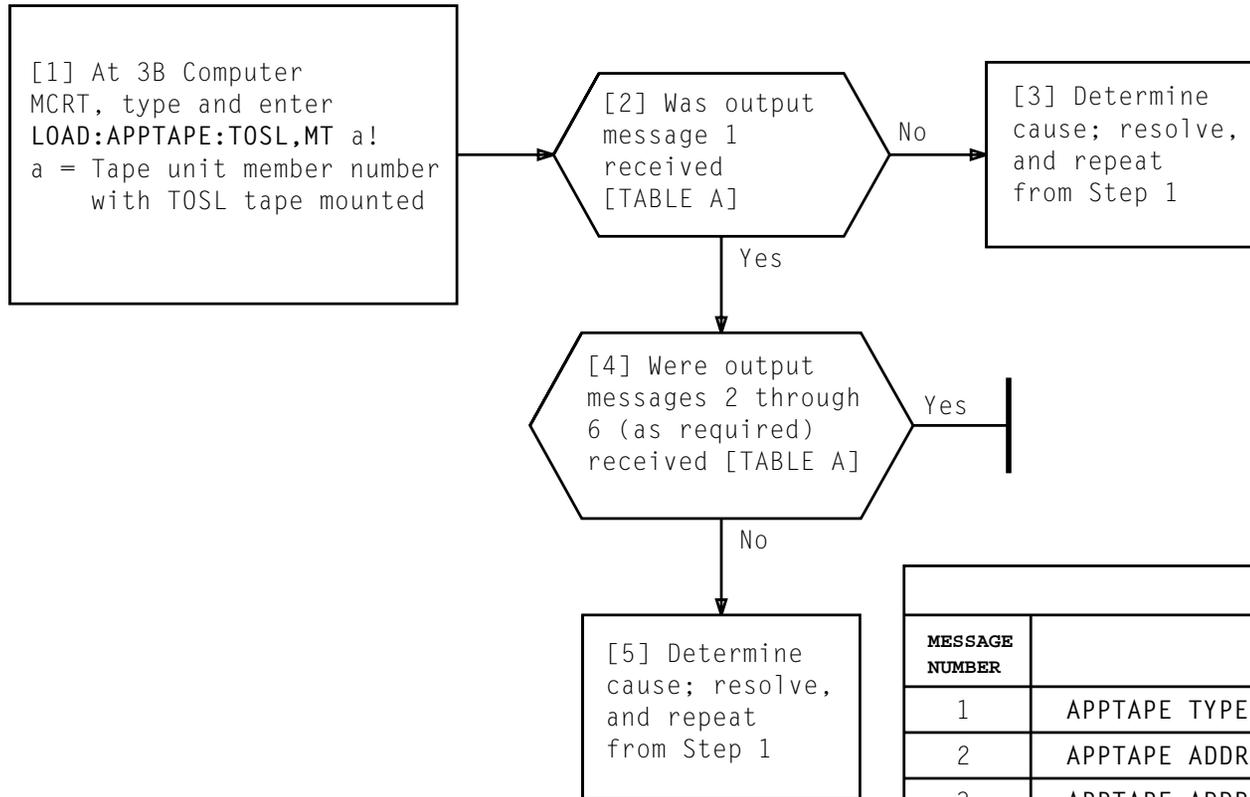


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: TOSL, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb COMPLETED
4*	APPTAPE ADDRESS RANGE cccccccc - dddddddd STARTED
5*	APPTAPE ADDRESS RANGE cccccccc - dddddddd COMPLETED
6	APPTAPE COMPLETED
* Only received if office has Mass Status Table (MST) mm/dd/yy hh:mm = Month/day/year hour:minute tape was written aaaaaaaaa = Starting TOSL address bbbbbbbb = Ending TOSL address cccccccc = Starting MST address dddddddd = Ending MST address	

**LOAD AND VERIFY TRUNK OUT-OF-SERVICE LIST (TOSL)
DATA USING 1600 BPI TAPE**

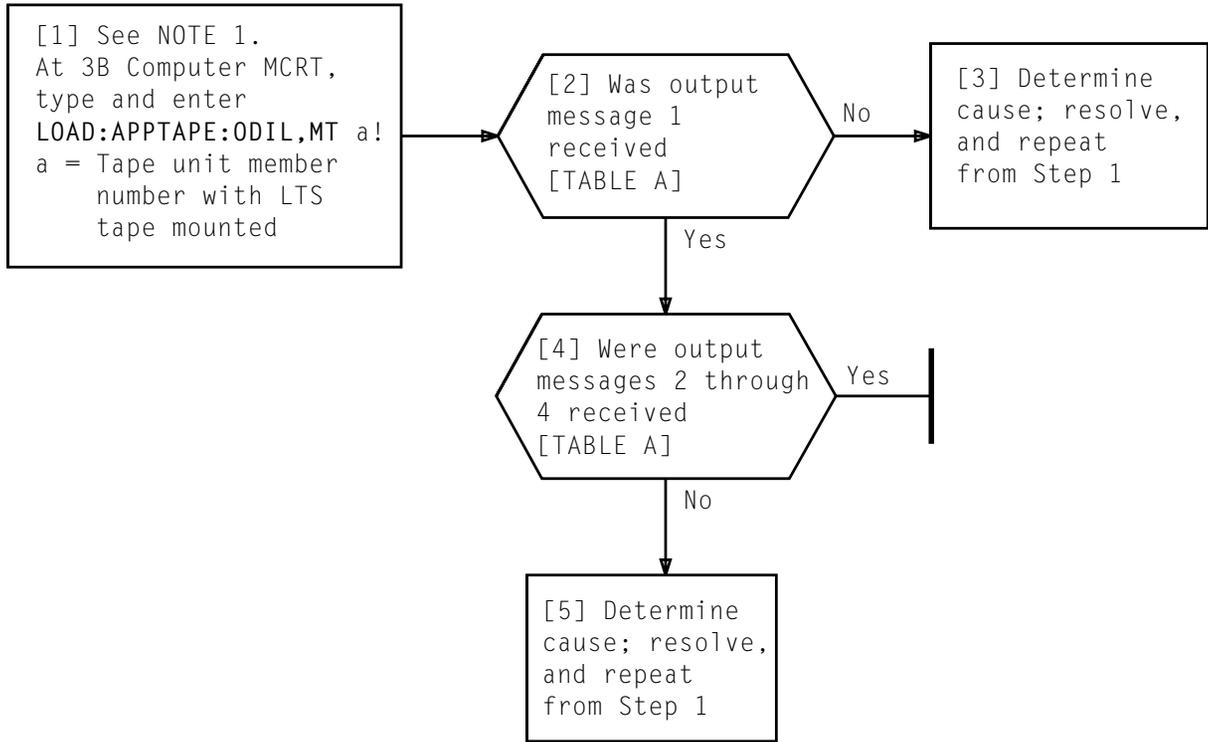
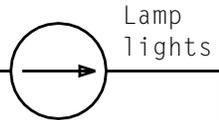


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: TOSL, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = Month/day/year hour:minute tape was written aaaaaaaa = Starting TOSL address bbbbbbbb = Ending TOSL address	

NOTE 1	
Loading of LTS tape must be initiated during 7-minute window beginning 4 minutes past any quarter hour. If LOAD message is not entered during this window, an RL response will be received.	
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[1] On MCC **SYSTEM STATUS** panel, depress **RECENT CHANGE - RESTRICT RECENT CHANGES** switch/indicator



[2] Obtain tape-only program (TOP) tape, applicable generic tapes, and database tape

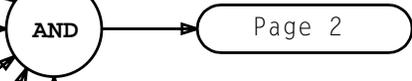
[3] Select available 3B Computer tape unit

[4] If tape is mounted on selected tape unit, demount tape [DLP-566]

[5] Mount tape-only program (TOP) tape on selected tape unit [DLP-565]

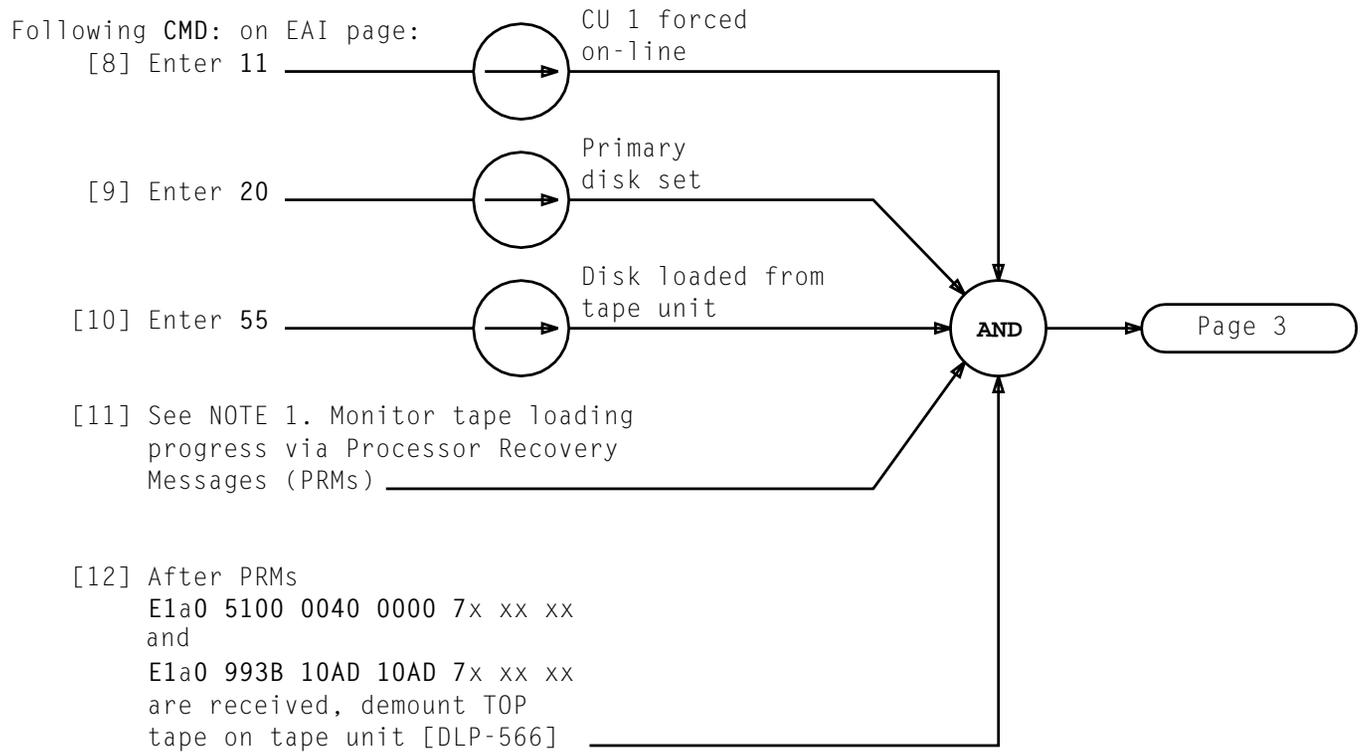
[6] At 3B Computer MCRT, depress **EA-DISP** key

[7] Depress **CMD/MSG** key to place terminal in command mode



PERFORM 3B COMPUTER SYSTEM REINITIALIZATION (SR)

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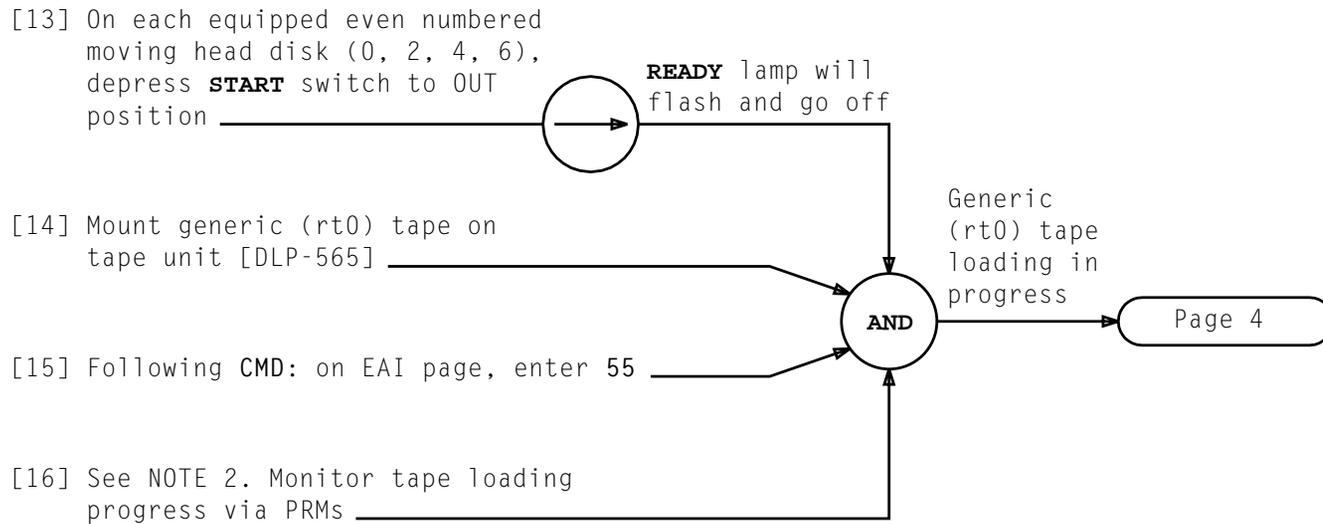


NOTE 1

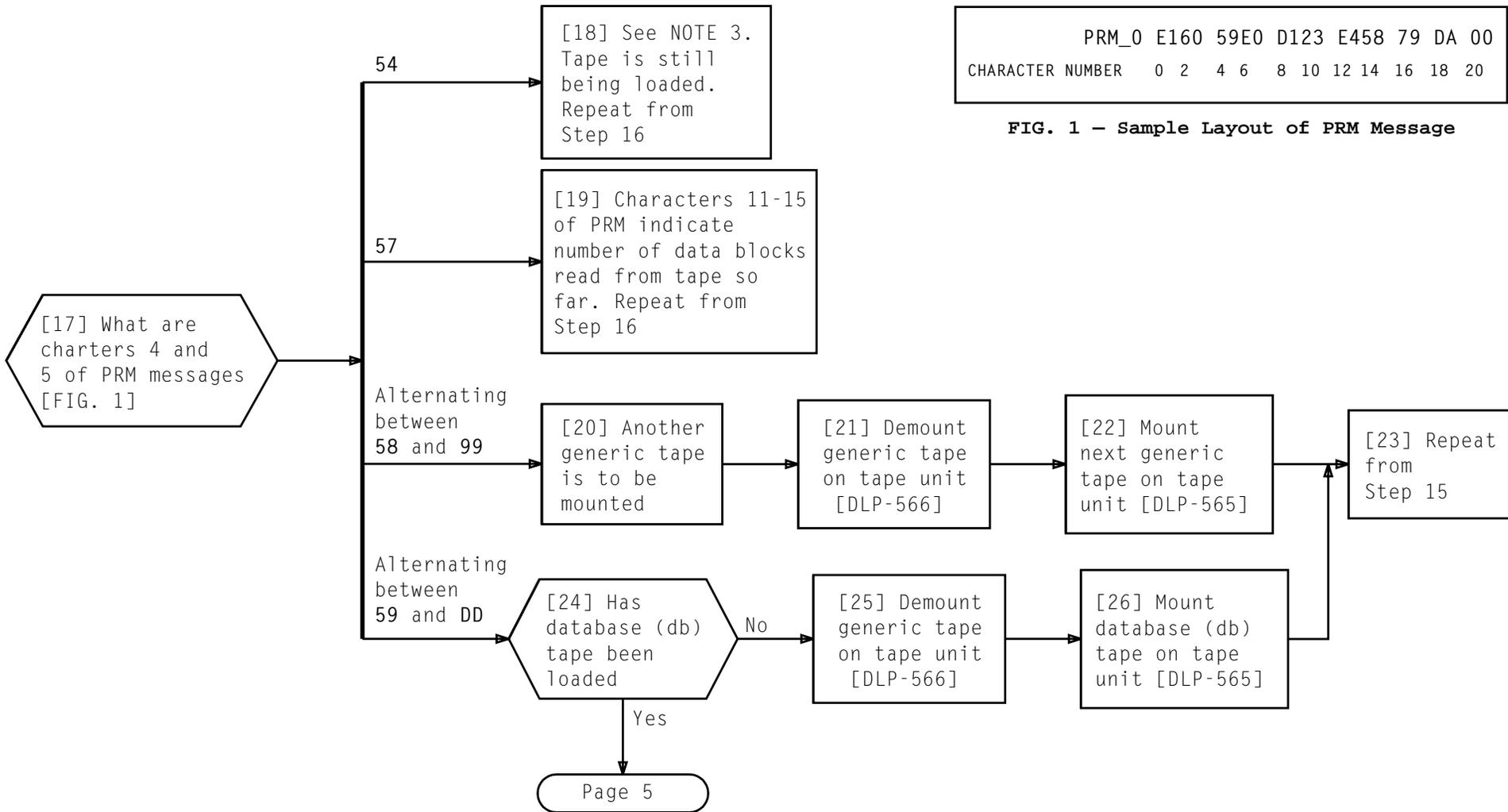
Successful completion of TOP tape load is indicated by alternate printing on read-only printer (ROP) of the following PRMs:

PRM_0 E1a0 5100 0040 0000 7x xx xx
 PRM_0 E1a0 993B 10AD 10AD 7x xx xx
 a = 6 or 7

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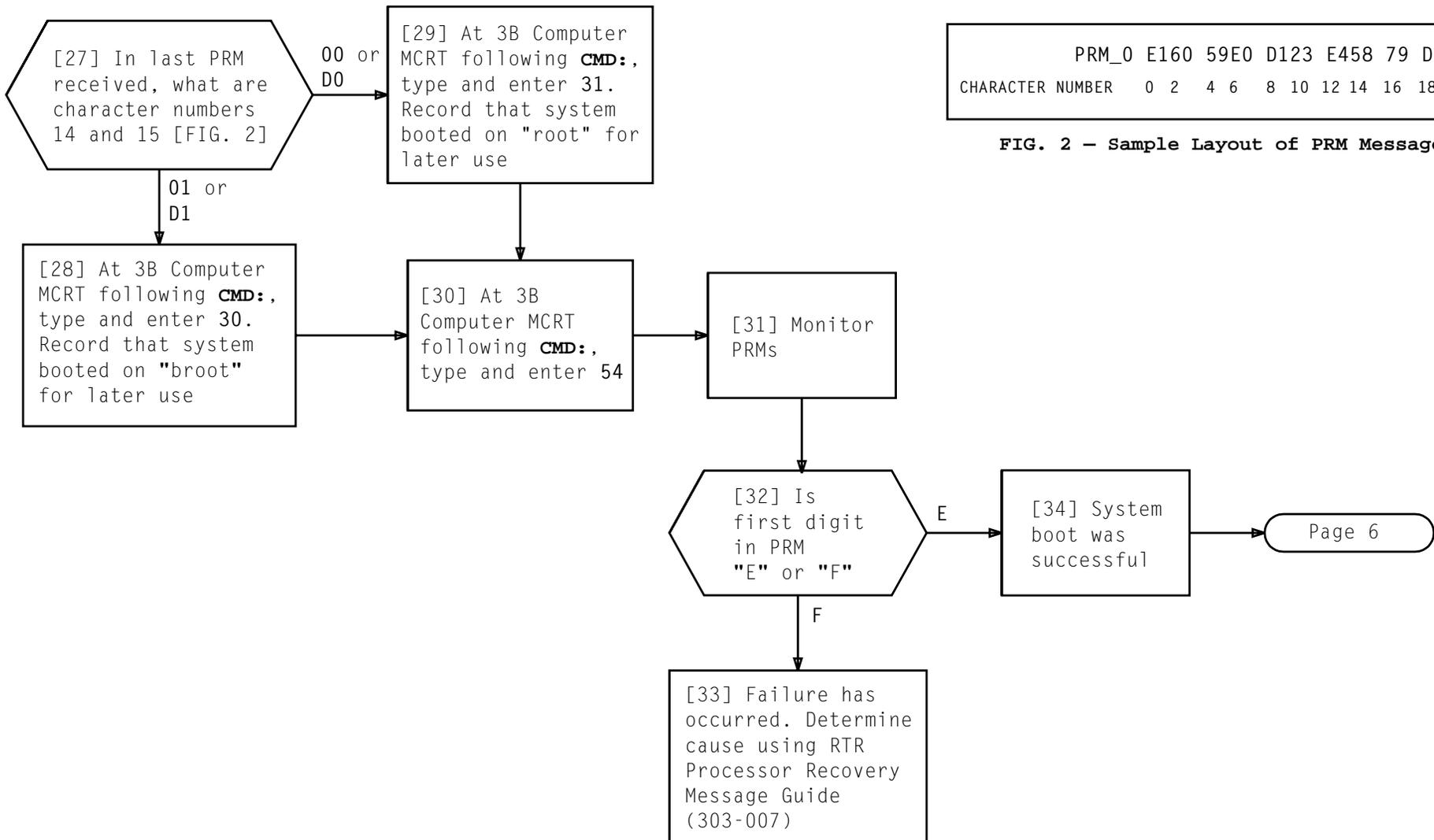
NOTE 2	
During loading of generic (rt0) tape, a series of PRMs will be printed that contain status information pertaining to load	
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PRM_0	E160	59E0	D123	E458	79	DA	00
CHARACTER NUMBER	0	2	4	6	8	10	12 14 16 18 20

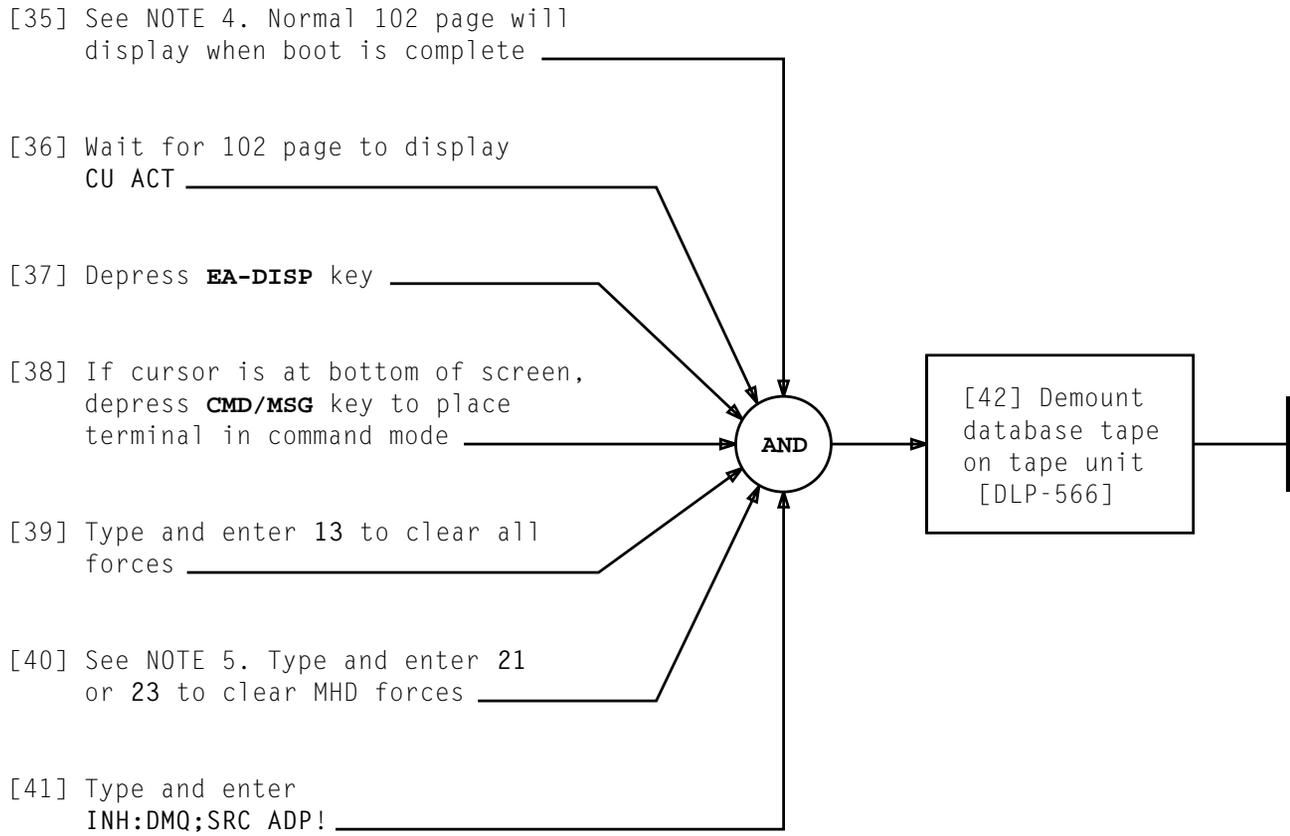
FIG. 1 - Sample Layout of PRM Message

NOTE 3	
Characters 8-15 indicate tape identifier	
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PRM_0	E160	59E0	D123	E458	79	DA	00
CHARACTER NUMBER	0	2	4	6	8	10	12 14 16 18 20

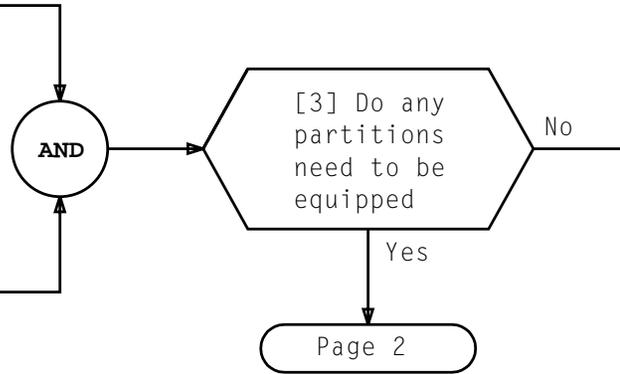
FIG. 2 - Sample Layout of PRM Message

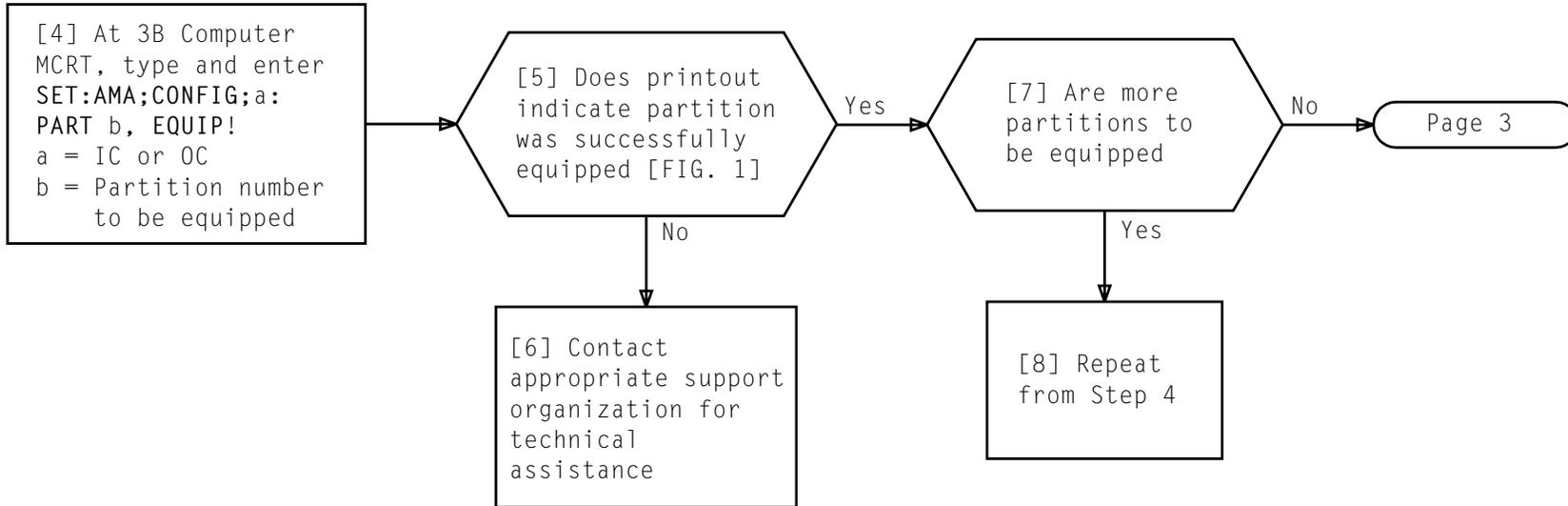


NOTES	
4. It may take several minutes for 102 page to be displayed	
5. MHD 2 and 3 may be duplex failed. They will be loaded in a subsequent procedure.	
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[1] At 3B Computer MCRT, type and enter
OP:AMA;MAPS! _____

[2] Using printout, determine if
partition(s) need to be
equipped _____

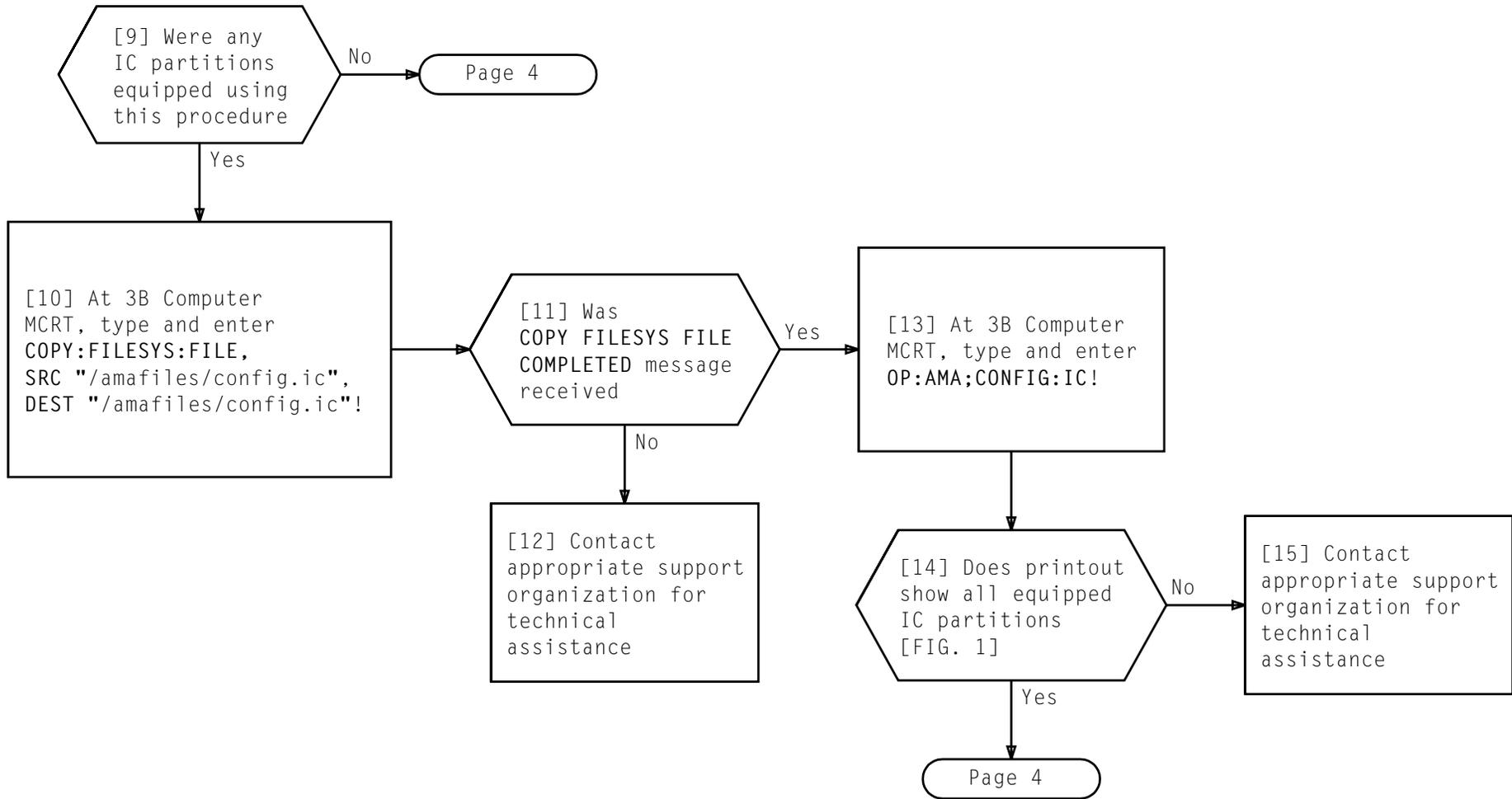


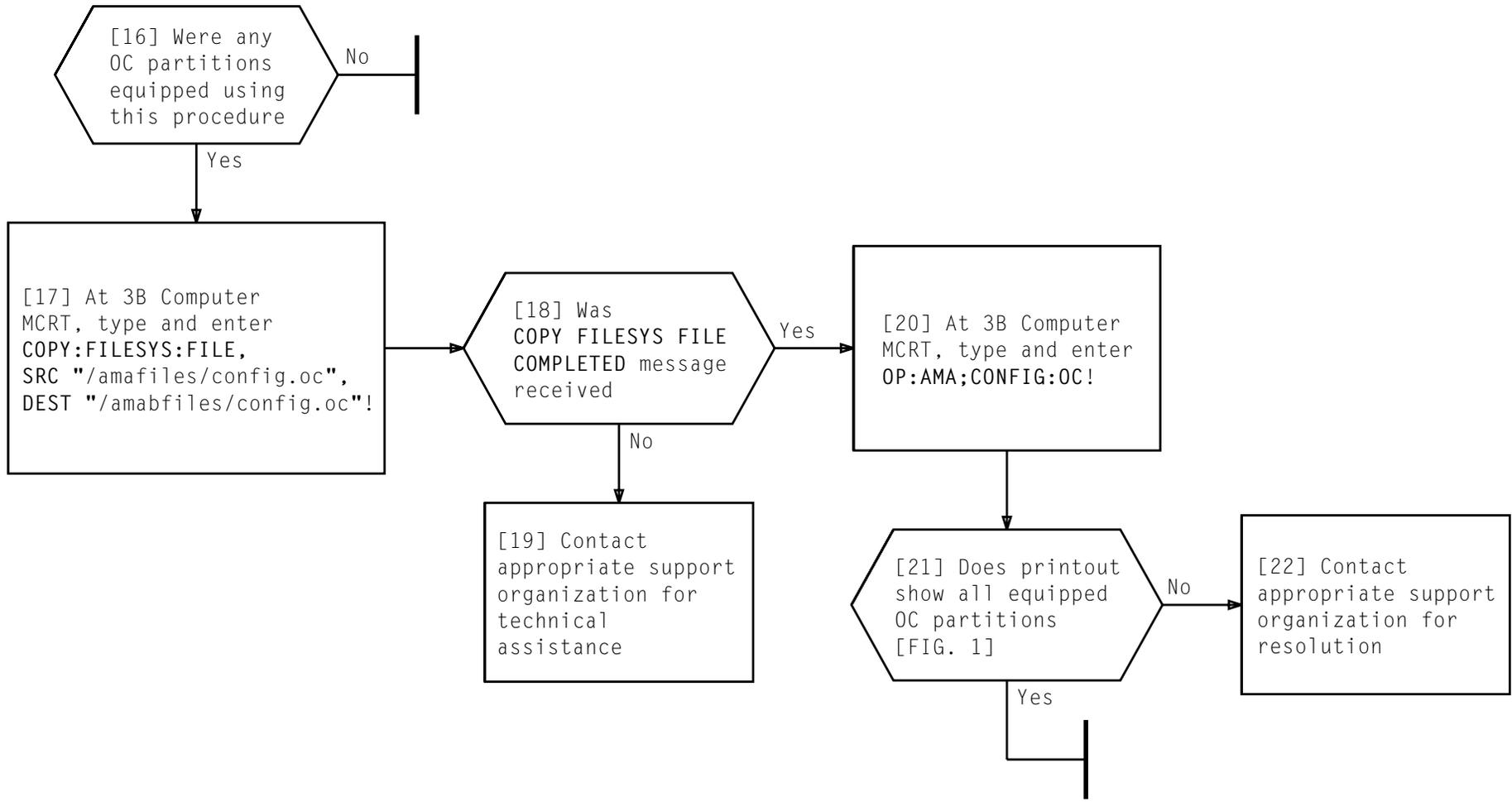


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REPT AMA CONFIG FILE FOR a STREAM
      NUMBER OF EQUIPPED PARTITIONS b
      TOTAL NUMBER OF AMA BLOCKS c
      d e f
a = IC or OC
b = Number of AMA partitions equipped
  for this stream
c = Number of AMA blocks for this stream
d = AMA partition number
e = AMA partition file name
f = Number of AMA blocks for this partition
  
```

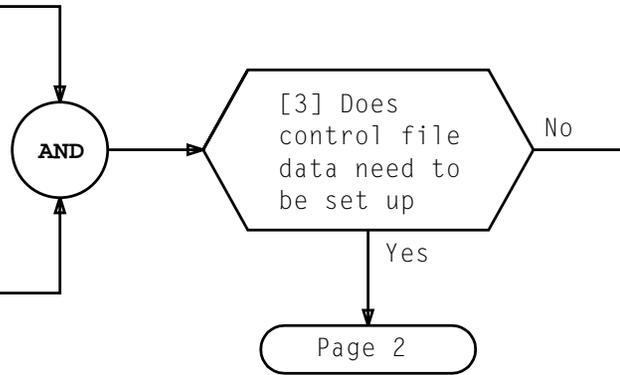
FIG. 1 – Sample Output Message Indicating Successful Equipage of Partition





[1] At 3B Computer MCRT, type and enter
OP:AMA;CONTROLFILE!

[2] Using printout, determine if
control file data needs to
be set up



SET UP AMA CONTROL FILE DATA

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[4] Does IC stream control file data need to be set up

No → Page 4

Yes

[5] Is AMA data processed via AMA TELEPROCESSING

No → [7] At 3B Computer MCRT, type and enter message(s) 1 and 2 (as required) [TABLE A]

Yes

[6] At 3B Computer MCRT, type and enter messages 3 and 4 [TABLE A]

[8] Was printout received indicating changed parameters [FIG. 1]

No → [9] Determine cause; resolve, and repeat from Step 5

Yes

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TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;IC:OFFICEID a,EXPDATE b,OPTION TAPE!
2	If automatic tape writing is used in office SET:AMA;CONTROL;IC:MT c,START d,STOP e,TAPEID "f"!
3	SET:AMA;CONTROL;IC:OFFICEID a,START d,STOP e!
4	SET:AMA;CONTROL;IC:OPTION TP,HOCPSWD g,BACKUPSWD h!
a = Office ID assigned by HOC (6 digits) b = Entered number of days until AMA tape expires c = Default tape drive number for automatic tape process d = Start time for automatic tape writing or teleprocessing (hh,mm) e = Stop time for automatic tape writing or teleprocessing (hh,mm) f = Tape data set ID g = HOC password (10 digits) h = Backup HOC password (10 digits)	

```

REPT AMA CONTROL FILE AUDIT FOR a STREAM
OFFICE ID b
DAYS UNTIL EXPIRATION c
PROCESS START TIME d
PROCESS STOP TIME e
DEFAULT MT FOR AUTO TAPE START f
AMA OPTION IS g
DATA TRANSFER h MANUALLY INHIBITED
AMAT PASSWORD i
HOC PASSWORD j
BACKUP HOC PASSWORD k
PASSWORD FROM LAST SESSION x
TAPE SESSION IS NOT IN PROGRESS
TELEPROCESSING SESSION IS NOT IN PROGRESS
AUTOMATIC TAPE WRITING x INHIBITED
TAPE SEQUENCE NUMBER x
TAPE DATA SET ID l

```

a = IC or OC
b = Office identification
c = Number of days until tape expires
d = Start time in hours and minutes
e = Stop time in hours and minutes
f = Default tape drive for AMA function
g = TAPE or TELEPROCESSING
h = IS or IS NOT
i = AMA teleprocessing password
j = HOC password
k = Backup HOC password
l = Tape data set ID
x = Don't care

FIG. 1 – Sample Output Message Indicating Successful Equipage of Control File

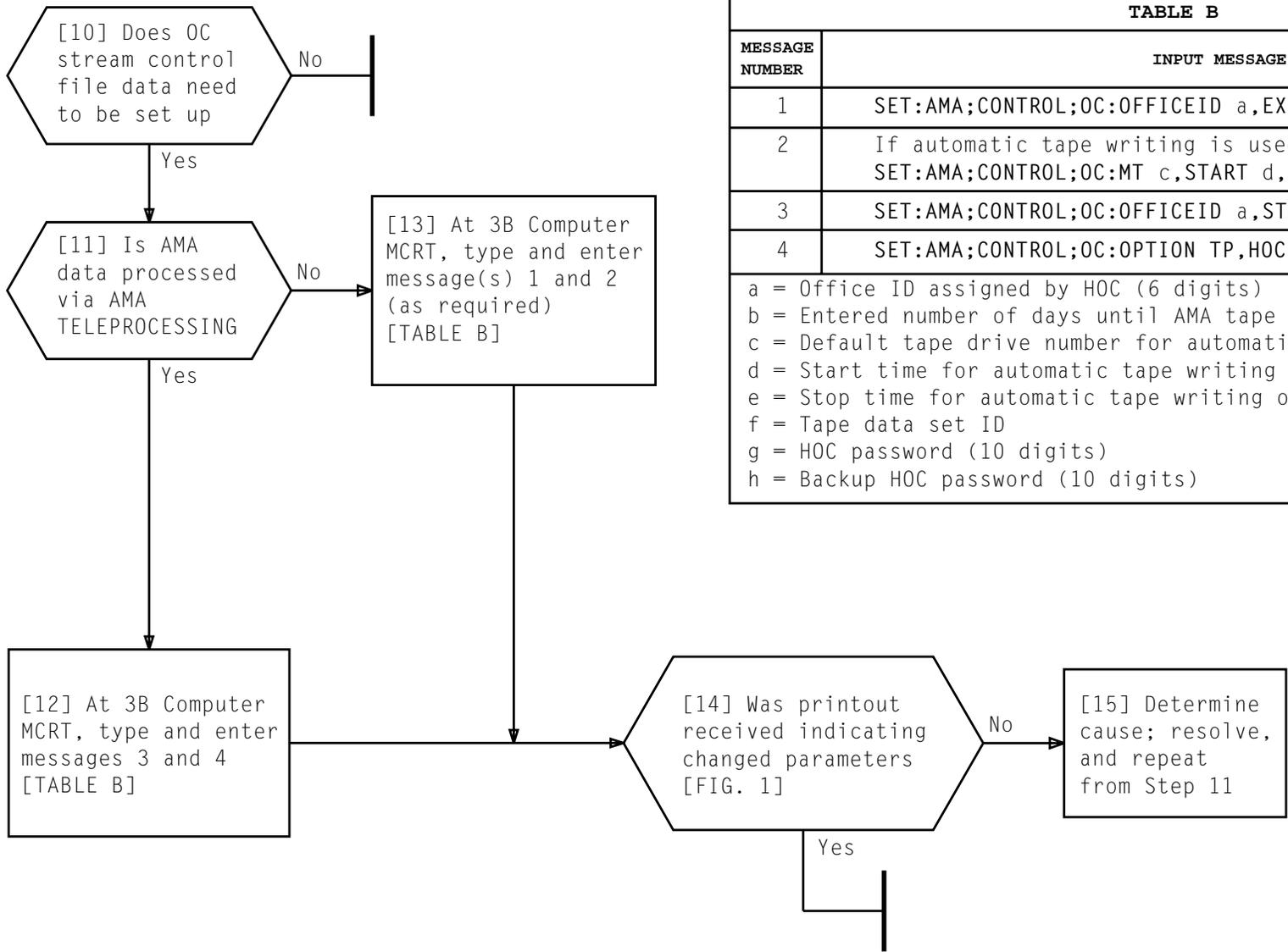
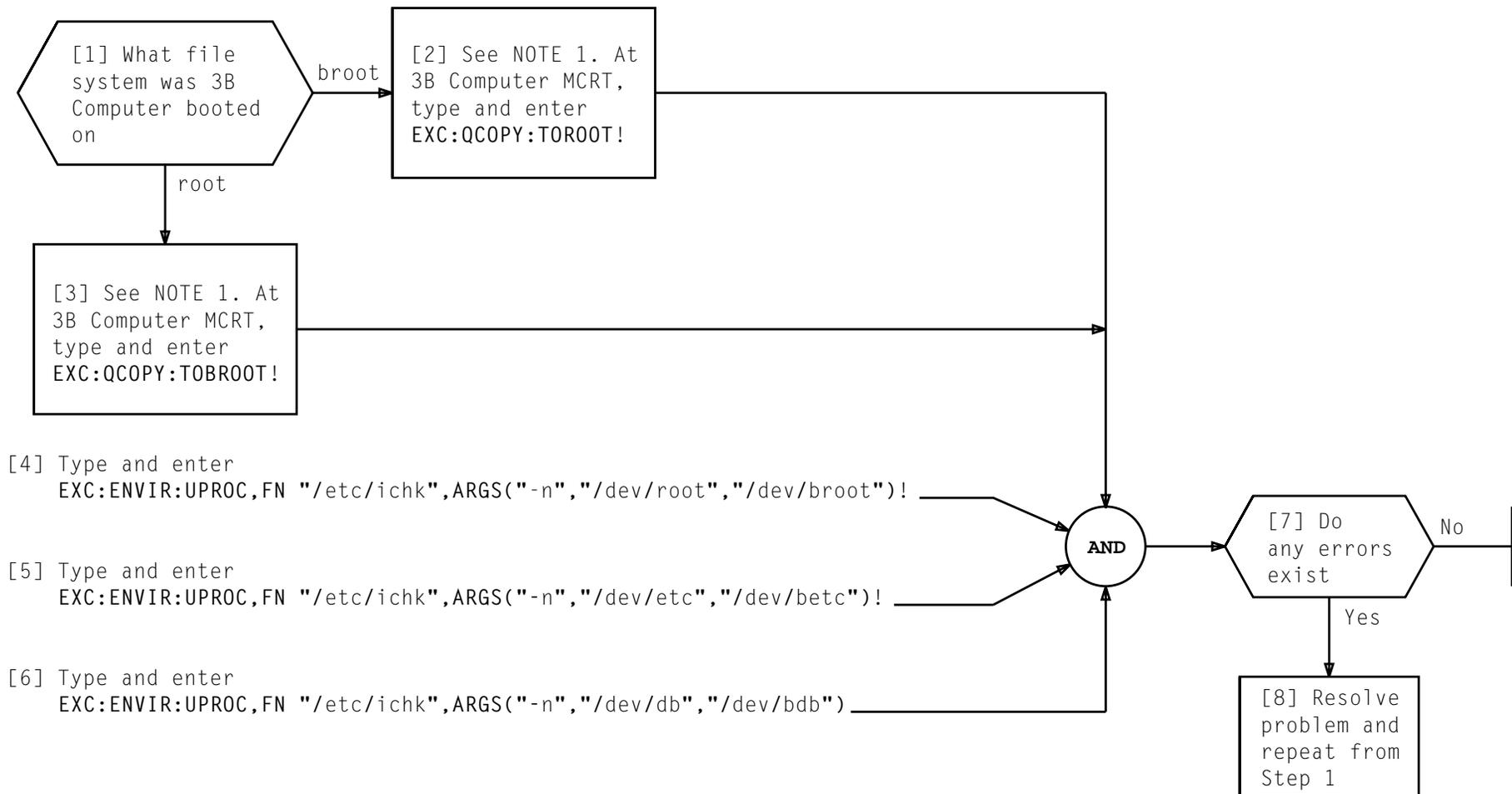


TABLE B	
MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;OC:OFFICEID a,EXPDATE b,OPTION TAPE!
2	If automatic tape writing is used in office SET:AMA;CONTROL;OC:MT c,START d,STOP e,TAPEID "f"!
3	SET:AMA;CONTROL;OC:OFFICEID a,START d,STOP e!
4	SET:AMA;CONTROL;OC:OPTION TP,HOCPSWD g,BACKUPSWD h!
a = Office ID assigned by HOC (6 digits) b = Entered number of days until AMA tape expires c = Default tape drive number for automatic tape process d = Start time for automatic tape writing or teleprocessing (hh,mm) e = Stop time for automatic tape writing or teleprocessing (hh,mm) f = Tape data set ID g = HOC password (10 digits) h = Backup HOC password (10 digits)	



NOTE 1	
After each input message, wait for COMPLETED message before proceeding to next step	
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[1] See CAUTION 1. Manually inhibit traffic scheduling changes

[2] Select available tape transport for mounting tape to be written, and demount tape if one is mounted [DLP-536]

[3] Mount blank or erasable tape with write-enable ring installed [DLP-535]

At MTC Channel:

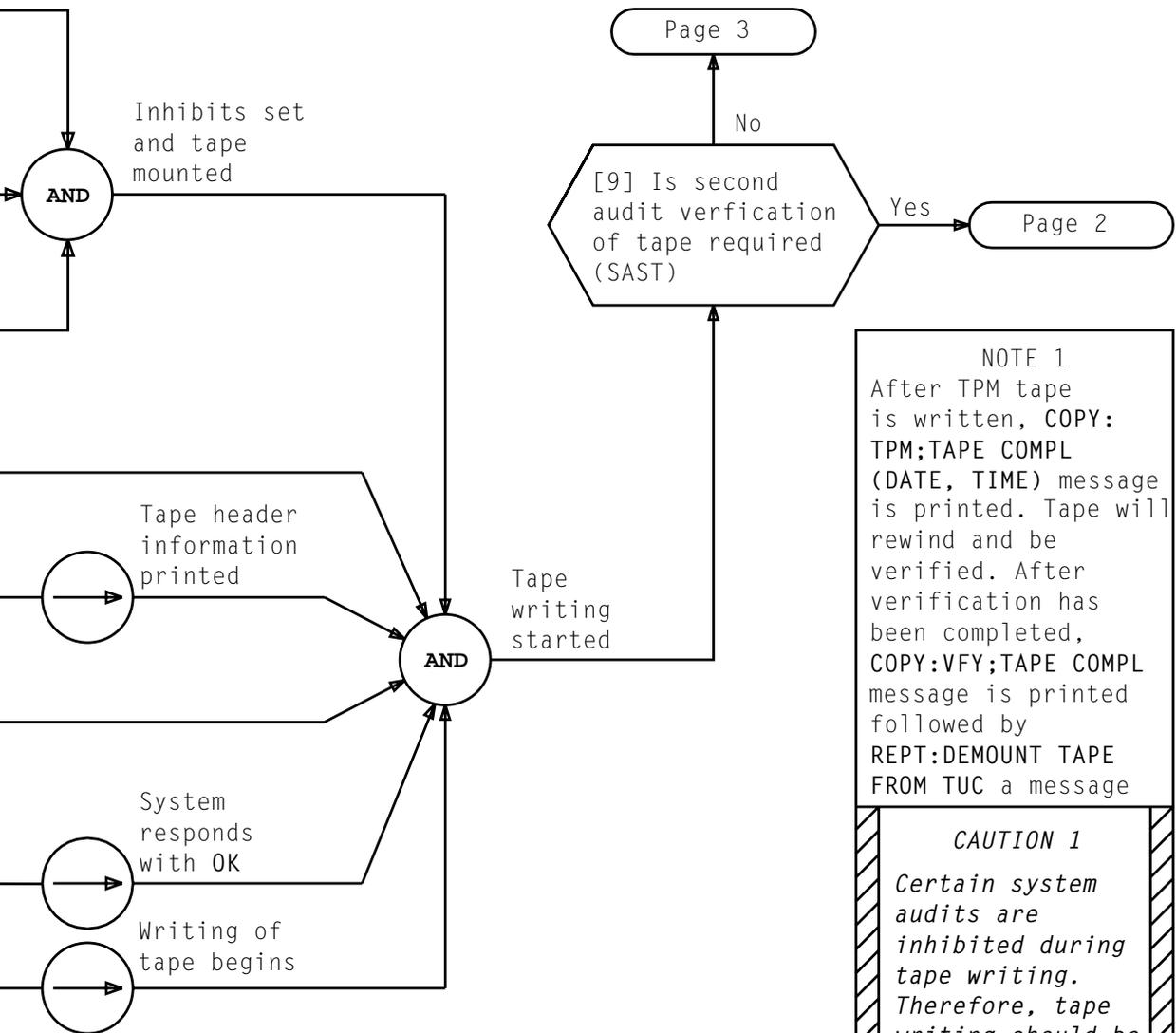
[4] Type and enter CLR:ADSFUNC CPY!

[5] Type and enter SET:TUC a;FUNCTION CPY!
a = TUC member number

[6] Check header information

[7] If tape is blank or erasable, type and enter ALW:TUC a:RW!
a = TUC member number

[8] See NOTE 1. Type and enter COPY:TPM;TAPE:VFY!



NOTE 1
After TPM tape is written, COPY:TPM;TAPE COMPL (DATE, TIME) message is printed. Tape will rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL message is printed followed by REPT:DEMOUNT TAPE FROM TUC a message

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

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WRITE 800 BPI TRAFFIC AND PLANT MEASUREMENTS (TPM) TAPE

[10] After tape has been written;
verified, and
REPT:DEMOUNT TAPE FROM TUC a
message is printed,
demount tape [DLP-536]

[11] Remove write-enable ring
from tape just written and
mount tape on another tape
transport [DLP-535]

[12] Type and enter
SET:TUC a;FUNCTION AUT!
a = TUC member number

Tape header
information
printed

[13] Type and enter
ALW:TUC a:RO!
a = TUC member number

[14] Type and enter
AUD:TPM;NCG!

Audit
begins

AND

SAST in
progress

[15] Does
output message
indicate any
errors

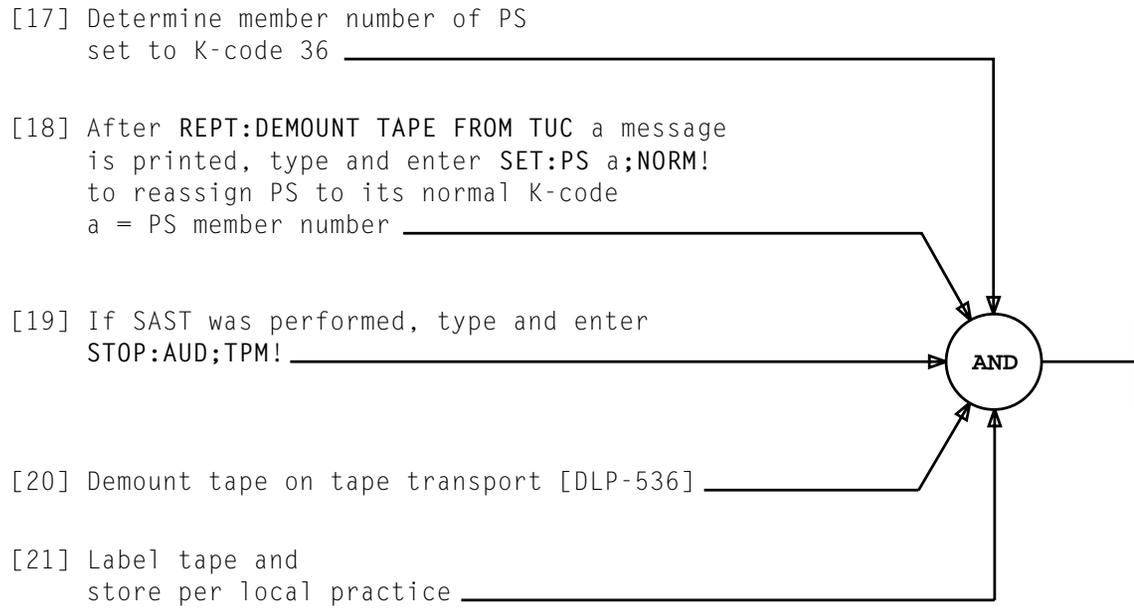
No

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Yes

[16] Determine
reason for
mismatches;
resolve, and
repeat from Step 1

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WRITE 800 BPI TRAFFIC AND PLANT MEASUREMENTS (TPM) TAPE

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ITEM	ISSUE	ITEM	ISSUE								
• IXL-001 • NTP-002 • NTP-003 • NTP-004 • NTP-005		• DLP-504 • DLP-505 • DLP-506 • DLP-507 • DLP-508		• DLP-539 • DLP-540 • DLP-541 • DLP-542 • DLP-543		• DLP-574 • DLP-575 • DLP-576 • DLP-577 • DLP-578		• DLP-609 • DLP-610 • CKL-891 • TNG-893 • DPL-895			
• NTP-006 • NTP-007 • NTP-008 • NTP-009 • NTP-010		• DLP-509 • DLP-510 • DLP-511 • DLP-512 • DLP-513		• DLP-544 • DLP-545 • DLP-546 • DLP-547 • DLP-548		• DLP-579 • DLP-580 • DLP-581 • DLP-582 • DLP-583					
• NTP-011 • TAD-100 • TAP-101 • TAP-102 • TAP-103		• DLP-514 • DLP-515 • DLP-516 • DLP-517 • DLP-518		• DLP-549 • DLP-550 • DLP-551 • DLP-552 • DLP-553		• DLP-584 • DLP-585 • DLP-586 • DLP-587 • DLP-588					
• TAP-104 • TAP-105 • TAP-106 • TAP-107 • TAP-108		• DLP-519 • DLP-520 • DLP-521 • DLP-522 • DLP-523		• DLP-554 • DLP-555 • DLP-556 • DLP-557 • DLP-558		• DLP-589 • DLP-590 • DLP-591 • DLP-592 • DLP-593					
• TAP-109 • TAP-110 • TAP-111 • TAP-112 • TAP-113		• DLP-524 • DLP-525 • DLP-526 • DLP-527 • DLP-528		• DLP-559 • DLP-560 • DLP-561 • DLP-562 • DLP-563		• DLP-594 • DLP-595 • DLP-596 • DLP-597 • DLP-598					
• TAP-114 • TAP-115 • TAP-116 • TAP-117 • TAP-118		• DLP-529 • DLP-530 • DLP-531 • DLP-532 • DLP-533		• DLP-564 • DLP-565 • DLP-566 • DLP-567 • DLP-568		• DLP-599 • DLP-600 • DLP-601 • DLP-602 • DLP-603					
• TAP-119 • DLP-500 • DLP-501 • DLP-502 • DLP-503		• DLP-534 • DLP-535 • DLP-536 • DLP-537 • DLP-538		• DLP-569 • DLP-570 • DLP-571 • DLP-572 • DLP-573		• DLP-604 • DLP-605 • DLP-606 • DLP-607 • DLP-608					

• REVISED OR ADDED ITEM

☐ CANCELED ITEM

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CHECKLIST