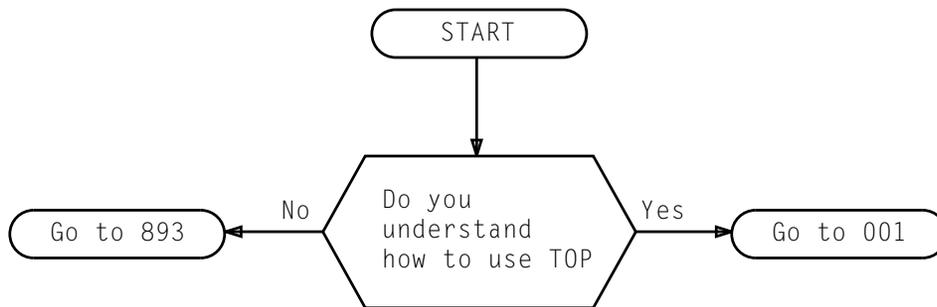




Task Oriented Practice (TOP)

4ESS™ Switch
With 1B Processor
Maintenance Operations Center



TOP Comments Hot Line:

Monday through Friday

8:00 a.m. - 4:00 p.m. (Eastern)

Call: 1-800-645-6749

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How Are We Doing?

Document Title: **4ESS™** Switch With 1B Processor - Maintenance Operations Center

Document No.: 234-351-002

Issue Number: 7

Date: Jun 2000

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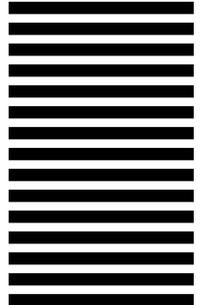
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FIND YOUR JOB IN THE LIST BELOW THEN GO TO

1B Processor System Recovery – Perform TAP-113

3B Computer Backup RT0/ and DB Tapes – Write NTP-005

3B Computer Partitions 2, 4, 13, and 16 – Copy DLP-558

3B Computer Processes – Restart DLP-537

3B Computer System Reinitialization (SR) – Recover System by Performing TAP-110

3B Computer System Recovery – Perform TAP-112

3B Computer and 1B Processor Quarterly Release Update (1B BIG GULP) – Perform NTP-006

4ESS Switch Emergency Recovery Trouble Isolation Procedures TAP-111

AMA Control File Data – Setup DLP-557

AMA Data; Primary – Save on Tape DLP-549

AMA Disk Storage Occupancy – Reduce DLP-520

AMA Partitions – Equip DLP-556

AMA Record Output (Tape or Teleprocessing); Automatic – Set Start and Stop Time for DLP-518

AMA Tape Writing Process; Automatic – Initialize DLP-517

AMA/ICDR Transfer Buffer Overflow Problem – Attached Processor System (APS) – Clear DLP-529

Acceptance NTP-002

Attempt Modified Recovery Action Phases Following System Reinitialization (SR) TAP-103

Automatic Message Accounting (AMA) Problems – Diagnose and Correct TAP-104

Backout Procedures – BWM – Perform NTP-008

Backup Database – Boot to DLP-539

Backup Database – Update DLP-538

Boot to Backup Database DLP-539

FIND YOUR JOB IN THE LIST BELOW THEN GO TO

Broadcast Warning Message – Access Scans Network and Obtain Hardcopy NTP-003
 Broadcast Warning Message; Installation – Perform DLP-588
 Broadcast Warning Messages (BWMs); Access SCANS Network and Check for Current Generic Issue Overwrites NTP-007

 Clear All Forces and/or Requests On 1B Processor MCC DLP-559
 Clear ICDR Input Message RL Response Problem TAP-107
 Clear ICDR Teleprocessing Problem Displayed at 1B Processor Maintenance Terminal and Printer TAP-106
 Clear ICDR Teleprocessing Problem Displayed at 3B Computer Read-Only Printer TAP-105
 Clear ICDR Teleprocessing System Problem TAP-108
 Correct Transfer Buffer Overflow Problem DLP-529

 Database; Backup – Update DLP-538
 Deadstart: Perform 1B Processor DLP-572
 Demount Tape on 3B Computer Tape Unit DLP-528
 Diagnose and Correct Automatic Message Accounting (AMA) Problems TAP-104
 Diagnostics – Perform on 3B Computer Units NTP-004
 Diagnostics; Control Unit – Perform DLP-521
 Diagnostics; Control Unit Demand – Perform DLP-522
 Diagnostics; Input/Output Processor (IOP) – Perform DLP-525
 Diagnostics; Input/Output Processor (IOP) Demand – Perform DLP-526
 Diagnostics; Moving Head Disk (MHD) – Perform DLP-523
 Diagnostics; Moving Head Disk (MHD) Demand – Perform DLP-524

 Emergency Mode (Full Configuration) By Forcing An Override Configuration – Enter DLP-500
 Emergency Mode (Full Configuration) By Manually Triggering Processor Configuration (PC) Sequencer – Enter DLP-503

FIND YOUR JOB IN THE LIST BELOW THEN GO TO

Exit Emergency Mode DLP-501

Generic Big GULP Partial Update – Perform Using 3B Computer Tape Units NTP-006

Generic Issue Overwrites – Access SCANS Network and Check Broadcast Warning Messages (BWMs) for NTP-007

ICDR Input Message RL Response Problem – Clear TAP-107

ICDR Teleprocessing Problem Displayed at 1B Processor Maintenance Terminal and Printer – Clear TAP-106

ICDR Teleprocessing Problem Displayed at 3B Computer Read-Only Printer – Clear TAP-105

ICDR Teleprocessing System Problem – Clear TAP-108

Initialize Automatic AMA Tape Writing Process DLP-517

Insert Critical Generic Overwrites Into Update File DLP-544

Load Error Analysis Program (ERAP) DLP-578

Load Library Program Packages From Backup Tape onto Disk DLP-580

Load Library Program Packages From Original Tape onto Disk DLP-581

Load Long Term Storage (LTS) Data From Tape DLP-554

Load Network Management (NWM) DLP-583

Load New TLP from Tape onto Disk DLP-579

Load Traffic and Plant Measurement (TPM) Tape DLP-582

Load Trunk Out-Of-Service List (TOSL) Data DLP-553

Maintenance Philosophy TAD-100

Modified Recovery Action Phases Following System Reintialization (SR) – Attempt TAP-103

Mount Tape on 3B Computer Tape Unit DLP-527

Overwrites – Manually Using Tape – Install NTP-009

Overwrites; Critical Generic – Insert Into Update File DLP-544

FIND YOUR JOB IN THE LIST BELOW THEN GO TO

Partial Update; Generic – Perform Using 3B Computer Tape Units NTP-006

Partial Update; Generic Big GULP – Perform Using 3B Computer Tape Units NTP-006

Partitions 2, 4, 13, and 16; 3B Computer – Copy DLP-558

Perform 1B Processor System Recovery TAP-113

Perform Attached Processor System (APS) Recovery TAP-112

Perform Attached Processor System (APS) Recovery – Minimum Configurations DLP-566

Perform Broadcast Warning Message Installation DLP-588

Perform Control Unit Demand Diagnostics DLP-522

Perform Control Unit Diagnostics DLP-521

Perform Input/Output Processor (IOP) Demand Diagnostics DLP-526

Perform Input/Output Processor (IOP) Diagnostics DLP-525

Perform Moving Head Disk (MHD) Demand Diagnostics DLP-524

Perform Moving Head Disk (MHD) Diagnostics DLP-523

Perform Recent Change to Change Functional Word of TGR Terminal Unit Loop Data DLP-509

Perform Recent Change to Change Office Status Translator to Post-Cutover State DLP-508

Perform **4ESS**™ Switch Emergency Recovery Trouble Isolation/Recovery Procedure TAP-111

Recent Change – Perform To Change Functional Word of TGR Terminal Unit Loop Data DLP-509

Recent Change – Perform to Change Office Status Translator to Post-Cutover State DLP-508

Recover System Following Partial Update TAP-102

Recover System Using Emergency Mode TAP-101

Recover 1B Processor By Performing Attached Processor System (APS) 1AFILE Reload Using Tapes TAP-109

Recover System by Performing 3B Computer System Reinitialization (SR) TAP-110

Reduce AMA Disk Storage Occupancy DLP-520

Restore System Conditions Following Phase 3 or 4 DLP-505

FIND YOUR JOB IN THE LIST BELOW THEN GO TO

Request Initialization Phase DLP-504

SCANS Network – Access and Check Broadcast Warning Messages (BWMs) for Current Generic Issue Overwrites NTP-007

SCANS Network – Access and Obtain Hardcopy of Broadcast Warning Message (BWM) NTP-003

Save Primary AMA Data on Tape DLP-549

Set Start and Stop Time for Automatic AMA Record Output (Tape or Teleprocessing) DLP-518

Tape; Automatic Message Accounting (AMA) – Write DLP-516

Tape; Demount on 3B Computer Tape Unit DLP-528

Tape; Error Analysis Program (ERAT) – Write DLP-577

Tape; Generic – Audit (SAST) NTP-010

Tape; Generic – Write DLP-540

Tape; Library Backup Tape – Write DLP-575

Tape; Long-Term Storage (LTS) – Write DLP-543

Tape; Mount on 3B Computer Tape Unit DLP-527

Tape; Network Management (NWM) – Write DLP-550

Tape; Office Data Assembly (ODA) – Audit SAST NTP-011

Tape; Office Data Assembly (ODA) – Write DLP-541

Tape; Tape; Tape Only Program (TOP) – Write DLP-590

Tape; Traffic and Plant Management (TPM) – Write DLP-576

Tape; Trunk Out-Of-Service List (TOSL) – Write DLP-542

Tapes; 3B Computer Backup RT0/ and DB – Write NTP-005

FIND YOUR JOB IN THE LIST BELOW THEN GO TO

Teleprocessing Capability – Test for	DLP-519
Test for Teleprocessing Capability	DLP-519
Transfer Buffer Overflow Problem – Correct	DLP-529
TGR Terminal Unit Loop Data – Perform Recent Change to Change Functional Word of	DLP-509
Update Backup Database	DLP-538
Write Automatic Message Accounting (AMA) Tape	DLP-516
Write Error Analysis Program (ERAP) Tape	DLP-577
Write Generic Tapes	DLP-540
Write Library (LIB) Backup Tape	DLP-575
Write Long-Term Storage (LTS) Tape	DLP-543
Write Network Management (NWM) Tape	DLP-550
Write Office Data Assembly (ODA) Tape	DLP-541
Write Tape Only Program (TOP) Tape	DLP-590
Write Traffic and Plant Measurement (TPM) Tape	DLP-576
Write Trunk Out-Of-Service List (TOSL) Tape	DLP-542

Acceptance of the system maintenance tasks is part of system evaluation, readiness, and verification tasks completed in Volumes 234-355-001, 234-355-005, and 234-355-010. Readiness of individual frames, which are the responsibility of the 4ESS Switch Maintenance Operations Center (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-510
5	If SCANS Sequence Number of Desired BWM Is Not Known, Print SCANS Summary List of BWMs	DLP-511
6	Print Hard Copy of SCANS BWM	DLP-512
7	Enter STA UPD To Update SCANS Status File	-
8	Enter K/F To Log Off SCANS	-

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

1	At APS MCRT Terminal, Enter OP:00S!	-
2	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
3	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 APS CU 0 Diagnostics	DLP-521
6	Perform APS CU 0 Demand Diagnostics	DLP-522
7	At APS MCRT Terminal, Enter OP:00S!	-
8	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
9	At APS MCRT Terminal, Enter RST:a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	-
10	Perform APS Disk File Controller (DFC) 0 Diagnostics	DLP-523
11	Perform APS DFC 0 Demand Diagnostics	DLP-524
12	At APS MCRT Terminal, Enter OP:00S!	-
13	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
14	At APS MCRT Terminal, Enter RST:a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	-
15	Perform APS Input/Output Processor (IOP) 0 Diagnostics	DLP-525
16	Perform APS IOP 0 Demand Diagnostics	DLP-526
17	At APS MCRT Terminal, Enter OP:00S!	-
18	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
19	At APS MCRT Terminal, Enter RST:a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	-
20	Perform APS CU 1 Diagnostics	DLP-521
21	Perform APS CU 1 Demand Diagnostics	DLP-522
22	At APS MCRT Terminal, Enter OP:00S!	-

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

23	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
24	At APS MCRT Terminal, Enter RST:a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	-
25	Perform APS Disk File Controller (DFC) 1 Diagnostics	DLP-523
26	Perform APS DFC 1 Demand Diagnostics	DLP-524
27	At APS MCRT Terminal, Enter OP:00S!	-
28	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
29	At APS MCRT Terminal, Enter RST:a b! for All Out-of-Service Units (a = Unit Type; b = Unit Member Number)	-
30	Perform APS Input/Output Processor (IOP) 1 Diagnostics	DLP-525
31	Perform APS IOP 1 Demand Diagnostics	DLP-526
32	At APS MCRT Terminal, Enter OP:00S!	-
33	Using OP:00S Response, Identify All APS Units That Are Out-of-Service	-
34	At APS MCRT Terminal, 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	If Tapes Are Being Written in an AT&T Office, Perform Items 2 Through 5; Otherwise Go To Item 6	-
2	At APS MCRT, Enter Message INH:ADB,APP IBGTT! To Inhibit Automated Database Backup <i>Response:</i> On APS ROP, INH ADB COMPLETED, FOR IBGTT	-
3	At APS MCRT, Enter Message INH:DCC! To Inhibit Data Consistency Checks <i>Response:</i> On APS ROP, INH DCC IN PROGRESS APPDB DCC COMPLETED, FOR IBGTT INH DCC COMPETE	-
4	At APS MCRT, Enter Message INH:RCV:APPDB,APP ALL! To Inhibit Application Data Base Recent Changes <i>Response:</i> On APS ROP, INH RCV APPDB APP ALL COMPLETED	-
5	At APS MCRT, Enter Message INH:FTA;APP ALL! To Inhibit File Transfer <i>Response:</i> On APS ROP, INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR IBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR OBGTT INH FTA APP ALL IN PROGRESS FTA IS INHIBITED FOR CORE INH FTA APP ALL COMPLETE	-
6	Update APS Backup Database	DLP-538
7	Select Available APS Tape Unit	-
8	Write Backup Tapes	DLP-587
9	If Tapes Are Being Written in an AT&T Office, Perform Items 10 Through 13; Otherwise Go To Item 14	-
10	At APS MCRT, Enter Message ALW:RCV:APPDB, APP ALL! To Allow Application Data Base Recent Changes <i>Response:</i> On APS ROP, ALW:RCV:APPDB ALL COMPLETED	-

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

11	At APS MCRT, Enter Message ALW:DCC! To Allow Data Consistency Checks <i>Response:</i> On APS ROP, ALW DCC IN PROGRESS APPDB DCC IS ALLOWED FOR IBGTT ALW DCC COMPETE	-
12	At APS MCRT, Enter Message ALW:ADB, APP IBGTT! To Allow Automated Database Backup <i>Response:</i> On APS ROP, ALW ADB COMPLETED, FOR IBGTT	-
13	At APS MCRT, Enter Message ALW:FTA;APP ALL! To Allow File Transfer <i>Response:</i> On APS ROP, ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR IBGTT ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR OBGTT ALW FTA APP ALL IN PROGRESS FTA IS ALLOWED FOR CORE ALW FTA APP ALL COMPLETE	-
14	Verify APS Backup Tapes	DLP-551
15	Store APS Backup Tapes Per Local Procedure	-

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

			DATE	TIME	SIGNATURE
	NOTES: 1. If a Received response does not match the given response in this document, contact next higher support group for resolution 2. If there is any question concerning a step in this procedure, contact next higher support group for clarification				
1	Remove This Procedure and Reproduce All Pages	—			
2	Using Reproduced Pages, Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required	—			
3	Notify Network Management That Generic 3B Update is to be Performed. This Information Is Used to Baseline Office for Final Handling Code Traps and IMA (Call Processing). This Information Will Be Used Later in This Procedure	—			
4	Notify Recent Change Groups (MAC and Routing) That Recent Change Activity Will be Restricted to the MOC	—			
5	Contact Support Organization for Any BWMs That Need to be Applied (3B-BWM, 1B-BWM, Additional 1B Software Change Package (SCPs)	—			
6	Copy APS ROOT to BROOT or BROOT to ROOT	DLP-558			
7	Install 3B Computer BWM (Quarterly Release)	DLP-574			
8	If Craft Init (Entering 15) Was Not Performed as Part of Special Instructions in Item 7, Perform Items 9 Through 14; Otherwise, go to Item 14	—			
9	At APS MCRT Terminal, Enter INH:RCV:APPDB,APP ALL!	—			
10	Wait one minute	—			
11	At APS MCRT, Enter 15 in Command Mode on EAI Page to Reinitialization Craft Interface Processes	—			
12	Wait for REPT CFTSHL TERMINAL IN SERVICE Message	—			
13	At APS MCRT Terminal, Enter ALW:RCV:APPDB,APP ALL!	—			
14	At APS MCRT Terminal, Enter CHG:GEN! to Reflect Correct Generic on the CNI Reports	—			
15	Install BIG GULP BWM (Quarterly Release)	DLP-574			

PERFORM 3B COMPUTER AND 1B PROCESSOR QUARTERLY RELEASE UPDATE (1B BIG GULP)

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

			DATE	TIME	SIGNATURE
16	Safe Stop Point (following local procedure)	-			
17	At 1B Processor MTC Terminal, Enter INH: MACLI,CLASS MTCE;REX!				
18	Notify Network Management That Generic Big GULP Update is to be Performed. This Information Is Used to Baseline Office for Final Handling Code Traps and IMA (Call Processing). This Information Will Be Used Later in This Procedure	-			
19	Notify Recent Change Groups (MAC and Routing) That Recent Change Activity Will be Restricted to the MOC	-			
20	Record Active Units by Using 1B Processor Status Pages (Page 109 and 118) and Verify Poke Command Values	DLP-589			
21	At 1B Processor MTC Terminal, Enter STOP:OVRWRT! To Stop Any Overwrites in Progress	-			
	NOTE: DO NOT ENTER Any 1B Overwrites, Until This Procedure is complete				
22	At 1B Processor MCC Terminal, Enter Poke Command 108 to Obtain SYSTEM STATUS Page	-			
23	On 1B Processor MCC Terminal SYSTEM STATUS Page, Enter Poke Command 801 (RESTRICT RC) <i>Response: Under SYSTEM CONTROLS, RESTRICT RC Text Lights Black on White</i>	-			
24	At 1B Processor MTC Terminal, Enter UPD:COMMIT;NORMFILE!	-			
25	Using UPD Output Response (UPD:COMMIT COMPLETED to NORMFILE), Verify That Status of APS 1AFILES is Normal	-			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
	<p><i>CAUTION: The layout of some Recent Change forms can change on a Quarterly Release boundary. Item 28 saves the buffered Recent Change data and converts it to the format used by the new Quarterly Release. This step requires logical channel (LCHAN) 110 (octal) 72 (decimal) to exist (MAC3) This LCHAN may need to be grown first. A channel can be defined by XAPP according to the procedures in TOP 234-153-010. Next higher support organization must determine course of action. The following error messages are printed if the LCHAN is not grown and Item 28 is executed:</i></p> <p>REPT PSDI01ASH ERROR - CHANNEL 72, CODE 104</p> <p>START RCBUFGET DATA COMPLETE CANNOT CONNECT TO 1B PROCESSOR</p> <p>REPT:LCHAN CONTROL ERR AT nnnnnnnn</p> <p><i>If the office does not have buffered Recent Changes that it wants to preserve, the START:RCBUFGET command can be skipped. If this command is to be skipped, then Recent Changes in the buffer need to be activated or deleted per office procedures.</i></p>				
26	If Office Does Not Have Buffered Recent Changes That it Wants to Preserve, and/or Does Not Have LCHAN Per Above CAUTION, Then go to Item 29. If Item 28 is Not Performed, Any Recent Changes in the Buffer Need to be Activated or Deleted Per Office Procedures Before Continuing	-			
27	At 1B Processor MTC Terminal, Enter OP:LCHAN! and Verify if MAC3 Logical Channel Exists. If Channel Does Not Exist, Add Logical Channel Per TOP 234-153-010	-			
	(Continued on Page 4)				

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

			DATE	TIME	SIGNATURE
	NOTE: START RCBUFGET command may cause INH:APPDB and ALW:APPDB Error Messages in some offices, THIS IS EXPECTED, AND PROCEDURE CAN BE CONTINUED	-			
28	At 3B MTCE Terminal, Enter START:RCBUFGET,DATA! This Process Captures the 1B Recent Change Buffered Messages. Each ORDER Number Processed Will Print a Status Message. When all ORDER Numbers Have Been Processed Successfully, Proceed. If Errors in Above CAUTION Occur, LCHAN in CAUTION Needs to be Grown. If Other Errors Occur, Seek Technical Assistance	-			
	NOTE: Audits will take approximately 30-40 minutes to complete				
29	At 1B Processor MTC Terminal, Enter AUD:NUM (43,44,45,66,72)! (Do NOT Proceed If Any of the Audits Fail) <i>Response:</i> AUD:NUM xx COMPLETE 0 ERRORS DETECTED for Each Audit Being Performed	-			
30	At 1B Processor MTC Terminal, Enter INH:AUD:NUM (43,44,45,66,72)!	-			
31	At 1B Processor MTC Terminal, Enter STOP:OVRWRT! to Stop Any Overwrites in Progress	-			
32	At 3B MTCE Terminal, Enter COPY:APPFIL NORM! Copy the Normal File to Update File <i>Response:</i> COPY APPFILE COMPLETE Message Is Received (Approximately 4 to 10 Minutes)				
33	At 1B Processor MCC Terminal, Depress EA DISP Key to Obtain EAI Page				
34	On 1B Processor MCC Terminal EAI Page, Enter Poke Command 61 (NORM FILE) to Request Memory be Pumped From Normal 1AFIL <i>Response:</i> Under FILE SELECT, NORM FILE Text Lights Purple on White	-			
	NOTE: DO NOT ENTER Any 1B Overwrites, Until This Procedure is Complete				
35	Load Generic Big GULP Update Data on Disk (Approximately 10 to 15 Minutes)	DLP-547			
36	If Critical Overwrites are Required, Insert Critical 1B Processor Generic Overwrites Into the Update File and Save Printouts	DLP-544			
37	Verify 1AFIL Hashed Area for Zero Errors (VER:APPFIL UPD!)	DLP-545			
	(Continued on Page 5)				

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

			DATE	TIME	SIGNATURE
38	If Item 28 Was Not Performed, go to Item 40. The START:RCBUFPUT Command in Item 39 is Only Required When the START:RCBUFGET Command is Entered in Item 28	-			
	<p>NOTES: 1. START:RCBUFPUT command may cause INH:APPDB and ALW:APPDB Error Error Messages in some offices. THIS IS EXPECTED, AND PROCEDURE CAN BE CONTINUED</p> <p>2. START:RCBUFGET command reloads the Reconfigured Recent Changes Into Buffer. The following Error Message will print if RCBUFPUT is unable to reconfigure a Recent Change against new Recent Change Form Layouts:</p> <p style="padding-left: 40px;">START:RCBUFGET DATA IN PROGRESS ERROR BUFFERING ORDER 16 - ORNU xxxxxx - SKIPPING</p> <p>A Non-Update Message will not be put back into buffer. Associated Recent Change of a skipped order number must be reapplied to the buffer using standard Recent Change Procedure. Reload skipped Recent Changes after the BIG GULP Procedure is completed. THIS IS EXPECTED, AND PROCEDURE CAN BE CONTINUED</p>				
39	At APS MCRT Terminal, Enter START:RCBUFPUT,DATA! This Process Reinstalls the Recent Change Buffered Messages Captured in Item 28. If Errors Occur, Seek Technical Assistance	-			
40	Determine 1B Processor Main-Memory Generic Differences Between Normal File and Update File (LOAD:UPDATE:DIFF!)	DLP-546			
41	If Problems Occur From Item 41 To End Of This Procedure, Perform Backout Procedures, if Required	NTP-008			
42	At 1B Processor MTC Terminal, Enter UPD:CORE! During the Window of 4-13 Minutes Past the Quarter Hour Response: System Responds With Error Stop Message, and an Audit, and UPDATE IN PROG Text On 1B Processor MCC Terminal EAI Page Goes Off	-			
43	At 1B Processor MTC Terminal, Enter SW:MUP! New Generic Release Should be Shown at Top of 1B MCC Screen	-			

**PERFORM 3B COMPUTER AND 1B PROCESSOR QUARTERLY RELEASE UPDATE
(1B BIG GULP)**

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

			DATE	TIME	SIGNATURE
	NOTE: Audits will take approximately 30-40 minutes to complete				
44	At 1B Processor MTC Terminal, Enter ALW:AUD:NUM (43,44,45,66,72)!	-			
45	At 1B Processor MTC Terminal, Enter AUD:NUM (43,44,45,66,72)!	-			
46	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position				
47	Notify Network Management Center to Begin Comparing Information (Items 3 and 18) That is Used to Baseline Office for Final Handling Code Traps and IMA (Call Processing). This Information Will Be Used Later in This Procedure				
48	Compare Count of Ineffective Machine Attempts With Preupdate Level				
49	Upon Completion of Audits, Verify No Errors Exist. If Errors Exist, Contact Technical Assistance	-			
50	At 1B Processor MTC Terminal, Enter UPD:COMMIT;UPDFILE! <i>Response:</i> UPD COMMIT COMPLETED TO UPDFILE Message Received	-			
51	At 1B Processor MCC, Depress EA DISP Key to Obtain EAI Page	-			
52	On 1B Processor MCC Terminal EAI Page, Enter Poke Command 61 (NORM FILE) to Release Normal 1AFILE <i>Response:</i> Under FILE SELECT, NORM FILE Text Lights White On Black	-			
53	At 1B Processor MCC Terminal, Enter Poke Command 108 To Obtain SYSTEM STATUS Page	-			
54	On 1B Processor MCC Terminal SYSTEM STATUS Page Under SYSTEM CONTROLS, Enter Poke Command 801 (RESTRICT RC) <i>Response:</i> RESTRICT RC Text Goes Off	-			
55	At 1B Processor MTC Terminal, Enter ALW:MACLI,CLASS MTCE!	-			
	(Continued on Page 7)				

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

			DATE	TIME	SIGNATURE
56	Soak Period Begins to Ensure No Errors Are Encountered (Length Is Determined by Following Local Procedure)				
57	Copy APS ROOT to BROOT or BROOT to ROOT	DLP-558			
58	Write 1B Processor Generic Tapes	DLP-540			
59	Write 1B Processor Office Data Assembly (ODA) Tape	DLP-541			

**PERFORM 3B COMPUTER AND 1B PROCESSOR QUARTERLY RELEASE UPDATE
(1B BIG GULP)**

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-510
5	Print SCANS Summary List of BWMs	DLP-511
6	If SCANS Summary List Contains BWMs With Overwrites Required, Print Hardcopy of SCANS BWMs With Overwrites	DLP-512
7	Enter K/F To Log Off SCANS	-
8	Restore Terminal Equipment Used for This Process to Normal Configuration	-

ACCESS SCANS NETWORK AND CHECK BWMs FOR CURRENT GENERIC ISSUE OVERWRITES

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

			DATE	TIME	SIGNATURE
	NOTE: Contact Next Higher Support Organization Before Doing this Procedure Procedure. To go back to the old load after NTP-006, Item 41 UPD:CORE is COMPLETED in the event of problems encountered with the new load, return to the original data base in the following manner				
1	Remove This Procedure and Reproduce All Pages	-			
2	Using Reproduced Pages, Enter Date, Time, and Signature or Place Check Mark Beside Each Item or Subitem When Completed				
3	At 1B Processor MCC Terminal, Depress EAI DISP Key To Obtain EAI Page	-			
4	On 1B Processor MCC Terminal, Enter Poke Command 99 (Clears Configuration)	-			
5	Using Information Provided in NTP-006, Item 19, Enter Poke Command For Each Of The Active Units CC, PSB, CSB, PS and Enter Poke Command For One Of The Active Units Of The IFB and AUB	DLP-589			
	NOTE: The following Item Is Dependent Upon Occurrence of Problem, Read Entire Item Prior to Execution				
6	Enter One Of The Following Poke Commands if Statement Is True:				
	A. Problem Occurred Before NTP-006, Item 49 - Enter Poke Command 61 (NORM FILE)	-			
	B. Problem Occurred After NTP-006, Item 49 - Enter Poke Command 62 (UPDATE FILE)	-			
7	On 1B Processor MCC Terminal, Enter Poke Command 84 To Select Modify Recovery	-			
8	If DISABLE AUTO PC Is Highlighted (Black On Purple) Do Not Perform Item, Continue With Item 9 On 1B Processor MCC Terminal, Enter Poke Command 70 (DISABLE AUTO PC)	-			
9	Enter Poke Command 402 To Reset All DDI Keys to Zero (No Data In Contents Area)	-			
10	Enter Poke Command 401,17 To Set DDI Key 17 to One (Data In Contents Area)	-			
	(Continued on Page 2)				

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

			DATE	TIME	SIGNATURE
11	Enter Poke Command 01 (Hard A) To Select Override In Effect Function. Wait for Recovery to Take Place. Ensure That 86-CODE Field Is Incrementing (Boot Is Completed Successfully When PC Progression COMPL Is Black On Green)	-			
12	If PCRV Boots Successfully, Go To Item 26, Otherwise If PCRV Boot Fail (First Time) Continue With Item 13	-			
13	On 1B Processor MCC Terminal, Enter Poke Command For Selected Highlighted CC	-			
14	On 1B Processor MCC Terminal, Enter Poke Command 99 To Clear Forced Configuration	-			
15	Using Information Provided in NTP-006, Item 19; Enter Poke Command For Each of the Units that Were Not Selected as Active (Item 5)	DLP-589			
	NOTE: The following Item Is Dependent Upon Occurrence of Problem, Read Entire Item Prior to Execution				
16	Enter One of the Following Poke Commands If Statement Is True:	-			
	A. Problem Occurred Before NTP-006, Item 49 – Enter Poke Command 61 (NORM FILE)	-			
	B. Problem Occurred After NTP-006, Item 49 – Enter Poke Command 62 (UPDATE FILE)	-			
17	On 1B Processor MCC Terminal, Enter Poke Command 84 To Select Modify Recovery	-			
18	If DISABLE AUTO PC Is Highlighted (Black On Purple) Do Not Perform Item, Continue With Item 19. On 1B Processor MCC Terminal, Enter Poke Command 70 (DISABLE AUTO PC)	-			
19	Enter Poke Command 402 To Reset All DDI Keys to Zero (No Data In Contents Area)	-			
20	Enter Poke Command 401,17 To Set DDI Key 17 to One (Data In Contents Area)	-			
21	Enter Poke Command 01 (Hard A) To Select Override In Effect Function. Wait for Recovery to Take Place. Ensure that 86-CODE Field Is Incrementing (Boot Is Completed Successfully When PC Progression COMPL Is Black On Green)	-			

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

			DATE	TIME	SIGNATURE
22	If PCRV Boots Successfully, Go To Item 26, Otherwise If PCRV Boot Fails (Second Time) Continue With Item 23	—			
23	On 1B Processor MCC Terminal, Enter Poke Command For Selected Highlighted CC	—			
24	If DISABLE AUTO PC Is Highlighted (White on Black), On 1B Processor MCC Terminal, Enter Poke Command 70 (DISABLE AUTO PC) Wait for Recovery to Take Place Ensure that 86-CODE Field Is Incrementing (Boot Is Completed Successfully When PC Progression COMPL Is Black On Green)	—			
25	If PCRV Boots Successfully, Go To Item 26, Otherwise If PCRV Boot Fails (Third Time) Stop This Procedure and Contact Next Higher Support Organization	—			
	NOTE: The following Item Is Dependent Upon Occurrence, Read Entire Item Prior to Execution				
26	Enter One Of The Following Messages At 1B Processor MTC Terminal:	—			
	A. If Item 6A Performed – Enter UPD:COMMIT;NORMFILE!	—			
	B. If Item 6B Performed – Enter UPD:COMMIT;UPDFILE!	—			
27	On 1B Processor MCC Terminal, Enter Poke Command For Selected Highlighted CC	—			
28	On 1B Processor MCC Terminal, Enter Poke Command 99 To Clear Forced Configuration	—			
29	On 1B Processor MCC Terminal, Enter Poke Command 402 To Reset DDI Keys	—			
30	On 1B Processor MCC Terminal, Enter Poke Command 70 To Enable Auto PC	—			

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

	NOTE: It is recommended that this procedure be performed during an office low-traffic period and while diagnostic routine exercises (REXs) are not active. Office personnel should contact applicable support group to verify overwrites before proceeding.	-
1	Review Documentation That Accompanied Overwrite 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-507
5	Check Manual Overwrites for Special Instructions and Needed Authorization	DLP-514
6	Install Manual Overwrites Using Verbal Instructions or Paper Copy as Source	DLP-513
7	At 1B Processor MCC Terminal, Enter Poke Command 108 to Obtain SYSTEM STATUS Page	-
8	On 1B Processor MCC Terminal SYSTEM STATUS Page, Enter Poke Command 801 (RESTRICT RC) <i>Response:</i> Under SYSTEM CONTROLS, RESTRICT RC Text Lights Black on White	-
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 Latest Backup Copy of 1B Processor Generic Tape	-
12	At 3B MCRT, Enter Poke Command 137 to Obtain Current Status of Tape Unit	-
13	Using Response from Previous Item, Select Available Tape Unit	-
14	If Tape is Mounted on Tape Unit, Demount Tape	DLP-528
15	Mount Latest Backup Copy of 1B Processor Generic Tape on Tape Unit	DLP-527
16	Perform Generic System Audit of Stores (SAST)	DLP-586
17	Demount Latest Backup Copy of 1B Processor Generic Tape on Tape Unit and Store per Local Procedures	DLP-528

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

1	Obtain Latest Copy Of 1B Processor Generic Tape	-
2	At 3B MCRT, Enter Poke Command 137 to Obtain Current Status of Tape Unit	-
3	Using Response From Previous Step, Select Available Tape Unit	-
4	If Tape Is Mounted on Tape Unit, Demount Tape	DLP-528
5	Mount 1B Processor Generic Tape on Tape Unit	DLP-527
6	Perform 1B Processor Generic System Audit Of Stores (SAST)	DLP-586
7	Demount 1B Processor Generic Tape on Tape Unit	DLP-528

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

1	Obtain Latest Copy Of 1B Processor Office Data Assembly (ODA) Tape	-
2	At 3B MCRT Enter Poke Command 137 to Obtain Current Status of Tape Unit	-
3	Using Response of Previsions Item, Select Available Tape Unit	-
4	If Tape Is Mounted on Tape Unit, Demount Tape	DLP-528
5	Mount 1B Processor ODA Tape on Tape Unit	DLP-527
6	Perform 1B Processor ODA System Audit Of Stores (SAST)	DLP-585
7	Demount 1B Processor ODA Tape on Tape Unit	DLP-528

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 (for example, 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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DOCUMENTATION

TABLE A is a list of the appropriate documentation to clear diagnostics or frame/cabinet failures:

TABLE A			
UNIT TYPE	TROUBLE-CLEARING VOLUME	UNIT TYPE	TROUBLE-CLEARING VOLUME
1B Processor	234-351-004	MFS	234-151-041
3B20D Model 1	254-301-812	MISC A, B, C	234-151-043
	254-301-813	NCLK	234-151-013
3B20D Model 2/3	254-302-812	PCDF J5A007B	234-351-025
3B21D	254-303-107	PCDF J5A007C	234-351-026
ADS (TUC and DUS)	234-351-010	PUBB	234-351-015
API	234-351-016	SCS	234-151-077
AUB	234-351-010	SP1	234-151-031
CNI	234-151-120	SP2	234-151-032
DIF	234-151-055	TGR	234-151-033
DT	234-151-045	TMS	234-151-011
EST	234-151-050	TSI	234-151-012
IO J5A006A	234-351-020	VIF	234-151-025
IO J5A006C	234-351-021	XTSI	234-351-011
IO J5A006D	234-351-022		

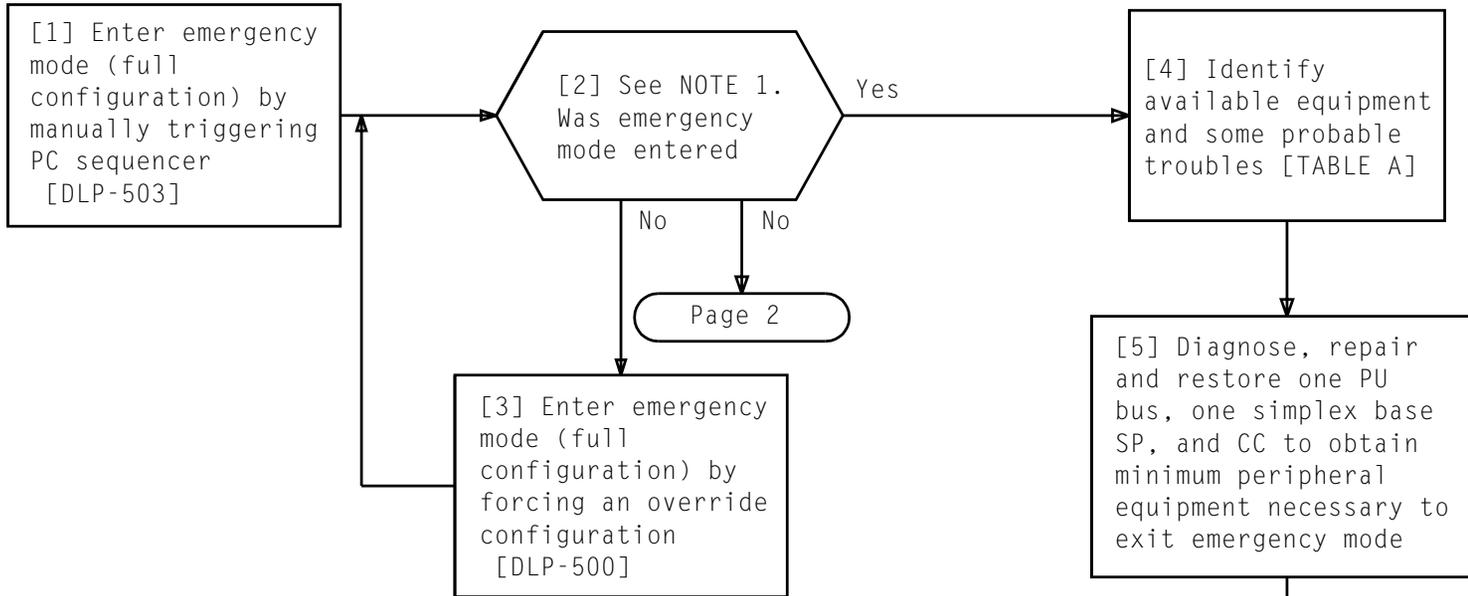


TABLE A EMERGENCY MODE – FULL CONFIGURATION	
EQUIPMENT AVAILABLE	PROBABLE TROUBLE
One CC	PU bus access problems
Simplex PS community	Duplex SP failure
Simplex CS community	Recent change errors
One API	CC cannot process peripheral orders
One IFB	Duplex PU bus failure
One AUI	
One MUP	
One AU bus	
PS bus	
CS bus	
One tape unit and controller 4E21 and earlier	
If EM entered by performing SR	
1B Processor MTC terminal	

NOTE 1
 Indications that emergency mode has been entered are:
 A. On 1B Processor MCC terminal EAI page under EMER CFG, FULL or MIN text lighted BLACK on PURPLE
 B. REPT:TROUBLE-EMERGENCY MODE ENTERED {FULL | MIN} PROCESSOR CONFIG message is received

RECOVER 1B PROCESSOR AND PERIPHERAL UNIT BUS USING EMERGENCY MODE

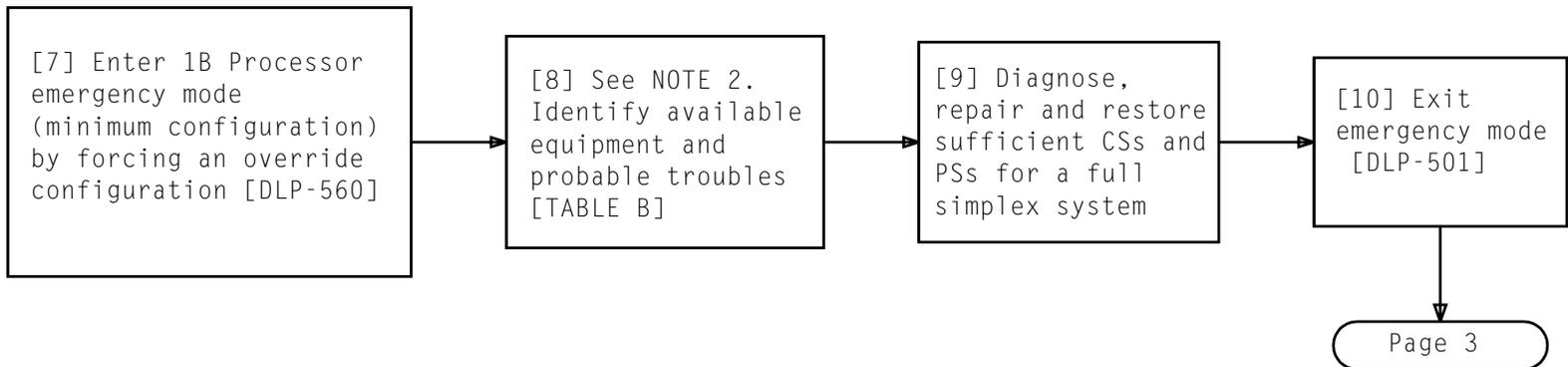
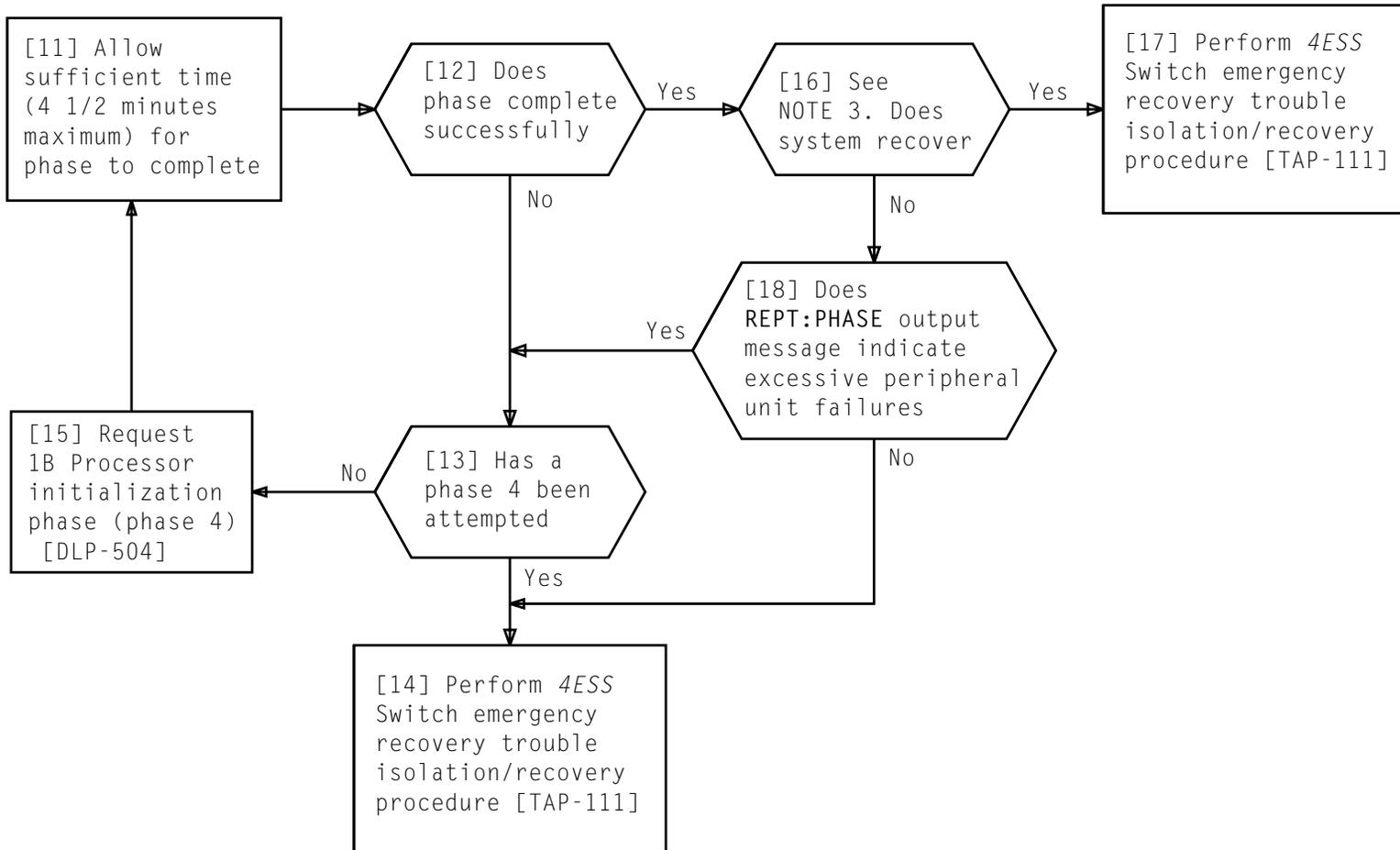


TABLE B EMERGENCY MODE – MINIMUM CONFIGURATION	
EQUIPMENT AVAILABLE	PROBABLE TROUBLE
One CC One AUI One IFB One MUP PS0 or PS1 Two CSs One API One AU bus PS bus CS bus 1B Processor MTCE terminal	Insufficient program stores and/or call stores to do call processing Insufficient program stores and/or call 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 to perform another SR.

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

- A. On 1B Processor MCC terminal EAI page under **PC PROGRESSION**, **CMPL** text is lighted **BLACK** on **GREEN**
- B. On 1B Processor MCC terminal EAI page, **PHASE IN PROG** text has not lighted in last few minutes
- C. On 1B Processor MCC terminal **SYSTEM STATUS** page under **SYSTEM ACTIVITY**, displayed data is normal for time of day (takes 3 minutes for data to be updated)

RECOVER 1B PROCESSOR AND PERIPHERAL UNIT BUS USING EMERGENCY MODE

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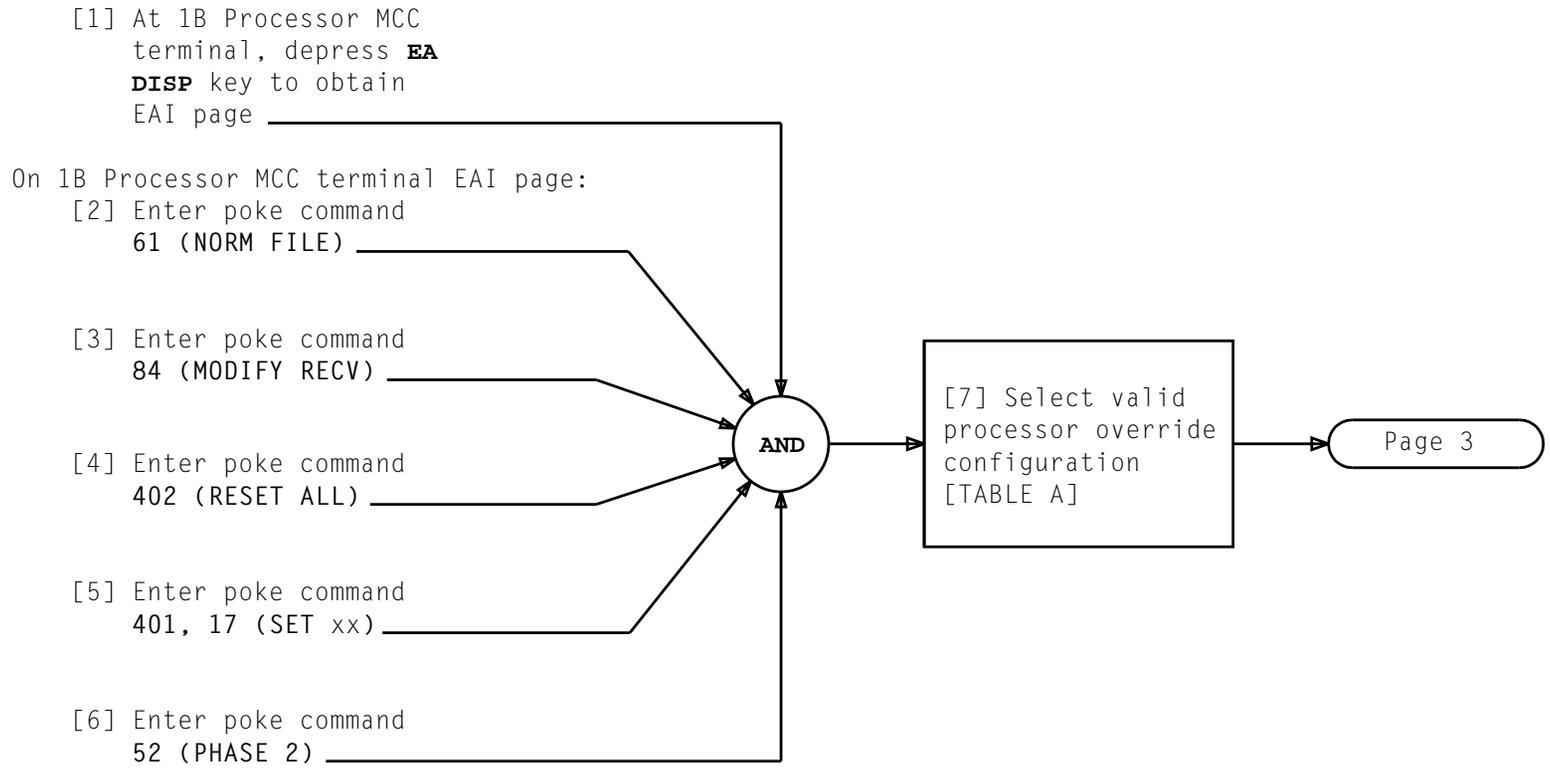
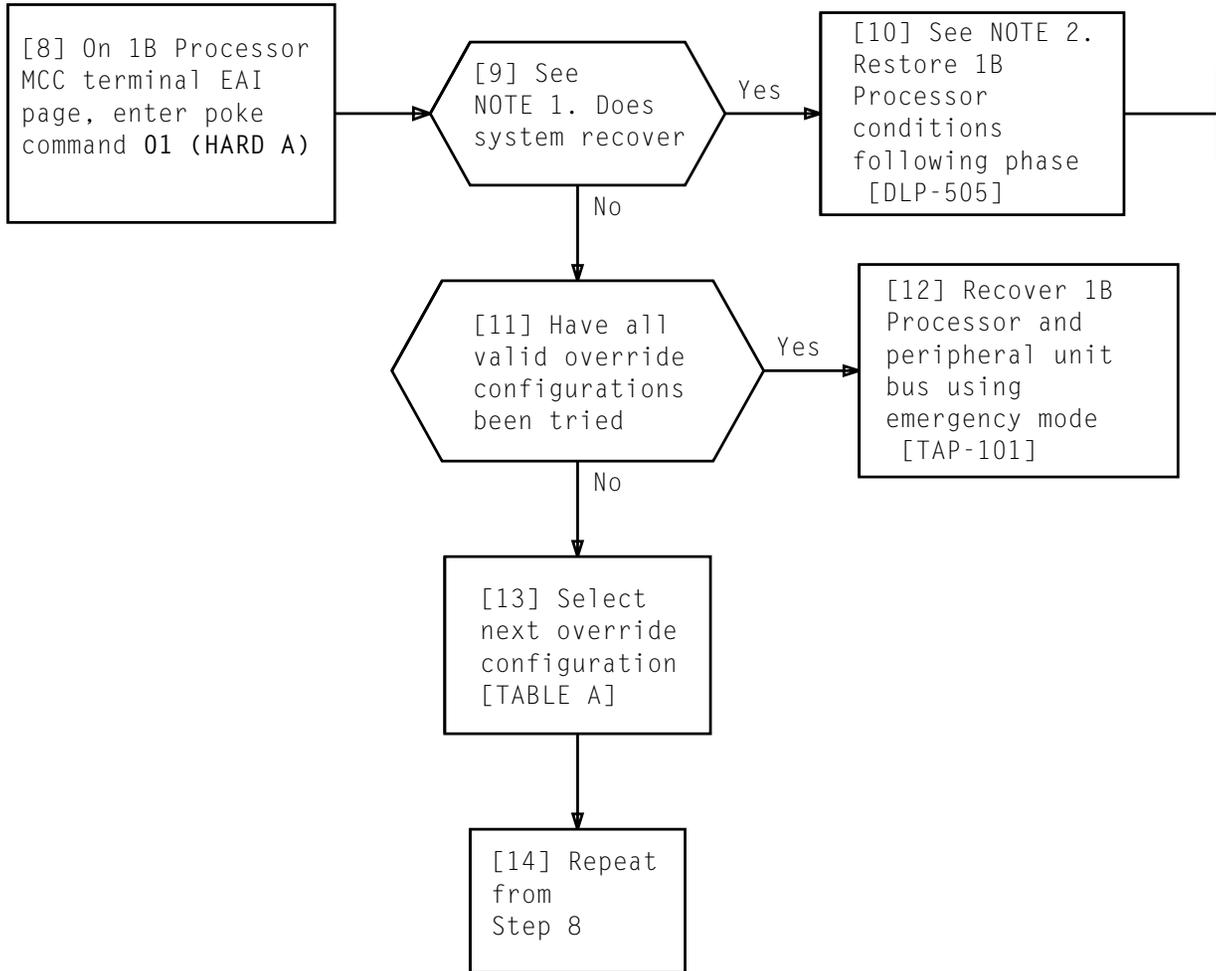


TABLE A
1B PROCESSOR MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS

MANUAL CONFIG SEQUENCE	OVERRIDE CONTROL SELECTIONS											
	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1
1	10		20		22		30		40		42	
2		11		21		23		31		41		43
3		11	20			23	30			41	42	
4		11		21	22			31	40			43
5		11	20			23		31	40			43
6	10		20		22		30			41	42	
7	10			21		23		31	40			43
8	10			21	22		30			41	42	
9	10			21	22		30			41	42	
10		11	20		22			31	40			43
11		11	20		22			31		41		43
12		11		21	22		30		40		42	
13	10		20			23		31		41		43
14	10			21		23	30		40		42	
15	10			21	22			31		41		43
16		11	20			23	30		40		42	

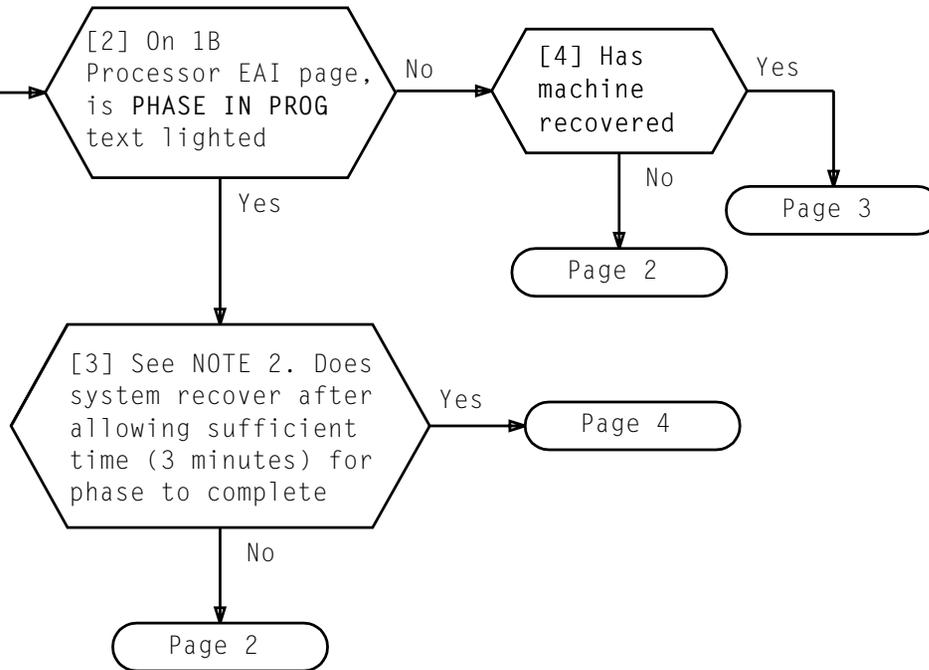


NOTES

1. System has recovered if following conditions have been met:
 - A. On 1B Processor MCC terminal EAI page under **PC PROGRESSION, CMPL** text is lighted BLACK on GREEN
 - B. On 1B Processor MCC terminal EAI page, **PHASE IN PROG** text has not lighted in last few minutes
 - C. On 1B Processor MCC terminal SYSTEM STATUS page under **SYSTEM ACTIVITY**, displayed data is normal for time of day (takes 3 minutes for data to be updated)
2. Contact technical support group and determine safe time when system is stable and seems to be operating properly before restoring conditions following a phase

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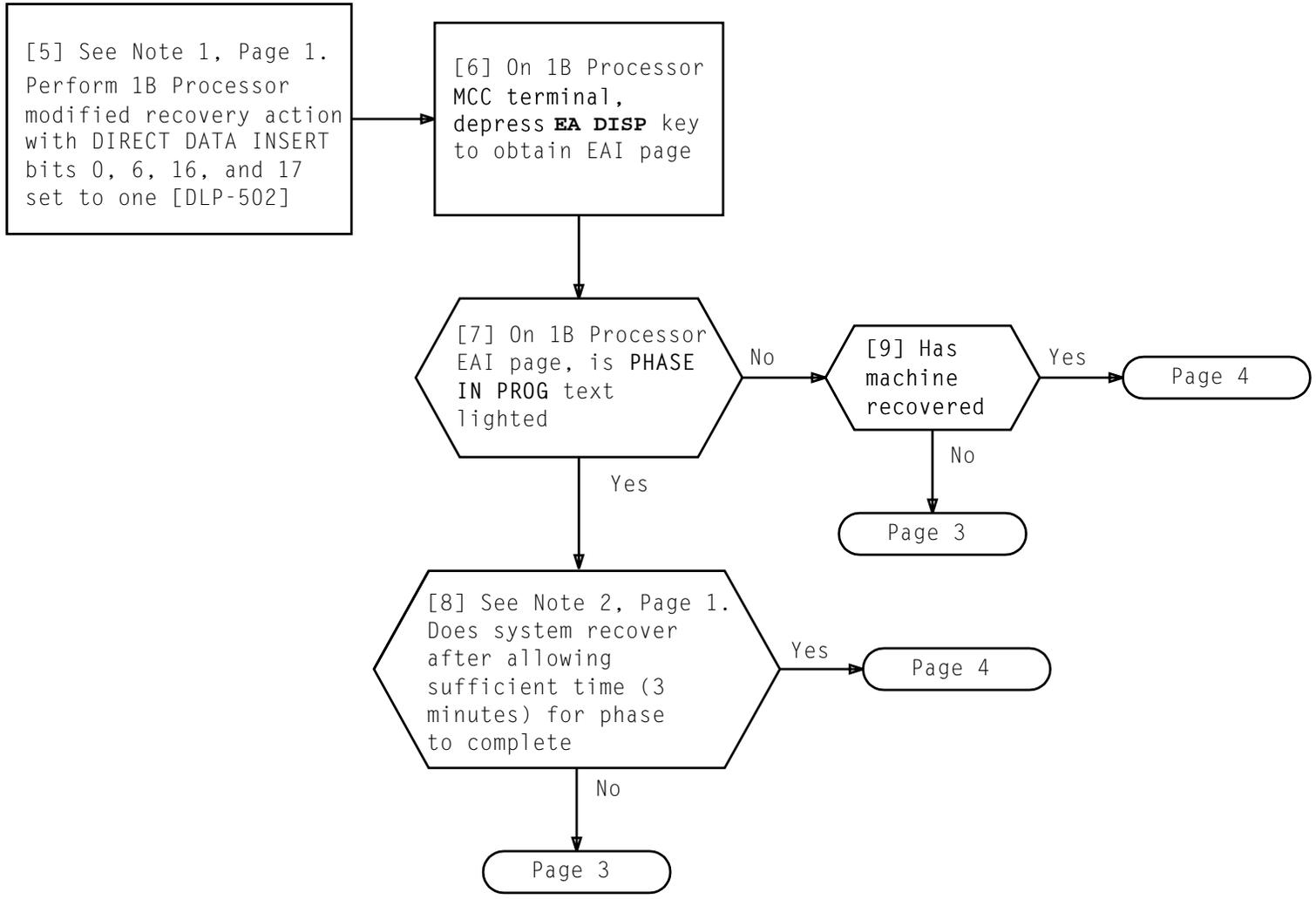
[1] See NOTE 1.
 Perform 1B
 Processor modified
 recovery action
 with DIRECT DATA
 INSERT bit 0 set
 to one [DLP-502]



- NOTES
1. Functions of DIRECT DATA INSERT bits are:
 - 00 – Inhibits interrupts
 - 05 – Zeroes disk area specified by system integrity program
 - 06 – Removes any network management controls in effect
 - 16 – Zeroes all CS and PS memory not backed up on disk
 - 17 – Skips hashsum calculations.
 2. System has recovered if following conditions have been met:
 - A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
 - B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
 - C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)

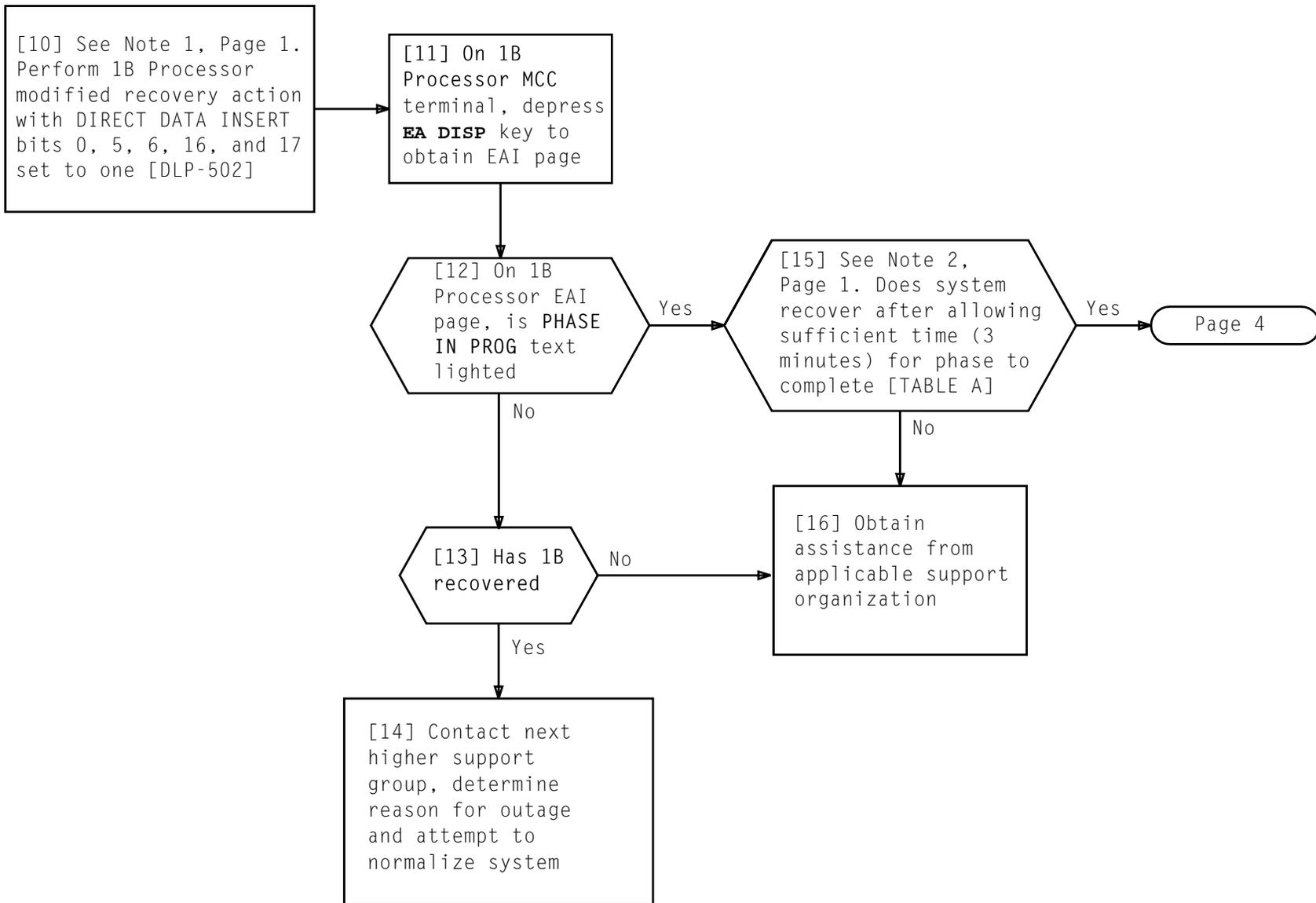
ATTEMPT 1B PROCESSOR MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)

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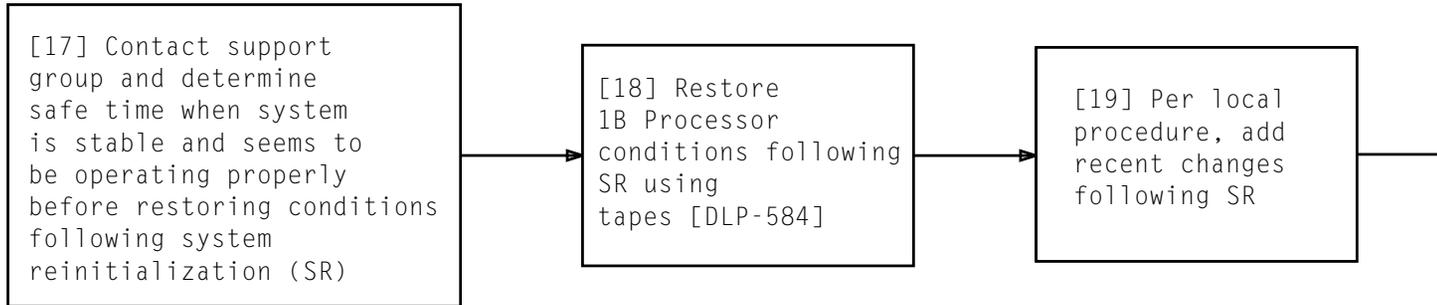
ATTEMPT 1B PROCESSOR MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)

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ATTEMPT 1B PROCESSOR MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)

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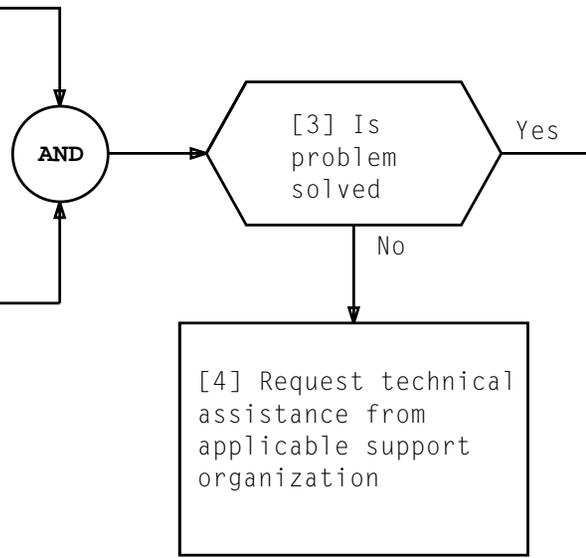


ATTEMPT 1B PROCESSOR MODIFIED RECOVERY ACTION PHASES FOLLOWING SYSTEM REINITIALIZATION (SR)

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[1] See NOTE 1. From displayed response on APS MCRT terminal, identify error message

[2] Using TABLE A, locate identified error message and perform corrective action associated with reason for output



NOTE 1 When dealing with teleprocessing problems, close coordination should be maintained with HOC/RAO	
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TABLE A		
ERROR MESSAGE	REASON	CORRECTIVE ACTION
AIMCHECK a a = AMdwriter, IC or OC pathname	FAILED TO CREATE PROCESS	Contact local support organization.
AMA CONTROL FILE AUDIT	COULD NOT ATTACH TO PAS	Contact local support organization.
	CONTROL FILE AUDIT FAILED	Use the OP:STATUS:LISTDIR message to see if /amafiles/ic.file or /amafiles/oc.file 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 text phrase	—	Save printouts for analysis. Contact local support organization.
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.
(Continued on Page 3)		

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
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 [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] RECORDER RECEIVED – CALL CODE a	NOTE: 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. Equip partition for stream. If problem persists, contact local support organization.
AMA FORMATTER [IC/OC] SDS FULL	NOTE: Disk writer for stream is not running or occupancy is 100 percent full	Use the OP:STATUS;ALLKERNS input message to check if the stream's AMDwriter process is running. If it is not running, it must be restarted. If stream's disk occupancy is 100 percent full, reduce AMA disk storage occupancy [DLP-520]
AMA FORMATTER [IC/OC] SDS PTRS ERROR LOAD a UNLOAD b	NOTE: Shared Data Segment (SDS) 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	NOTE: Invalid AMA data some process overwritten the formatted AMA data	Contact local support organization.
AMA FORMATTER NO DF PARTITIONS EQUIPPED, DF CANNOT BE INITIALIZED	NOTE: The switch is administered for deferred formatting capability but no deferred formatting disk partitions have been equipped	Use the SET:AMA:CONFIG input message to equip a DF partition.
(Continued on Page 4)		

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
DF BUFFER OVERFLOWED	-	Contact local support organization
AMA FORMATTER PROCESS	COULD NOT CONNECT TO ITS PORT	Contact local support organization
AMA FORMATTER NO DISK MODE (DM) PARTITIONS EQUIPPED, DM CANNOT BE INITIALIZED	NOTE: NO DISK MADE PARTITIONS HAVE BEEN EQUIPPED	If the Switch is in Call Detail Recording Platform (CDRP) or Transition Recording Mode, use the SET:AMA;CONFIG input message to equip a DM partition. Otherwise, this message can be ignored
AMA FORMATTER SCSI LINKS ARE NOW SIMPLEX FAILED	NOTE: A SCSI LINK HAS GONE OUT OF SERVICE	Restore the SIN Node with RST:LNxx y! input message. If the link does not come up, restore the link with CHG:SLK(xx,y);ARST. If the link still does not come up, contact the National AMA Control Center (NAMACC) to restore the link from the CDRP
AMA FORMATTER SCSI LINKS ARE NOW DUPLEX FAILED		
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
AMA MONITOR AMA SESSION ABORTED	SANITY TIMER RUNOUT (TELEPROCESSING)	Use OP:AMA;DISK message and obtain disk space occupancy for HOC/RAO. Call HOC/RAO and request poll
	SANITY TIMER RUNOUT (TAPE)	Send tape to HOC/RAO for reissue. Tape should not be read by RAO. Mount, verify, and write another tape
(Continued on Page 5)		

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
AMA MONITOR AMA SESSION ABORTED (CONTD)	CONTROL FILE WAS AUDITED (TELEPROCESSING)	Use OP:AMA,DISK message and obtain 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
	CONTROL FILE WAS AUDITED (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 PARAMETER IN AM_START PROC • BAD TIMER INDEX PARAMETER IN AMSET_TIMER • BAD TIMER DURATION PARAMETER IN AMSET_TIMER • BAD TIME PARAMETER IN AMTIME_UNTIL 	<p>If teleprocess session was in progress: Use OP:AMA;DISK message and obtain disk space occupancy for HOC/RAO. Call HOC/RAO and request poll.</p> <p>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.</p>
	INTERNAL INCONSISTENCY FOLLOWING CONTROL FILE AUDIT	<p>Enter OP:AMA;CONTROLFILE message and examine all field entries. Correct any errors using SET:AMA;CONTROL, INH:AMA, or ALW:AMA message.</p> <p>If teleprocessing session was in progress: Use OP:AMA;DISK to identify monitor disk space occupancy for HOC/RAO. Call HOC/RAO and request poll.</p> <p>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.</p>

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
AMA/ICDR FORMATTER	<ul style="list-style-type: none"> • DEFERRED FORMATTING DISK STATUS IS NOT AVAILABLE. CANNOT ACTIVATE DEFERRED FORMATTING • 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)		

IDENTIFY AUTOMATIC MESSAGE ACCOUNTING (AMA) ERROR MESSAGE AND PERFORM CORRECTIVE ACTION

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
AMA SESSION CONNECT FAILED	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-519].
	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.
	AMA STREAM UNAVAILABLE	Use OP:AMA;CONTROLFILE message to determine polling window. If wrong, correct with SET:AMA;CONTROL message. Monitor disk space occupancy to avoid overwrite. Request poll from HOC/RAO.
AMA STREAM INDICATOR IS INVALID	-	Use SET:AMA;STREAM message to correct.
AMA TAPE ERROR	<ul style="list-style-type: none"> • AMA PARTITION UNAVAILABLE FOR [IC/OC] STREAM • COULD NOT ATTACH TO PAS FOR [IC/OC] STREAM • COULD NOT ATTACH TO PORT FOR [IC/OC] STREAM 	Send tape to RAO for reissue. Contact local support organization.
AMA TAPE COMPLETE FOR [IC/OC] STREAM (Continued on Page 8)	NEXT AMA PARTITION UNAVAILABLE	Send tape to RAO for processing and obtain technical assistance.

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
AMA TAPE VERIFY (Contd)	TAPE HAS NOT EXPIRED	Enter VER:AMATAPE! 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.
	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.
	DATA IS NOT RETRIEVABLE	Determine if tape write session deals with primary or secondary data. If primary, save tape for reuse. Enter OP:AMA;DISK! to obtain disk occupancy. Obtain technical assistance immediately. If data is secondary on disk and session is secondary, do following: <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.
AMA TAPE VERIFY FOR [IC/OC] STREAM (Continued on Page 10)	COULD NOT ATTACH TO PAS	Try to verify tape again and if problem persists, obtain technical assistance.

**IDENTIFY AUTOMATIC MESSAGE ACCOUNTING (AMA) ERROR MESSAGE AND
PERFORM CORRECTIVE ACTION**

TABLE A (Contd)

ERROR MESSAGE	REASON	CORRECTIVE ACTION
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	FAILED TO ATTACH TO PAS	Obtain technical assistance.
	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 message to identify AMAT password. If wrong, correct with SET:AMA;CONTROL message. Monitor disk space occupancy to avoid overwrite. Call HOC/RAO and request poll.
AMA/ICDR TRANSFER BUFFER ALARM BUFFER IS a% FULL	NOTE: AMformat process not running	Use OP:STATUS;ALLKERNS message to check if AMformat process is running. If not, it must be restarted. If process is running, 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 APS Read-Only Printer (ROP),
 identify message reporting problem

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

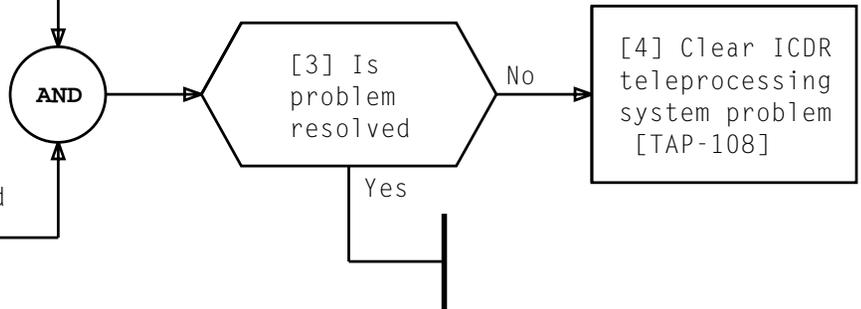


TABLE A	
MESSAGE	CORRECTIVE ACTION
REPT ICDR DISK STORAGE IS (70-89) PERCENT FULL REPT ICDR DISK STORAGE IS (90-99) PERCENT FULL	1. Call the processing center, and request that a polling session be started as soon as possible. 2. Polling session should continue at least long enough to allow the occupancy 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	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	1. Continue polling until the occupancy level has reached a level that is "normal" for this time of day for this office.

TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
REPT ICDR SESSION TERMINATED (FORMAT 1) - 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 messages, 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-108]
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 obtain 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.

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 AMformat is running. (In the UTID column of the printout, AMformat is 0x625.) If not, restart APS processes [DLP-537]. 3. Use the same message to see if it is running. If it is running, watch for a message of alarm downgrade and eventually a message of alarm retiring. If it is not running, go to Step 4. 4. Boot to APS backup database [DLP-539]. 5. Check again to see that AMformat is 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 obtain 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 <code>REPT ICDR MONITOR INIT COMPLETE</code> 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.

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 processes [DLP-537] 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 or AMformat pathname	<ol style="list-style-type: none"> 1. Verify character position 3 of the SYSTYPE field on the EAI page of the APS MCRT is set to "I" by verifying SYSTYPE field data [DLP-531]. 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 APS processes [DLP-537]. 4. Use the <code>OP:STATUS:PROCESS,ALLKERNS</code> input message to see if INdwriter and AMformat 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, 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 APS backup database [DLP-539]. 6. Check to see if INdwriter and AMformat are running now using <code>OP:STATUS:PROCESS,ALLKERNS</code> message. 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.

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 <code>OP:STATUS:PROCESS,ALLKERNS</code> 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 1955 773">Verify that all the AMA partition device files have the correct LDIN. Use the <code>OP:ICDR;CONFIG</code> 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 using <code>COPY:FILESYS:FILE SCR "/amabfiles/config.in", DEST "/amafiles config.in"! message. If they are still incorrect, verify that the VTOC on the AMA disks is correct.</code></td> </tr> <tr> <td data-bbox="932 794 968 818">22</td> <td data-bbox="1035 794 1940 1154">Both copies of the configuration file are unusable, so the INdwriter 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 <code>OP:STATUS:PROCESS,ALLKERNS</code> 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 <code>OP:ICDR;CONFIG</code> 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 using <code>COPY:FILESYS:FILE SCR "/amabfiles/config.in", DEST "/amafiles config.in"! message. If they are still incorrect, verify that the VTOC on the AMA disks is correct.</code>	22	Both copies of the configuration file are unusable, so the INdwriter 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 <code>OP:STATUS:PROCESS,ALLKERNS</code> 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 <code>OP:ICDR;CONFIG</code> 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 using <code>COPY:FILESYS:FILE SCR "/amabfiles/config.in", DEST "/amafiles config.in"! message. If they are still incorrect, verify that the VTOC on the AMA disks is correct.</code>								
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<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>								

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 852">6</td> <td data-bbox="1035 345 1911 852"> <p>Both copies of a partition's disk map were invalid (this message will always be preceded by an error code 4). Both disk maps are intialized 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 using COPY:FILESYS:FILE SCR "/amabfiles/config.in", DEST "/amafiles/config.in"! message or use the SET:ICDR;CONFIG message to unequip the partition, then reequip the partition with the "NOINIT" option. The "lost" data on the partition will probably reappear since the partition size is used to determine the location of the disk map backup copy which would not have been initialized after the original error 6.</p> </td> </tr> <tr> <td data-bbox="919 852 1018 1347">9 to 13</td> <td data-bbox="1035 852 1911 1347"> <p>These indicate possible problems in the ECD. When the INdwriter 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 INdwriter 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 termination code 9. Error 11 may cause the disk pair to appear out-of-service to the INdwriter 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 INdwriter.</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 an error code 4). Both disk maps are intialized 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 using COPY:FILESYS:FILE SCR "/amabfiles/config.in", DEST "/amafiles/config.in"! message or use the SET:ICDR;CONFIG message to unequip the partition, then reequip the partition with the "NOINIT" option. The "lost" data on the partition will probably reappear since the partition size is used to determine the location of the disk map backup copy which would not have been initialized after the original error 6.</p>	9 to 13	<p>These indicate possible problems in the ECD. When the INdwriter 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 INdwriter 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 termination code 9. Error 11 may cause the disk pair to appear out-of-service to the INdwriter 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 INdwriter.</p>
Error Code	Consequences/Actions To Be Taken						
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TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
<p>REPT ICDR DISK WRITER ERROR CODE a a = Error code number</p>	<p>Error <u>Code</u> <u>Consequences/Actions To Be Taken</u></p> <p>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 LDINs are correct.</p> <p>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, use OP:STATUS:LISTDIR, FN "/dev"! message to verify that the partition's device file exists in the /dev directory.</p> <p>15 to 17 If not preceded by an error code 11, the disk pair containing the partition is probably duplex failed. For error code 15, it is also possible that the partition's device file is incorrect. Error 16 may cause an ICDR session in progress to be aborted if the INdwriter was attempting to update the disk map for the disk reader. Error 17 may result in a small sequence gap when the disk pair is restored to service and the ICDR data is transmitted.</p> <p>18 to 20 These error codes indicate a problem with ICDR configuration file or one of the AMA file systems. The INdwriter 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 termination code 22.</p>

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="936 266 1045 334">Error Code</th> <th data-bbox="1045 266 1927 334">Consequences/Actions To Be Taken</th> </tr> </thead> <tbody> <tr> <td data-bbox="919 375 1045 443">18 to 20 (Contd)</td> <td data-bbox="1045 375 1940 979"> <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 1013 1045 1040">21 to 26</td> <td data-bbox="1045 1013 1955 1300"> <p>These errors indicate a problem with the ICDR global map or one of the AMA file systems. The INdwriter 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 INdwriter updates the global map. If the opening of either copy fails (error code 21), the INdwriter 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> </tbody> </table>	Error Code	Consequences/Actions To Be Taken	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 INdwriter 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 INdwriter updates the global map. If the opening of either copy fails (error code 21), the INdwriter 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	Consequences/Actions To Be Taken						
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 INdwriter 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 INdwriter updates the global map. If the opening of either copy fails (error code 21), the INdwriter will try to recreate it. If the create also fails, it will reattempt the create the next time it updates the global map.</p>						

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 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 INdwriter 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, 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 (that is, the partition equipage information was zeroed). Restore the configuration file from the backup copy using COPY:FILESYS:FILE SCR "/amabfiles/config.in", DEST "amafiles/config.in"! message. If the error still occurs, the partitions must be reequipped from scratch. Using the SET:ICDR;CONFIG message with the NOINIT option specified.</p>
<p>REPT ICDR DISK READER a a = Text phrase</p>	<ol style="list-style-type: none"> 1. Seek technical assistance. 2. Save printouts for analysis and information purposes.
<p>REPT ICDR TELEPROCESSING SUMMARY (Format 2)</p>	<ol style="list-style-type: none"> 1. Use the OP:ICDR;TELEPROCESSING input message to print out the summary information

TABLE A (Contd)

MESSAGE	CORRECTIVE ACTION
REPT ICDR TELEPROCESSING FAILED TO ATTACH TO PAS	1. Contact technical support group and request a backup copy of /ama/INftp be moved from broot to root.
REPT ICDR TELEPROCESSING ICDR DATA UNREADABLE NEXT PARTITION OOS	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 OP:ICDR;MAPS input message to determine the current read partition. Then, enter the OP:ICDR;CONFIG 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	1. If this problem persists, contact technical support group and request a backup copy of /ama/AMformat be moved from the broot partition to the root partition. 2. Use the OP;STATUS;PROCESS,ALLKERNS 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 STOP:EXC:ANY,PID a,UCL message. 4. If the problem still persists, boot to APS backup database [DLP-539].
REPT ICDR CONFIG FILE a a = Text phase	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 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.

TABLE A (Contd)

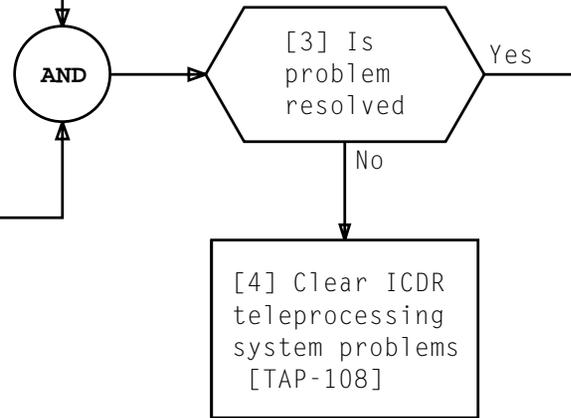
MESSAGE	CORRECTIVE ACTION
<p>REPT ICDR CONFIG FILE a a = Text phase</p>	<p>If text phrase "a" is one of the following: COULD NOT ATTACH TO ECD DATABASE COULD NOT RETRIEVE ECD ORIGIN RECORD COULD NOT RELEASE ECD DATABASE COULD NOT OBTAIN INFORMATION ABOUT THE PARTITION INVALID SPECIAL DEVICE TYPE DEVICE 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 INdwriter will attempt to correct this situation the next time it reads the disk map.</p>

[1] At MTC terminal, identify message reporting problem

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



CLEAR ICDR TELEPROCESSING PROBLEM DISPLAYED AT 1B PROCESSOR MAINTENANCE TERMINAL AND PRINTER

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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 1B 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/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-531]. In either case, go to the next step. 4. Enter the STOP:EXC:ANY input message to kill /ama/INdwriter and /ama/AMformat. 5. Use the OP:STATUS:PROCESS,ALLKERNS input message to make sure both processes are running. If any of the processes are not running, restart 3B computer processes [DLP-537]. Obtain technical assistance immediately if any processes are still not running. If both processes are running, no further actions are necessary. <p>NOTE: When data begins moving through the system again, the REPT AMA/ICDR RECORDING RESTARTED message will be printed.</p>
<p>1B 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.

**CLEAR ICDR TELEPROCESSING PROBLEM DISPLAYED AT 1B PROCESSOR
 MAINTENANCE TERMINAL AND PRINTER**

[1] At APS MCRT terminal, identify message receiving a RL or NG response

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

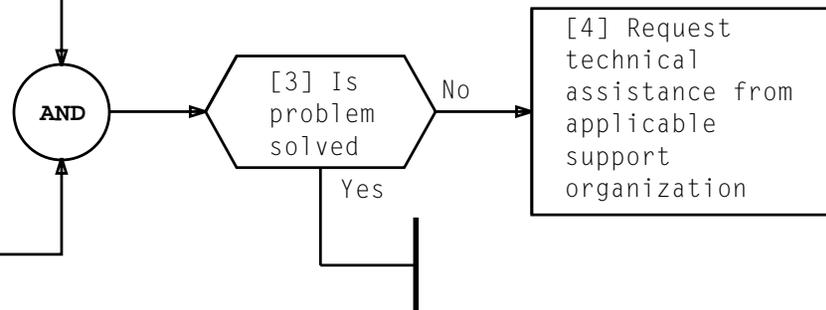


TABLE A

INPUT MESSAGE	RESPONSE	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	RL	<ol style="list-style-type: none"> 1. Verify character position 3 of the SYSTYPE field on the EAI page of the APS MCRT is set to "I" by verifying SYSTYPE field data [DLP-531]. In either case, go to the next step. 2. Use the OP:STATUS:PROCESS,ALL message to obtain 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 message to kill it unconditionally. 3. Restart APS processes [DLP-537]. 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	RL	<ol style="list-style-type: none"> 1. Enter CLR:FILESYS:FILE,FN "/amafiles/recind" message to delete the recording indicator file 2. Create a new /amafiles/recind file. 3. Reenter SET:ICDR;RECORDING message. 4. Request technical support to copy "/cft/sh1/cmds/SET/ICDR/RECORDING" from broot to root 5. Repeat from Step 1

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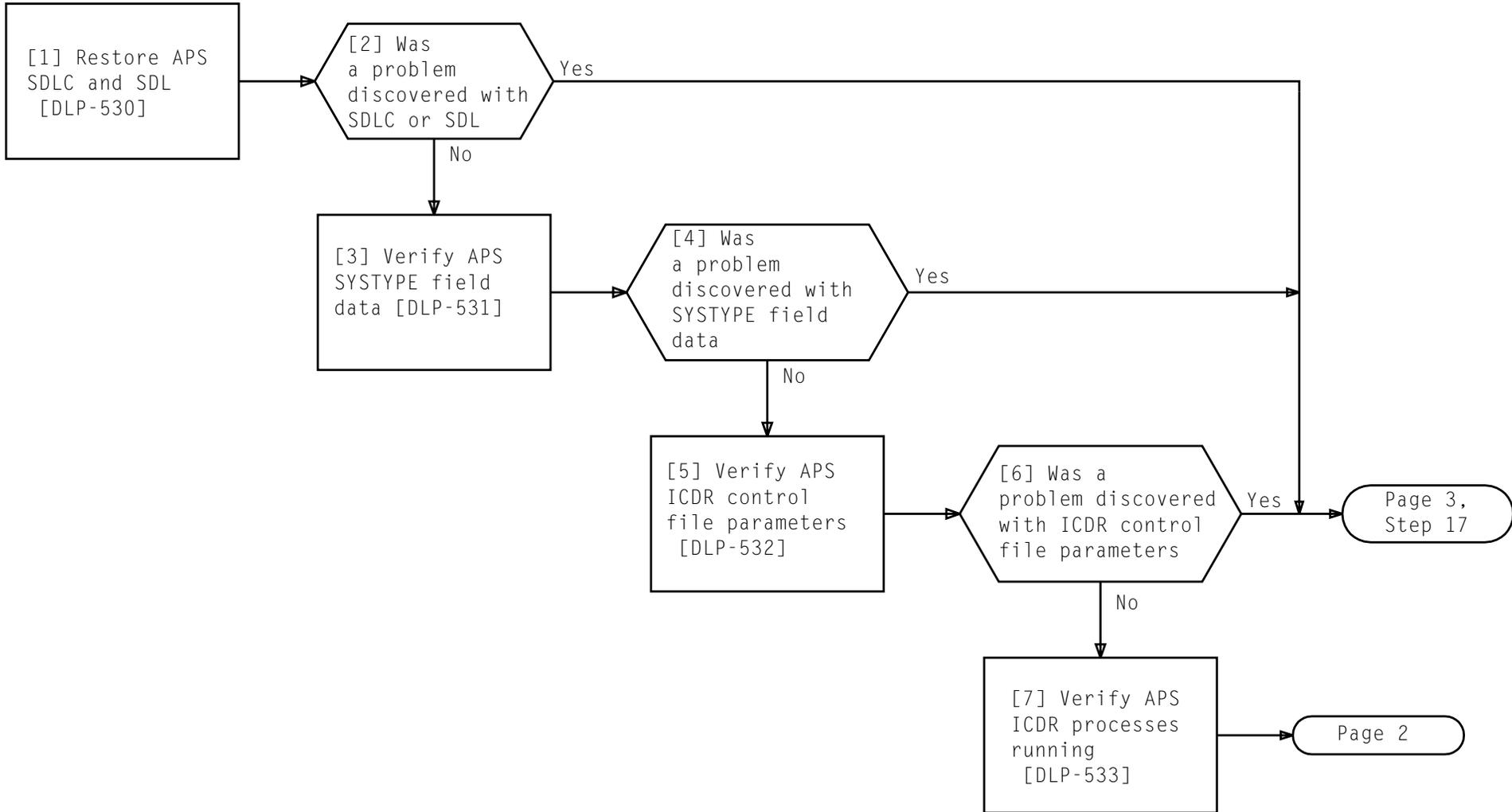
TABLE A (Contd)		
INPUT MESSAGE	RESPONSE	CORRECTIVE ACTION
SET:AMA;STREAM	RL	<ol style="list-style-type: none"> 1. Use input message CLR:FILESYS:FILE, FN"a" to delete the file. 2. Create a new file using the SET:AMA;STREAM input message. 3. If problem persists, contact next higher technical support group
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	<ol style="list-style-type: none"> 1. Use the OP:STATUS:PROCESS,ALL input message to get the process id of AMmon. 2. If AMmon is running, use the STOP:EXC:USER input message to kill AMmon. 3. If AMmon is not running, do an INIT:ULARP and OP:STATUS:PROCESS,ALL. 4. If the problem persists, contact next higher technical support group <p>NOTE: Any tape or teleprocessing session that was in progress will have to be restarted after the AMmon starts. Also any AMA tape that was aborted can be saved and reused after the new expiration date on tape is met.</p>

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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	NG	1. Check stream value entered 2. Use OP:AMA;STREAM message to determine office configuration 3. Retype message with the correct stream specified 4. If stream value is invalid, use the SET:AMA;STREAM to set the stream to the correct value

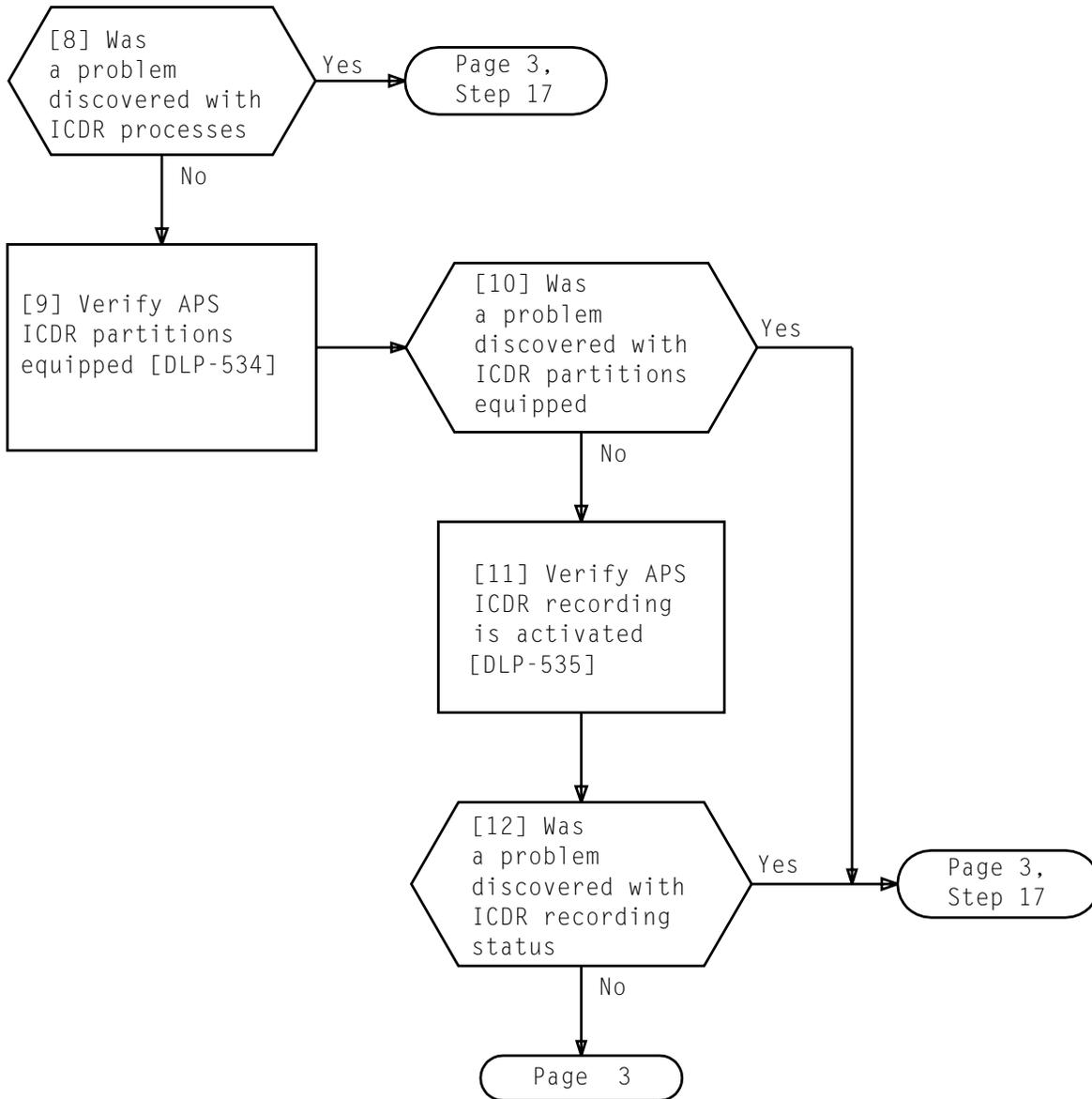
CLEAR AMA/ICDR INPUT MESSAGE RL OR NG RESPONSE PROBLEM

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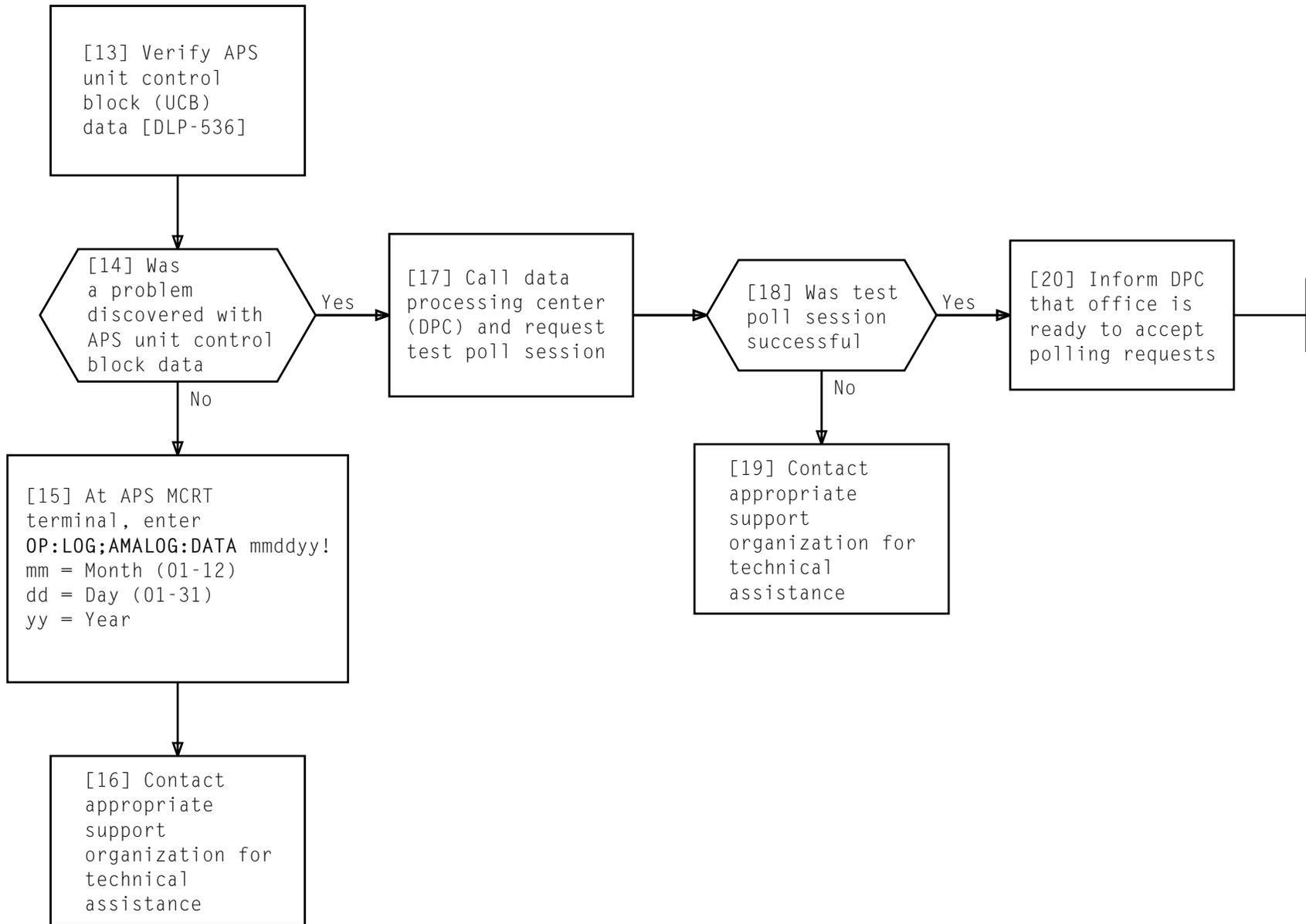
CLEAR ICDR TELEPROCESSING PROBLEM

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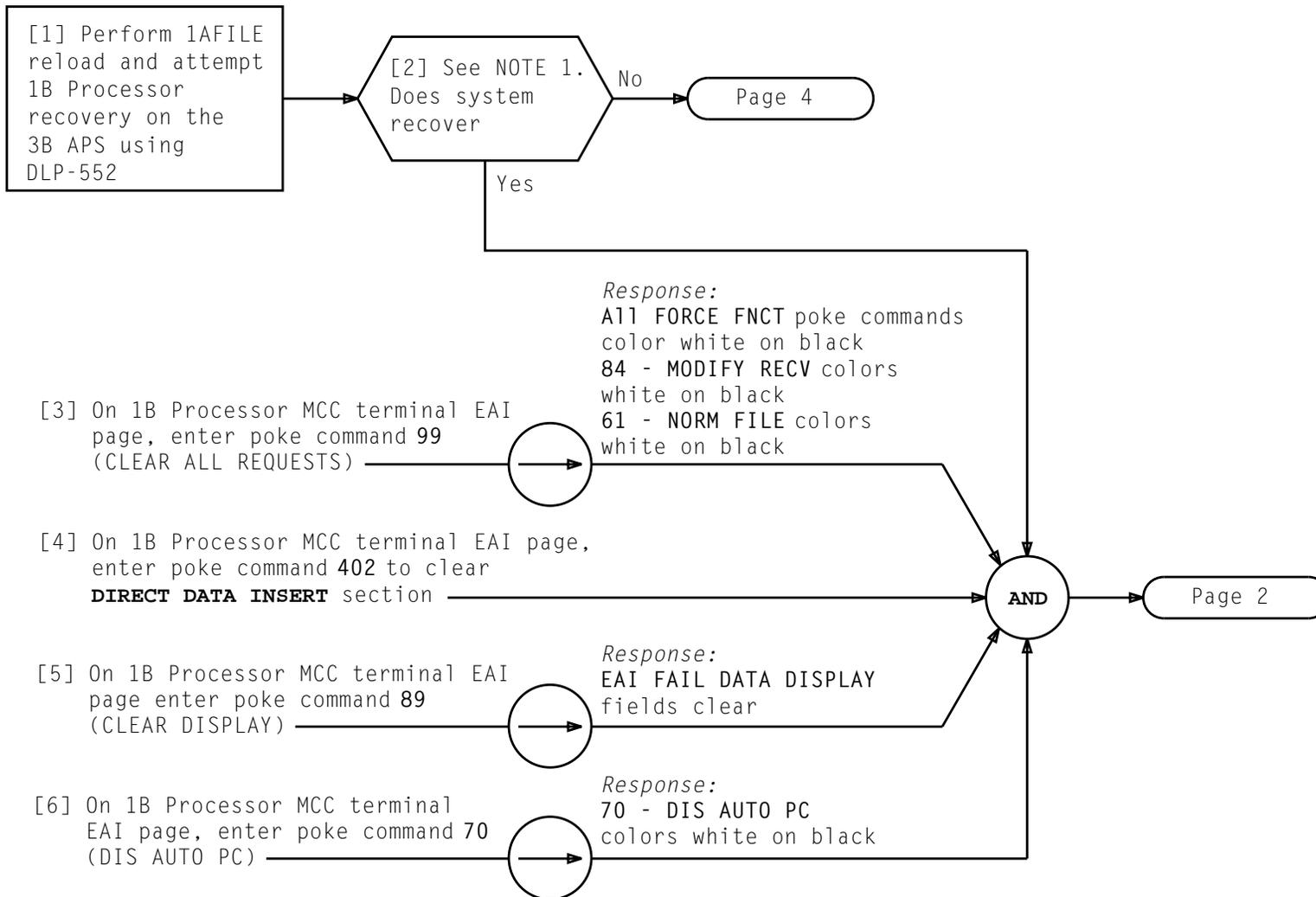
CLEAR ICDR TELEPROCESSING PROBLEM

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CLEAR ICDR TELEPROCESSING PROBLEM

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NOTE 1
System has recovered if following conditions are met on 1B Processor MCC terminal:

- A. EAI page - under **PC Progression, CMPL** text is lighted black on green
- B. EAI page - under **PHASE IN PROG** text has not lighted in last few minutes
- C. SYSTEM STATUS page - under **SYSTEM ACTIVITY**, data displayed is normal for time of day (3 minutes approximately for data update)

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[7] Restore attached processor system (APS) direct link nodes (DLNs) using DLP-563

[8] Contact next higher support group to determine save time when system is stable and operating properly before restoring conditions following System Reinitialization (SR). All earlier recent changes not on the ODA tape that was loaded, can start to be entered at this time. Continue at Step 9 while recent changes are being entered

[9] Restore 1B Processor conditions following the SR using DLP-584

[10] All earlier recent changes not on the ODA tape that was loaded, should be entered at this time. Do not continue until all recent changes are entered

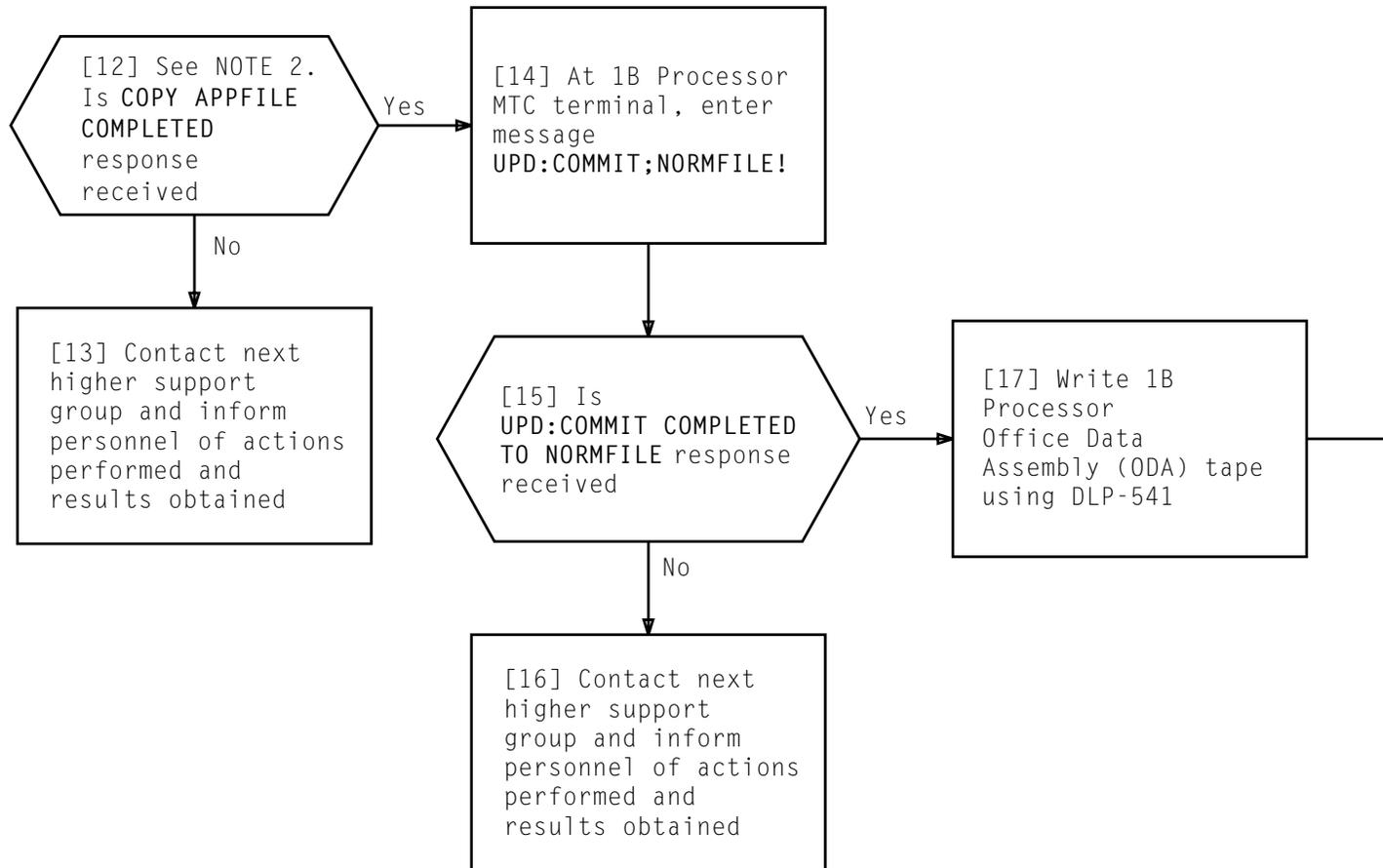
[11] At 1B Processor MTC terminal, enter message `COPY:APPFILE NORM;UCL!` to copy NORMAL file to UPDATE file

AND

Page 3

RECOVER 1B PROCESSOR BY PERFORMING ATTACHED PROCESSOR SYSTEM (APS) 1AFILE RELOAD USING TAPES

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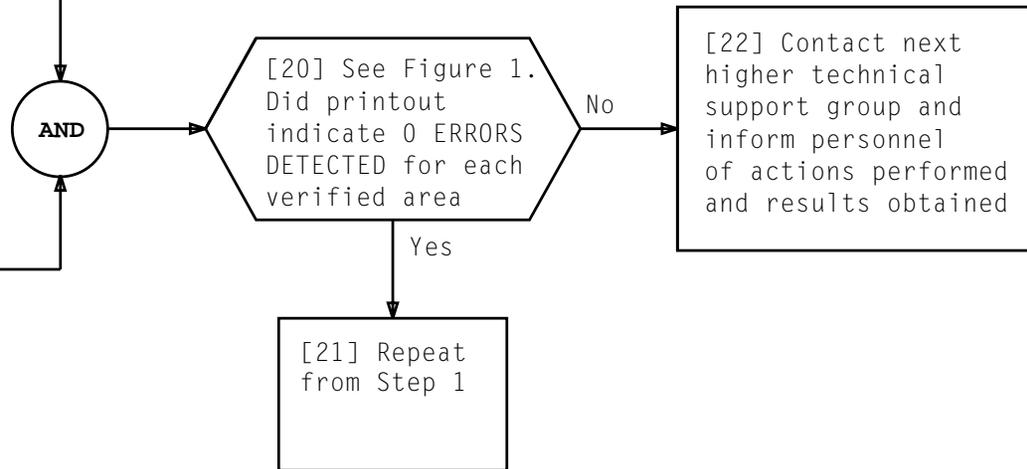


NOTE 2 Copy will take approximately 5 minutes to complete	
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**RECOVER 1B PROCESSOR BY PERFORMING ATTACHED PROCESSOR
SYSTEM (APS) 1AFILE RELOAD USING TAPES**

[18] At APS MCRT terminal, enter
VER:APPFILE UPD!

[19] See NOTE 3. 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)
  
```

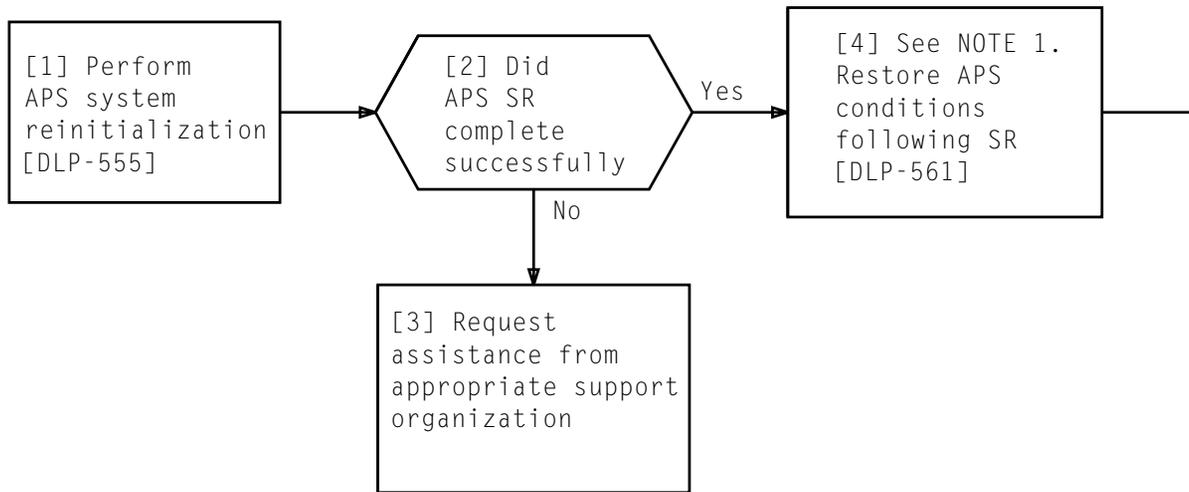
```

VER:APPFILE /dev/lafileX ID 11, MSG IP, 0 ERRORS DETECTED (RC Rollback Area)
VER:APPFILE /dev/lafileX ID 12, MSG IP, 0 ERRORS DETECTED (Traffic and Plant Management Area)
VER:APPFILE /dev/lafileX ID 17, MSG IP, 0 ERRORS DETECTED (Paged Program Area)
VER:APPFILE /dev/lafileX ID 20, MSG IP, 0 ERRORS DETECTED
(ODA Translations and Parameters in File Segment 1 With TWRP)
VER:APPFILE /dev/lafileX ID 21, MSG IP, 0 ERRORS DETECTED
(ODA Translations and Parameters in File Segment 2 With TWRP)
VER:APPFILE /dev/lafileX COMPLETED, 0 ERRORS DETECTED
  
```

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

NOTE 3

It takes approximately 30 to 45 minutes for verification to complete



NOTE 1	
Contact technical support group and determine safe time when system is stable and seems to be operating properly before restoring conditions following system reinitialization (SR).	
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RECOVER ATTACHED PROCESSOR SYSTEM (APS) BY PERFORMING APS SYSTEM REINITIALIZATION (SR)

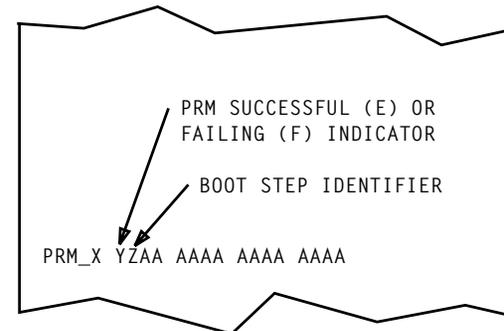
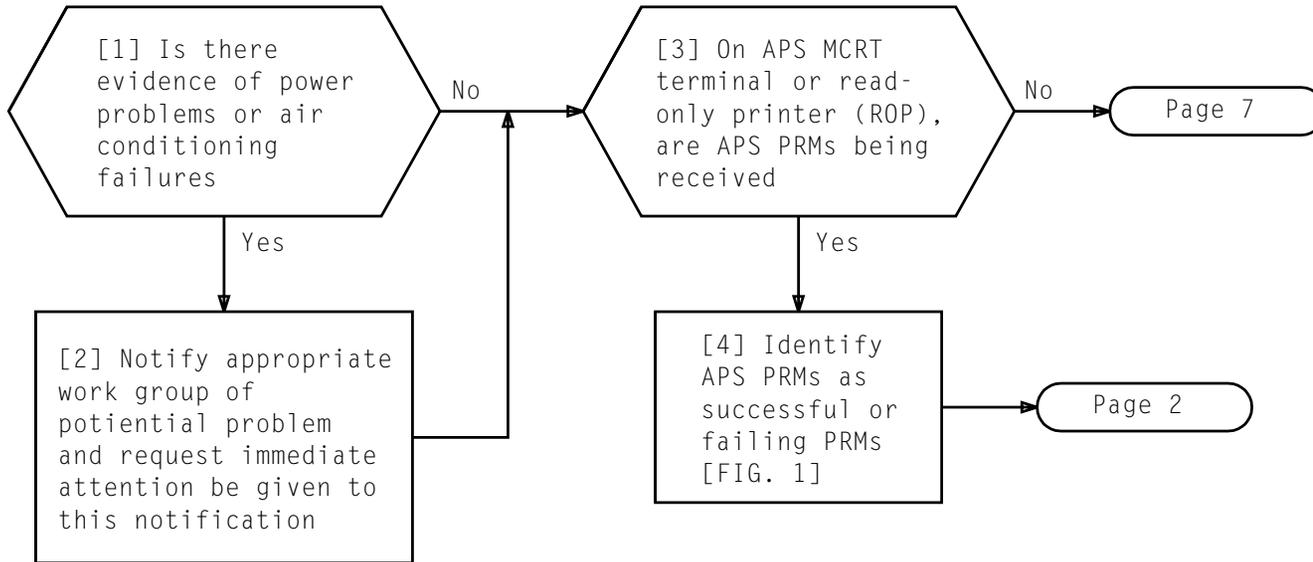
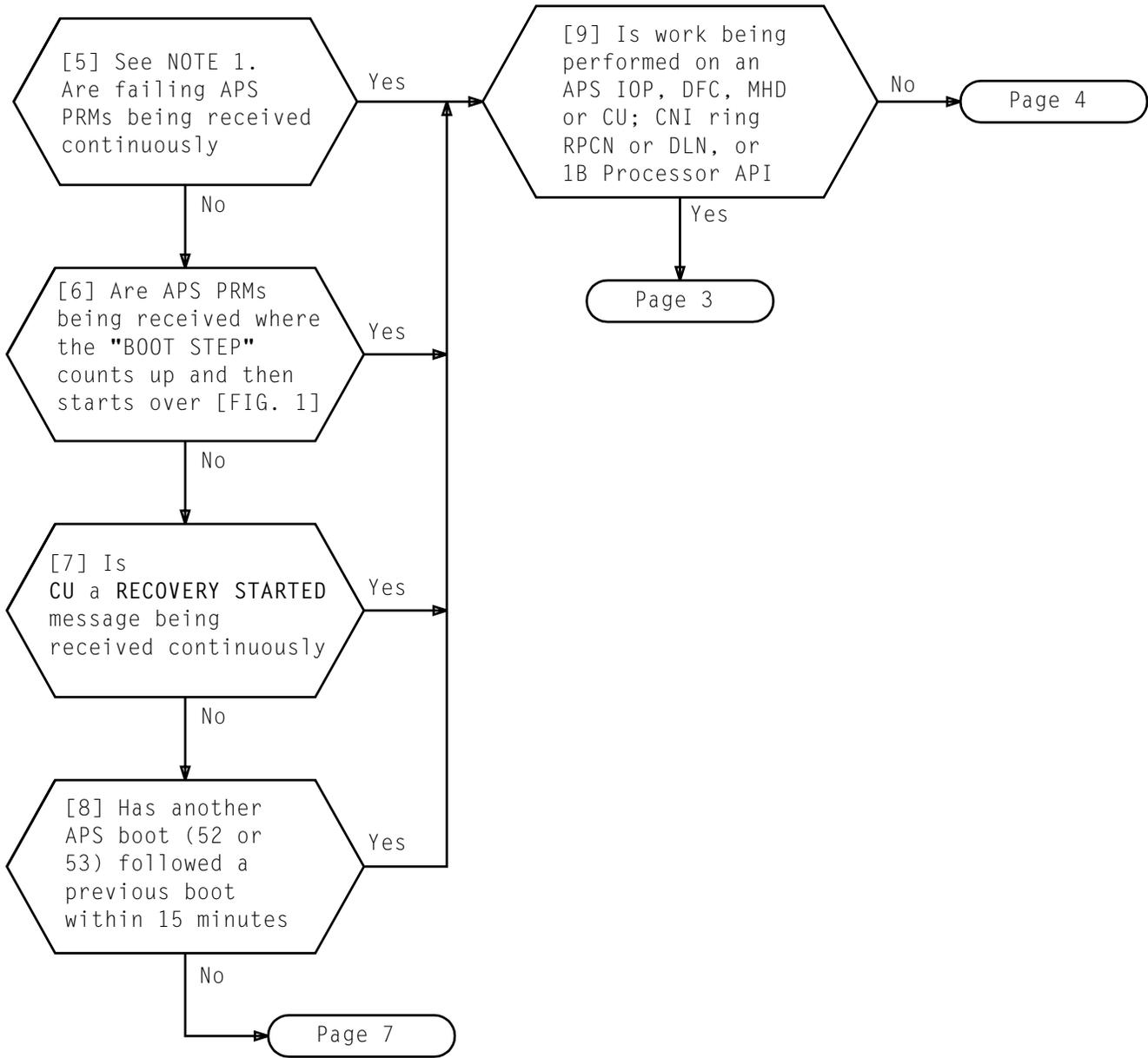
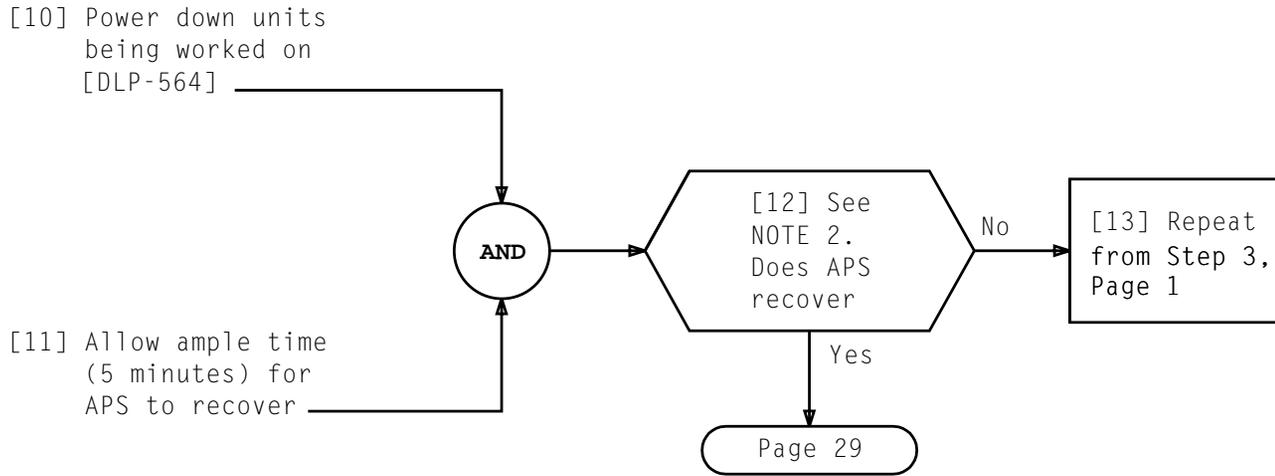


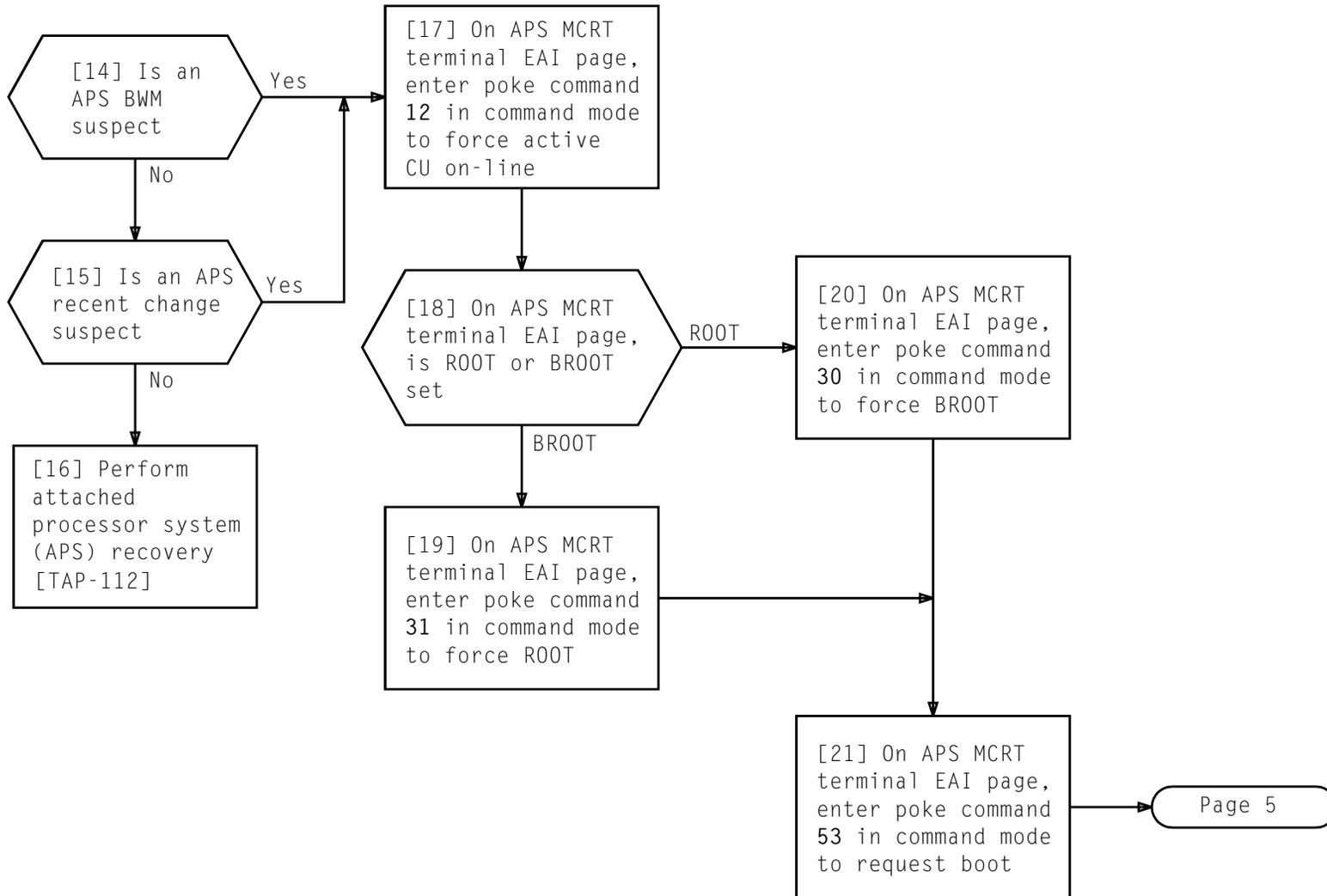
FIG. 1 - Sample Layout of Attached Processor System (APS) Processor Recovery Message (PRM)



NOTE 1
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy



NOTE 2	
System has recovered if following conditions have been met:	
A. On APS MCRT Terminal SYS EMER INDICATOR is not lighted	
B. On MCC panel PROCESSOR CONFIG COMPLETED lamp is lighted	
C. No current recent change activity going on	
D. PRMs are not being received continuously	
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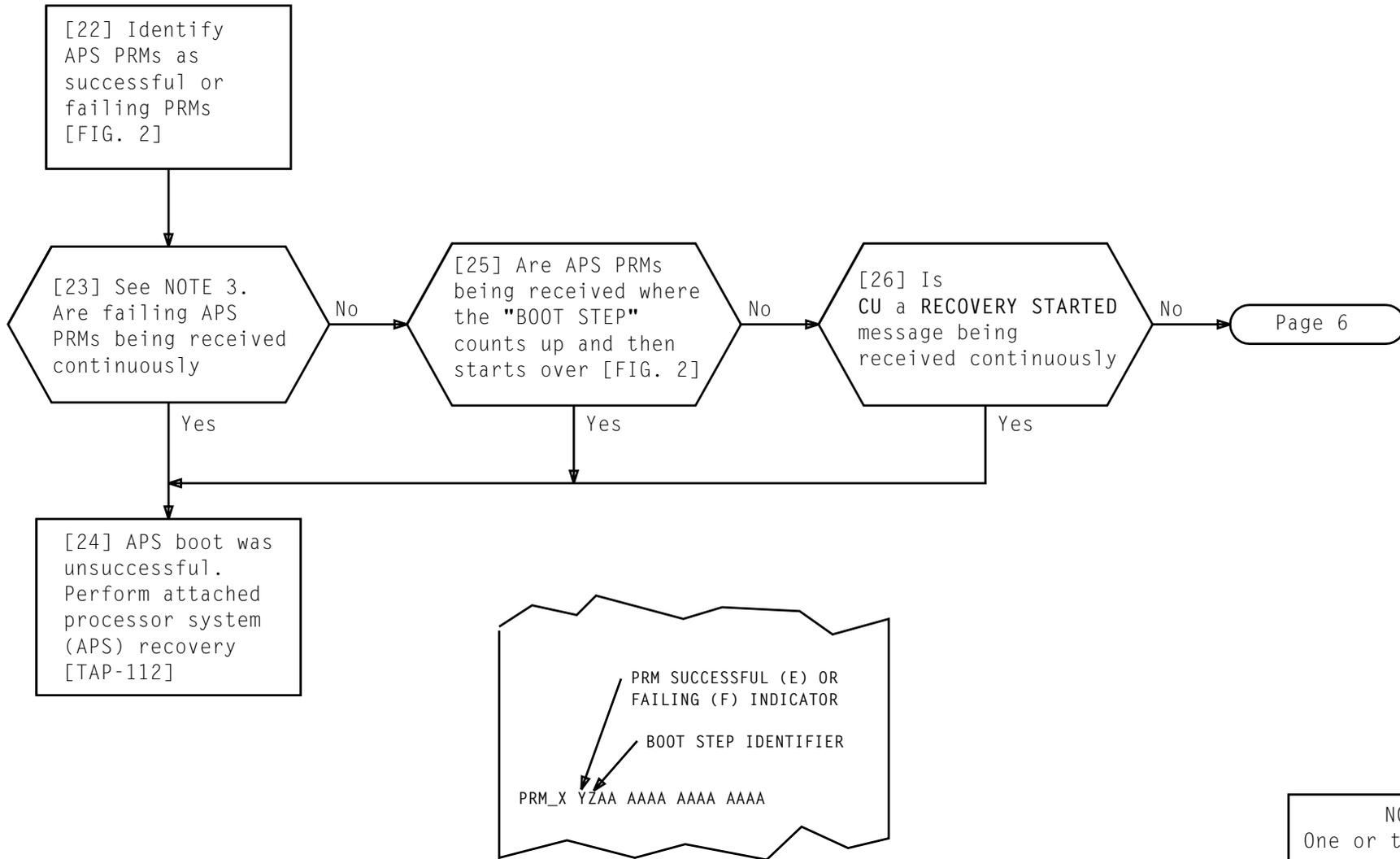
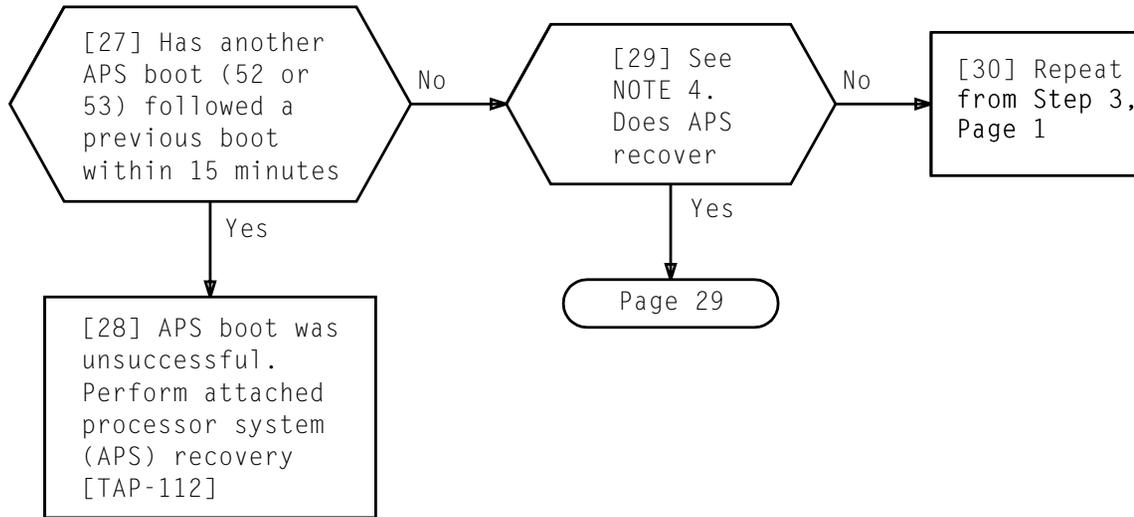
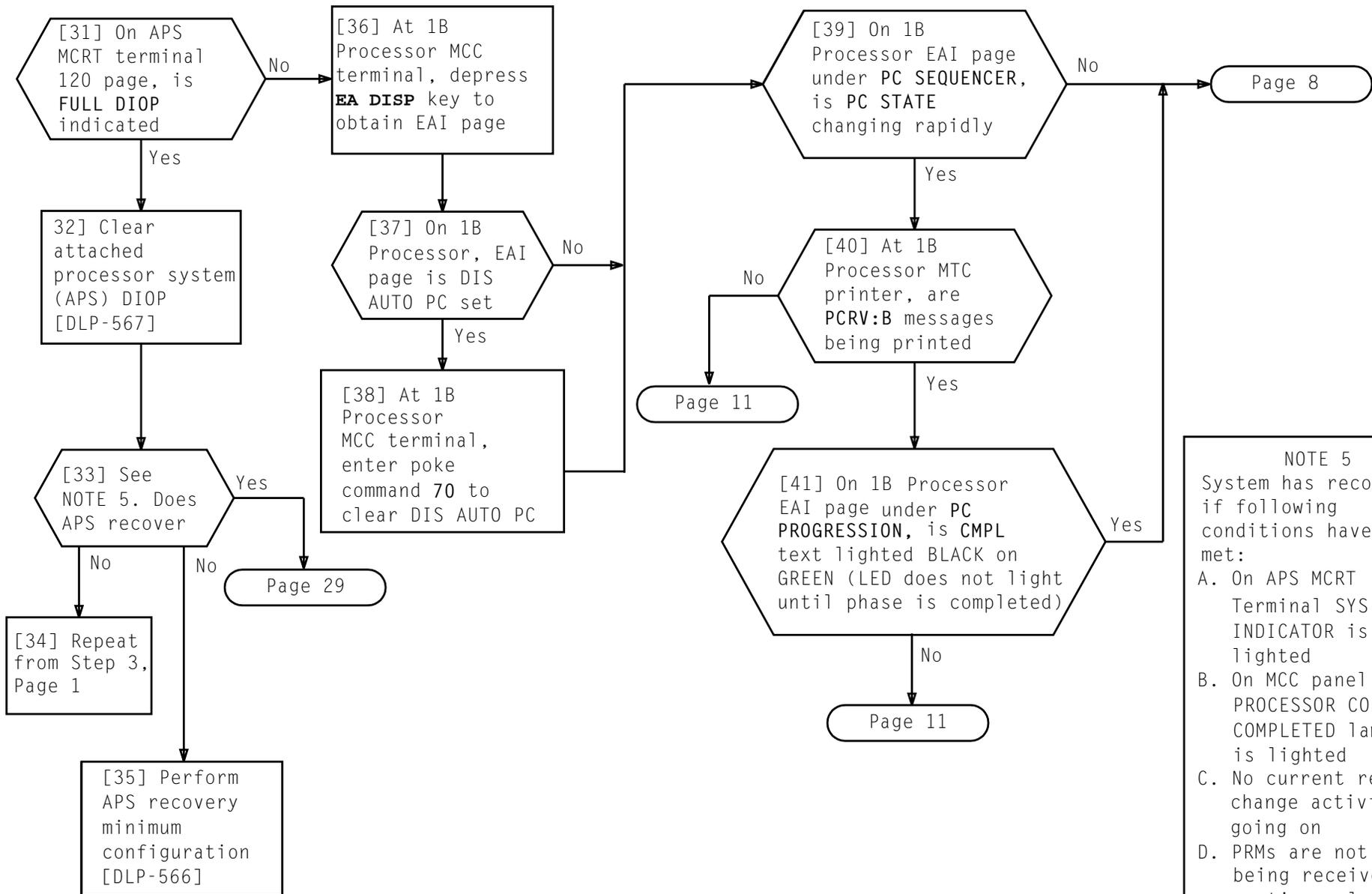


FIG. 2 - Sample Layout of Attached Processor System (APS) Processor Recovery Message (PRM)

NOTE 3	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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NOTE 4	
System has recovered if following conditions have been met:	
A. On APS MCRT Terminal SYS EMER INDICATOR is not lighted	
B. On MCC panel PROCESSOR CONFIG COMPLETED lamp is lighted	
C. No current recent change activity going on	
D. PRMs are not being received continuously	
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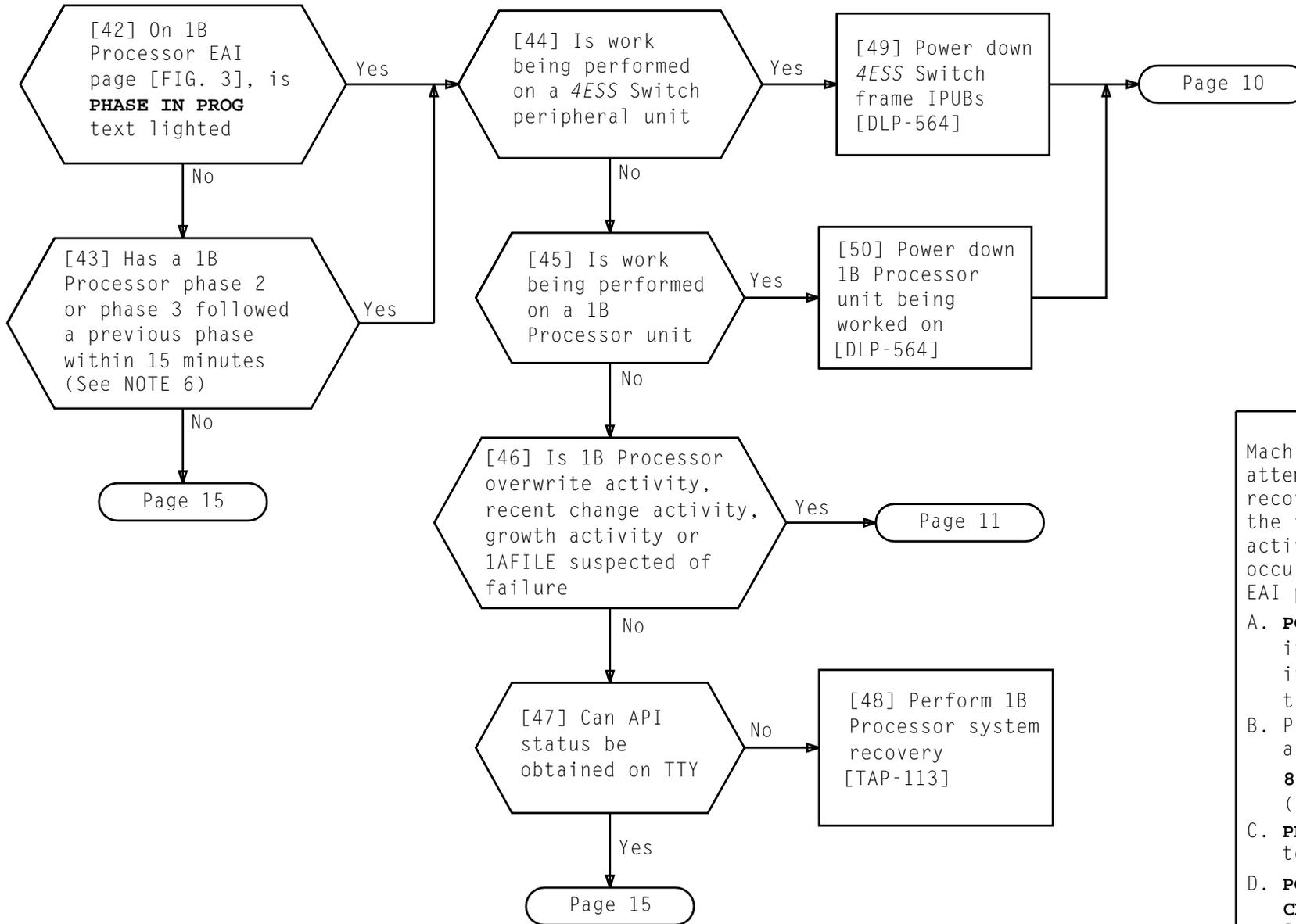


NOTE 5
System has recovered if following conditions have been met:

- A. On APS MCRT Terminal SYS EMER INDICATOR is not lighted
- B. On MCC panel PROCESSOR CONFIG COMPLETED lamp is lighted
- C. No current recent change activity going on
- D. PRMs are not being received continuously

**PERFORM 4ESS SWITCH EMERGENCY RECOVERY TROUBLE ISOLATION/
RECOVERY PROCEDURE**

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NOTE 6
Machine is attempting to recover if any of the following activities are occurring on the EAI page [FIG. 1]:

- A. **PC STATE** indicator is incrementing through PC States
- B. Progression codes are advancing in **86-CODE** field (See NOTE 7)
- C. **PHASE IN PROGRESS** text is lighted
- D. **PC PROGRESSION** **CMPL** text lighted RED

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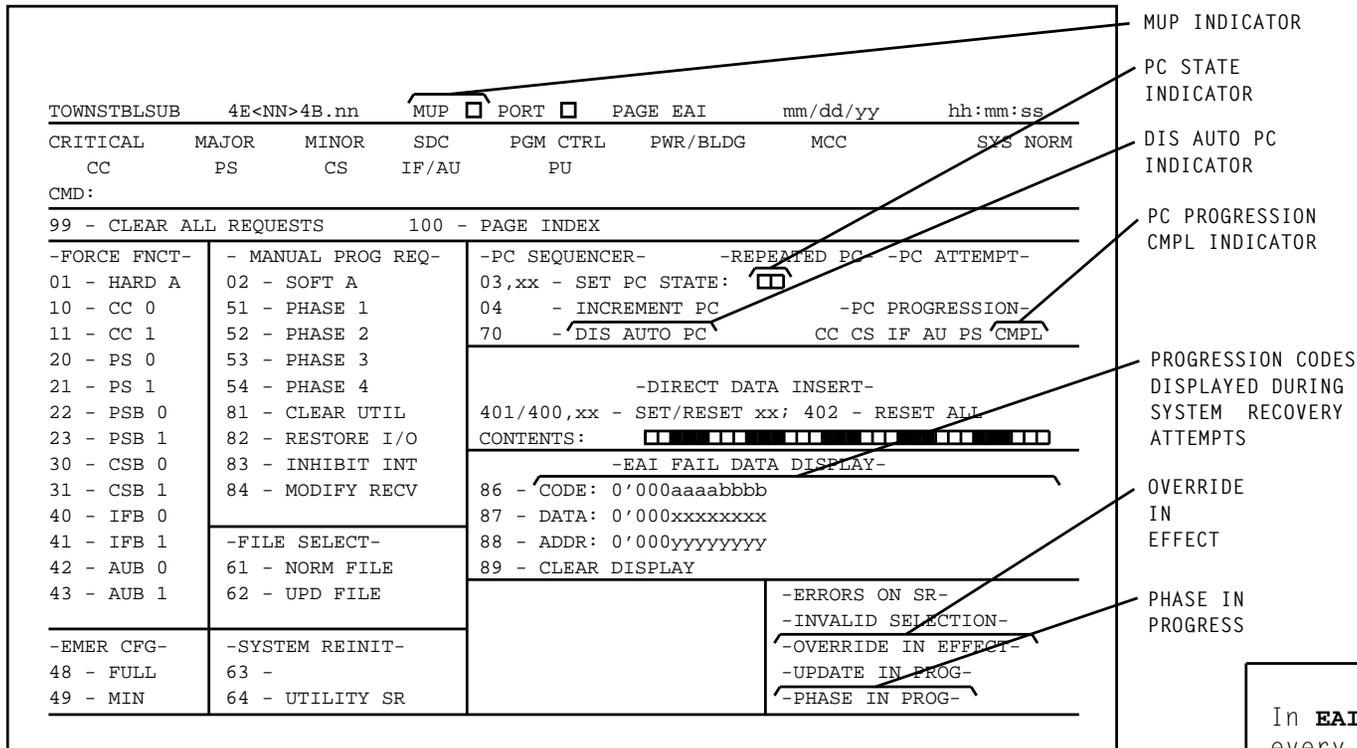
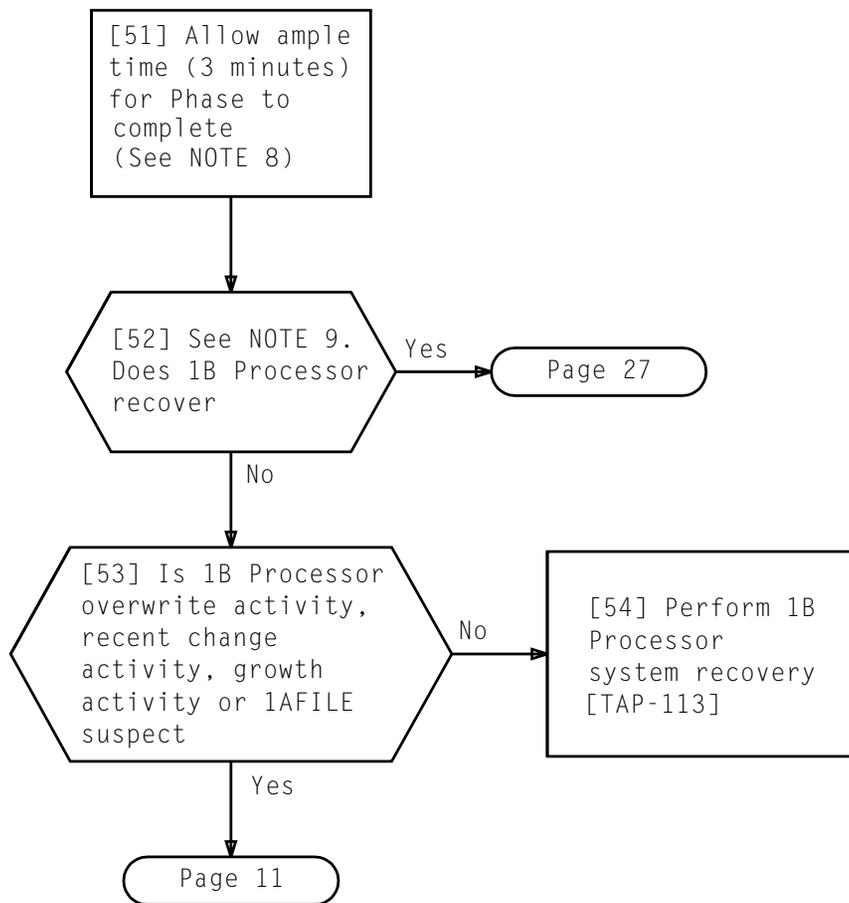


FIG. 3 - Layout of 1B Processor MCC Terminal EAI Page

NOTE 7
 In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure



NOTES

8. A phase is in progress if in 86-CODE field, the leftmost "a" is alternating between 0 and 4 every half second

9. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

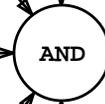
[55] On 1B Processor MCC terminal EAI page, enter poke command 70 to set DIS AUTO PC (text lighted BLACK on PURPLE or YELLOW on RED)

[56] On APS MCRT, enter INIT:APDRV:FPI! to initialize Attached Processor Driver

[57] On 1B Processor MCC terminal EAI page, enter poke command 99 to clear all requests

[58] On 1B Processor MCC terminal EAI page, enter poke command 402 (RESET ALL) to set all DDI Keys to zero

[59] On 1B Processor MCC terminal EAI page, enter poke command 401, 16, 17, 18, 21, 24, and 26 to set DDI Keys 16, 17, 18, 21, 24, and 26 to one



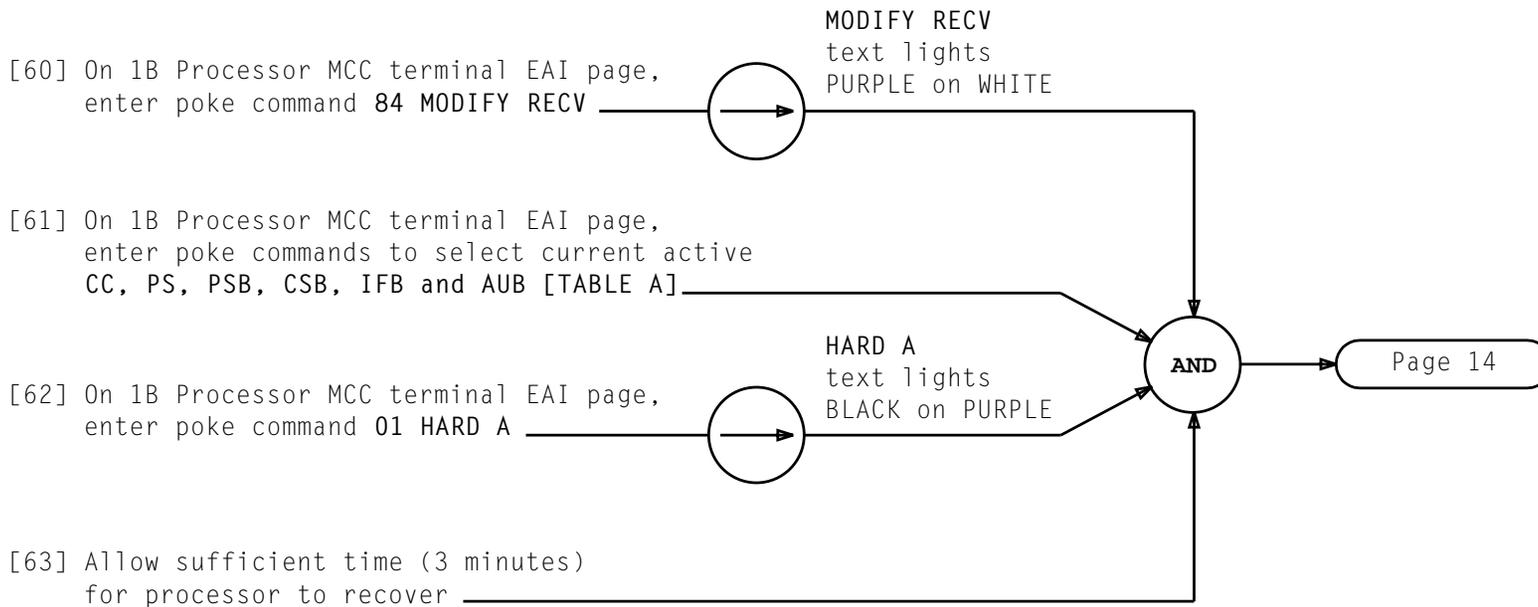
Page 13

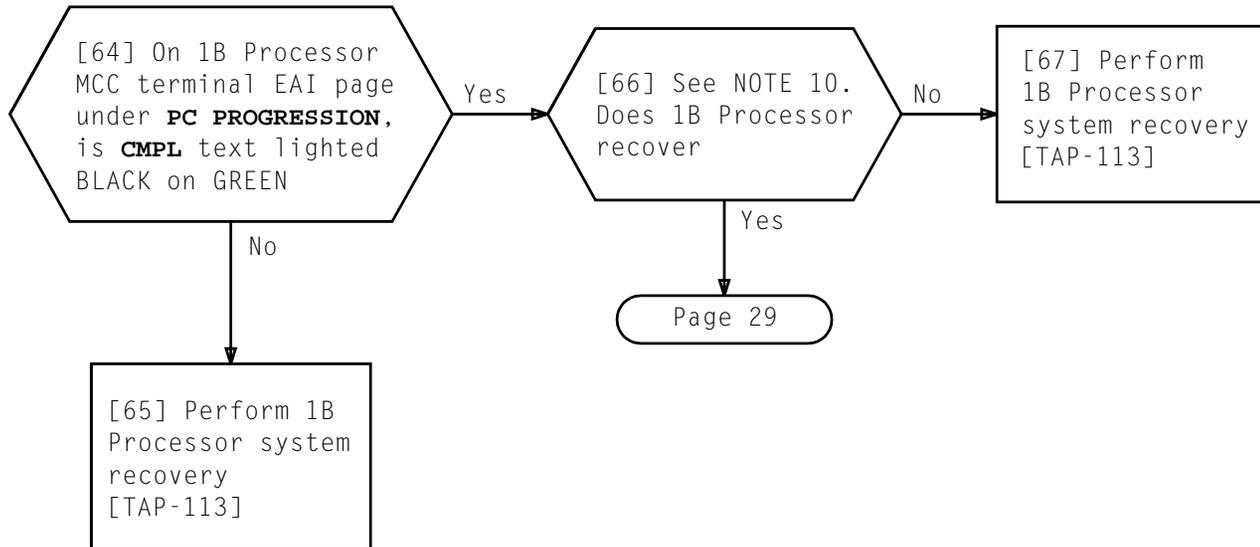
TABLE A
1B PROCESSOR MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS (MUP 0)

MANUAL SEQUENCE	OVERRIDE CONTROL SELECTIONS												
	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1	CHECK OFF ✓
1	10			21	22		30			41	42		
2	10			21	22		30			41	42		
3		11	20		22			31	40			43	
4		11	20		22			31		41		43	
5		11		21	22		30		40		42		
6	10		20			23		31		41		43	
7	10			21		23	30		40		42		
8	10			21	22			31		41		43	
9		11	20			23	30		40		42		
10	10		20		22		30		40		42		
11		11		21		23		31		41		43	

NOTE: All forces must be cleared before next manual configuration can be selected

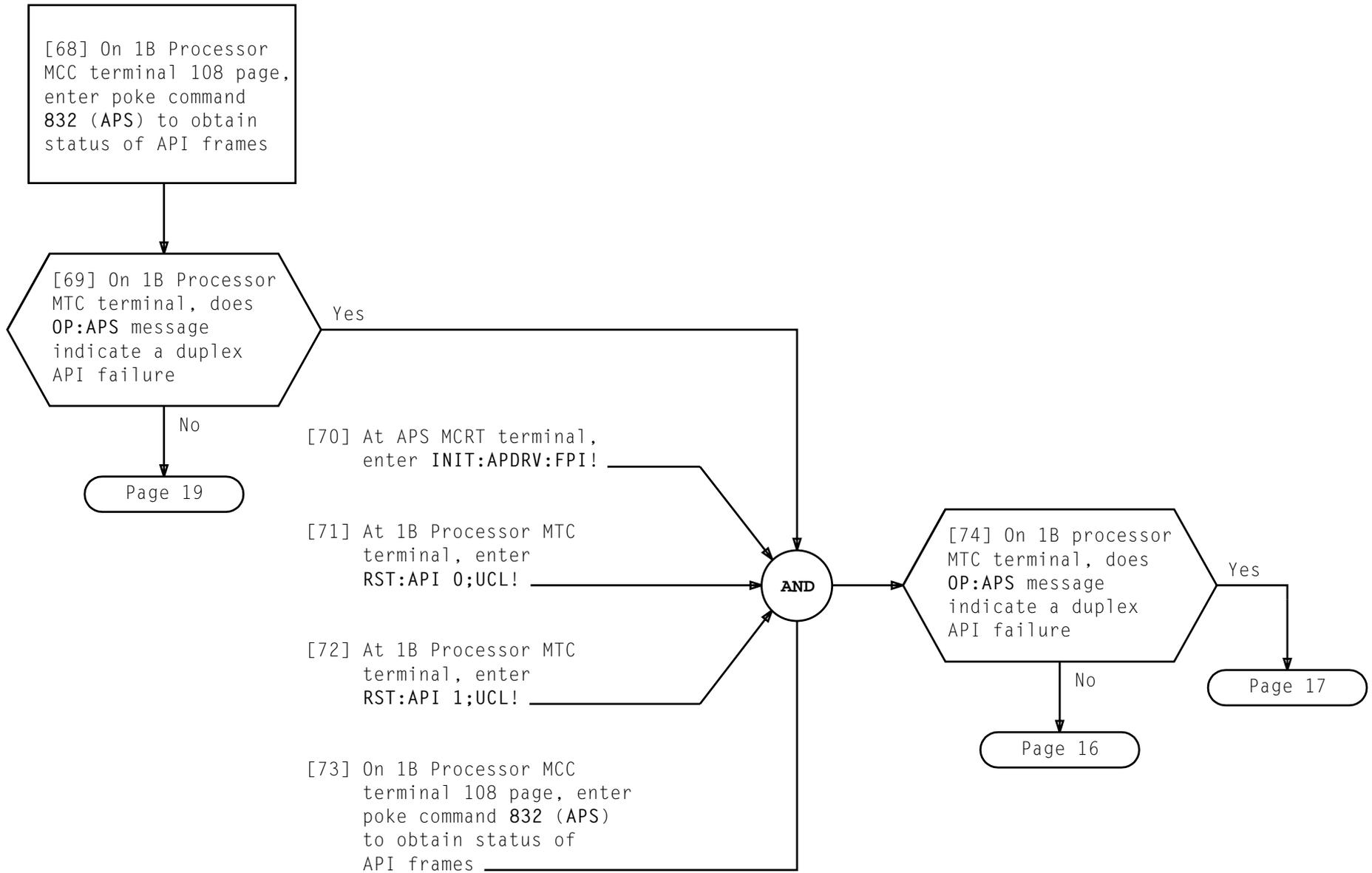
**PERFORM 4ESS SWITCH EMERGENCY RECOVERY TROUBLE ISOLATION/
RECOVERY PROCEDURE**

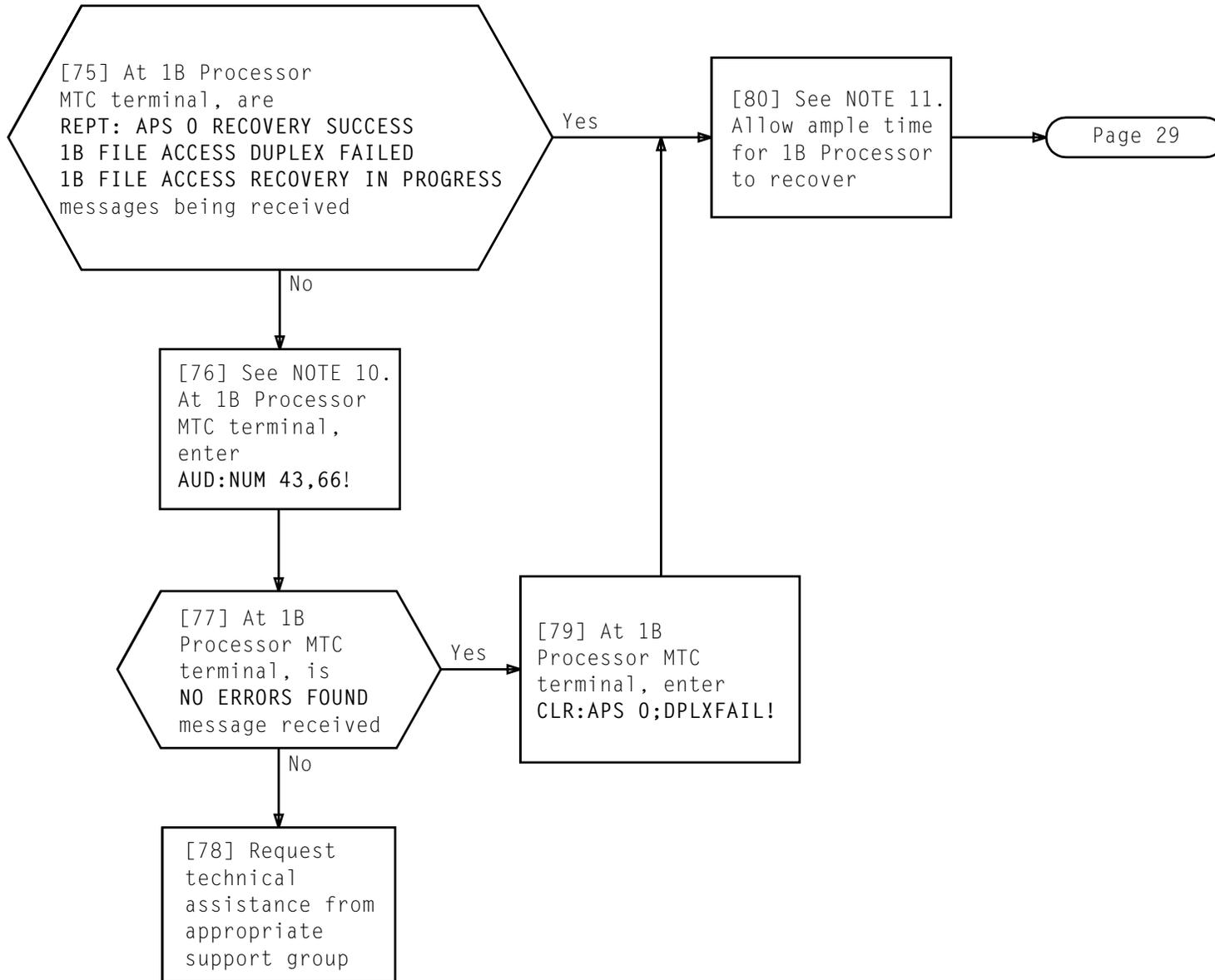




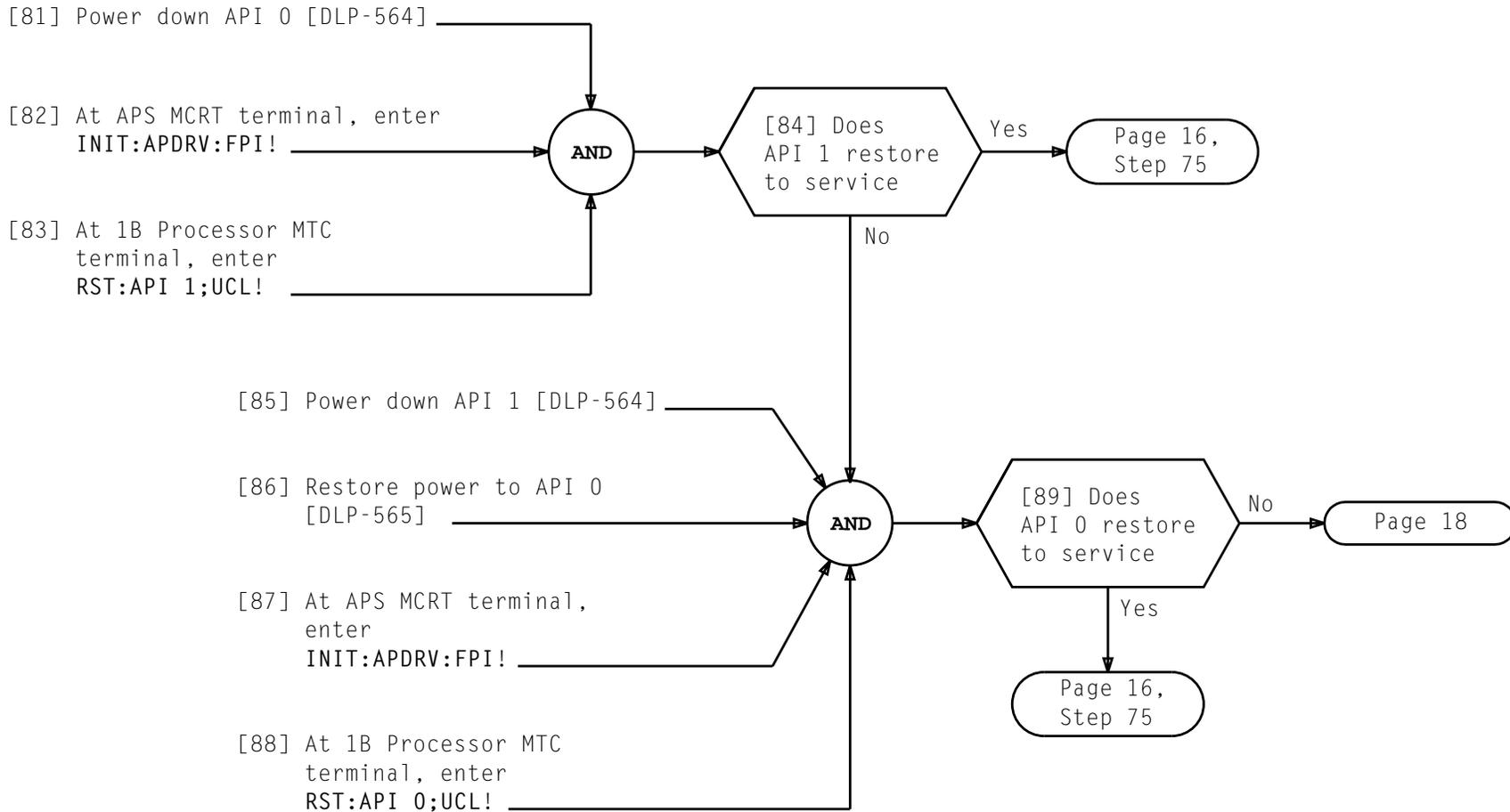
NOTE 10
 System has recovered if following conditions have been met:

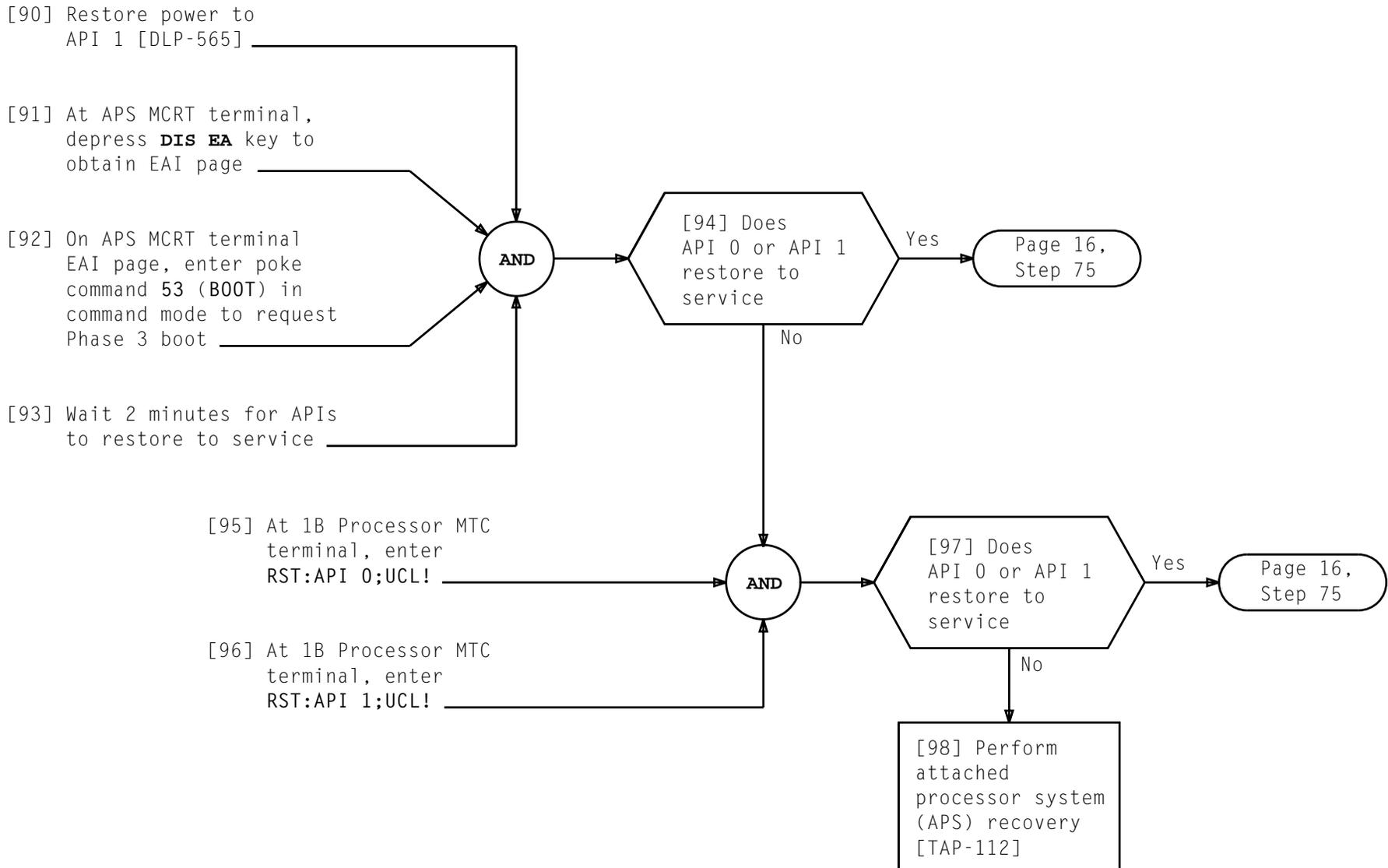
- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)

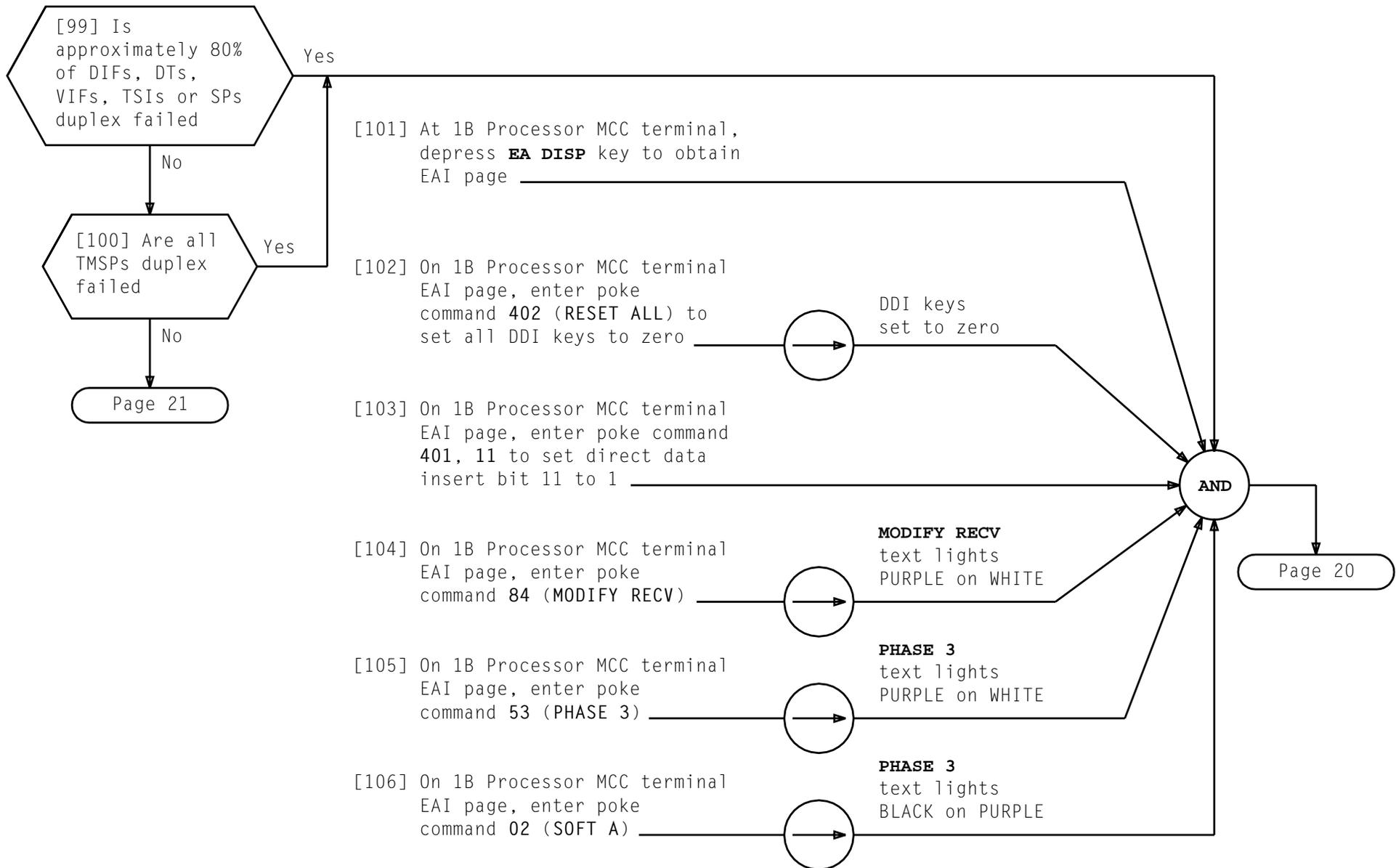


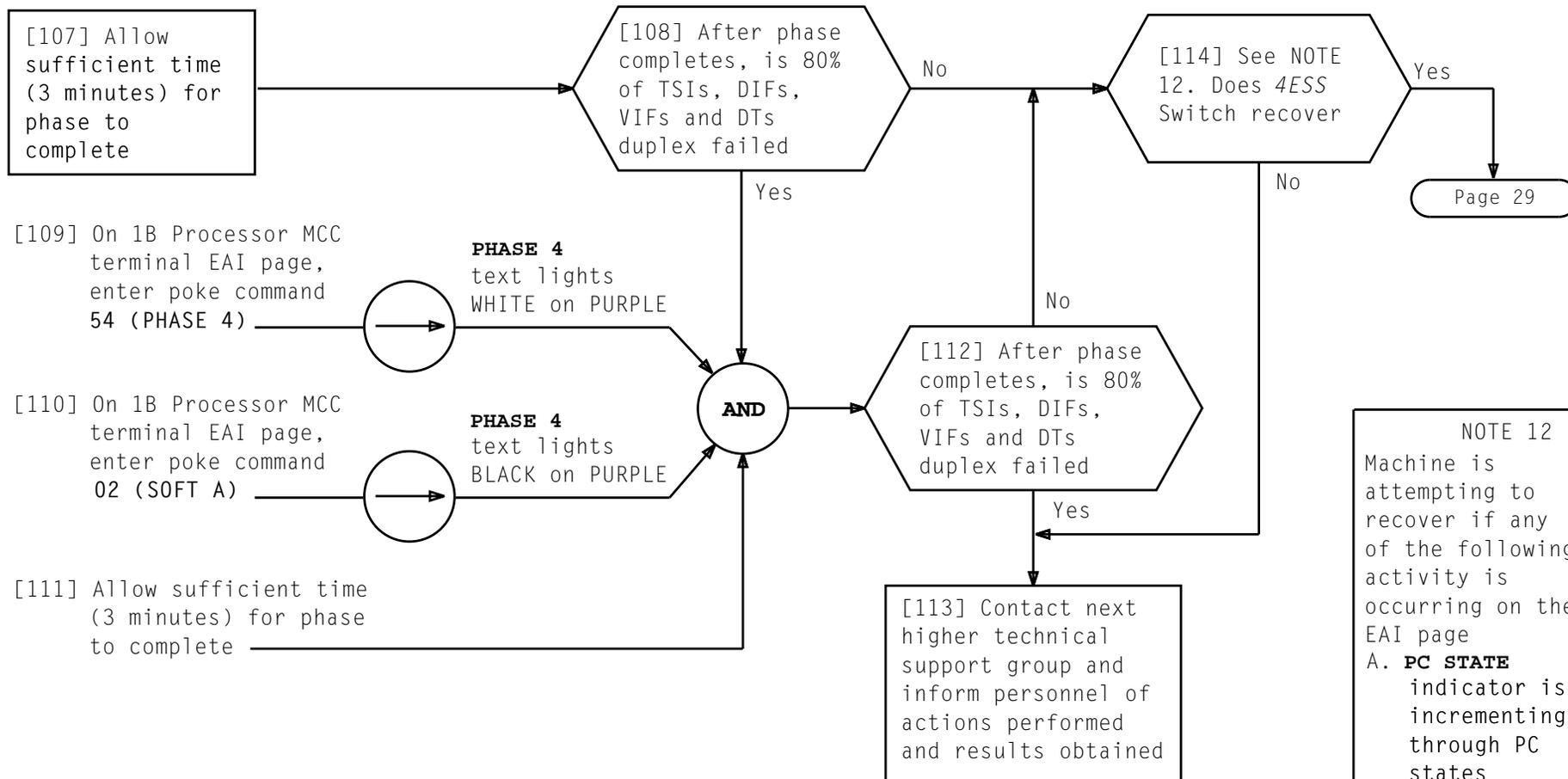


NOTE 11	
It will take up to 45 minutes for system to run applicable audits and respond	
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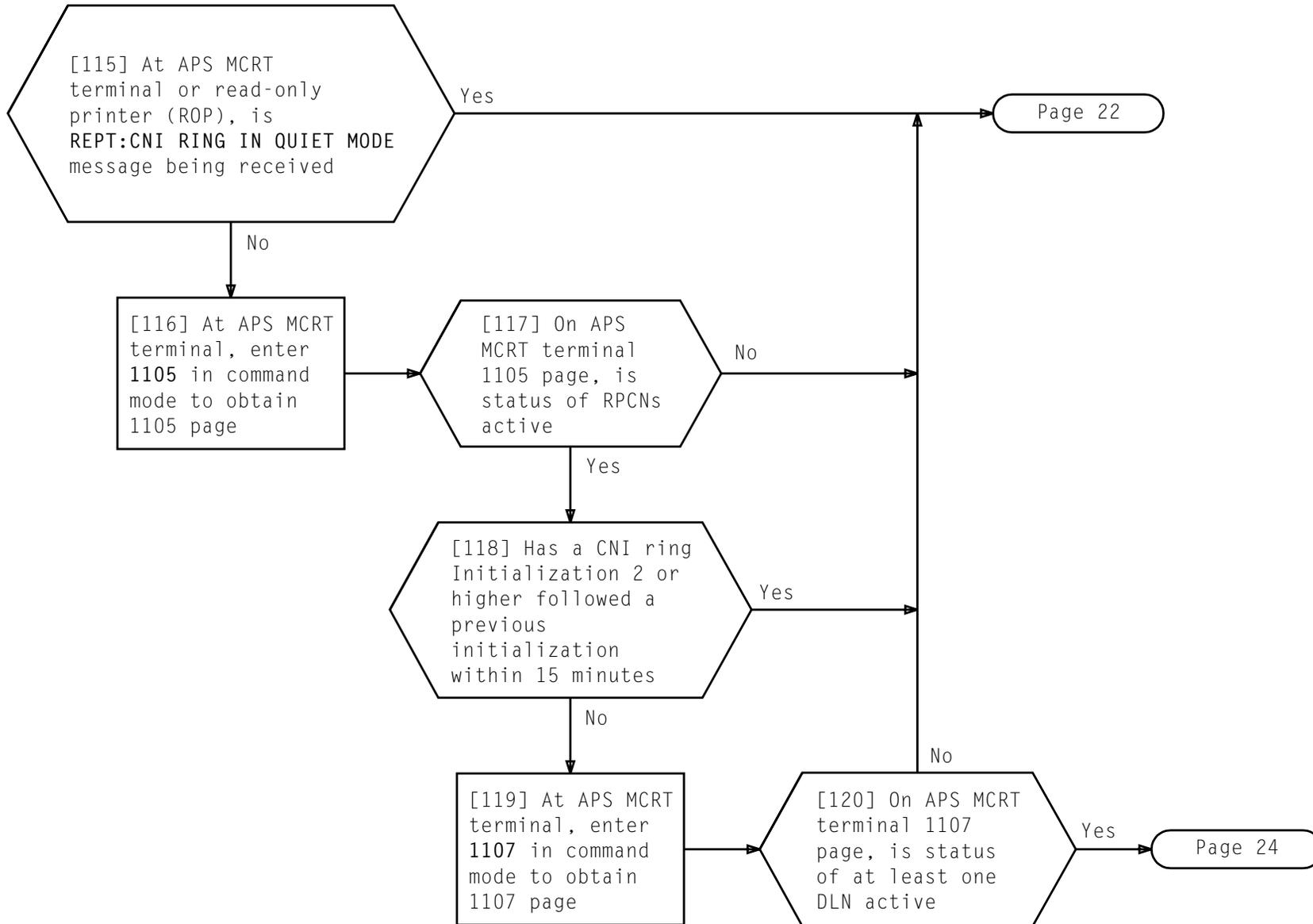




NOTE 12

Machine is attempting to recover if any of the following activity is occurring on the EAI page

- A. **PC STATE** indicator is incrementing through PC states
- B. Progression codes are advancing in **86-CODE** field
- C. **PHASE IN PROG** text is lighted
- D. **PC PROGRESION** **CMPL** text lighted
BLACK on GREEN



[121] At APS MCRT terminal,
depress EA DISP key to
obtain EAI page

[122] On APS MCRT terminal
EAI page, enter poke
command 53 (BOOT) in
command mode

[123] Allow 6 minutes for
CNI ring to recover

[125] On APS MCRT terminal
EAI page, enter poke
command 12 in command
mode to force active
CU on-line

[126] On APS MCRT terminal
EAI page, enter poke
command 20 or 21 in
command mode to force
active disk on-line

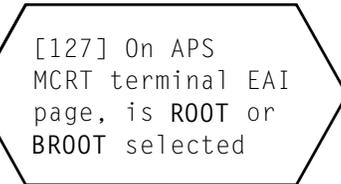


[124] Does CNI ring recover

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No

AND



[127] On APS MCRT terminal EAI page, is ROOT or BROOT selected

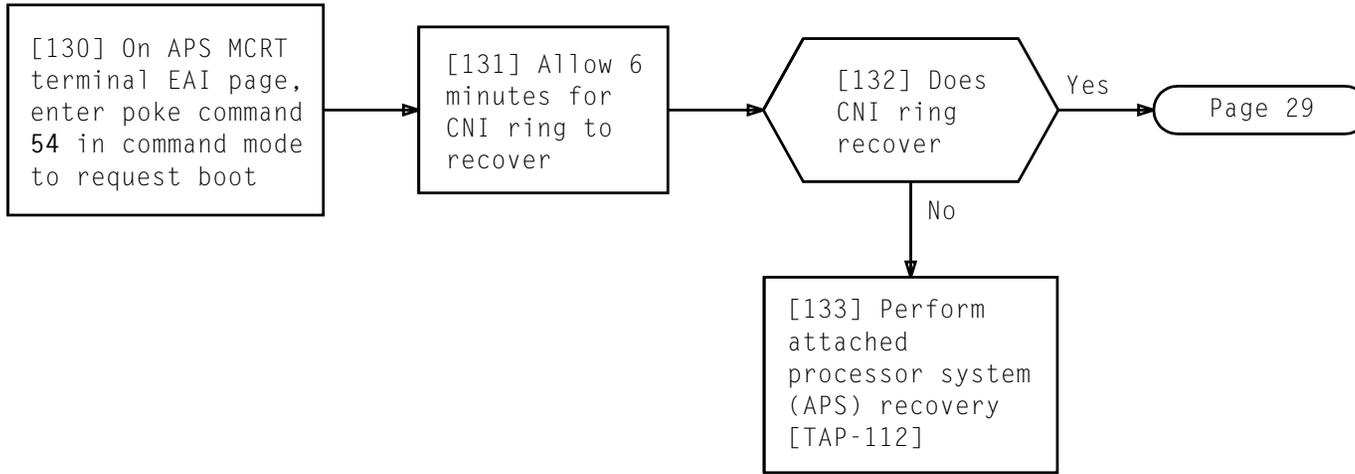
ROOT

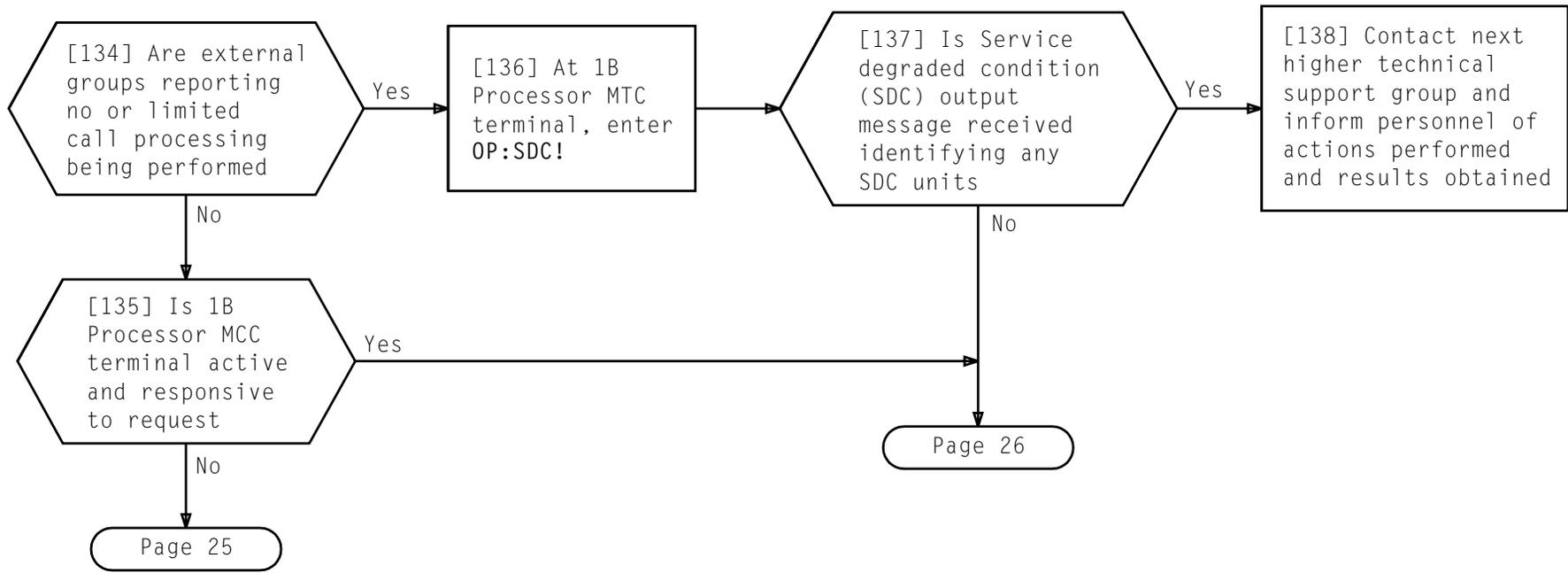
[129] On APS MCRT terminal EAI page, enter poke command 30 in command mode to select broot

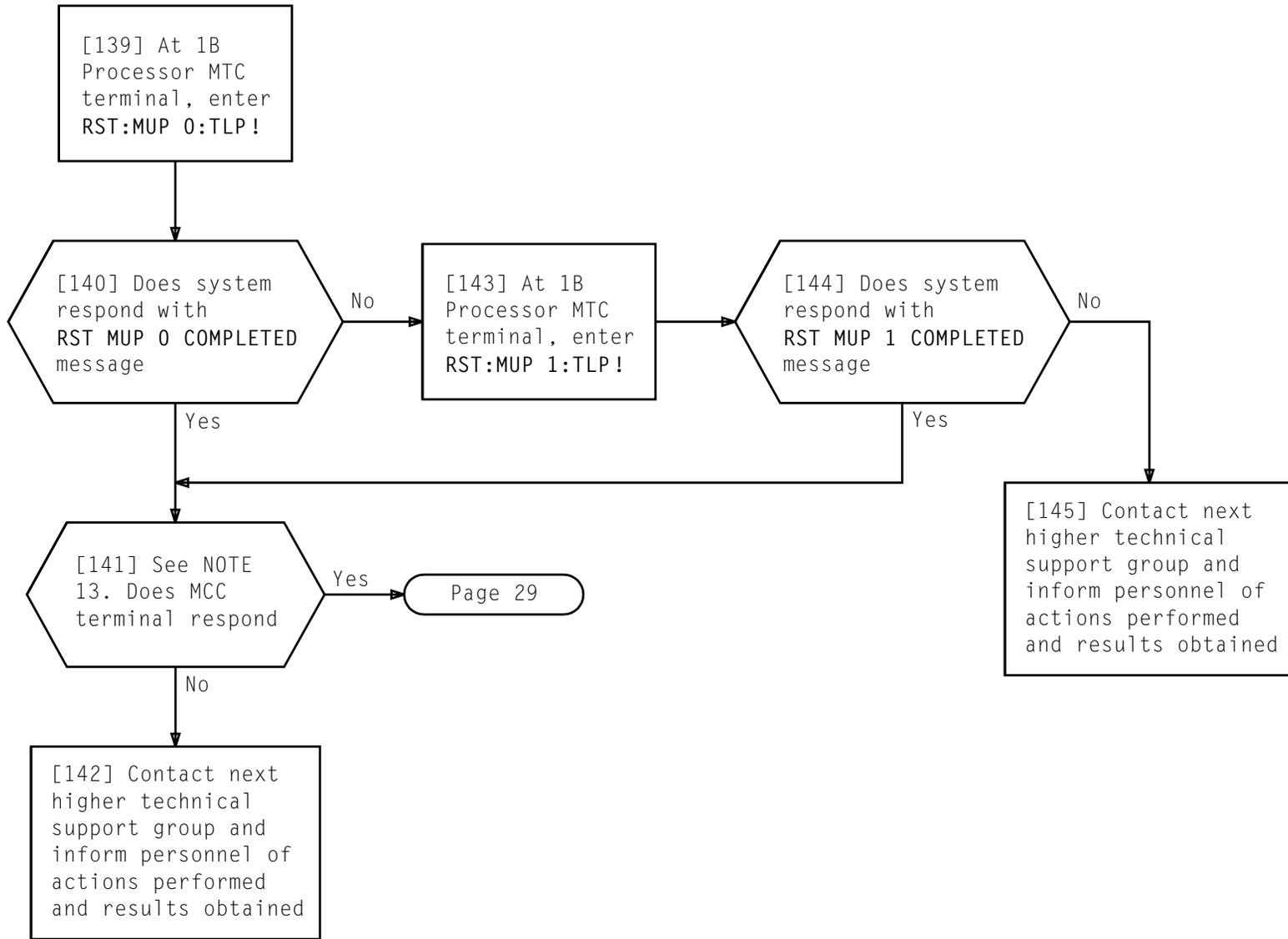
BROOT

[128] On APS MCRT terminal EAI page, enter poke command 31 in command mode to select root

Page 23

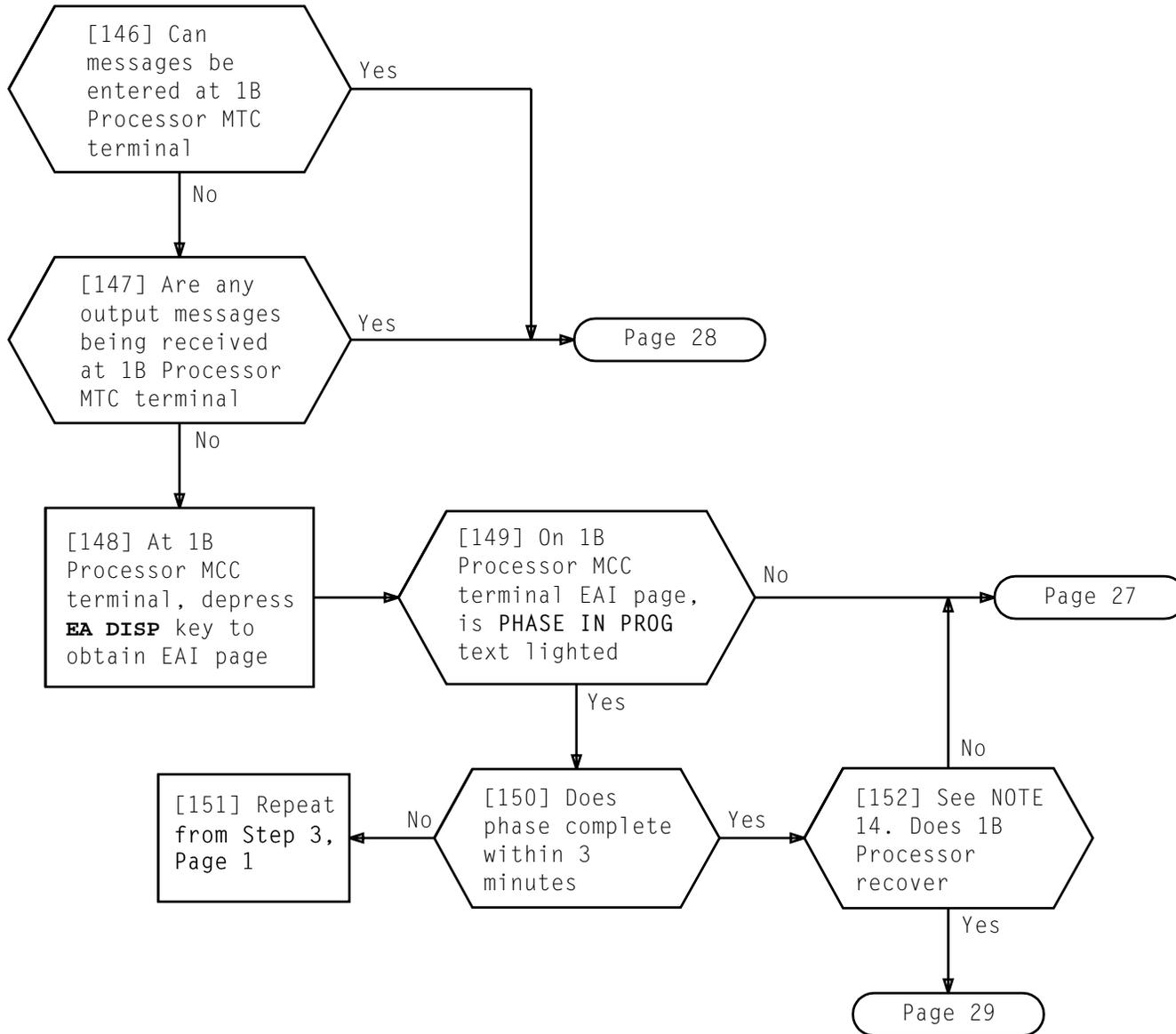






NOTE 13
 System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)



NOTE 14
 System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)

[153] On 1B Processor MCC terminal EAI page, enter poke command 84 (MODIFY RECV) to clear function

[154] On 1B Processor MCC terminal EAI page, enter poke command 83 (RESTORE I/O)

[155] On 1B Processor MCC terminal EAI page, enter poke command 02 (SOFT A)

[156] Allow sufficient time (2 seconds) for input/output (I/O) to restore

RESTORE I/O text lights PURPLE on WHITE

AND

[157] Does I/O restore

[159] See NOTE 15. Does 1B Processor recover

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

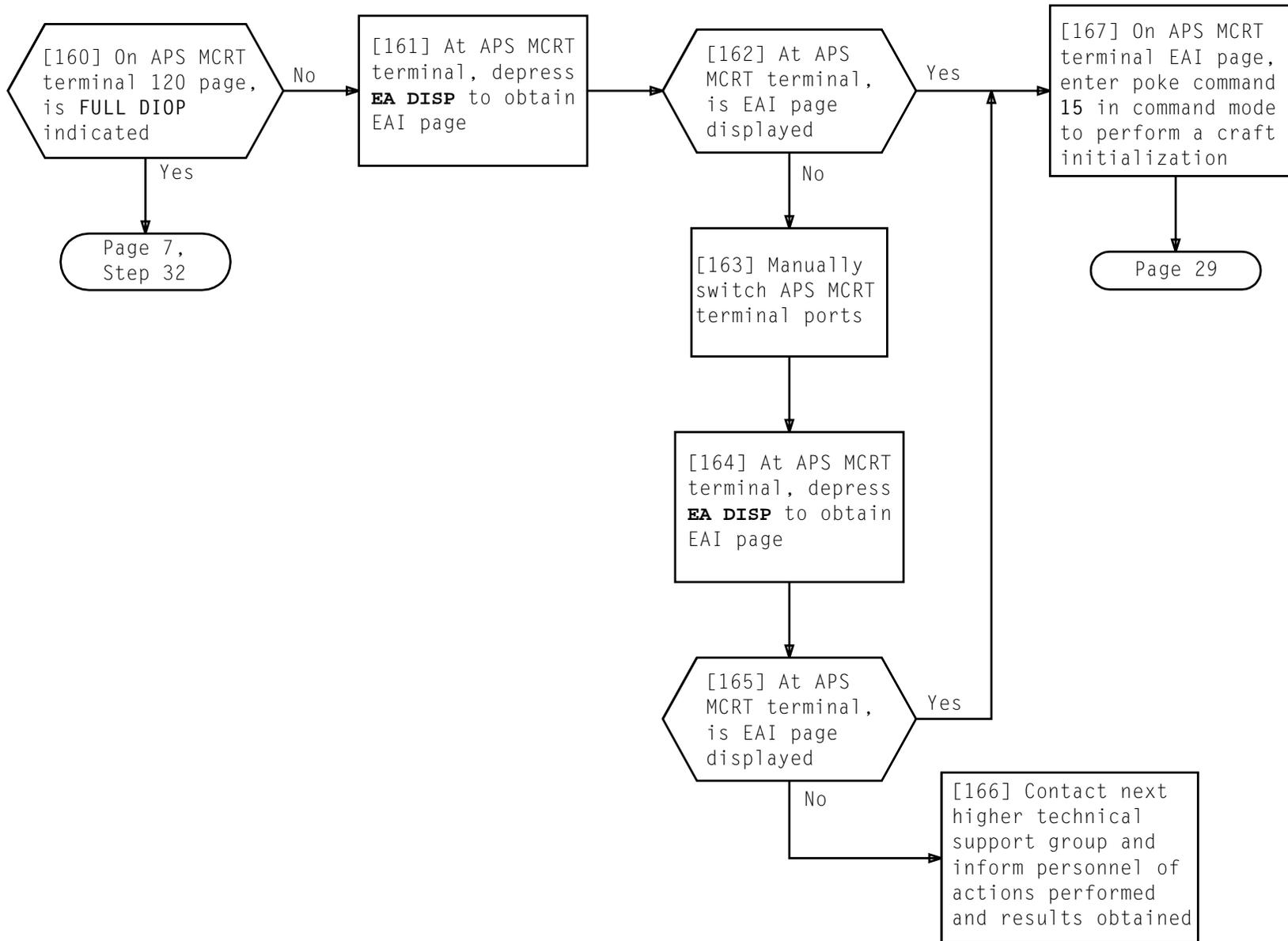
Page 29

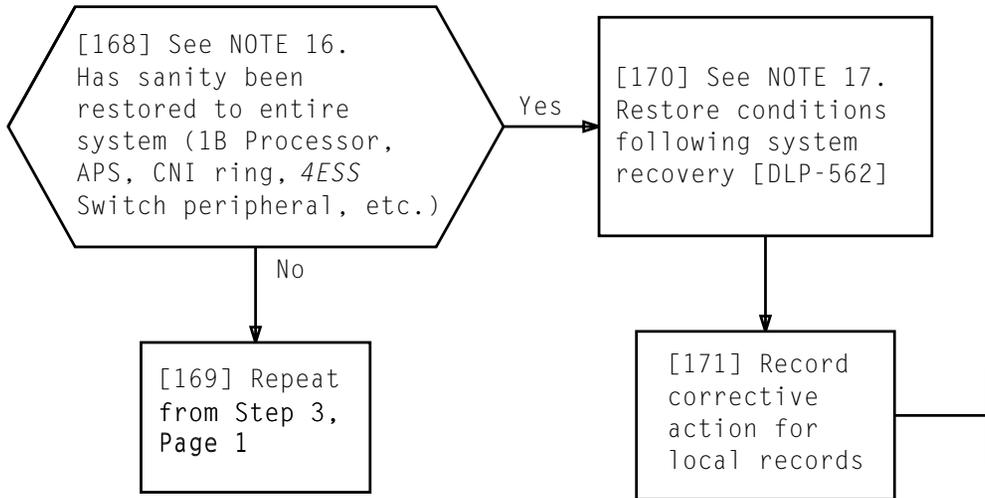
NOTE 15
System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)

PERFORM 4ESS SWITCH EMERGENCY RECOVERY TROUBLE ISOLATION/RECOVERY PROCEDURE

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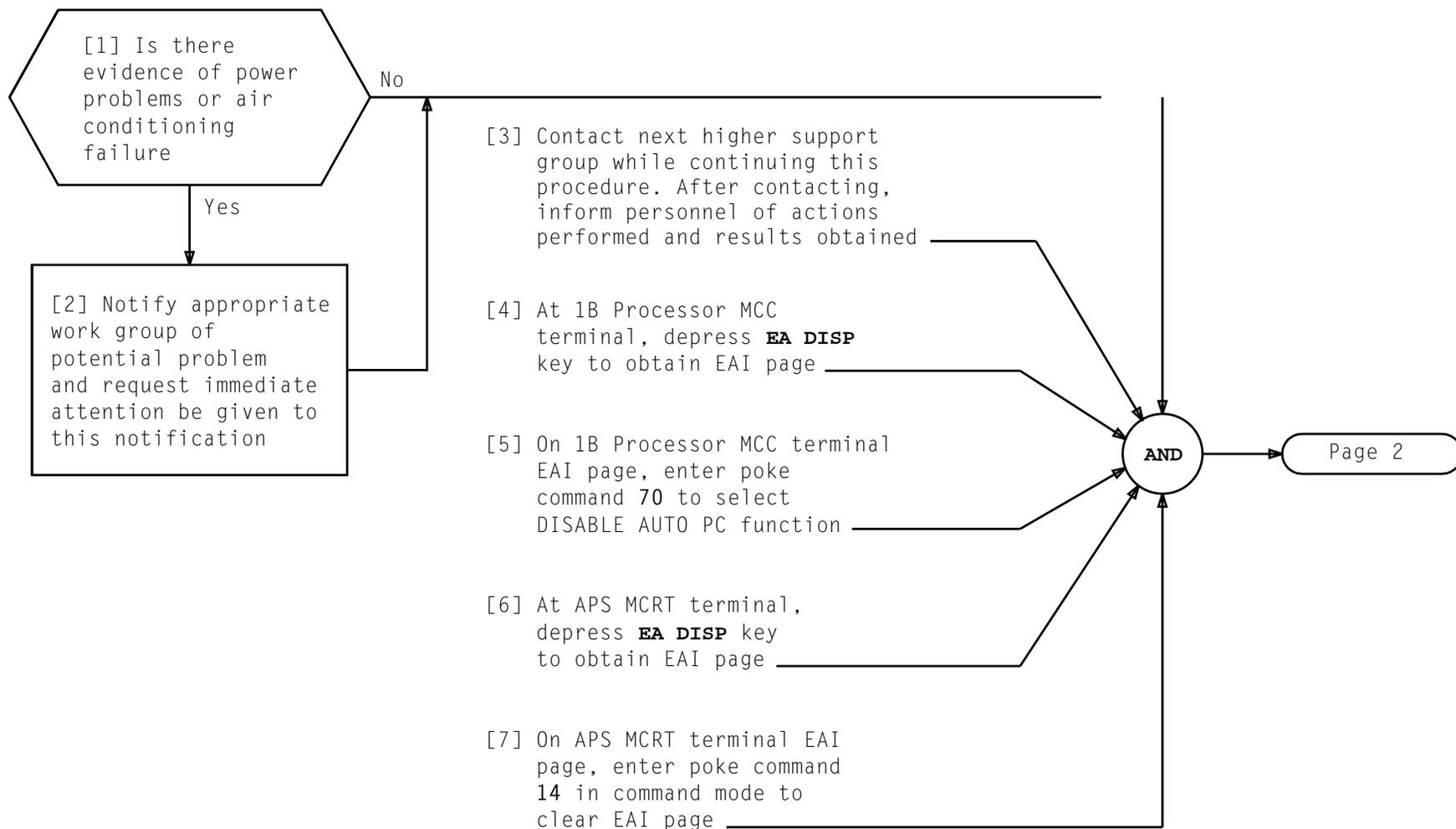


NOTES

16. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)

17. Contact technical support group and determine safe time when system is stable and seems to be operating properly before restoring conditions following system recovery



[8] Select first manual configuration [TABLE A]

[9] On APS MCRT terminal EAI page, enter poke commands in command mode as listed (left to right) for selected manual configuration [TABLE A]

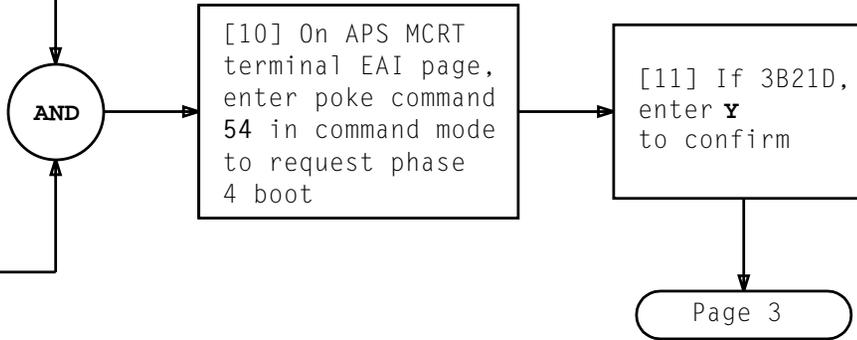
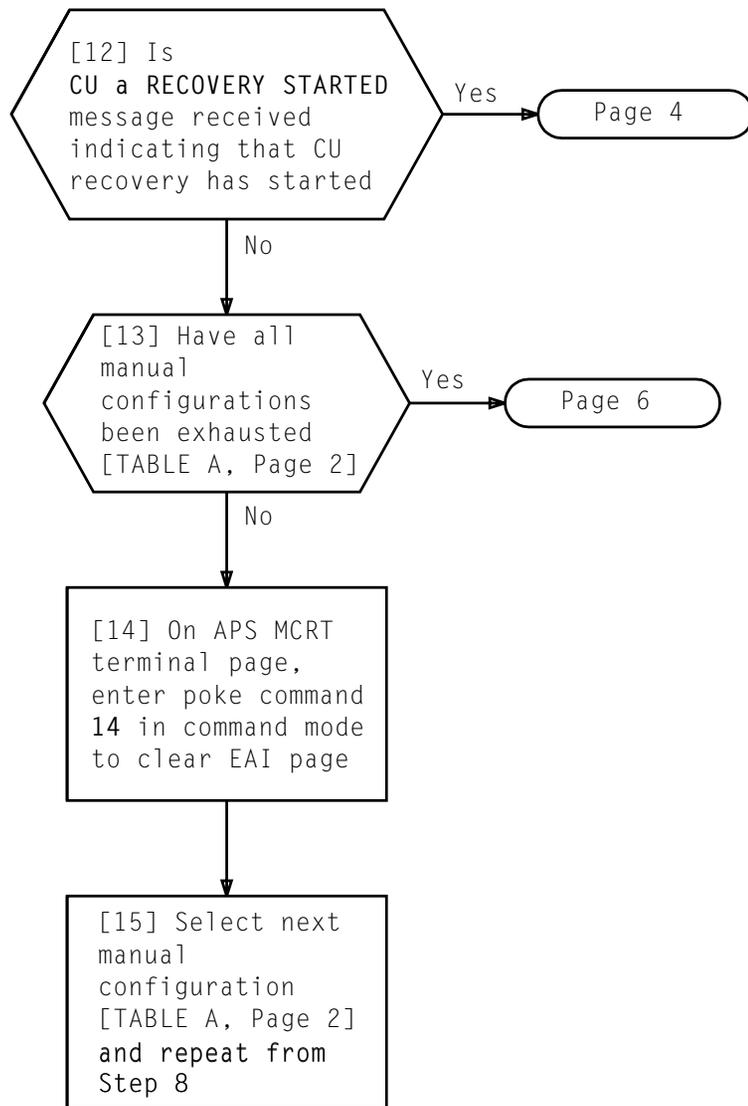


TABLE A ATTACHED PROCESSOR SYSTEM MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS									
MANUAL CONFIG SEQUENCE	OVERRIDE CONTROL SELECTIONS								IF 3B21D, CONFIRM [Y/N]
	ROOT	BROOT	FULL	MIN	PRIMARY DISK	SECONDARY DISK	CU0	CU1	
1		30	33		20		10		Y
2		30	33		20			11	Y
3	31		33			22	10		Y
4	31		33			22		11	Y



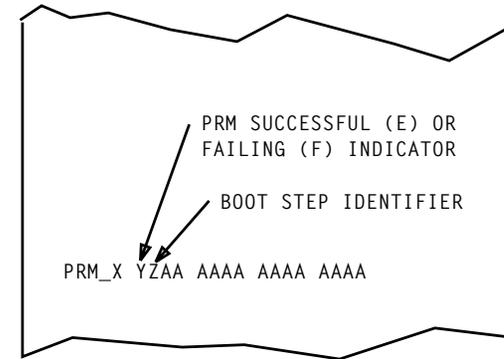
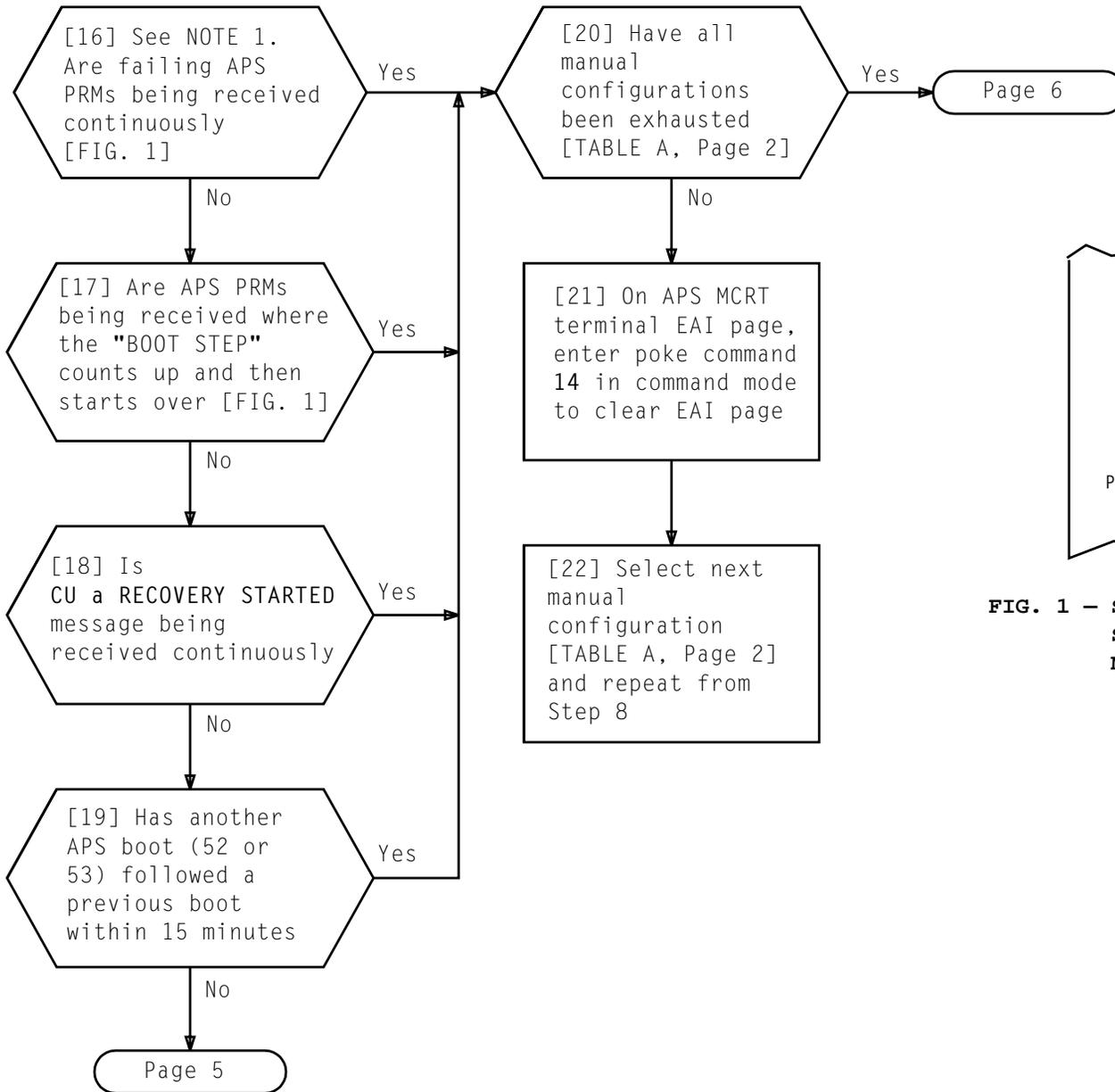
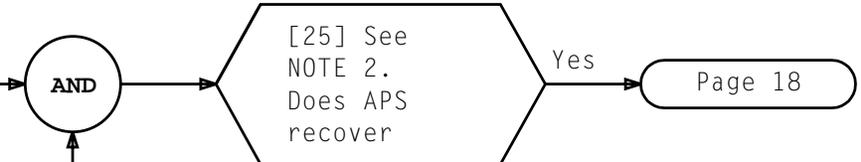


FIG. 1 - Sample Layout of Attached Processor System (APS) Processor Recovery Message (PRM)

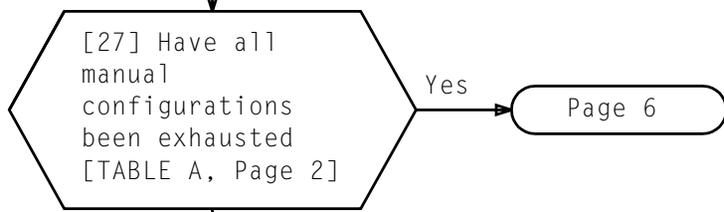
NOTE 1	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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[23] On 1B Processor MCC terminal EAI page, enter poke command 70 to clear DISABLE AUTO PC function

[24] Allow ample time (5 minutes) for APS to recover



[26] On 1B Processor MCC terminal EAI page, enter poke command 70 to select DISABLE AUTO PC function



[28] On APS MCRT terminal EAI page, enter poke command 14 in command mode to clear EAI page

[29] Select next manual configuration [TABLE A, Page 2] and repeat from Step 8

NOTE 2
 System has recovered if following conditions have been met:
 A. On APS MCRT terminal, SYS EMER INDICATOR is not lighted
 B. On 1B Processor MCC terminal, PROCESSOR CONFIG COMPLETED indicator is lighted
 C. PRMs are not being received continuously

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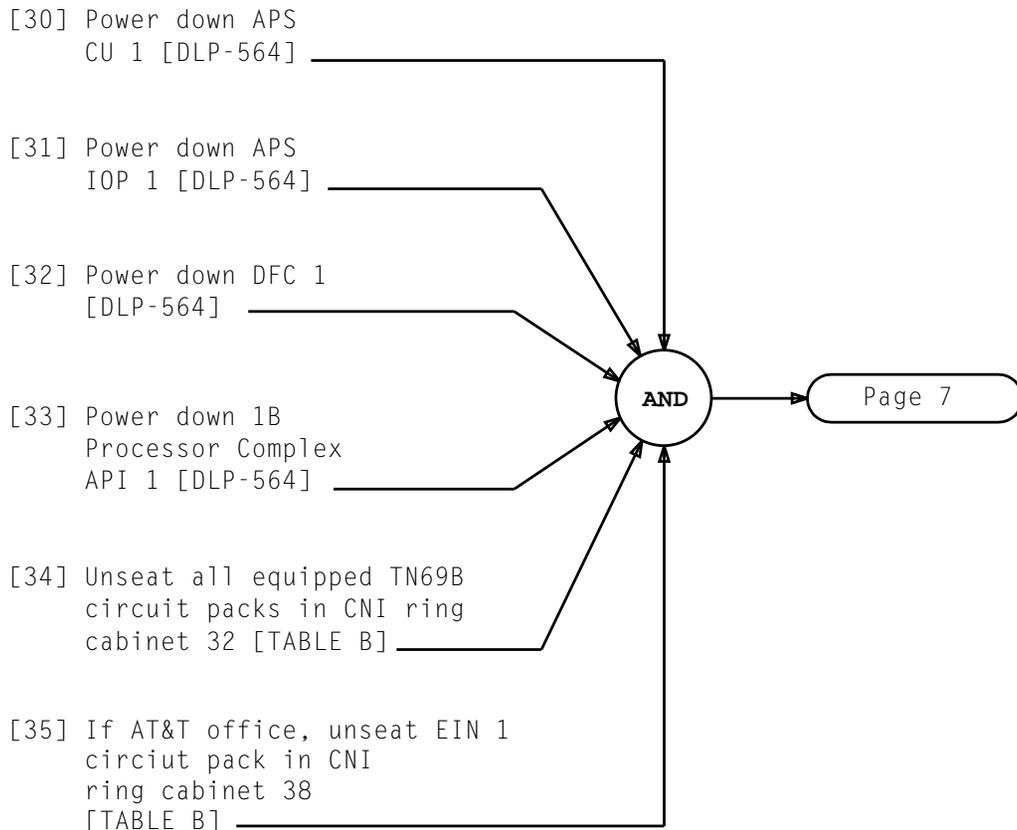


TABLE B TN69B CIRCUIT PACK LOCATIONS IN CNI RING CABINET 32 (NOTE)	
TN69B	– 19-086
TN69B	– 28-086 or 37-086
TN69B	– 45-086 or 53-086
EIN1*	45-118 or 37-118 (cabinet 06 or 38)
NOTE: Not all five TN69B circuit packs will be equipped in all CNI ring cabinets * AT&T office only	

[36] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[37] On APS MCRT terminal EAI page,
enter poke command 14 in command
mode to clear EAI page

[38] Select first manual
configuration [TABLE C]

[39] On APS MCRT terminal EAI page, enter
poke commands in command mode as
listed (left to right) for selected
manual configuration [TABLE C]

[40] On APS MCRT terminal EAI page,
enter poke command 54 in command
mode to request phase 4 boot

[41] If 3B21D, enter **Y** to confirm

AND

[42] Is
CU a RECOVERY STARTED
message received
indicating that CU
recovery has started

Yes

Page 8

No

[43] Have all
manual
configurations
been exhausted
[TABLE C]

Yes

Page 10

No

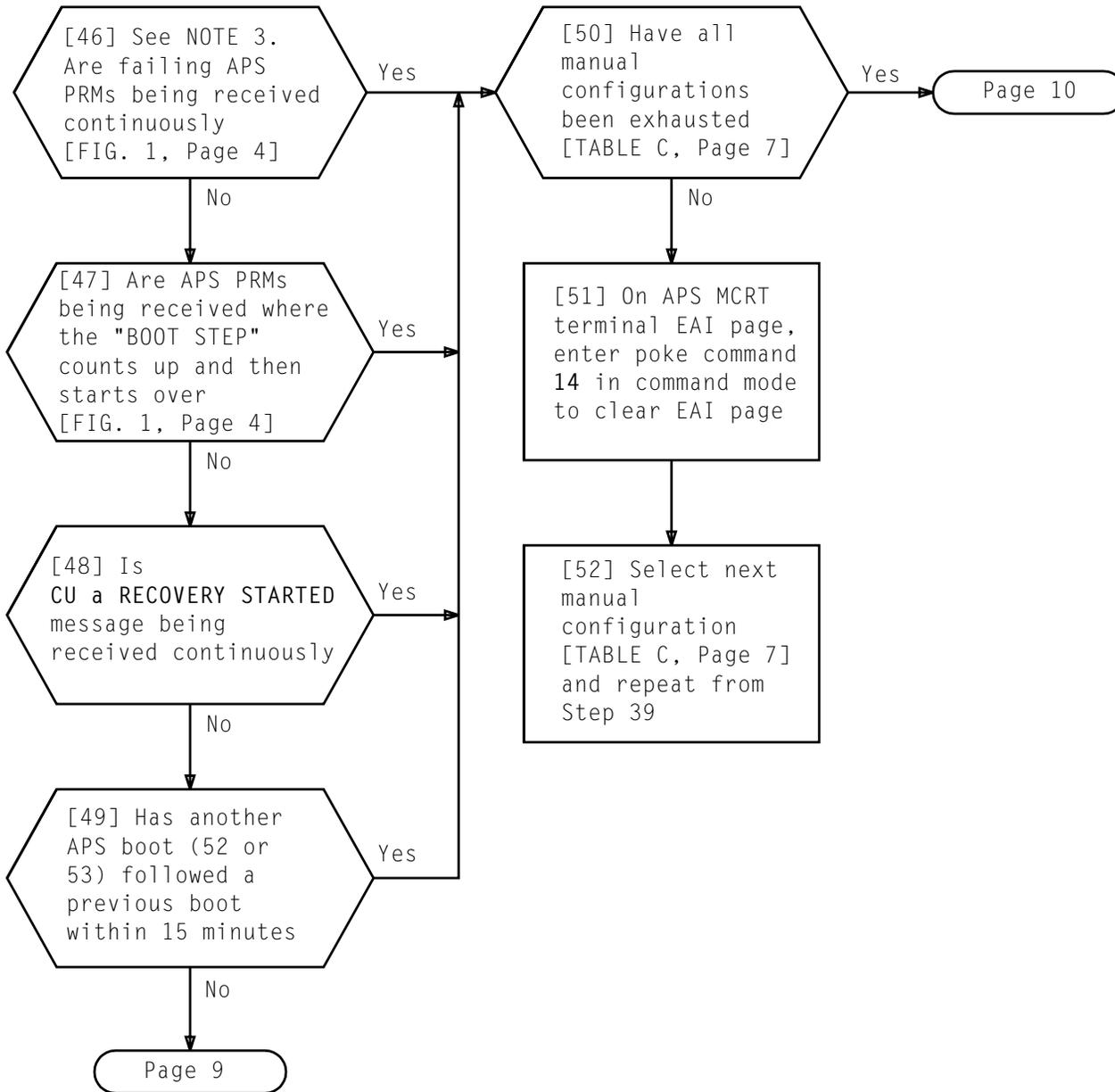
[44] On APS MCRT
terminal page,
enter poke command
14 in command mode
to clear EAI page

[45] Select next
manual
configuration
[TABLE C] and
repeat from Step 39

TABLE C

**ATTACHED PROCESSOR SYSTEM MANUAL CONFIGURATIONS
AND ASSOCIATED POKE COMMANDS**

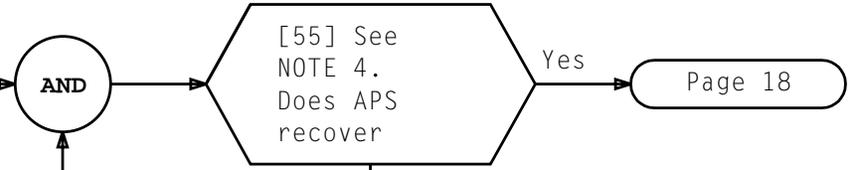
MANUAL CONFIG SEQUENCE	OVERRIDE CONTROL SELECTIONS								IF 3B21D, CONFIRM [Y/N]
	ROOT	BROOT	FULL	MIN	PRIMARY DISK	SECONDARY DISK	CU0	CU1	
1	31		33		20		10		Y
2	31		33			22	10		Y
3		30	33			22	10		Y
4		30	33		20		10		Y



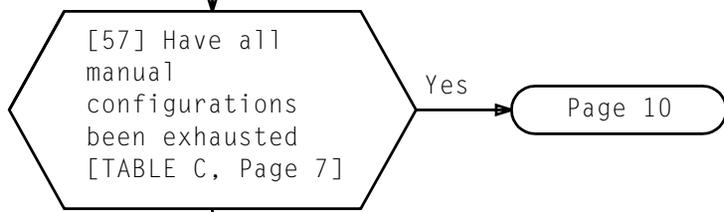
NOTE 3	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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[53] On 1B Processor MCC terminal EAI page, enter poke command 70 to clear DISABLE AUTO PC function

[54] Allow ample time (5 minutes) for APS to recover



[56] On 1B Processor MCC terminal EAI page, enter poke command 70 to select DISABLE AUTO PC function



[58] On APS MCRT terminal EAI page, enter poke command 14 in command mode to clear EAI page

[59] Select next manual configuration [TABLE C, Page 7] and repeat from Step 39

NOTE 4
 System has recovered if following conditions have been met:
 A. On APS MCRT terminal, SYS EMER INDICATOR is not lighted
 B. On 1B Processor MCC terminal, PROCESSOR CONFIG COMPLETED indicator is lighted
 C. PRMs are not being received continuously

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- [60] Power down APS
CU 0 [DLP-564]
- [61] Power down APS
IOP 0 [DLP-564]
- [62] Power down DFC 0
[DLP-564]
- [63] Power down 1B
Processor Complex
API 0 [DLP-564]
- [64] Unseat all equipped TN69B
circuit packs in CNI ring
cabinet 0 [TABLE D]
- [65] If AT&T office, unseat EIN 0
circuit pack in CNI
ring cabinet 6
[TABLE D]



- [66] Restore power to APS
CU 1 [DLP-565]
- [67] Restore power to APS
IOP 1 [DLP-565]
- [68] Restore power to DFC 1
[DLP-565]
- [69] Restore power to 1B
Processor Complex
API 1 [DLP-565]
- [70] Seat all equipped TN69B
circuit packs previously
unseated in CNI ring
cabinet 32 [TABLE D]
- [71] If AT&T office, seat EIN 1
circuit pack in CNI
ring cabinet 38
[TABLE B, Page 6]



TABLE D TN69B CIRCUIT PACK LOCATIONS IN CNI RING CABINET 0 (NOTE)
TN69B - 19-086
TN69B - 28-086 or 37-086
TN69B - 45-086 or 53-086
EIN 0* 45-118 or 37-118 (cabinet 06 or 38)
NOTE: Not all five TN69B circuit packs will be equipped in all CNI ring cabinets * AT&T office only

Page 11

[72] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[73] On APS MCRT terminal EAI page,
enter poke command 14 in command
mode to clear EAI page

[74] Select first manual
configuration [TABLE E]

[75] On APS MCRT terminal EAI page, enter
poke commands in command mode as
listed (left to right) for selected
manual configuration [TABLE E]

[76] On APS MCRT terminal EAI page,
enter poke command 54 in command
mode to request phase 4 boot

[77] If 3B21D, enter **Y** to confirm

AND

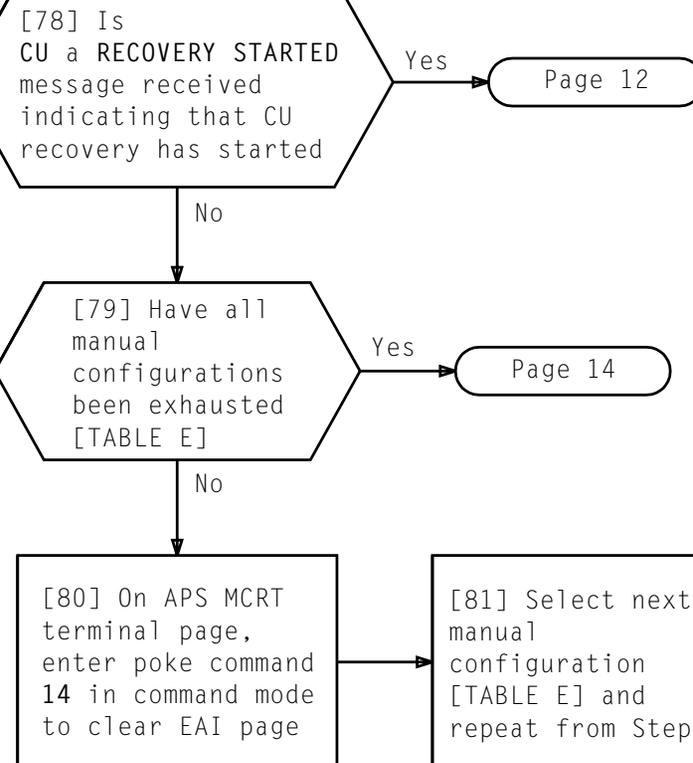
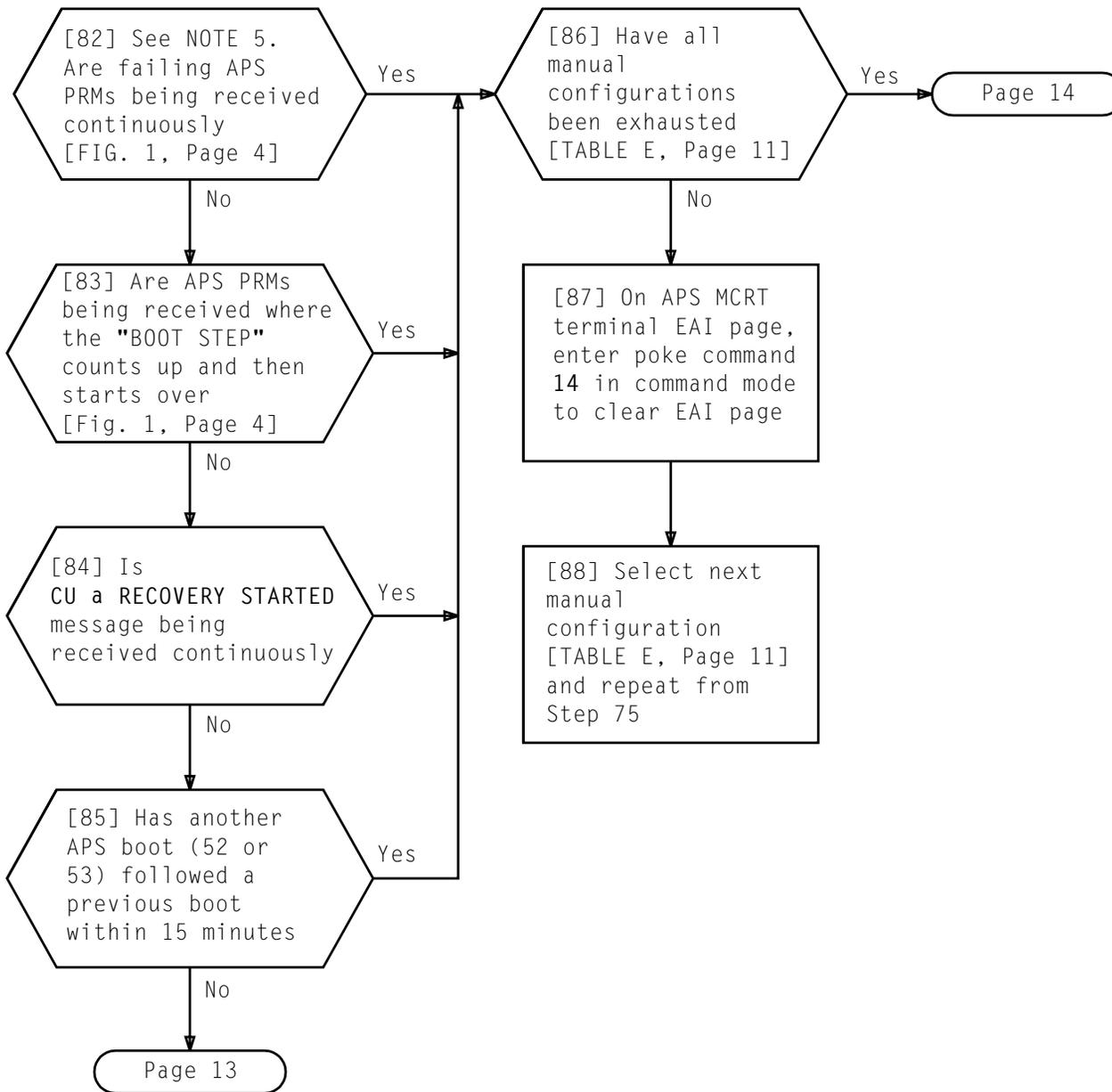


TABLE E ATTACHED PROCESSOR SYSTEM MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS									
MANUAL CONFIG SEQUENCE	OVERRIDE CONTROL SELECTIONS								IF 3B21D, CONFIRM [Y/N]
	ROOT	BROOT	FULL	MIN	PRIMARY DISK	SECONDARY DISK	CU0	CU1	
1	31		33		20			11	Y
2	31		33			22		11	Y
3		30	33			22		11	Y
4		30	33		20			11	Y

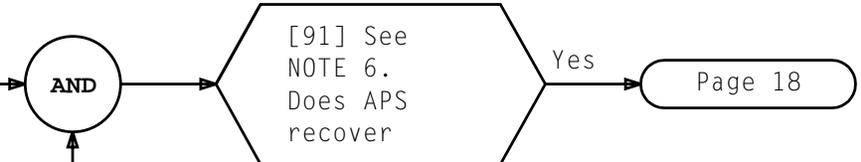


NOTE 5
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy

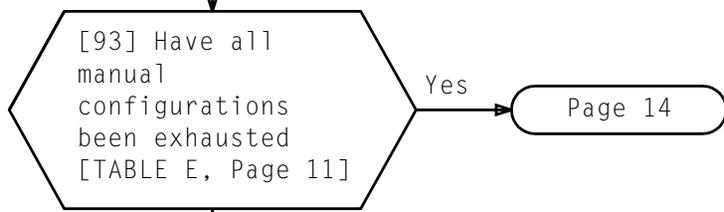
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[89] On 1B Processor MCC terminal EAI page, enter poke command 70 to clear DISABLE AUTO PC function

[90] Allow ample time (5 minutes) for APS to recover



[92] On 1B Processor MCC terminal EAI page, enter poke command 70 to select DISABLE AUTO PC function



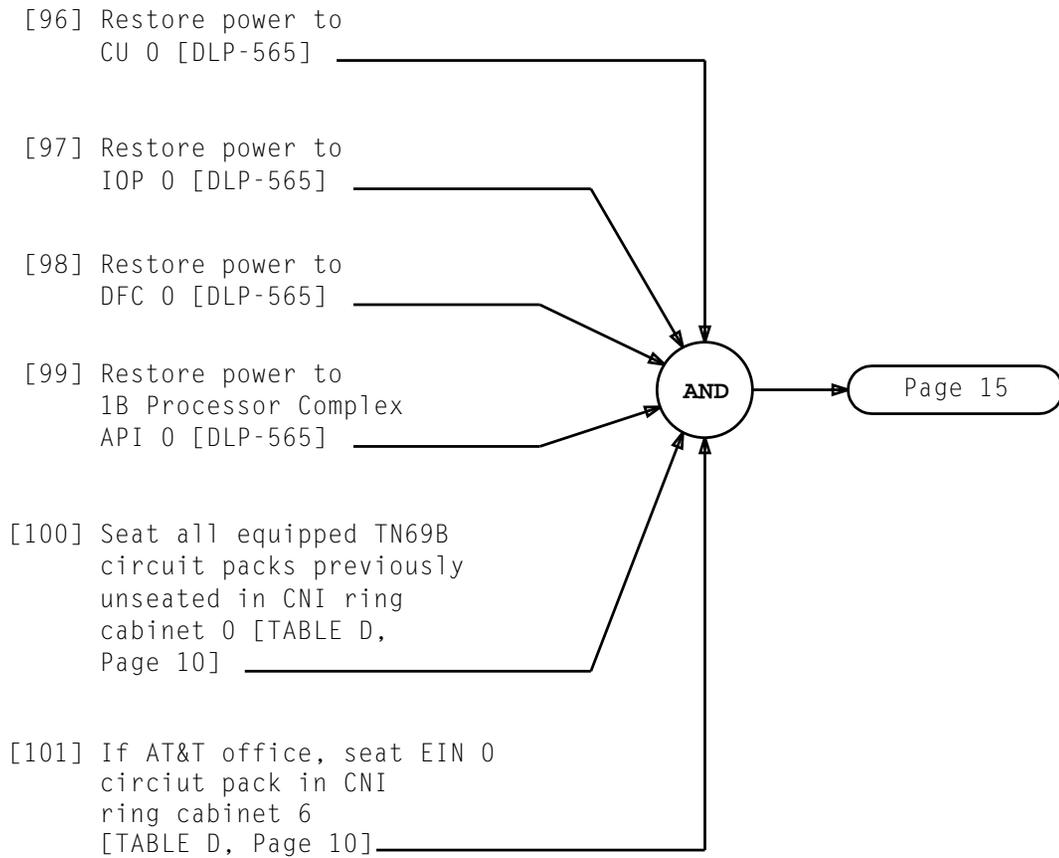
[94] On APS MCRT terminal EAI page, enter poke command 14 in command mode to clear EAI page

[95] Select next manual configuration [TABLE E, Page 11] and repeat from Step 75

NOTE 6
 System has recovered if following conditions have been met:
 A. On APS MCRT terminal, SYS EMER INDICATOR is not lighted
 B. On 1B Processor MCC terminal, PROCESSOR CONFIG COMPLETED indicator is lighted
 C. PRMs are not being received continuously

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PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY



[102] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[103] On APS MCRT terminal EAI page,
enter poke command 14 in command
mode to clear EAI page

[104] Select first manual
configuration [TABLE F]

[105] On APS MCRT terminal EAI page, enter
poke commands in command mode as
listed (left to right) for selected
manual configuration [TABLE F]

[106] On APS MCRT terminal EAI page,
enter poke command 54 in command
mode to request phase 4 boot

[107] If 3B21D, enter **Y** to confirm

AND

[108] Is
CU a RECOVERY STARTED
message received
indicating that CU
recovery has started

Yes

Page 16

No

[109] Have all
manual
configurations
been exhausted
[TABLE F]

Yes

[110] Recover
attached Processor
system (APS) by
performing system
reinitialization
(SR) [TAP-110]

No

[111] On APS MCRT
terminal page,
enter poke command
14 in command mode
to clear EAI page

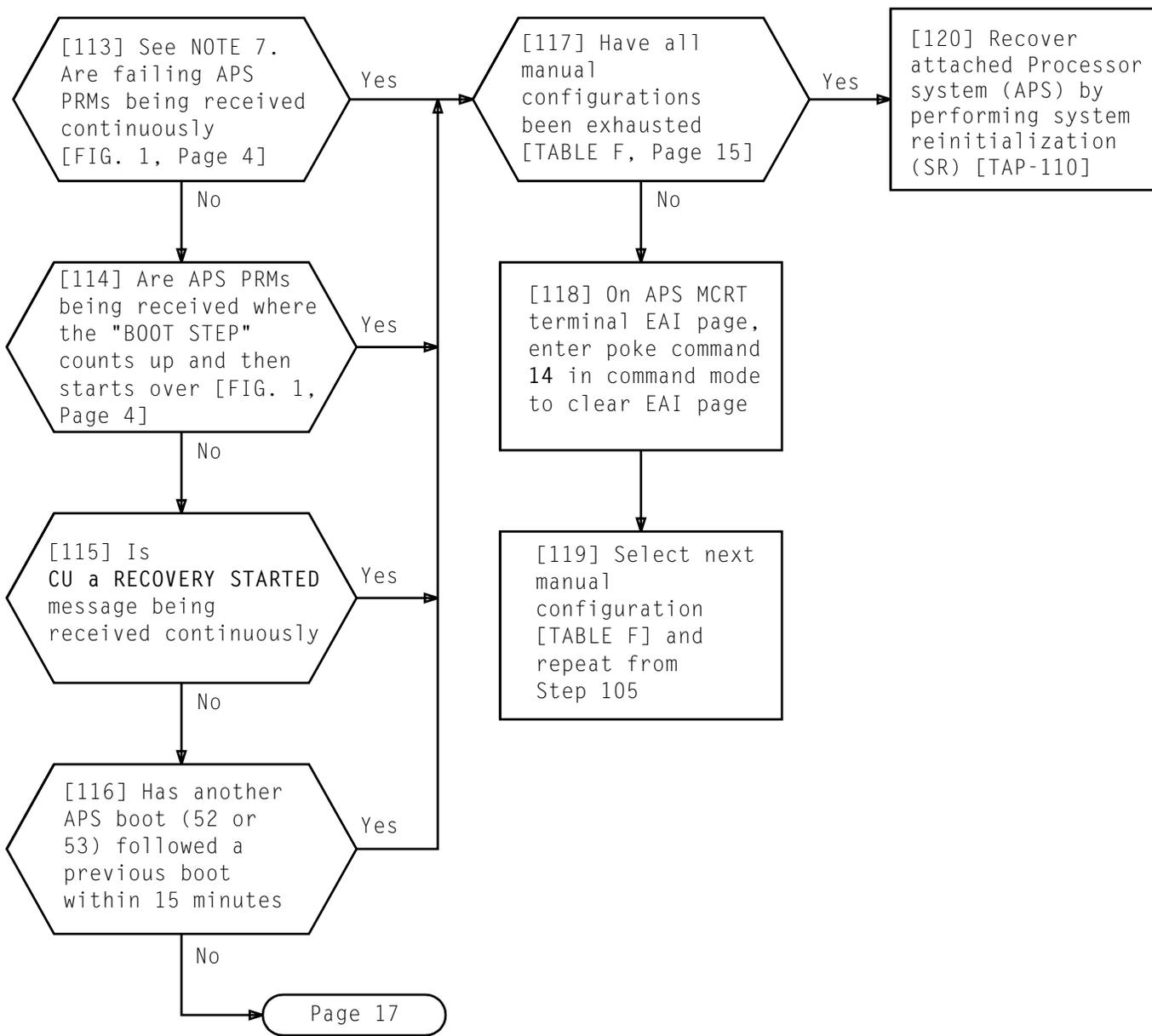
[112] Select next
manual
configuration
[TABLE F] and
repeat from Step 105

TABLE F

**ATTACHED PROCESSOR SYSTEM MANUAL CONFIGURATIONS
AND ASSOCIATED POKE COMMANDS**

OVERRIDE CONTROL SELECTIONS

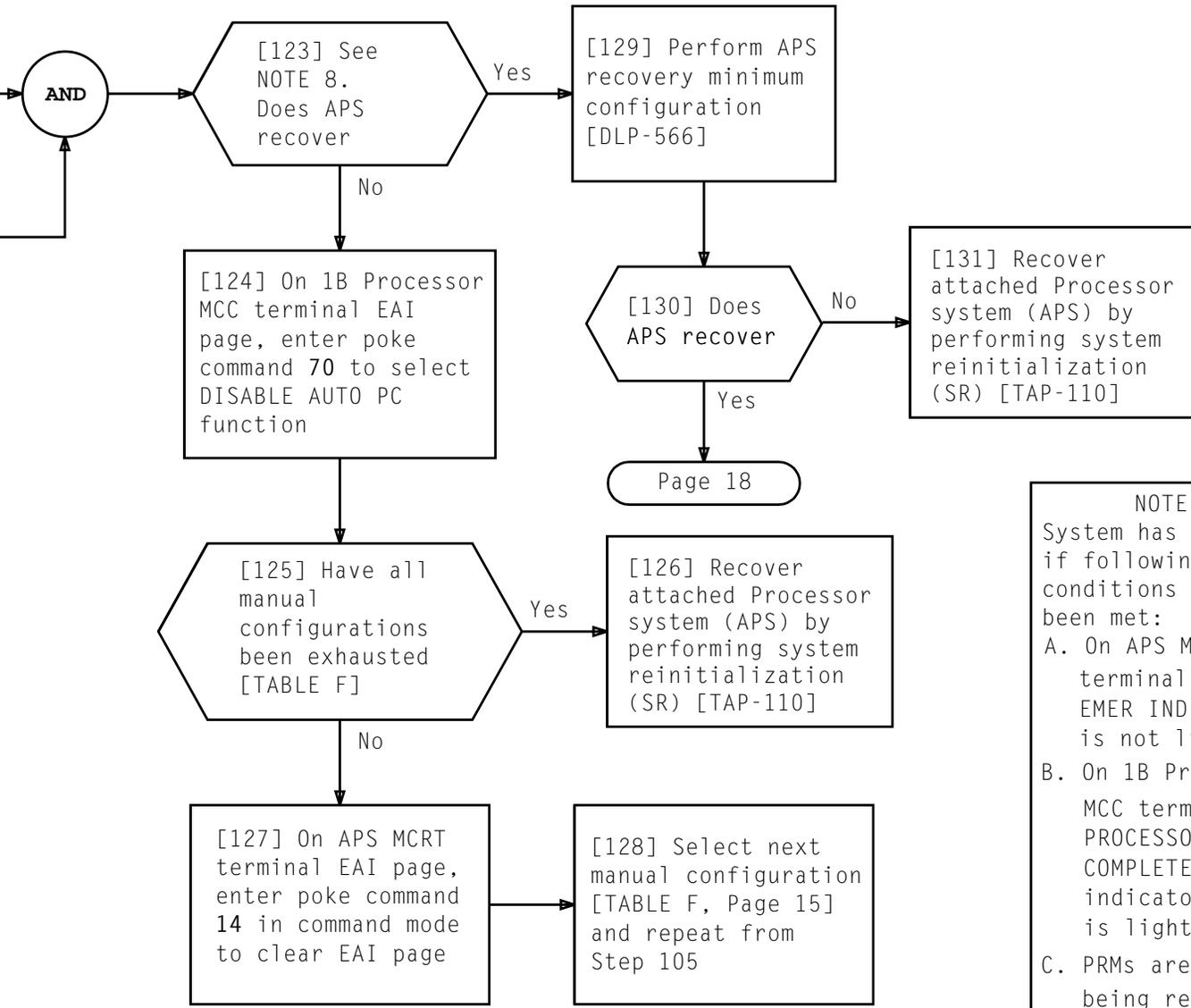
MANUAL CONFIG SEQUENCE	ROOT	BROOT	FULL	MIN	PRIMARY DISK	SECONDARY DISK	CU0	CU1	IF 3B21D, CONFIRM [Y/N]
1	31			32	20		10		Y
2		30		32	20			11	Y



NOTE 7	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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[121] On 1B Processor MCC terminal EAI page, enter poke command 70 to clear DISABLE AUTO PC function

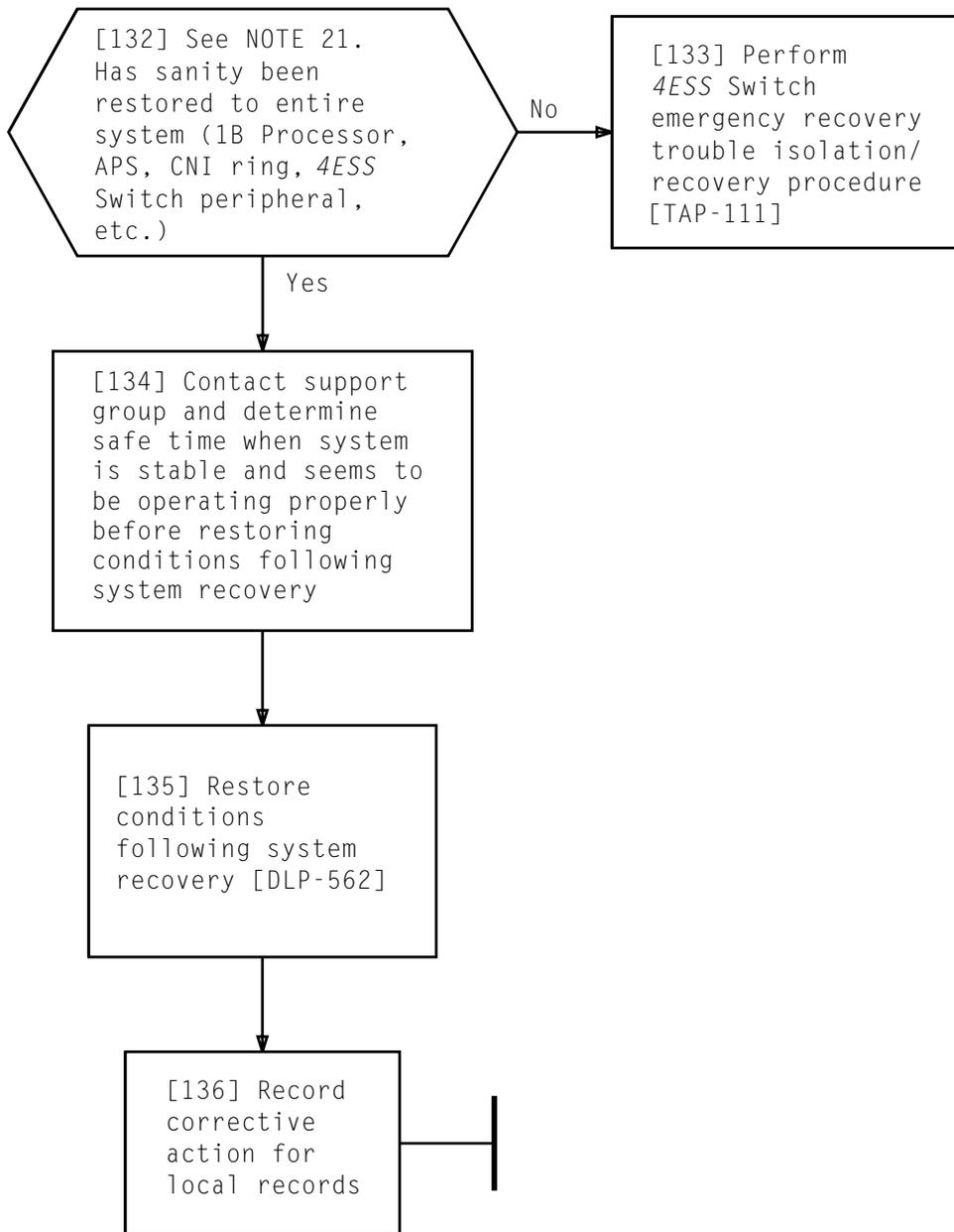
[122] Allow ample time (5 minutes) for APS to recover



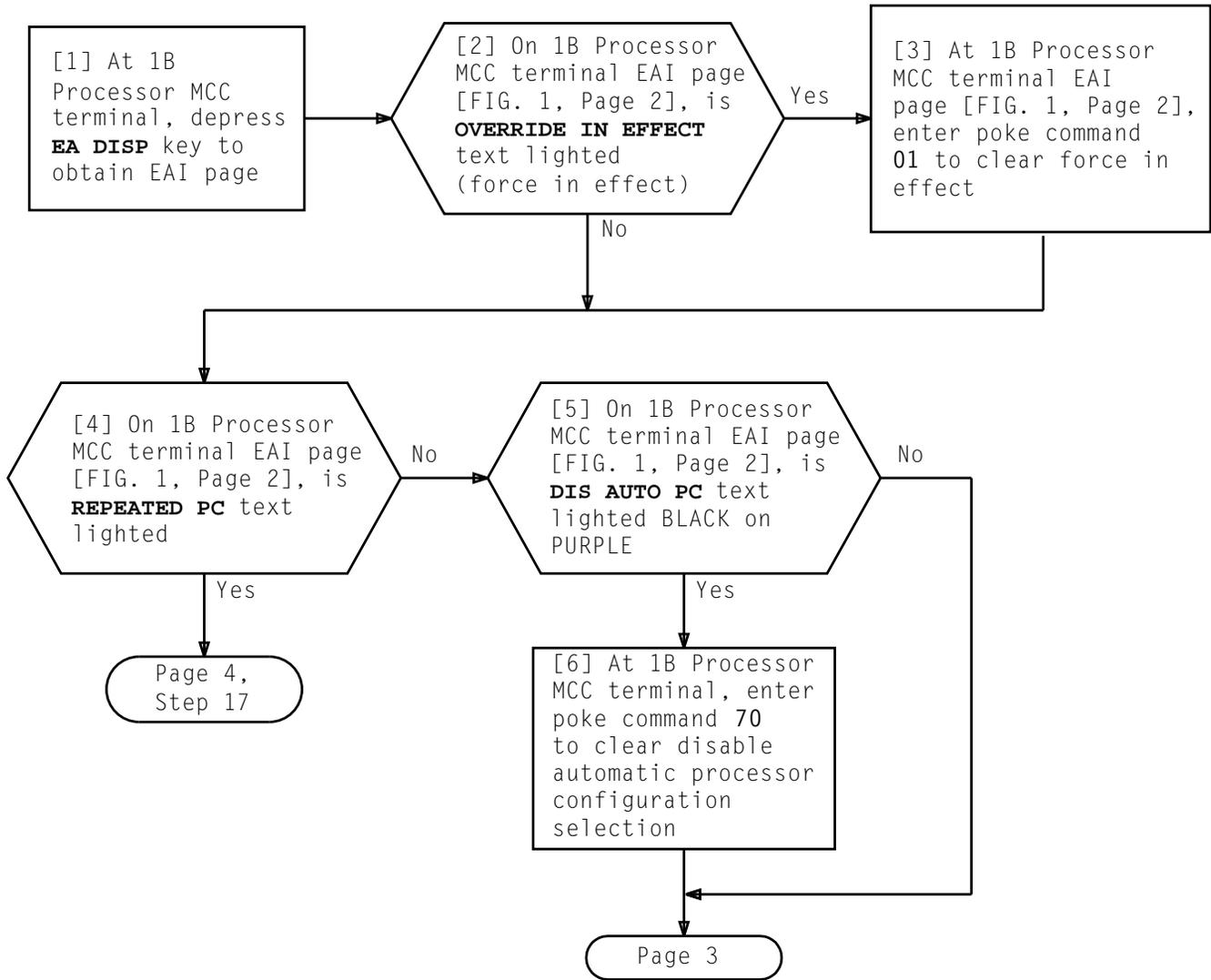
NOTE 8
 System has recovered if following conditions have been met:
 A. On APS MCRT terminal, SYS EMER INDICATOR is not lighted
 B. On 1B Processor MCC terminal, PROCESSOR CONFIG COMPLETED indicator is lighted
 C. PRMs are not being received continuously

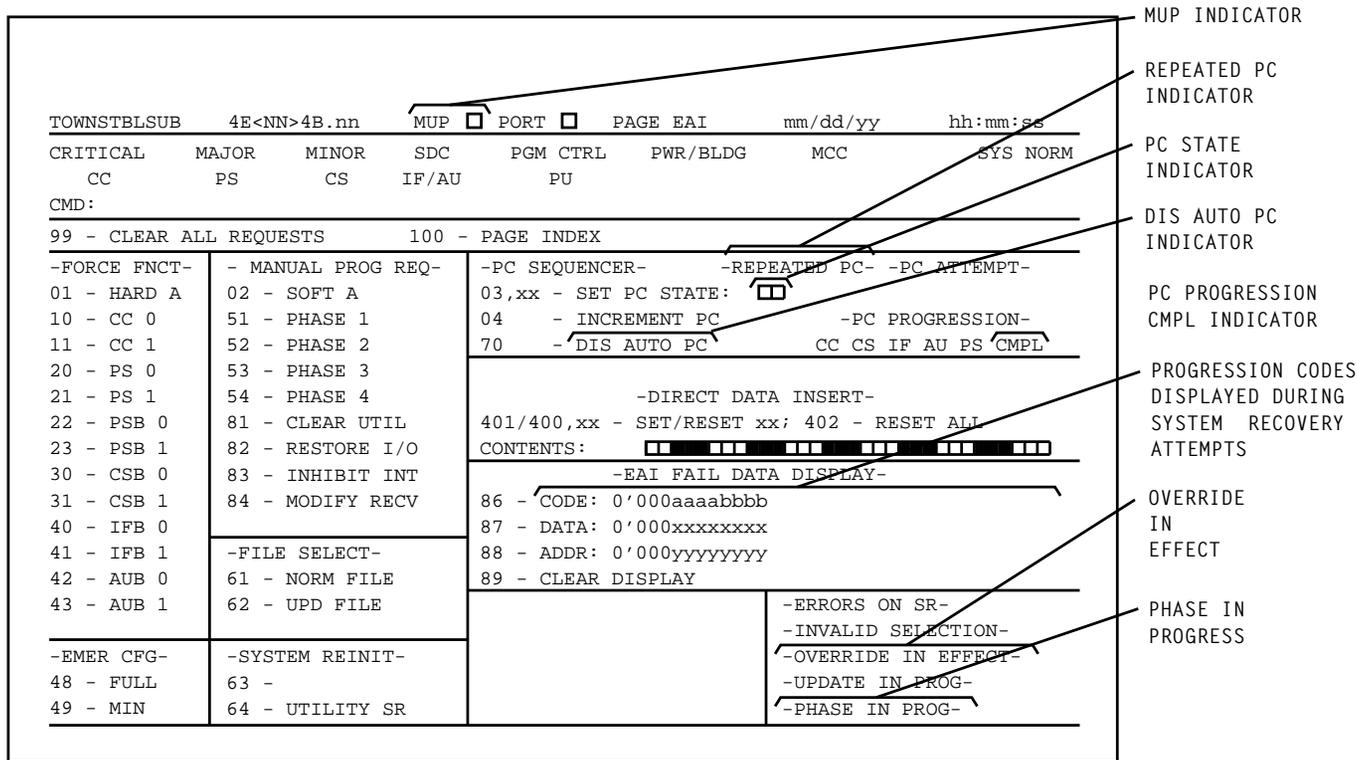
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PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY



NOTE	
21. System has recovered if following conditions have been met:	
A. On APS MCRT terminal, SYS EMER INDICATOR is not lighted	
B. On 1B Processor MCC terminal, PROCESSOR CONFIG COMPLETED indicator is lighted	
C. PRMs are not being received continuously	
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MUP INDICATOR

REPEATED PC INDICATOR

PC STATE INDICATOR

DIS AUTO PC INDICATOR

PC PROGRESSION CMPL INDICATOR

PROGRESSION CODES DISPLAYED DURING SYSTEM RECOVERY ATTEMPTS

OVERRIDE IN EFFECT

PHASE IN PROGRESS

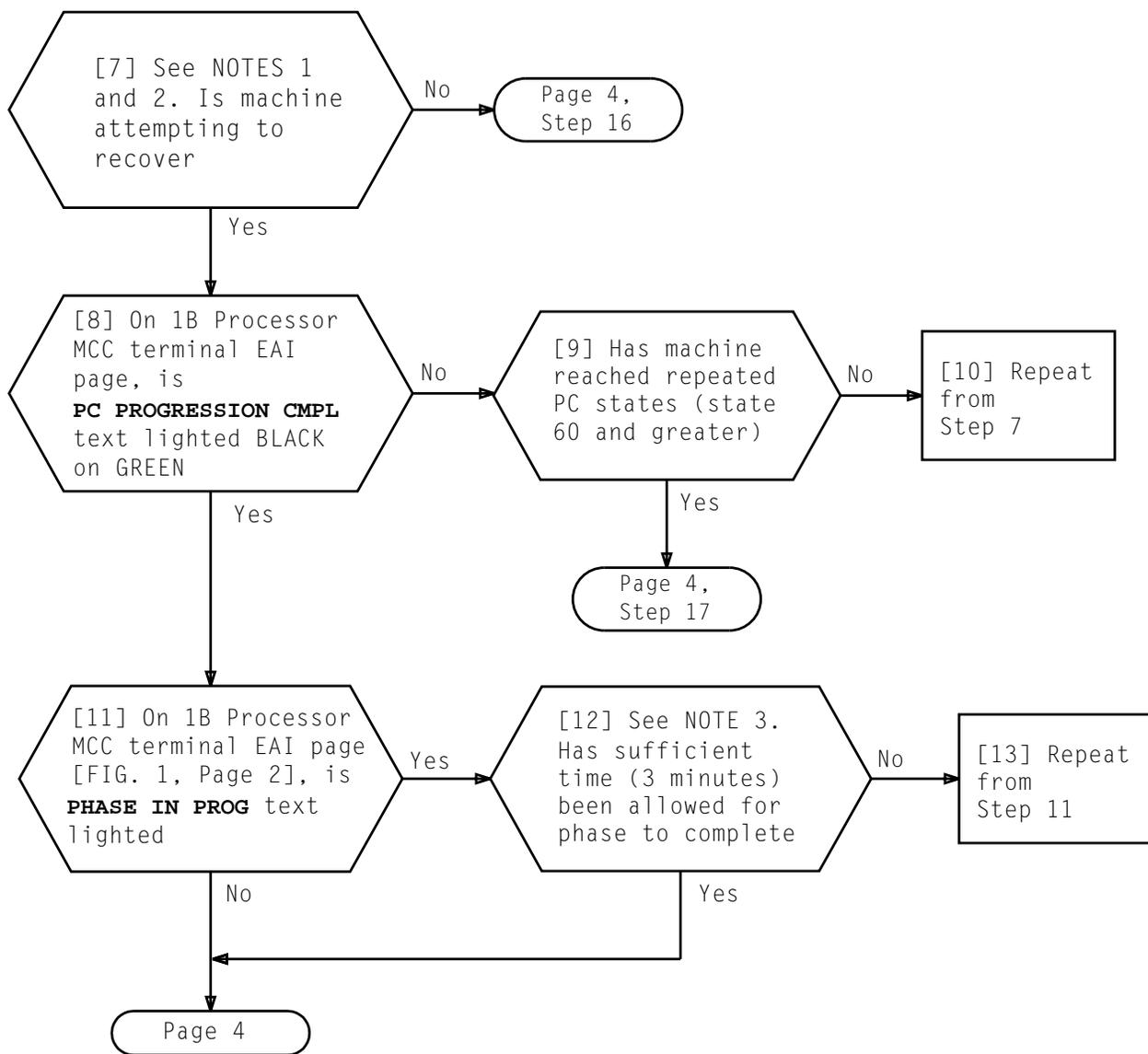
NOTE 1

Machine is attempting to recover if any of the following activity is occurring on the EAI page [FIG. 1]:

- A. **PC STATE** indicator is incrementing through PC states
- B. Progression codes are advancing in **86-CODE** field. See NOTE 2
- C. **PHASE IN PROGRESS** text is lighted
- D. **PC PROGRESSION CMPL** text lighted RED

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FIG. 1 - Layout of 1B Processor MCC Terminal EAI Page

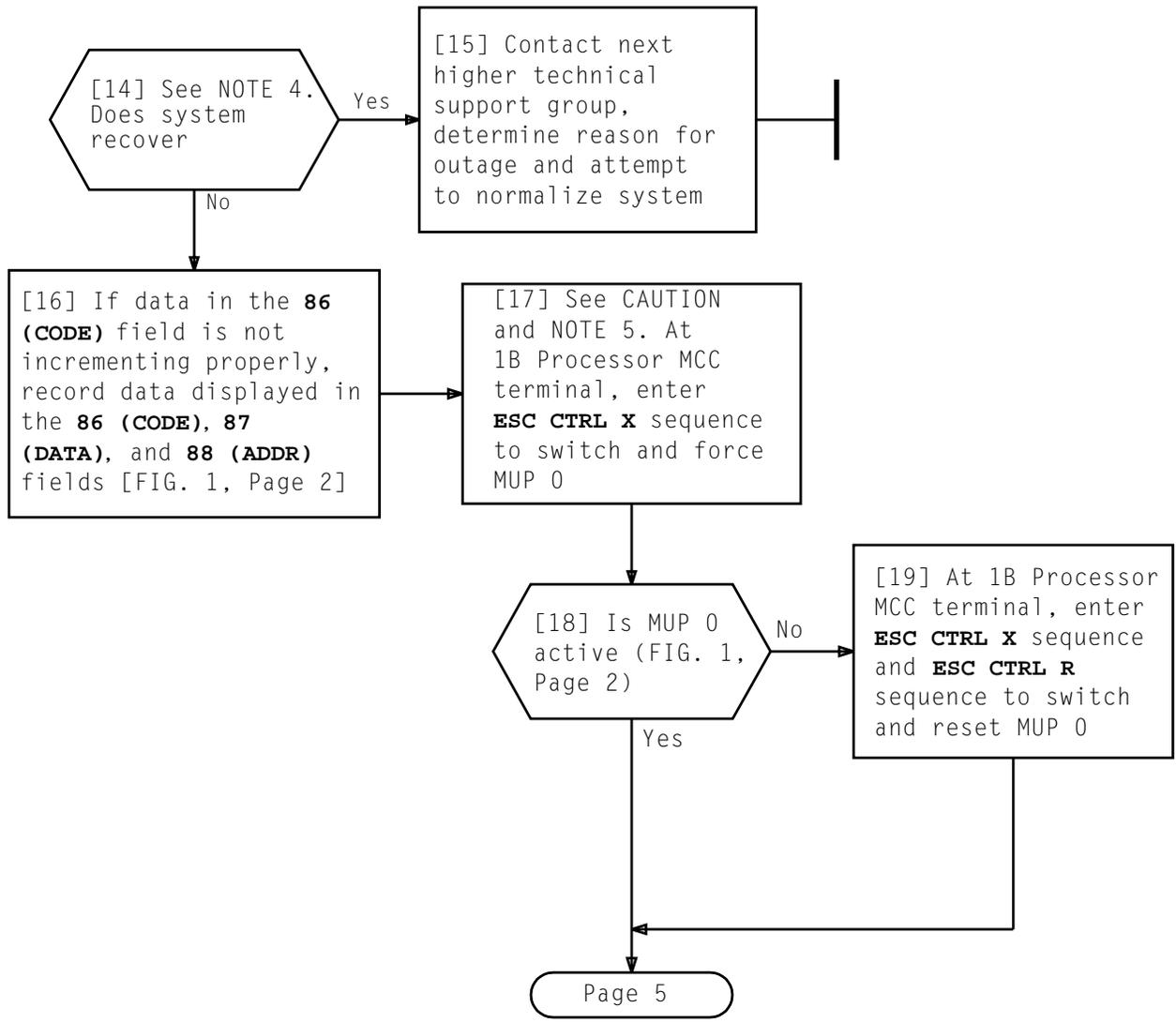


NOTES

2. In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - COMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

3. A phase is in progress if the leftmost "a" position in the **86 (CODE)** field is alternating between 0 and 4 every half second

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NOTES

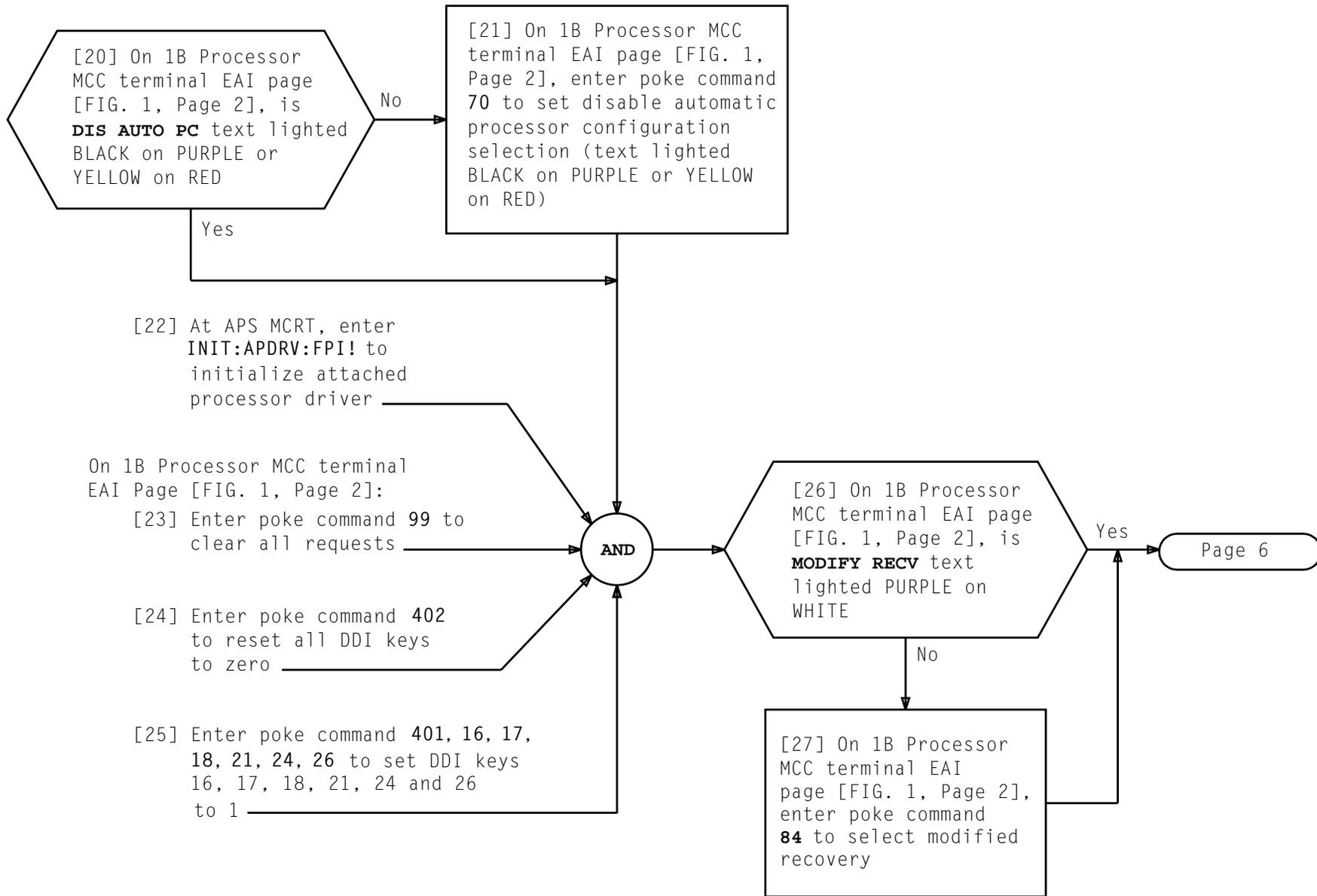
4. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

5. Depress **ESC, CTRL** and **X** keys simultaneously to switch MUPs. Depress **ESC, CTRL** and **R** keys simultaneously to reset MUPs

CAUTION
Depressing **ESC, CTRL** and **X** keys simultaneously in an operating office will cause interjects. Use only in emergency situations

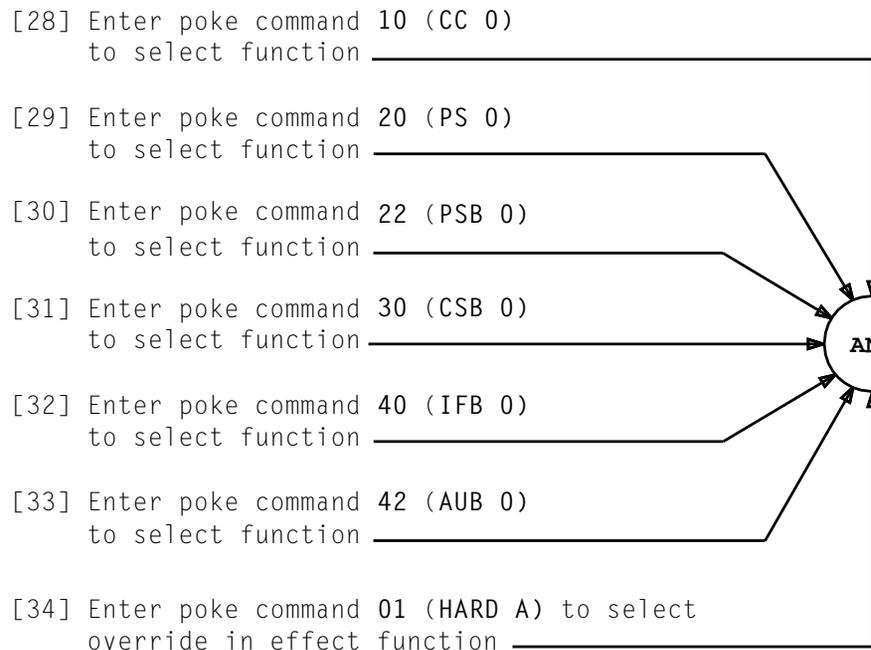
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PERFORM 1B PROCESSOR SYSTEM RECOVERY

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On 1B Processor MCC terminal
 EAI Page [FIG. 1, Page 2]:



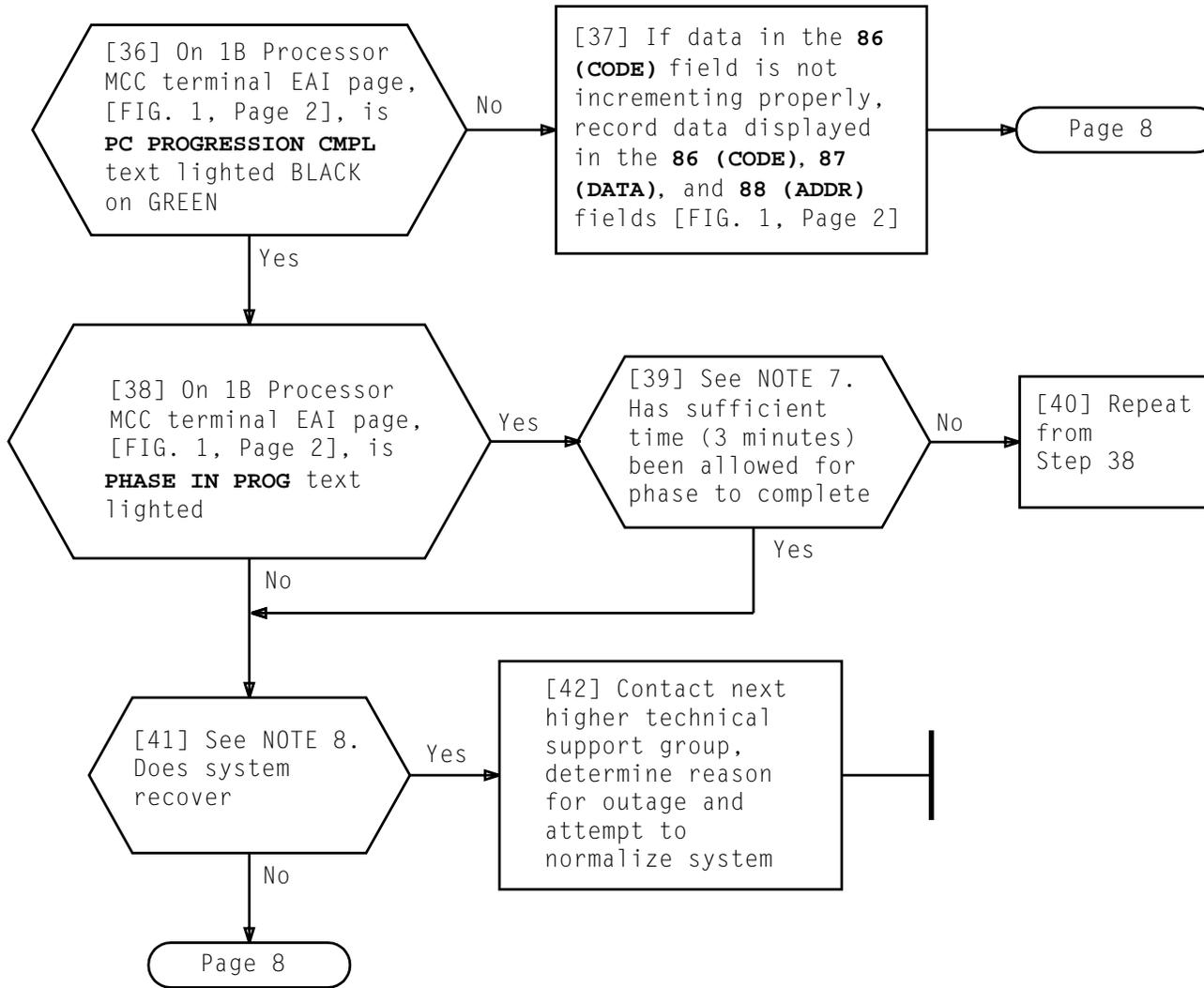
[35] See NOTE 6.
 Allow sufficient time (3 minutes) for processor to recover

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NOTE 6

In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not lighted GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

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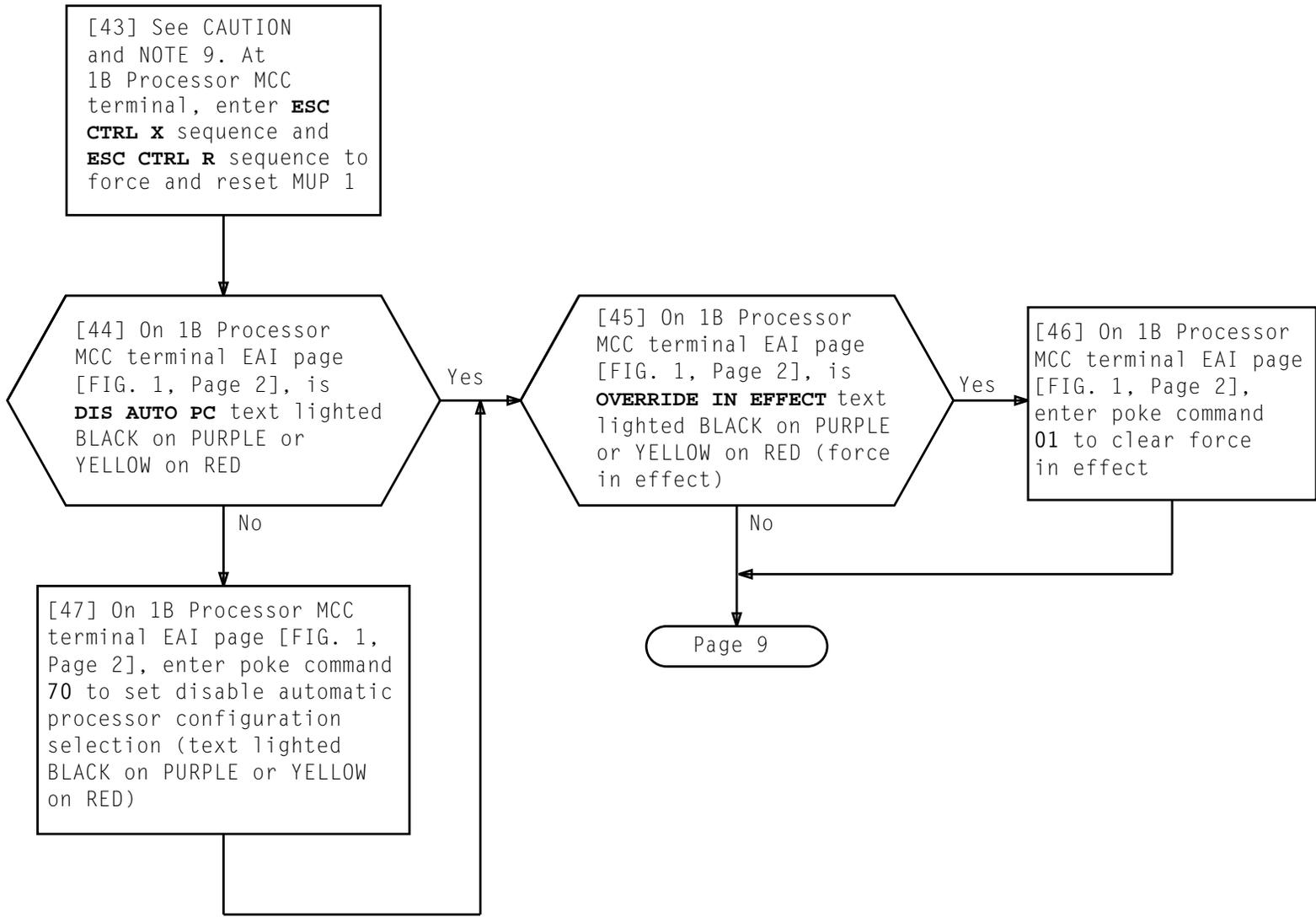
NOTES

7. A phase is in progress if the left-most "a" position in the 86 (CODE) field is alternating between 0 and 4 every half second

8. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

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NOTE 9
 Depress **ESC, CTRL** and **X** keys simultaneously to switch MUPs. Depress **ESC, CTRL** and **R** keys simultaneously to reset MUPs

CAUTION
*Depressing **ESC, CTRL** and **X** keys simultaneously in an operating office will cause interjects. Use only in emergency situations*

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[48] At APS MCRT, enter
INIT:APDRV:FPI! to initialize
attached processor driver

On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:

[49] Enter poke command 99
to clear all requests

[50] Enter poke command 402
to reset all DDI keys
to zero

[51] Enter poke command 401, 11,
17, 18, 21, 24, 26 to set DDI
keys 11, 17, 18, 21, 24 and
26 to 1

AND

[52] On 1B Processor
MCC terminal EAI page
[FIG. 1, Page 2], is
MODIFY RECV text
lighted PURPLE on
WHITE

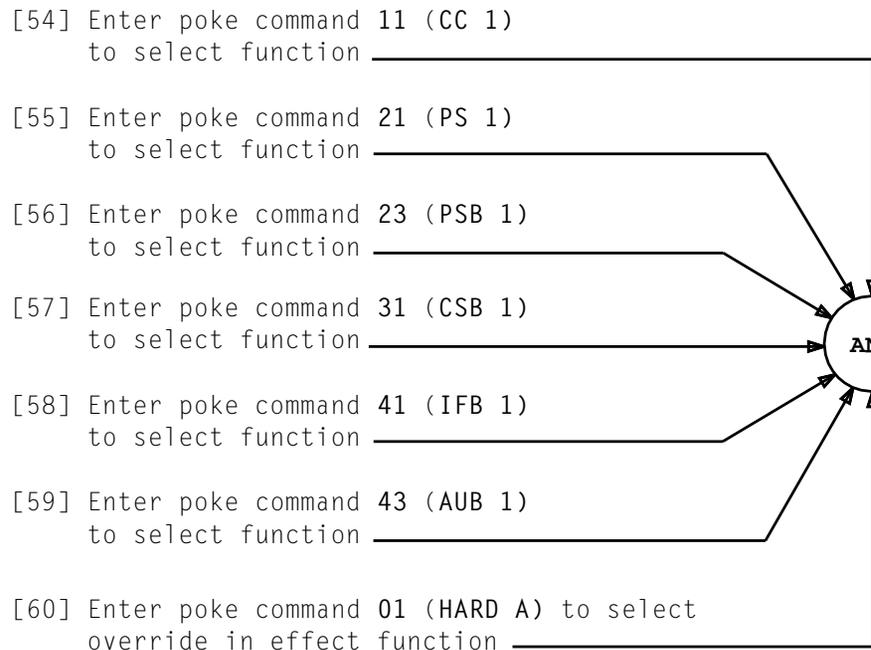
No

[53] On 1B Processor
MCC terminal EAI
page [FIG. 1, Page 2],
enter poke command
84 to select modified
recovery

Yes

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On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:



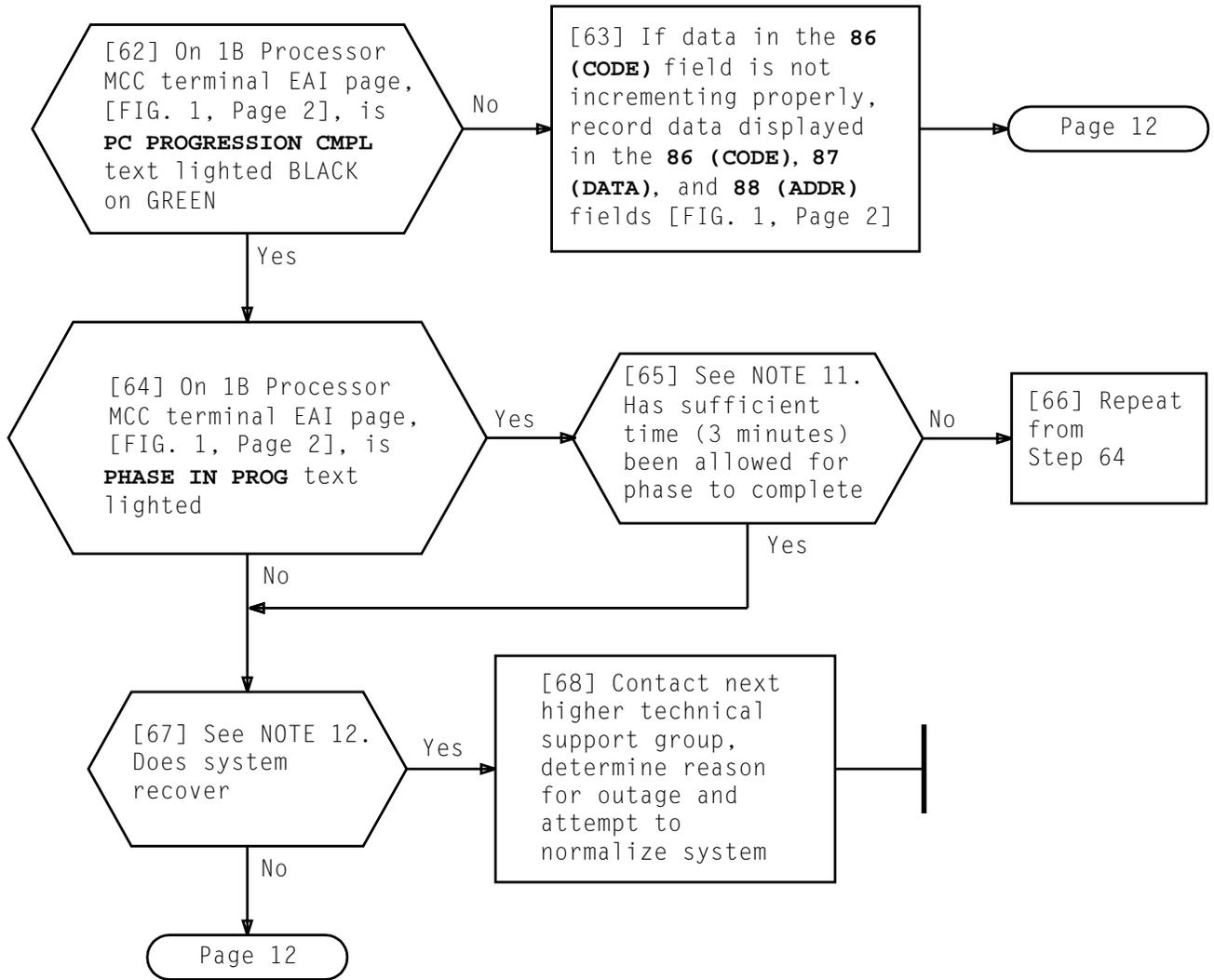
[61] See Note 10.
Allow sufficient time (3 minutes) for processor to recover

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NOTE 10

In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not lighted GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

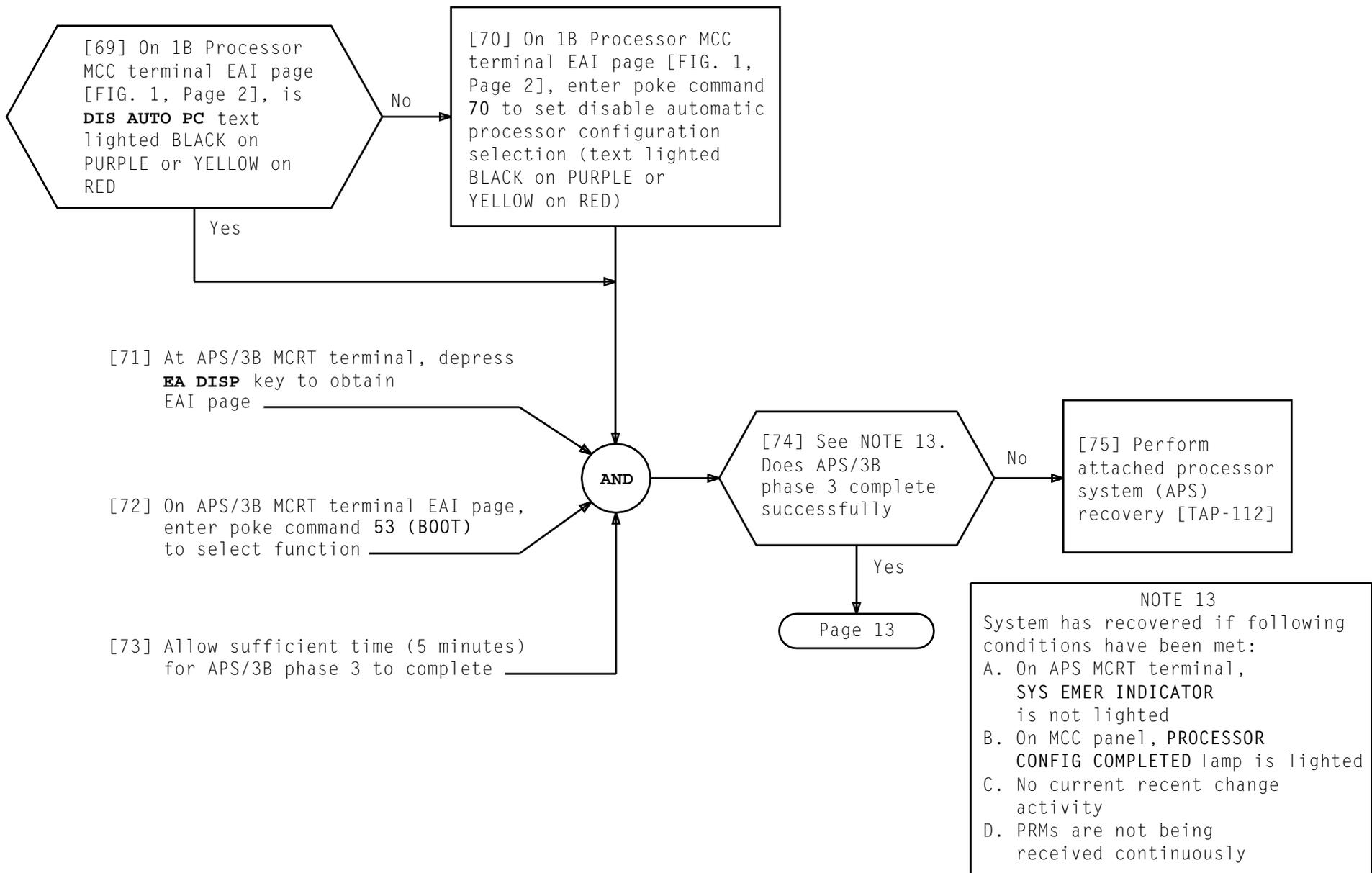
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NOTES

11. A phase is in progress if the left-most "a" position in the 86 (CODE) field is alternating between 0 and 4 every half second
12. System has recovered if following conditions have been met:
 - A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
 - B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
 - C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
 - D. Calls are being processed

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[76] See NOTE 14.
 Power down all 1B
 Processor units in
 Cabinet 0 [TABLE A]

[77] Power down both 1B
 Processor DUS units
 (0 and 1, if they exist)

[78] Power down 1B Processor
 API 0

[79] Power down
 1B Processor SSD 1
 (KLW15, 158-168)
 in Cabinet 1

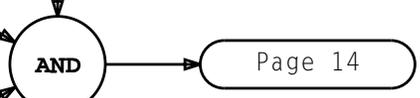
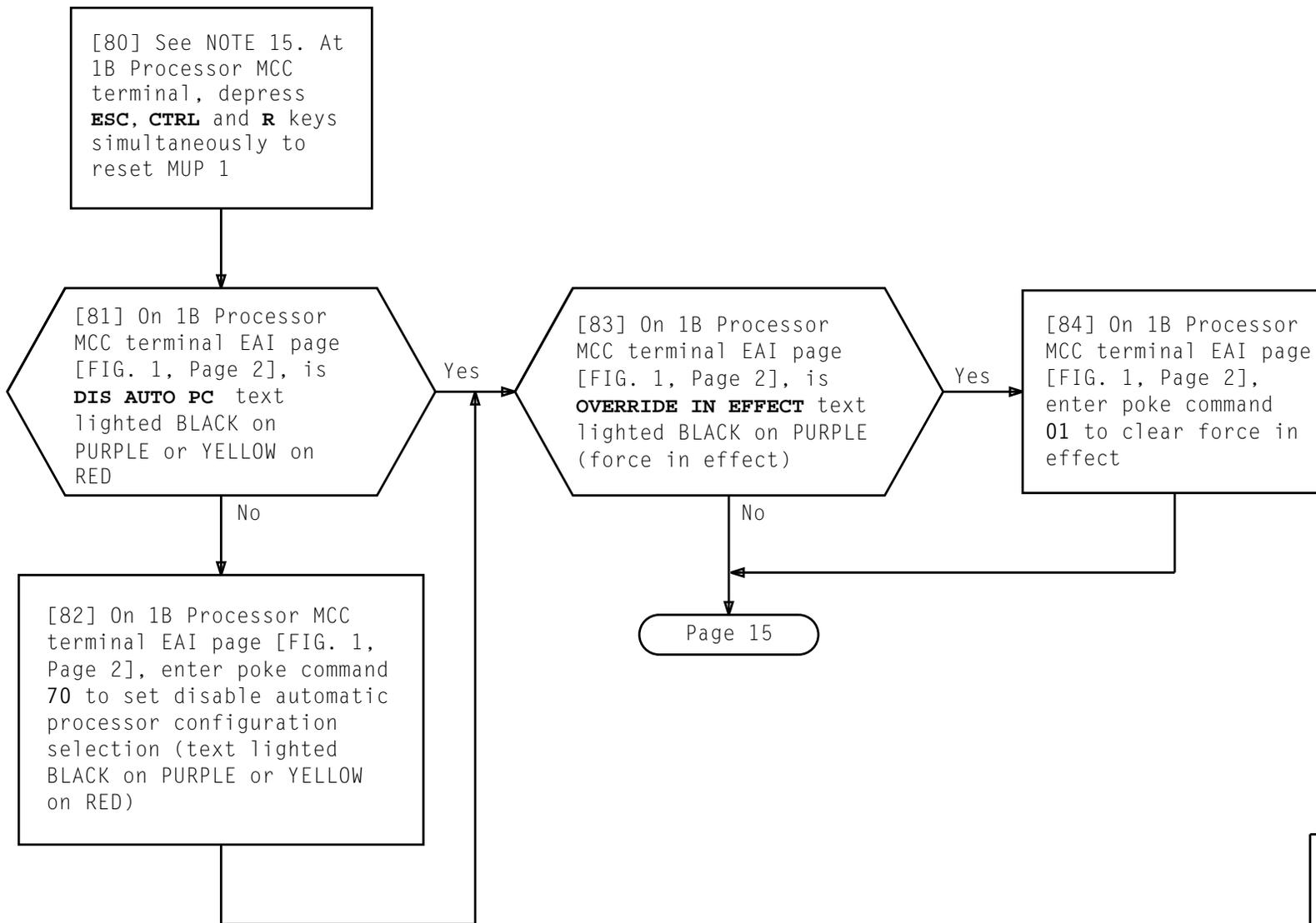


TABLE A 1B PROCESSOR EVEN UNITS	
CC 0 (KLW11)	(041-014)
PS 0, 2...	(KLW2) (041-128, -136...)
CS 0,2,4,6,8...	(KLW1) (024-006, -014...)
CSB0 (KLW26)	(024-086) CSB1 (KLW27) (024-096) In Cabinet 0
AUI 0 (KLW18)	(058-120)
SSD 0 (KLW15)	(058-168)
MUP 0 (KLW25)	(058-086)
XPWR 0 (KLW23)	(024-030)

NOTE 14 Do not toggle ROS switch, use MOR and OFF buttons to power down units	
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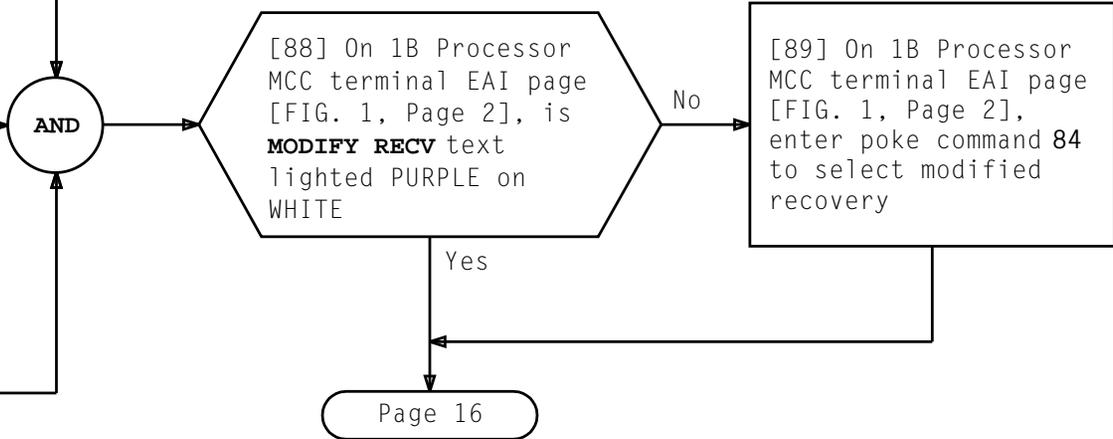
NOTE 15	
Depressing ESC , CTRL and R keys simultaneously will reset MUP	
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On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:

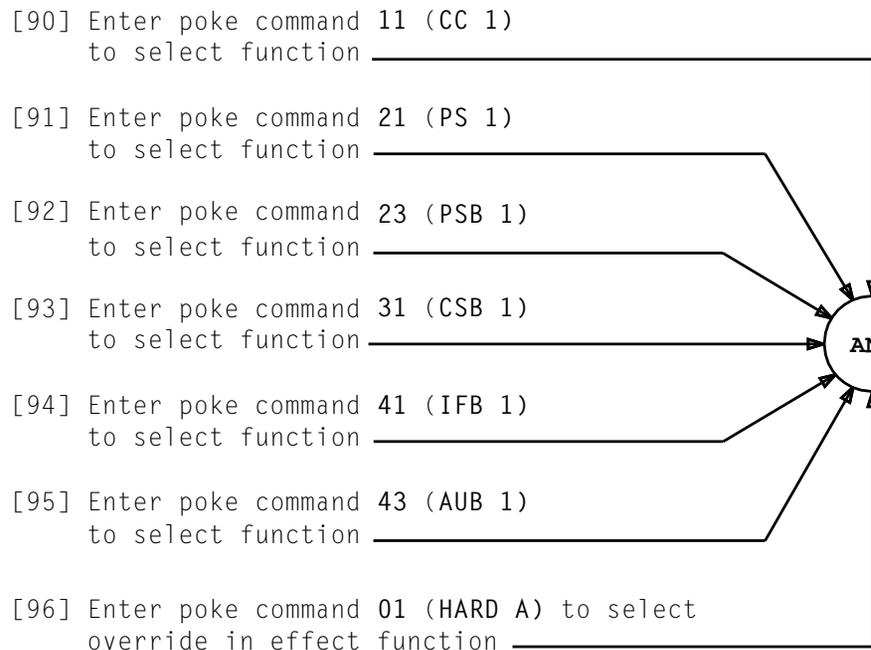
[85] Enter poke command 99
to clear all requests

[86] Enter poke command 402
to reset all DDI keys
to zero

[87] Enter poke command 401, 00,
06, 11, 17, 18, 21, 24, 26, 27
to set DDI keys 00, 06, 11,
17, 18, 21, 24, 26 and 27 to 1



On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:



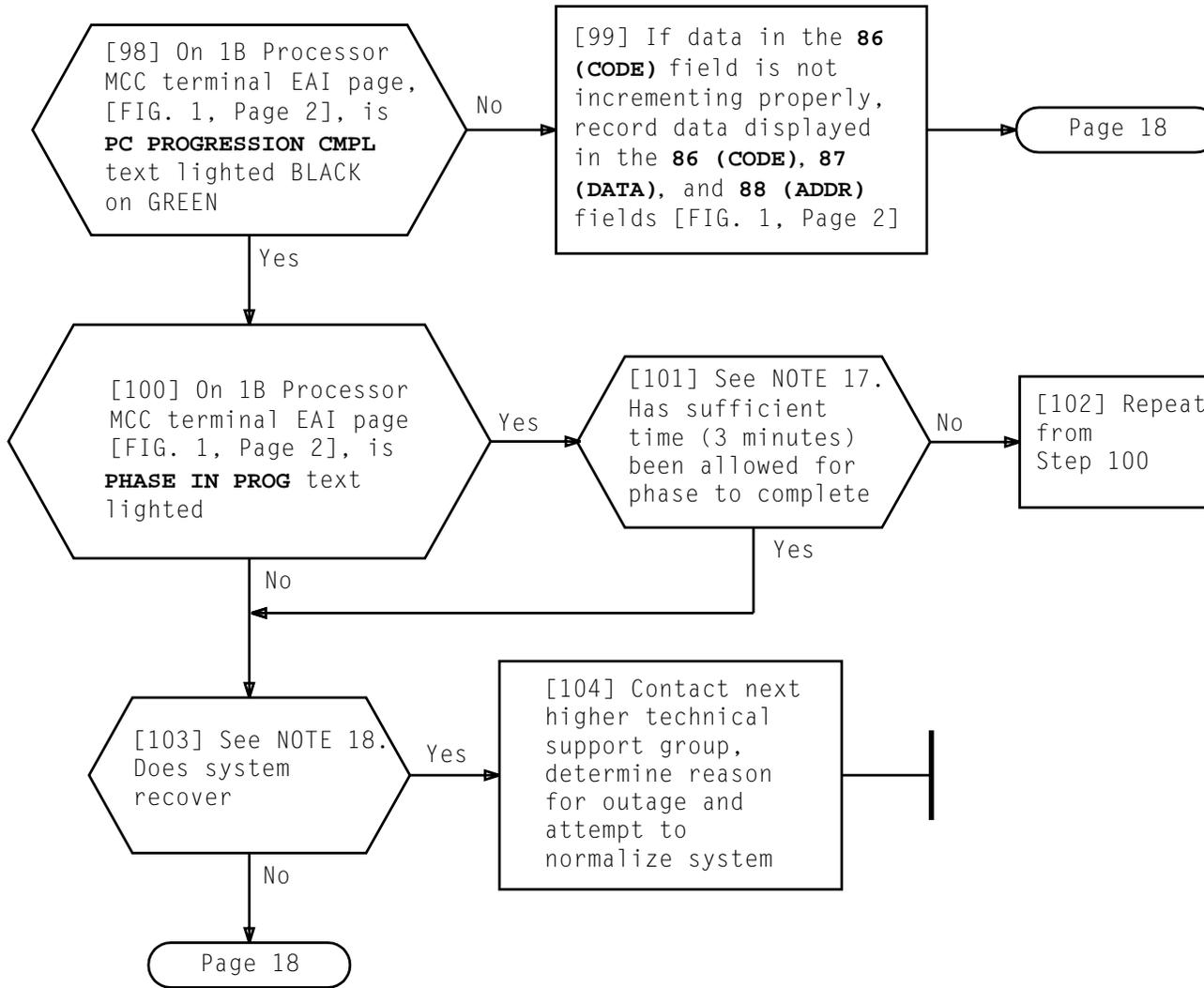
[97] See NOTE 16.
Allow sufficient
time (3 minutes)
for processor to
recover

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NOTE 16

In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not lighted GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

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NOTES

17. A phase is in progress if the left most "a" position in the 86 (CODE) field is alternating between 0 and 4 every half second

18. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

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[105] Power down all 1B Processor units in Cabinet 1 [TABLE B]

[106] Power down 1B Processor API 1

[107] Ensure both 1B Processor DUS units (0 and 1) are powered down

[108] Ensure both 1B Processor SSD units (0 and 1) are powered down

[109] See NOTE 19. Power up all even 1B Processor units except SSD 0 and DUS 0 [TABLE C]

[110] Power up API 0

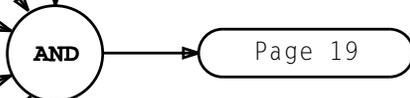


TABLE B 1B PROCESSOR ODD UNITS	
CC 1 (KLW11)	(141-014)
PS 1, 3...	(KLW2) (141-128, -136...)
CS 1,3,5,7,9...	(KLW1) (124-006, -014...)
CSB0 (KLW26)	(124-086) CSB1 (KLW27) (124-096) In Cabinet 1
AUI 1 (KLW18)	(158-120)
MUP 1 (KLW25)	(158-086)
XPWR 1 (KLW23)	(024-030)

TABLE C 1B PROCESSOR EVEN UNITS	
CC 0 (KLW11)	(041-014)
PS 0, 2...	(KLW2) (041-128, -136...)
CS 0,2,4,6,8...	(KLW1) (024-006, -014...)
CSB0 (KLW26)	(024-086) CSB1 (KLW27) (024-096) In Cabinet 0
AUI 0 (KLW18)	(058-120)
MUP 0 (KLW25)	(058-086)
XPWR 0 (KLW23)	(024-030)

NOTE 19 At this time, all 1B Processor units including both API units and both DUS units should be powered down	
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[111] See CAUTION and NOTE 20. At 1B Processor MCC terminal, force and reset MUP 0 with **ESC CTRL X** sequence and **ESC CTRL R** sequence

[112] On 1B Processor MCC terminal EAI page [FIG. 1, Page 2], is **DIS AUTO PC** text lighted BLACK on PURPLE or YELLOW on RED

Yes

[114] On 1B Processor MCC terminal EAI page [FIG. 1, Page 2], is **OVERRIDE IN EFFECT** text lighted BLACK on PURPLE or YELLOW on RED (force in effect)

Yes

[115] On 1B Processor MCC terminal EAI page [FIG. 1, Page 2], enter poke command 01 to clear force in effect

No

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No

[113] On 1B Processor MCC terminal EAI page [FIG. 1, Page 2], enter poke command 70 to set disable automatic processor configuration selection (text lighted BLACK on PURPLE or YELLOW on RED)

NOTE 20
Depressing **ESC**, **CTRL** and **X** keys simultaneously will switch MUPs. Depressing **ESC**, **CTRL** and **R** keys simultaneously will reset MUPs

CAUTION
*Depressing **ESC**, **CTRL** and **X** keys simultaneously in an operating office will cause interjects. Use only in emergency situations*

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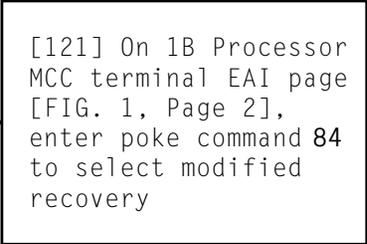
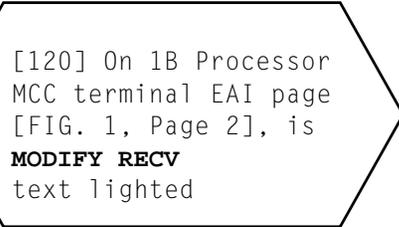
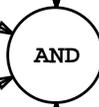
[116] At APS MCRT, enter
INIT:APDRV:FPI! to initialize
attached processor driver

On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:

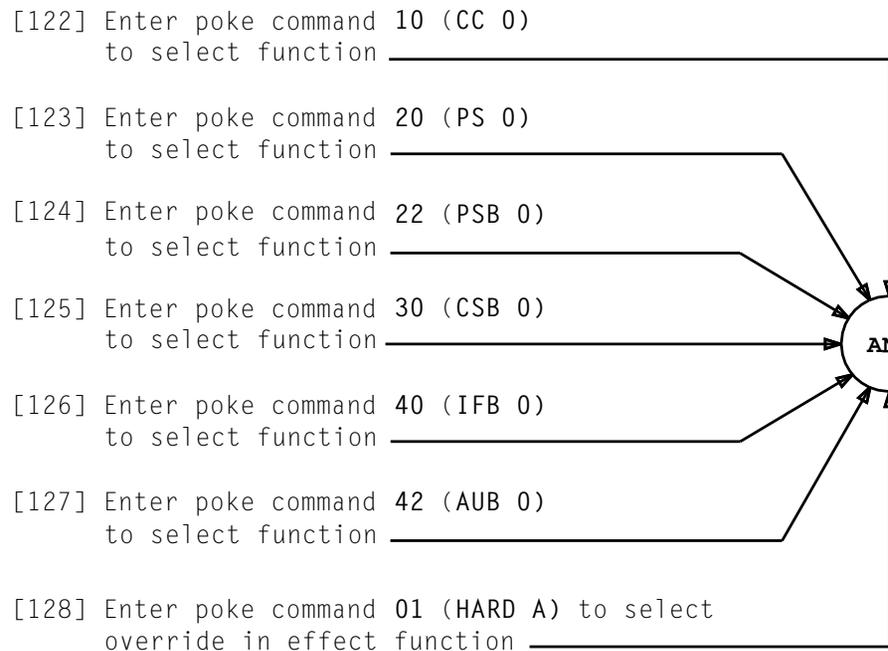
[117] Enter poke command 99
to clear all requests

[118] Enter poke command 402
to reset all DDI keys
to zero

[119] Enter poke command 401, 00, 06, 11,
17, 18, 21, 24, 26, 27 to set DDI
keys 00, 06, 11, 17, 18, 21, 24,
26 and 27 to 1



On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:



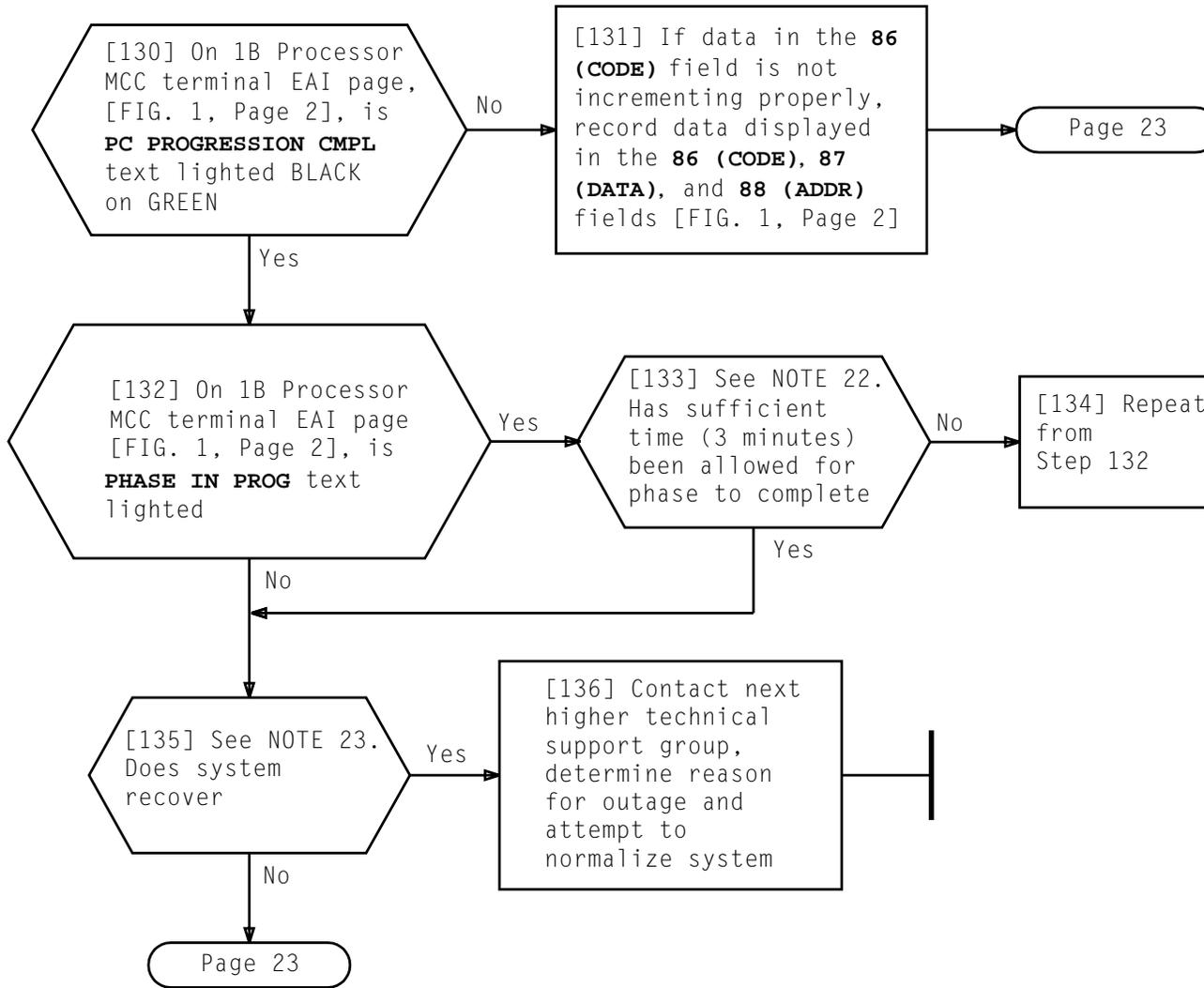
[129] See NOTE 21.
Allow sufficient time (3 minutes) for processor to recover

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NOTE 21

In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not lighted GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is and failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

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NOTES

22. A phase is in progress if the left-most "a" position in the 86 (CODE) field is alternating between 0 and 4 every half second

23. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

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[137] Power up all remaining
1B Processor units except
SSD 0 and 1 and DUS 0 and 1
[TABLE D]

[138] Power up API 1

[139] On APS/3B MCRT terminal
EAI page, enter poke
command 53 (B00T) to
select function

[140] See NOTE 24.
Allow sufficient time
(3 minutes) for APS/3B
phase 3 to complete

AND

[141] See NOTE 24.
Does APS/3B
phase 3 complete
successfully

Yes

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No

[142] Perform
Attached Processor
System (APS)
recovery [TAP-112]

TABLE D
1B PROCESSOR ODD UNITS

CC 1 (KLW11) (141-014)
PS 1, 3... (KLW2) (141-128, -136...)
CS 1,3,5,7,9...(KLW1) (124-006, -014...)
(KLW26) (124-086) (KLW27) (124-096) In Cabinet 1
AUI 1 (KLW18) (158-120)
MUP 1 (KLW25) (158-086)
XPWR 1 (KLW23) (124-030)

NOTE 24

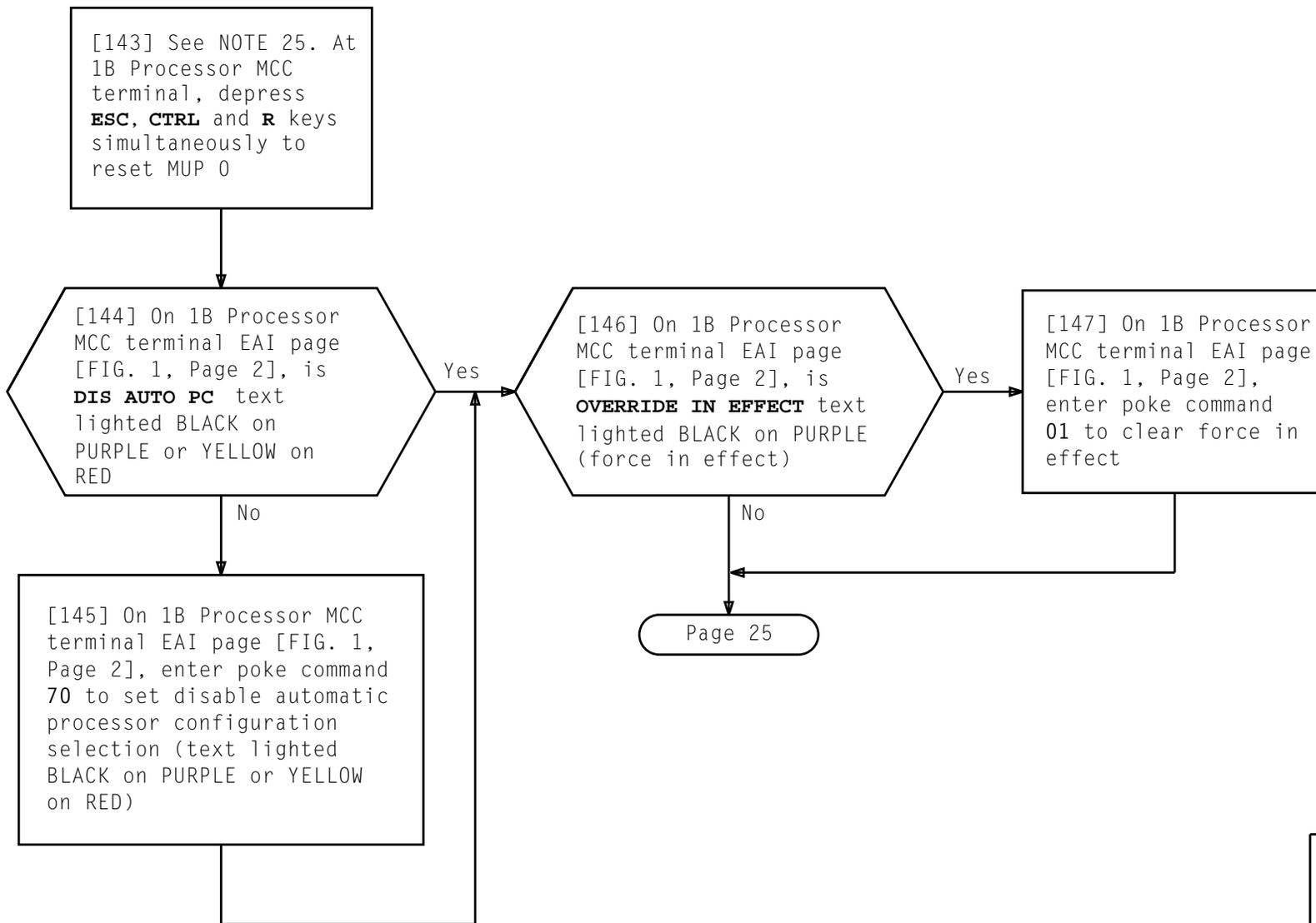
System has recovered if following
conditions have been met:

- A. On APS MCRT terminal,
SYS EMER INDICATOR
is not lighted
- B. On MCC panel, PROCESSOR
CONFIG COMPLETED lamp is
lighted
- C. No current recent change
activity
- D. PRMs are not being
received continuously

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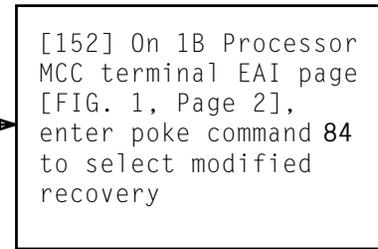
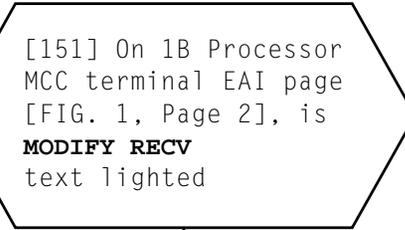
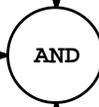
NOTE 15	
Depressing ESC , CTRL and R keys simultaneously will reset MUP	
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On 1B Processor MCC terminal
EAI Page [FIG. 1, Page 2]:

[148] Enter poke command 99
to clear all requests

[149] Enter poke command 402
to reset all DDI keys
to zero

[150] Enter poke command 401, 00,
06, 11, 17, 18, 21, 24, 26, 27
to set DDI keys 00, 06, 11,
17, 18, 21, 24, 26 and 27 to 1



[153] Select and check off applicable manual configuration for MUP 0 [TABLE E]

[154] See NOTE 26. On 1B Processor MCC terminal EAI page, enter poke commands as listed (left to right) for selected manual configuration [TABLE E]

[155] On 1B Processor MCC terminal EAI page, enter poke command 01 (HARD A) to select override in effect function

AND

[156] See NOTE 27. Allow sufficient time (3 minutes) for processor to recover

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NOTES

26. When manual configurations are selected that specify opposite IFB and MUP selections (for example, IFB0/MUP1 or IFB1/MUP0), a "FORCED MUP/IFB MISMATCH" system response will be received. This system response should be ignored while system recovery manual configurations are being forced
27. In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not lighted GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

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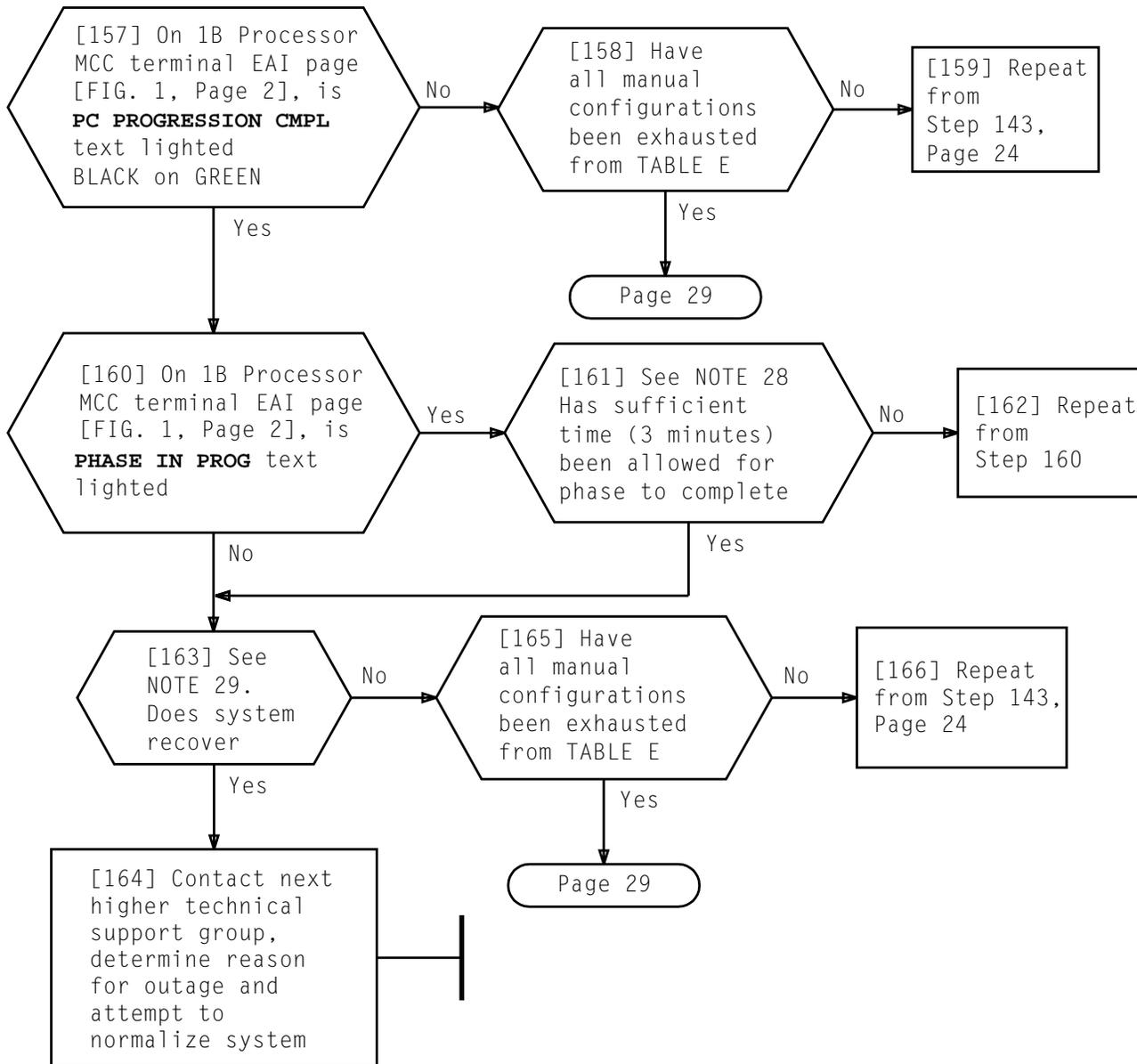
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TABLE E
1B PROCESSOR MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS (MUP 0)

MANUAL SEQUENCE (See NOTE)	OVERRIDE CONTROL SELECTIONS												
	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1	CHECK OFF ✓
1	10			21	22		30			41	42		
2	10			21	22		30			41	42		
3		11	20		22			31	40			43	
4		11	20		22			31		41		43	
5		11		21	22		30		40		42		
6	10		20			23		31		41		43	
7	10			21		23	30		40		42		
8	10			21	22			31		41		43	
9		11	20			23	30		40		42		
10	10		20		22		30		40		42		
11		11		21		23		31		41		43	

NOTE: All forces must be cleared before next manual configuration can be selected



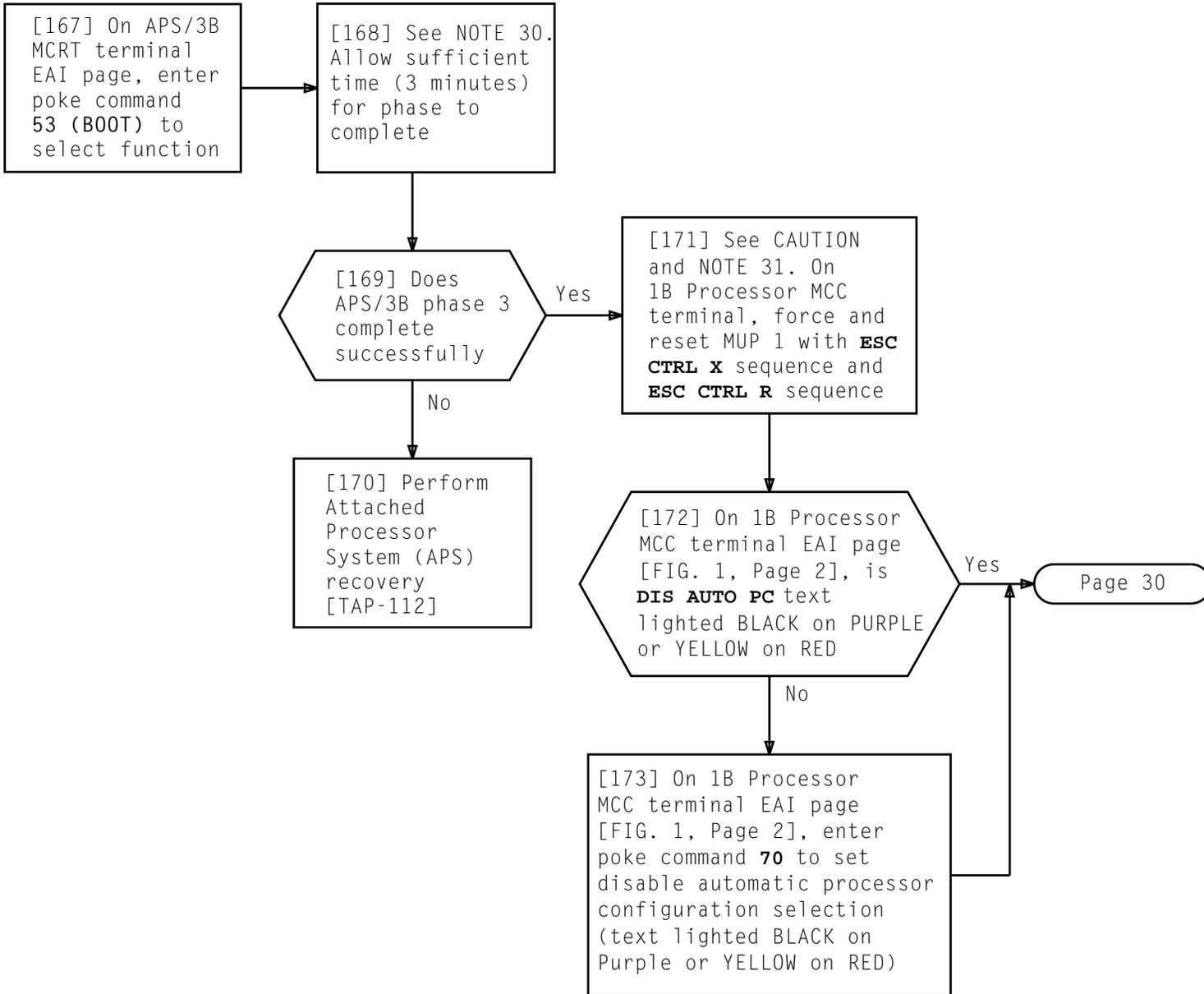
NOTES

28. A phase is in progress if the left-most "a" position in the **86 (CODE)** field is alternating between 0 and 4 every half second

29. System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under **PC PROGRESSION, Cmpl** text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, **PHASE IN PROG** text has not lighted in last few minutes
- C. On 1B Processor MCC terminal **SYSTEM STATUS** page under **SYSTEM ACTIVITY**, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

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NOTES

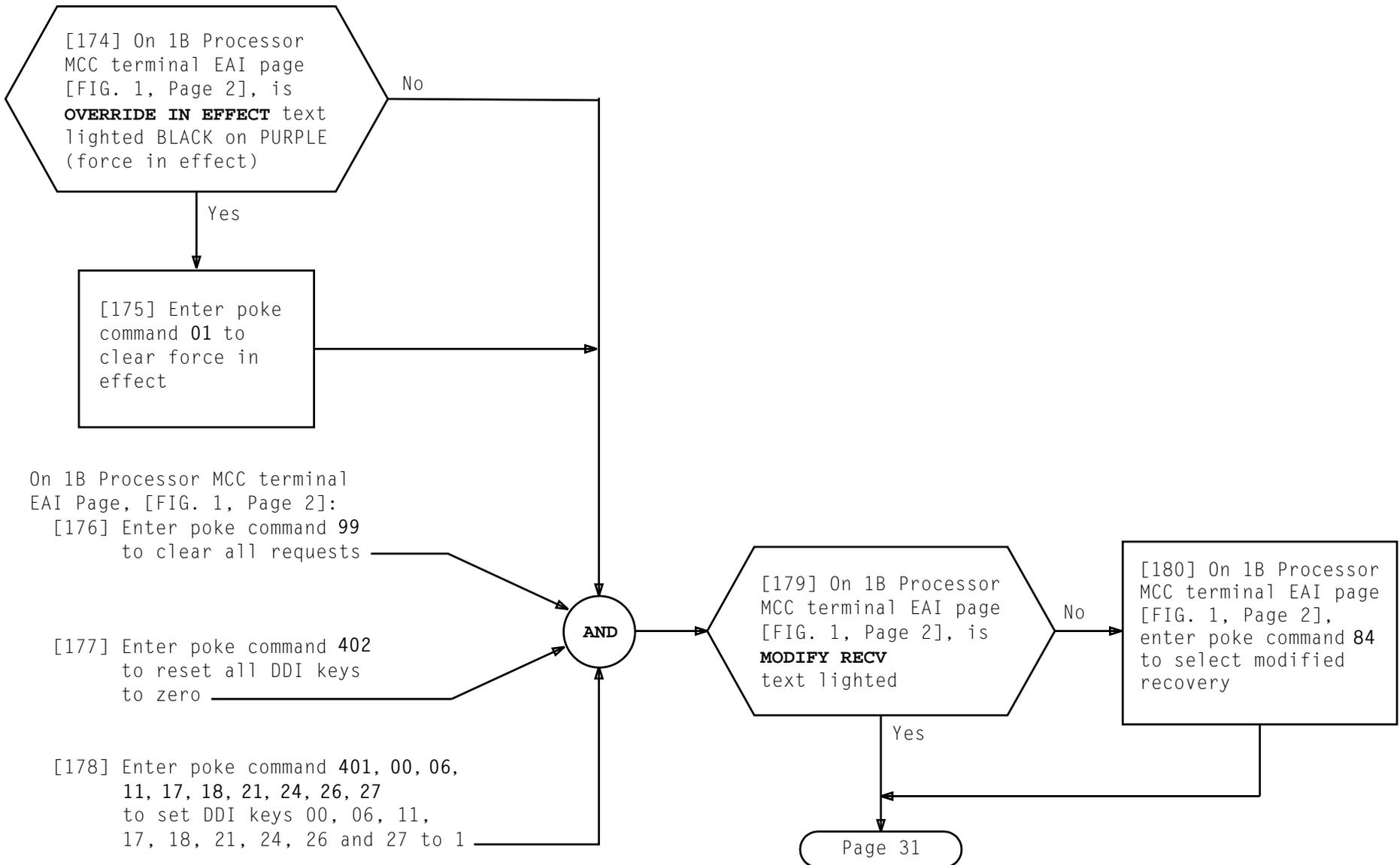
30. System has recovered if following conditions have been met:

- A. On APS MCRT terminal, SYS EMER INDICATOR is not lighted
- B. On MCC panel, PROCESSOR CONFIG COMPLETED lamp is lighted
- C. No current recent change activity
- D. PRMs are not being received continuously

31. Depressing **ESC, CTRL** and **X** keys simultaneously will switch MUPs. Depressing **ESC, CTRL** and **R** keys simultaneously will reset MUPs

CAUTION
 Depressing **ESC, CTRL** and **X** keys simultaneously in an operating office will cause interjects. Use only in emergency situations.

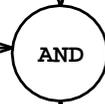
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[181] Select and check off applicable manual configuration for MUP 1 [TABLE F]

[182] See NOTE 32. On 1B Processor MCC terminal EAI page, enter poke commands as listed (left to right) for selected manual configuration [TABLE F]

[183] On 1B Processor MCC terminal EAI page, enter poke command 01 (HARD A) to select override in effect function



[184] See NOTE 33. Allow sufficient time (3 minutes) for processor to recover

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NOTES

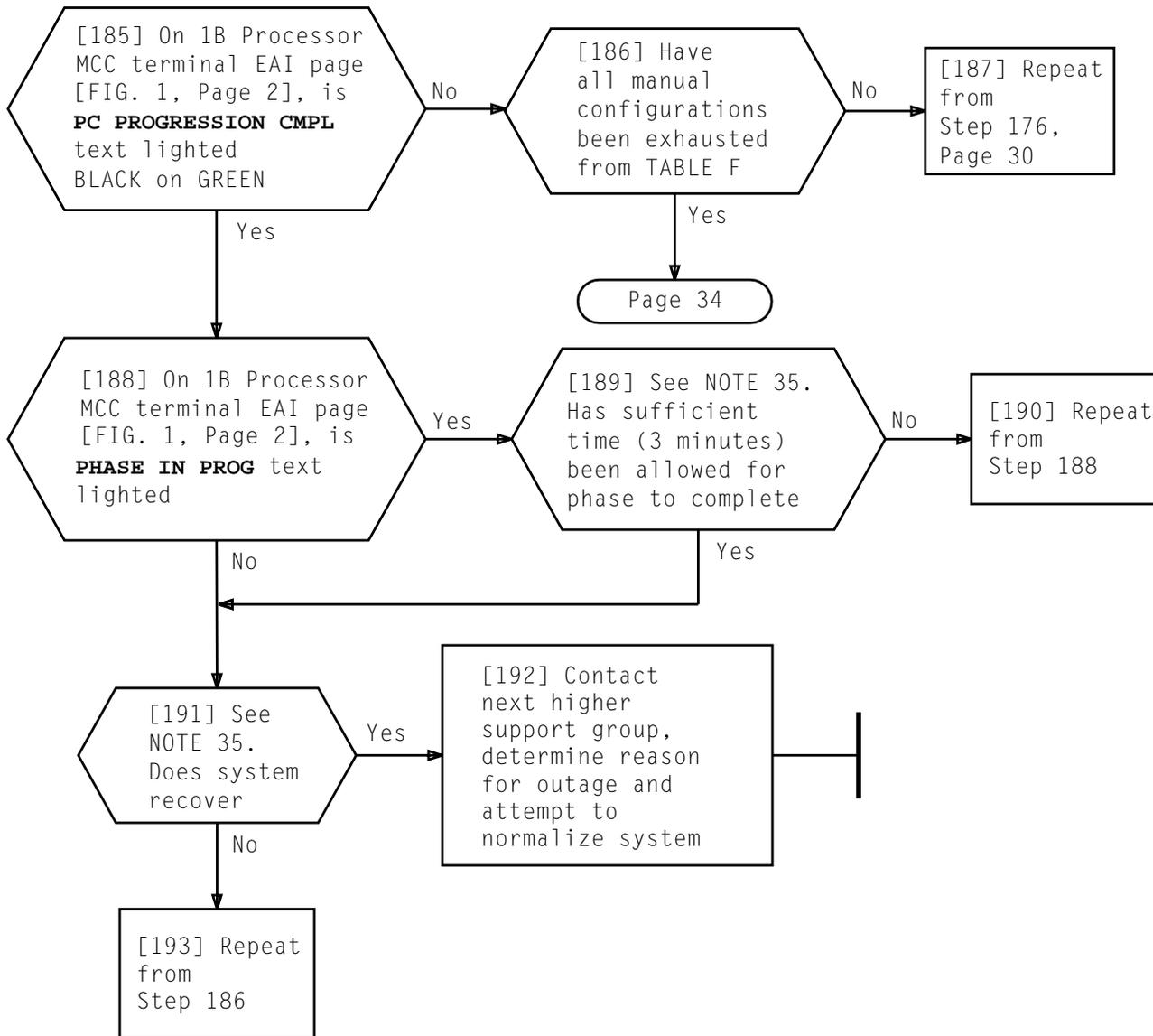
- 32. When manual configurations are selected that specify opposite IFB and MUP selections (for example, IFB0/MUP1 or IFB1/MUP0), a "FORCED MUP/IFB MISMATCH" system response will be received. This system response should be ignored while system recovery manual configurations are being forced
- 33. In **EAI FAIL DATA DISPLAY** section, for every PC attempt and every Hard A (01) request, the octal digits "aaaa" and "bbbb" [FIG. 1, Page 2] in **86-CODE** field must begin incrementing within 10 seconds. "bbbb" indicates that 1B Processor is attempting to pump and "aaaa" indicates the memory range that is being pumped (this applies while **PC PROGRESSION - CMPL** lamp is not lighted GREEN). "aaaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** text lights BLACK on GREEN. If "aaaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaaa" stops incrementing for 30 seconds while "bbbb" continues to increment, this is a failure

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TABLE F
1B PROCESSOR MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS (MUP 1)

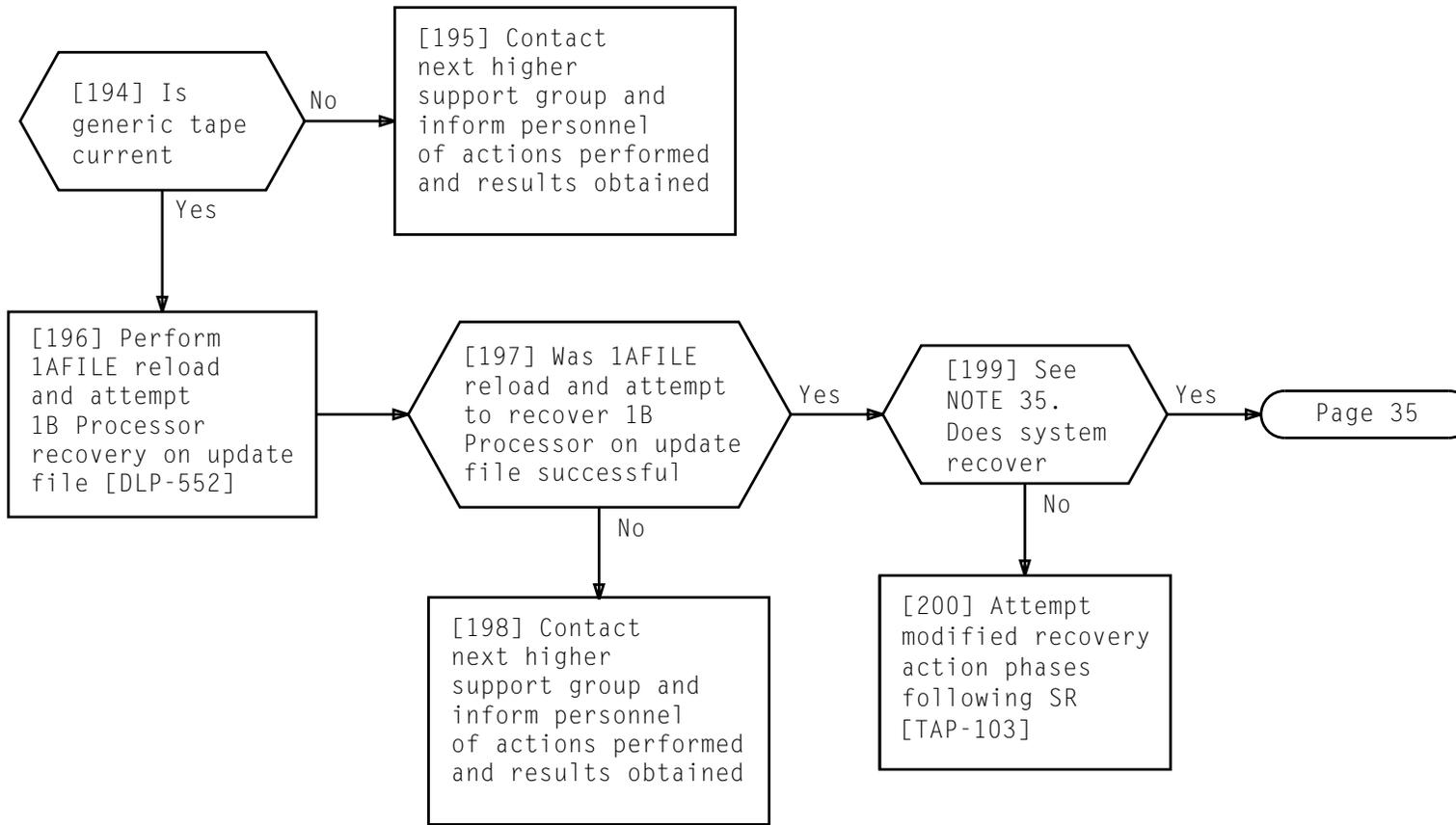
MANUAL SEQUENCE (See NOTE)	OVERRIDE CONTROL SELECTIONS												
	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1	CHECK OFF <input type="checkbox"/>
12		11	20			23	30			41	42		
13		11		21	22			31	40			43	
14		11	20			23		31	40			43	
15	10		20		22		30			41	42		
16	10			21		23		31	40			43	
17	10		20		22		30		40		42		
18		11		21		23		31		41		43	

NOTE: All forces must be cleared before next manual configuration can be selected



- NOTES
34. A phase is in progress if the left-most "a" position in the **86 (CODE)** field is alternating between 0 and 4 every half second
 35. System has recovered if following conditions have been met:
 - A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, Cmpl text is lighted BLACK on GREEN
 - B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
 - C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
 - D. Calls are being processed

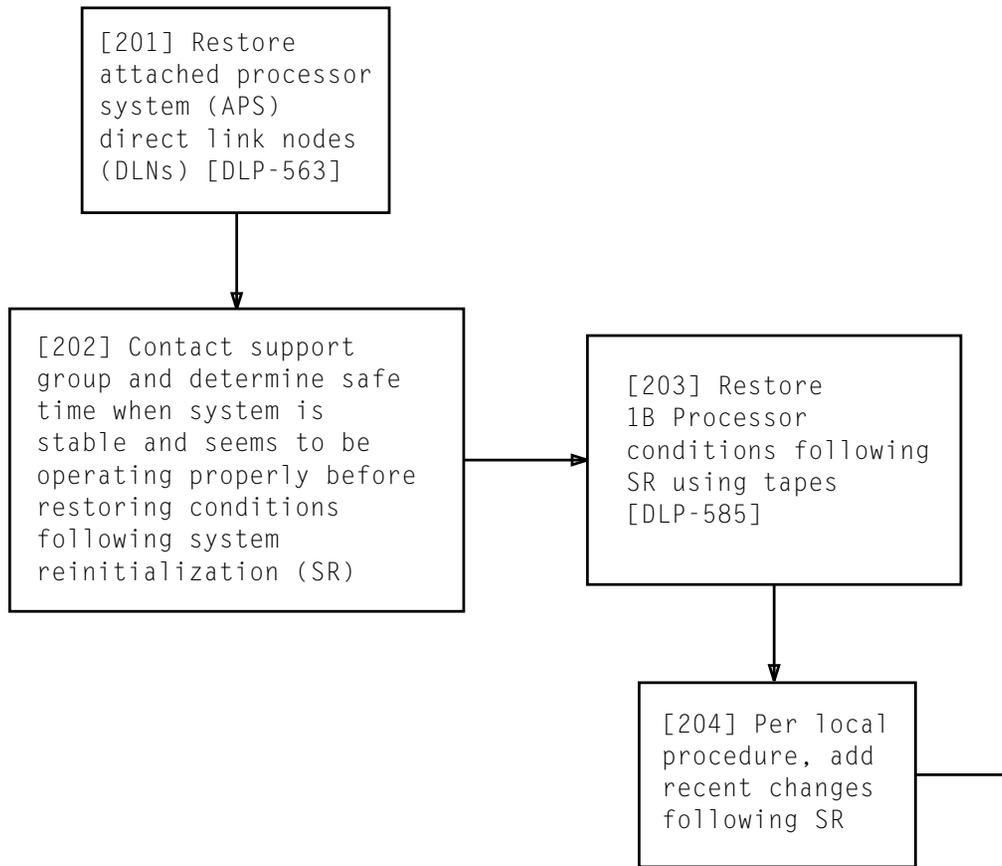
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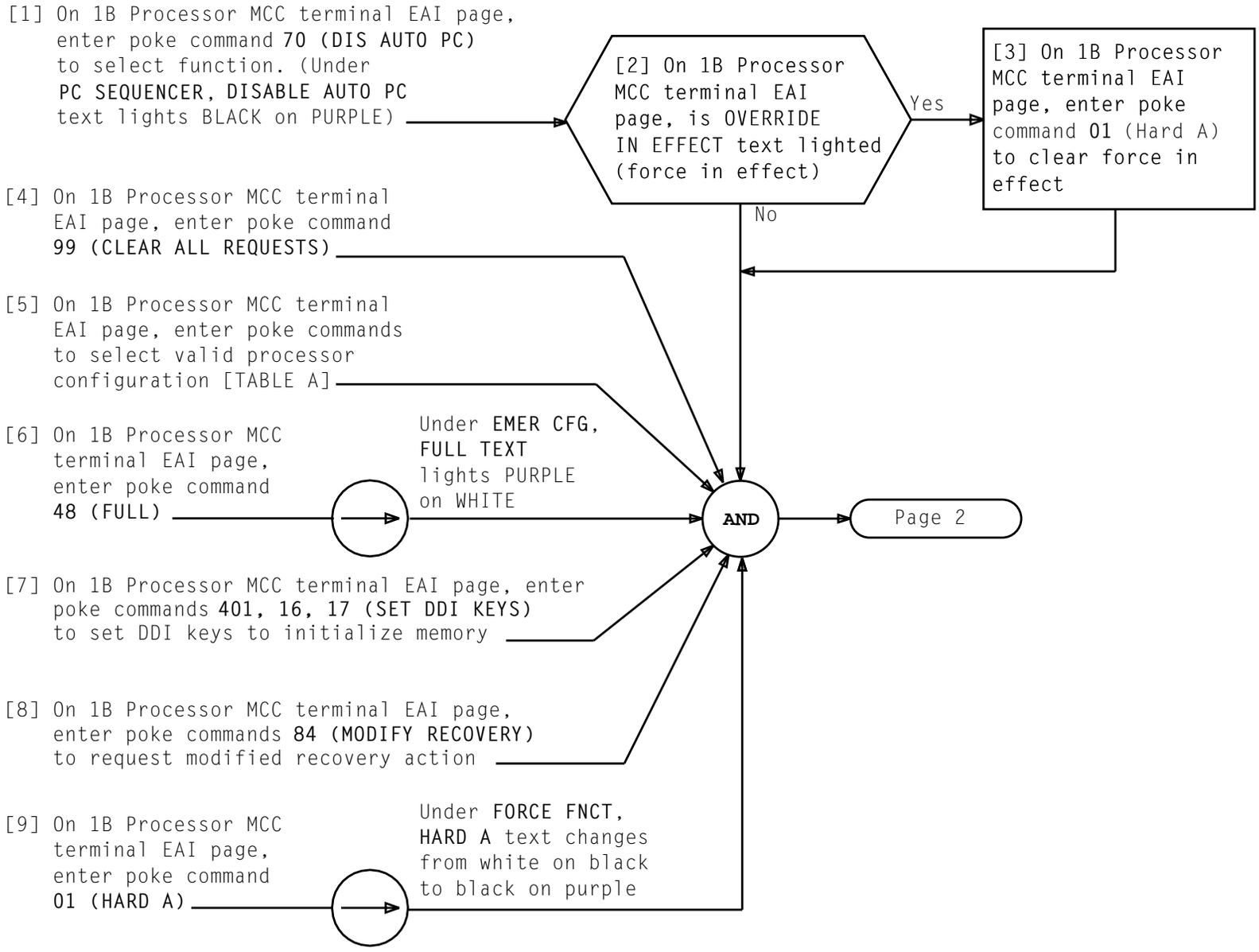


NOTE 35
 System has recovered if following conditions have been met:

- A. On 1B Processor MCC terminal EAI page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI page, PHASE IN PROG text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

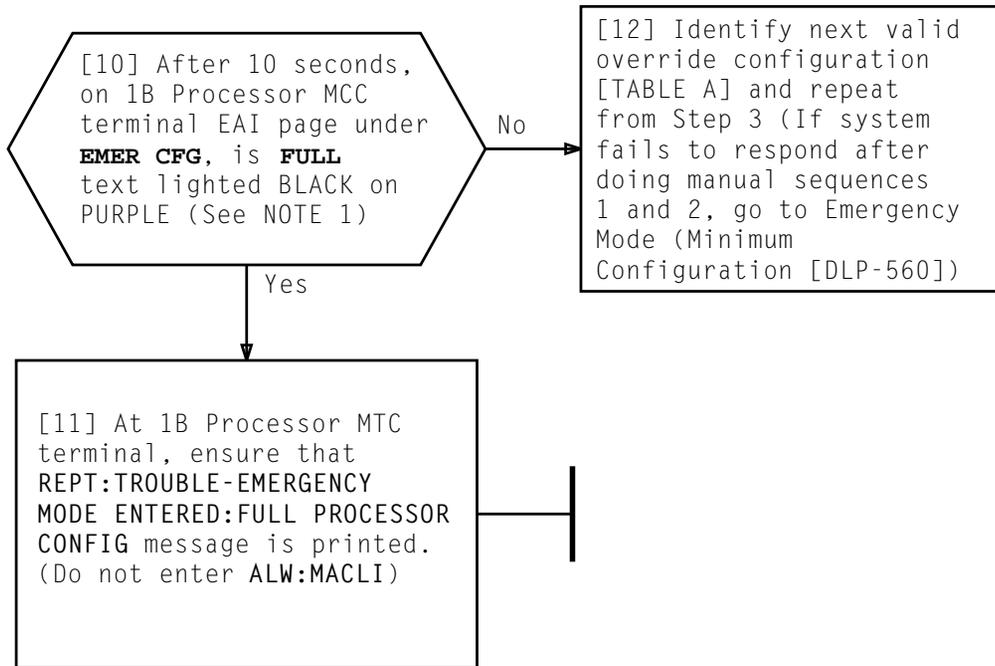
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ENTER 1B PROCESSOR EMERGENCY MODE (FULL CONFIGURATION) BY FORCING AN OVERRIDE CONFIGURATION

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

FIG. 1 - 86-CODE Field Layout

NOTE 1
 In EAI DATA DISPLAY section, octal digits "aaa" and "bbbb" [FIG. 1] in 86-CODE field must begin incrementing within 10 seconds after entering poke command 702 (RUN CC) 1B Processor. "bbbb" indicates that 1B Processor is attempting to pump and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until PC PROGRESSION - Cmpl colors BLACK on GREEN and SAM_01 fires (color WHITE on RED), approximately 2 minutes after entering poke command 702 (RUN CC). If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If 87 and 88 fields are not blank, this is a failure. If these fields are blank, the 1B Processor successfully pumped

ENTER 1B PROCESSOR EMERGENCY MODE (FULL CONFIGURATION) BY FORCING AN OVERRIDE CONFIGURATION

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TABLE A
1B PROCESSOR MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS

MANUAL CONFIG SEQUENCE	OVERRIDE CONTROL SELECTIONS												
	PC STATE	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1
1	40	10		20		22		30		40		42	
2	41		11		21		23		31		41		43

**ENTER 1B PROCESSOR EMERGENCY MODE (FULL CONFIGURATION) BY
FORCING AN OVERRIDE CONFIGURATION**

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[1] On 1B Processor MCC terminal, enter poke command **118** to obtain 1B Processor STATUS page

[2] On 1B Processor MCC terminal 1B Processor STATUS page under **FORCE FNCT**, identify active units (units with text lighted BLACK on GREEN)

[3] On 1B Processor MCC terminal, depress **EA DISP** key to obtain EAI page

[4] On 1B Processor MCC terminal EAI page, enter poke commands to select active units

Under **FORCE FNCT**, selected units text lights PURPLE on WHITE

AND

[5] On 1B Processor MCC EAI page under **EMER CFG**, is **FULL** or **MIN** text lighted

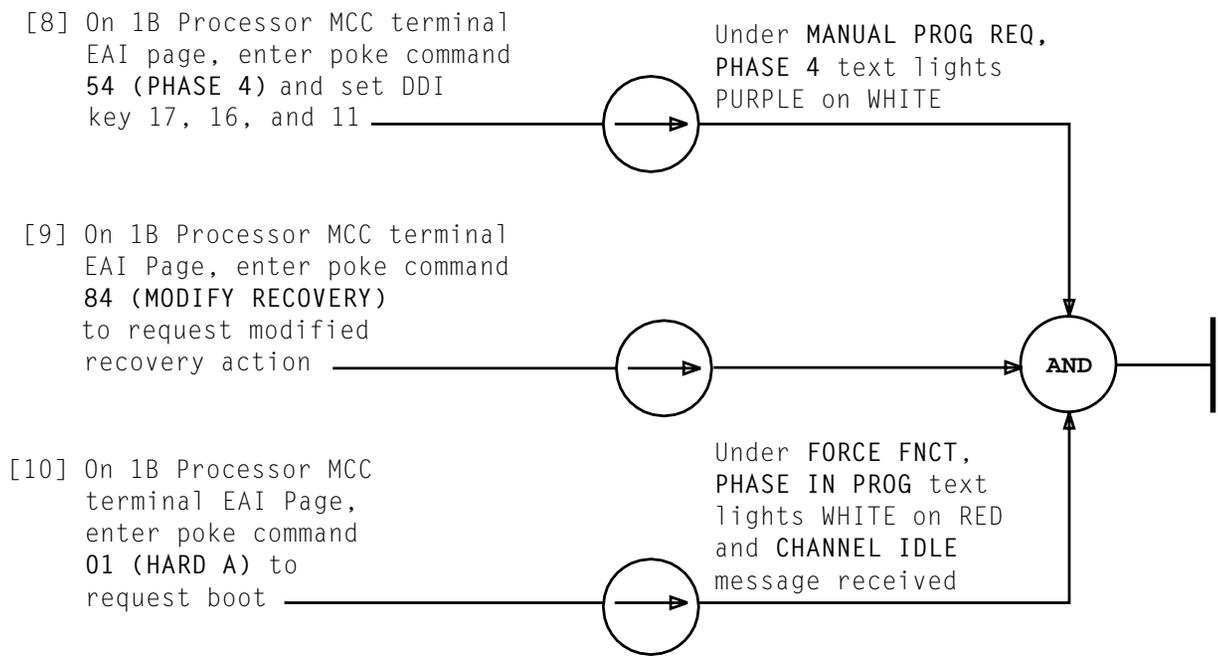
FULL

[6] On 1B Processor MCC EAI page, enter poke command **48** to release request
Response: **FULL** text lights light BLUE on RED

MIN

[7] At 1B Processor MCC EAI page, enter poke command **49** to release request
Response: **MIN** text lights light BLUE on RED

Page 2



[1] At 1B Processor MCC terminal, depress
EA DISP key to obtain EAI page

[2] On 1B Processor MCC terminal EAI
page, enter poke command
84 (MODIFY RECV)

[3] On 1B Processor MCC terminal EAI page,
enter poke command **402** to set all
bits to zero

[4] On 1B Processor MCC terminal EAI
page, enter poke command
401, XX, XX to set
applicable bits to 1 for
modified recovery action [TABLE A]

[5] On 1B Processor MCC
terminal EAI page,
enter poke command
53 (PHASE 3)

Under **MANUAL PROG REQ**,
PHASE 3 text lights
PURPLE on **WHITE**

[6] On 1B Processor MCC
terminal EAI page,
enter poke command
02 (SOFT A)

Under **MANUAL PROG REQ**,
PHASE IN PROG
text lights
BLACK on **PURPLE**

AND

PERFORM 1B PROCESSOR MODIFIED RECOVERY ACTION

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TABLE A					
DIRECT DATA INSERT BIT OPTIONS (MCD REGISTER)					
BIT	OPTION	APPLICATION	BIT	OPTION	APPLICATION
00	SET ALL INH	PH 2, 3, 4	16	ZERO ALL MEMORY	A0, PC (pump)
01	RB RC TO TAPE 1	PH 3, 4	17	SKIP HASHSUM CALCULATION	SR, A0, PC
02	RB RC TO TAPE 2	PH 3, 4	18	BYPASS CC SANITY TESTS	SR, PC
03	RB RC NO OF ORDRS IN DIS 1 (940)	PH 2, 3, 4	19	INH TAPE ERROR CORRECTION (4E21 AND EARLIER)	-
04	RB RC TO ORNU IN DIS 1 (940)	PH 2, 3, 4			
05	CLEAR SPECIFIC DISK AREAS	PH 3, 4	20	INH MAP AUDITS	-
06	CLEAR NTKW MGMT CONTROLS	PH 2, 3, 4	21	INH STORE ACCESS TESTS	SR, A0, PC (pump)
07	INITIALIZE TRK OOS LIST	PH 3, 4	22	READ & VERIFY DISK DATA IN SR	SR
08	RESERVED	-	23	ALW DUPLEX APS FAILURE IN SR	SR
09	RESERVED	-	24	RESERVED	-
10	RESERVED	-	25	RESERVED	-
11	RST DUPLEX FAILED CONTRS	PH 3	26	RESERVED	-
12	RESERVED	-	27	RESERVED	-
13	RESERVED	-	28	RESERVED	-
14	ALLOW DUPLEX FAILED PUBB	PC, SR	29	RESERVED	-
15	MULTIPLE TAPE SR (4E21 AND EARLIER)	SR	30	RESERVED	-
			31	RESERVED	-

SR - System Reinitialization; PC - Processor Configuration; A0 - Activate Override

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[1] At 1B Processor MCC terminal,
depress **EA DISP** key to obtain
EAI page

[2] On 1B Processor MCC terminal
EAI page, ensure
OVERRIDE IN EFFECT text is
not lighted

[3] On 1B Processor MCC terminal
EAI page, enter poke command
70 (DIS AUTO PC) to select function

[4] On 1B Processor MCC terminal EAI page
under **MANUAL PROG REQ**, ensure no
commands are activated

[5] On 1B Processor MCC terminal
EAI page, enter poke command
48 (FULL)

Under EMER CFG,
FULL text lights
PURPLE on WHITE

[6] On 1B Processor MCC terminal EAI page, enter
poke commands 401, 11 (SET MRA KEYS) to set MRA
to initialize memory

[7] On 1B Processor MCC terminal EAI page, enter
poke command 84 (MODIFY RECOVERY) to
request modified recovery action

[8] On 1B Processor MCC terminal
EAI page, enter poke command
03, 10 (SET PC STATE) to set
PC state to octal 10

AND

AND

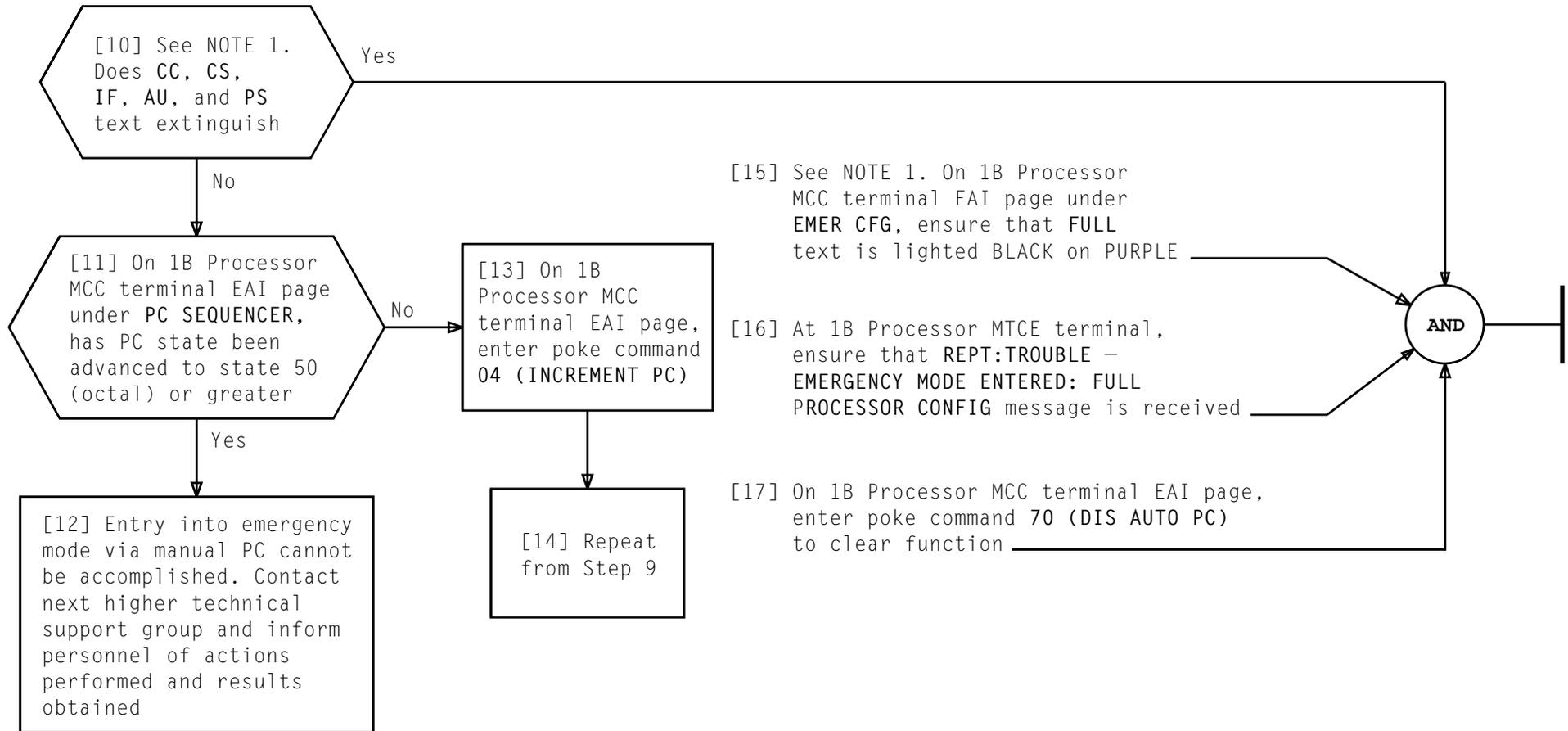
Emergency mode
selected and
PC in progress

[9] On 1B Processor
MCC terminal
EAI page under
PC PROGRESSION,
observe CC, CS, IF,
AU, and PS text

Page 2

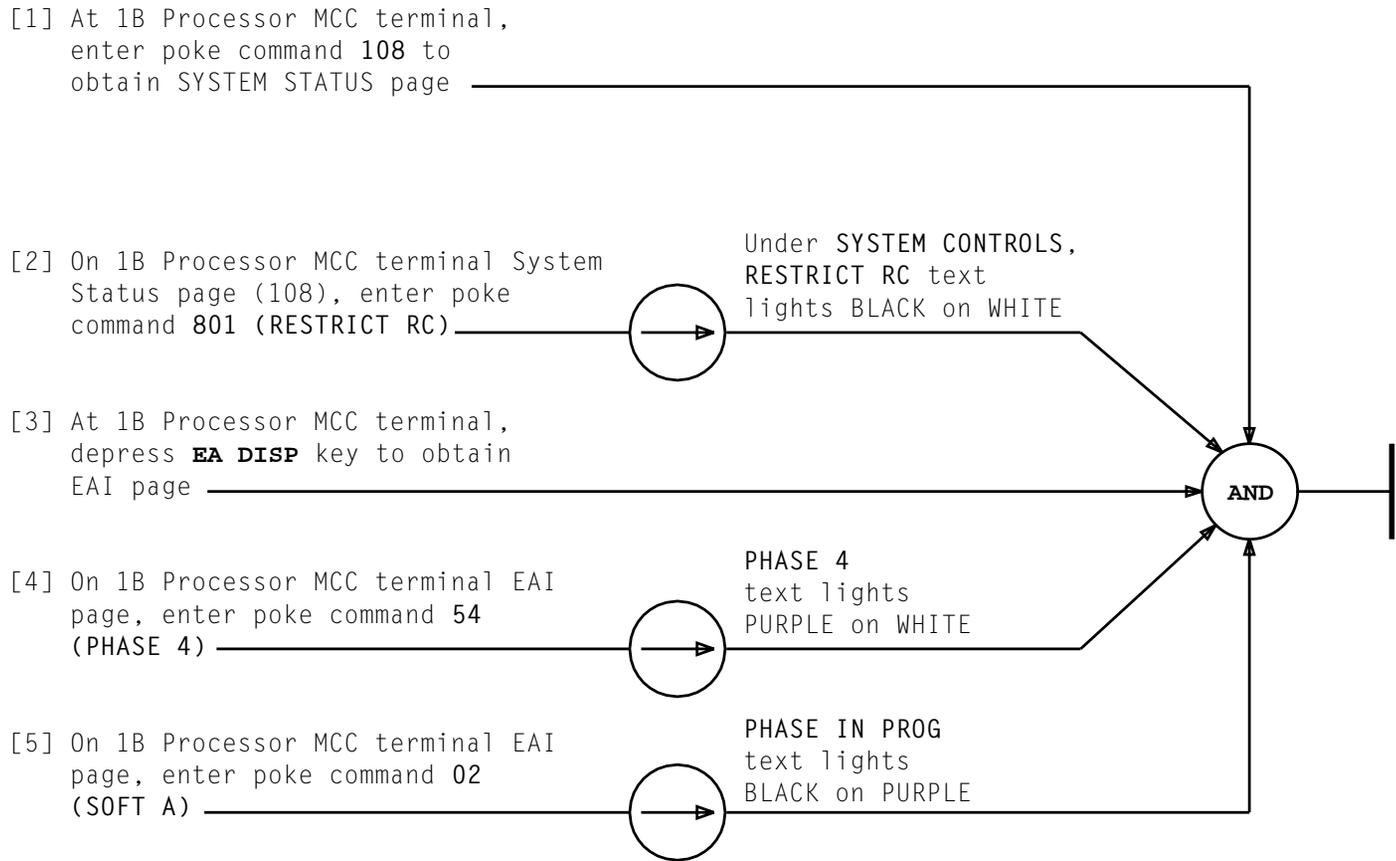
ENTER 1B PROCESSOR EMERGENCY MODE (FULL CONFIGURATION) BY MANUALLY TRIGGERING PROCESSOR CONFIGURATION (PC) SEQUENCER

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ENTER 1B PROCESSOR EMERGENCY MODE (FULL CONFIGURATION) BY MANUALLY TRIGGERING PROCESSOR CONFIGURATION (PC) SEQUENCER

NOTE 1 It can take up to 50 seconds for conditions to occur.	
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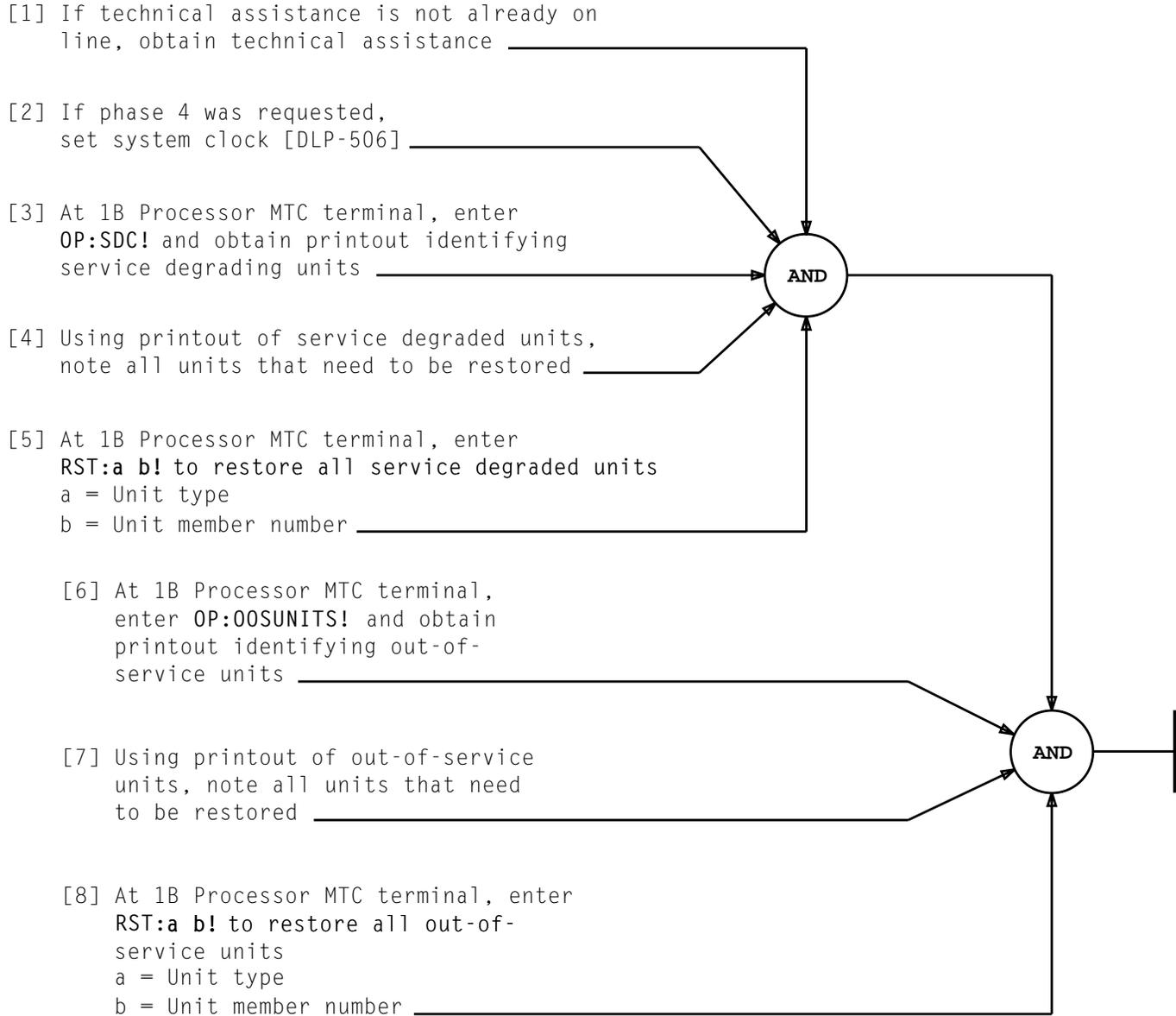


REQUEST 1B PROCESSOR INITIALIZATION PHASE (PHASE 4)

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- [1] If technical assistance is not already on line, obtain technical assistance _____
- [2] If phase 4 was requested, set system clock [DLP-506] _____
- [3] At 1B Processor MTC terminal, enter **OP:SDC!** and obtain printout identifying service degrading units _____
- [4] Using printout of service degraded units, note all units that need to be restored _____
- [5] At 1B Processor MTC terminal, enter **RST:a b!** to restore all service degraded units
a = Unit type
b = Unit member number _____

- [6] At 1B Processor MTC terminal, enter **OP:OOSUNITS!** and obtain printout identifying out-of-service units _____
- [7] Using printout of out-of-service units, note all units that need to be restored _____
- [8] At 1B Processor MTC terminal, enter **RST:a b!** to restore all out-of-service units
a = Unit type
b = Unit member number _____



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RESTORE 1B PROCESSOR CONDITIONS FOLLOWING PHASE 3 OR 4

[1] See CAUTION 1 and NOTE 1. At 1B Processor MTC terminal, type, but do not enter:

SET:CLK:DAY a,DATE b,TIME cde!

(complete all entries except minutes and seconds)

a = Day (SUN, MON, TUE, WED, THU, FRI or SAT)

b = Date (6-digit number, MMDDYY)

c = Hour (2-digit number, 01 to 24)

d = Minutes (2-digit number, 00 to 59)

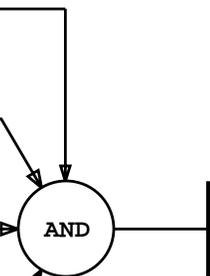
e = Seconds (2-digit number, 00 to 59)

[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.

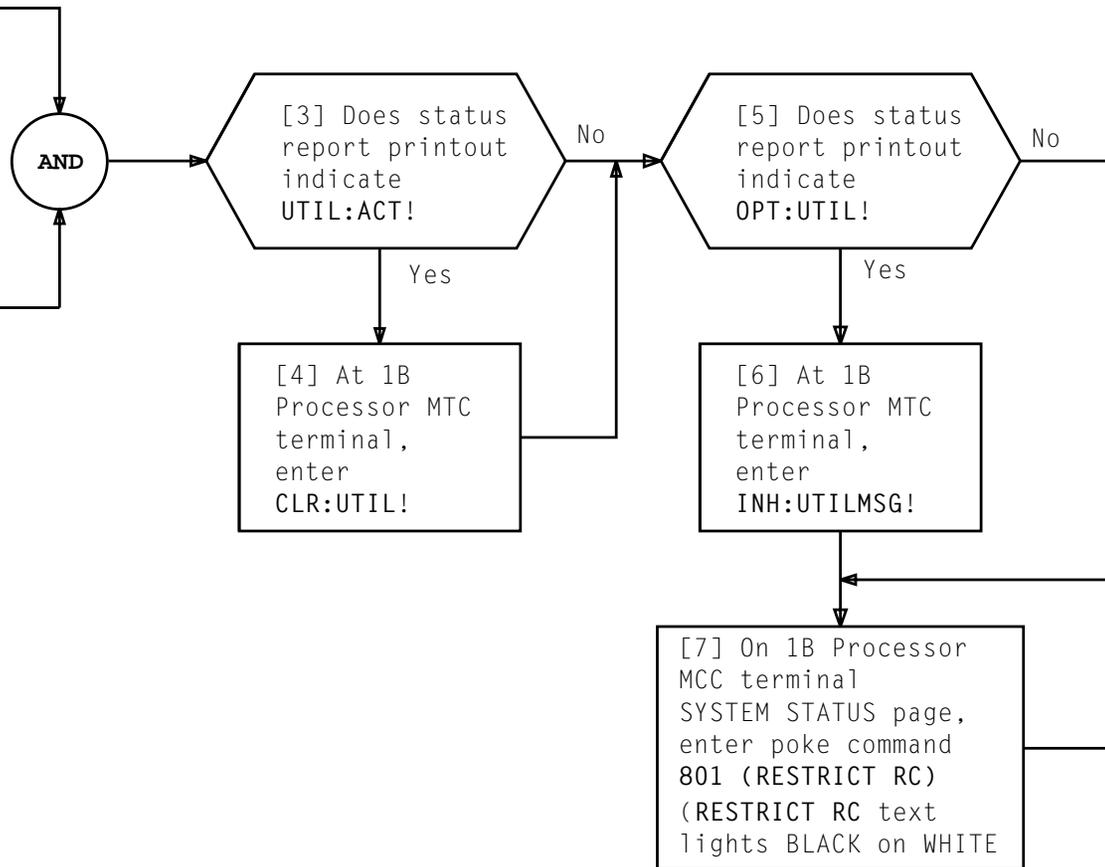
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[1] At 1B Processor MCC terminal, enter poke command 108 to obtain SYSTEM STATUS page

[2] On 1B Processor MCC terminal SYSTEM STATUS page, enter poke command 811 (PGM CNTL OFF NORM) to obtain status report printout



SUMMARY

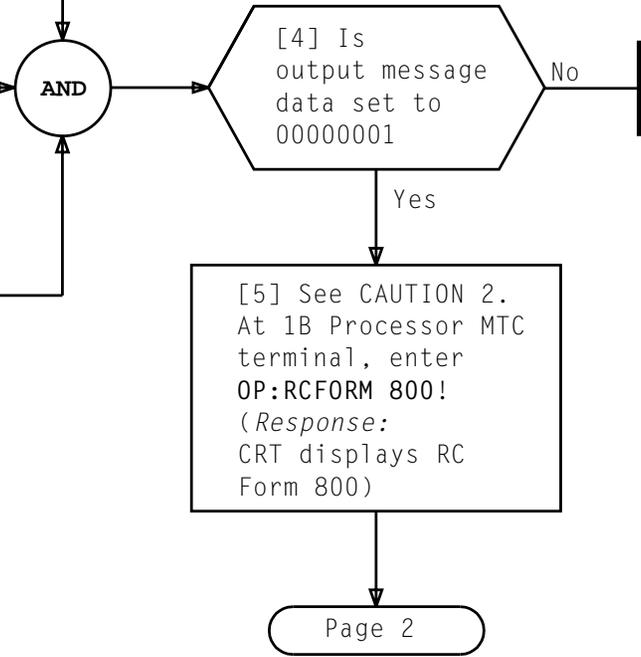
Assure that office is officially cut over and first set of trunks are turned up. Using 1B Processor MTC terminal, verify office status translator word address and verify that rightmost octal digit is 1. Request RC Form 800. Complete RC

Form 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.

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

[2] Contact technical support group and obtain office status translator word address _____

[3] At 1B Processor MTC terminal, enter VER:ABSOLUTE:ADR a,CORE!
a = Office status translator word address _____



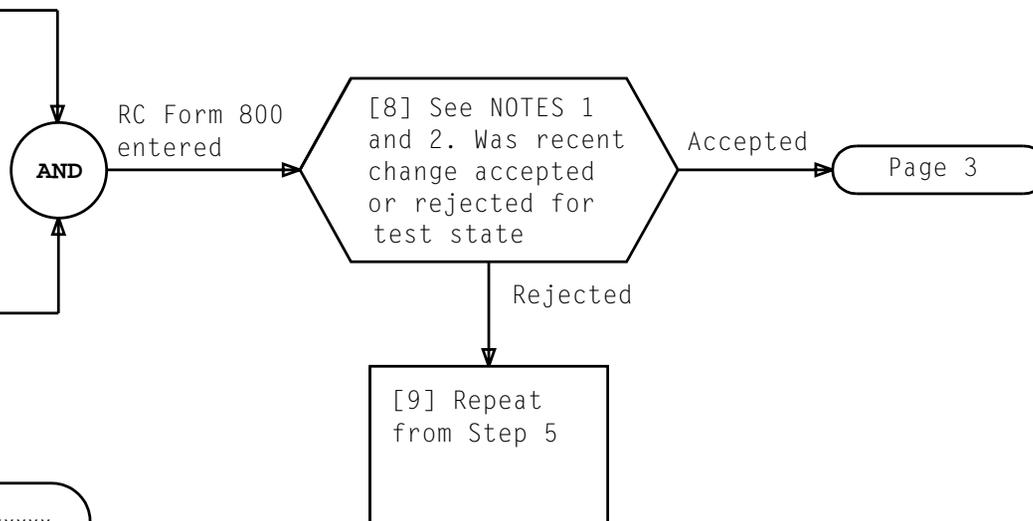
CAUTION

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

PERFORM 1B PROCESSOR RECENT CHANGE TO CHANGE OFFICE STATUS TRANSLATOR TO POST-CUTOVER STATE

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

[7] Depress Enter (return) key to
 submit RC Form 800



```

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

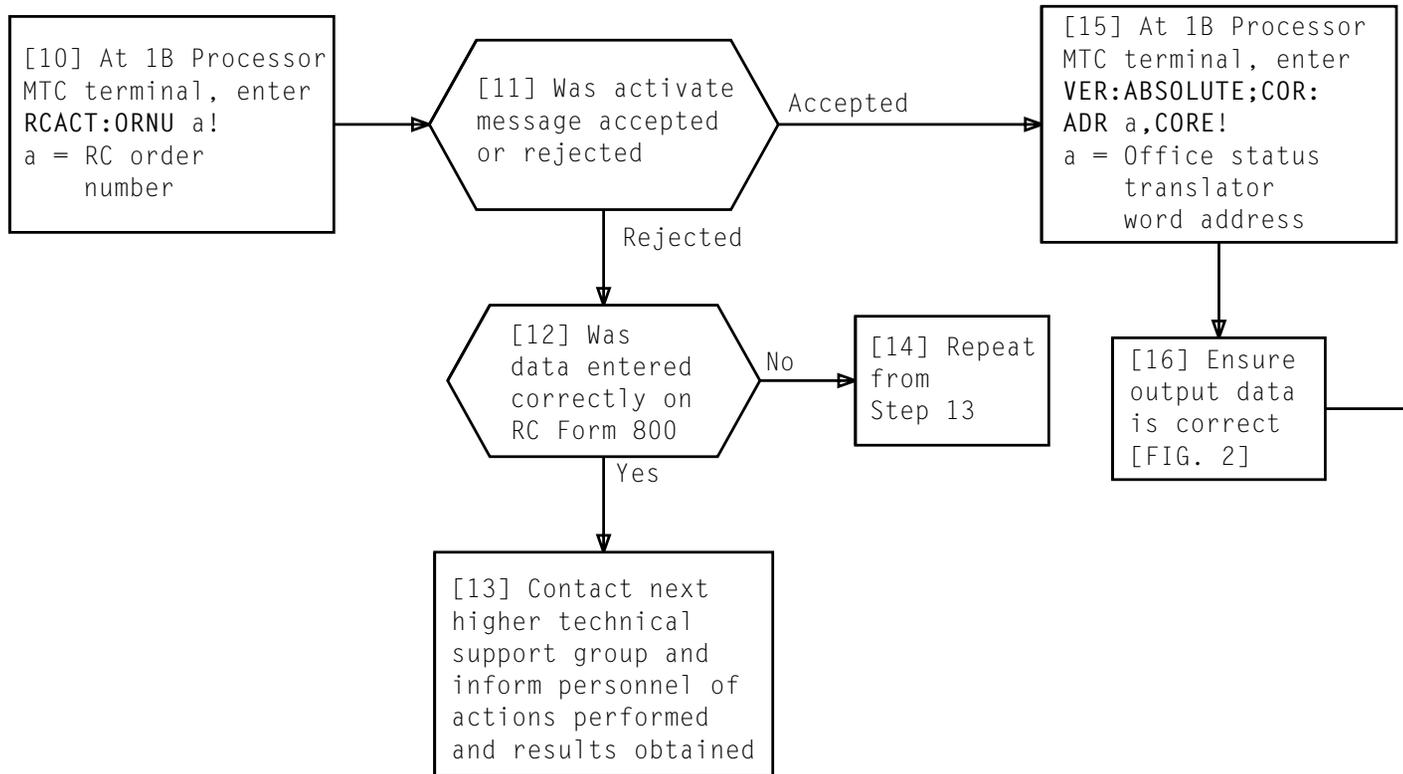
FIG. 1 - Blank CRT Display of RC Form 800

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 1B PROCESSOR RECENT CHANGE TO CHANGE OFFICE STATUS TRANSLATOR TO POST-CUTOVER STATE

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OFFICE STATUS
TRANSLATOR
WORD ADDRESS

```

VER:ABSOLUTE,OPT (CUR,CORE):
ADDRESS      CONTENTS
XXXXXXXXX    00000000
  
```

FIG. 2 - Sample Printout of Verify Output Message

PERFORM 1B PROCESSOR RECENT CHANGE TO CHANGE OFFICE STATUS TRANSLATOR TO POST-CUTOVER STATE

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[1] Notify next higher technical support group of activity to be performed _____

[2] At 1B Processor MTC terminal, enter RMV:TGR a,TER b!
a = TGR member number
b = Terminal number _____

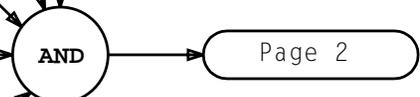
[3] At 1B Processor MTC terminal, enter MON:IAOFC,NEW;ADD:IA IDB,TIMEON x, TIMEOFF x,FHC 289!
x = Time of day _____

[4] At 1B Processor MTC terminal, 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] At 1B Processor MTC terminal, enter OP:SLKSTAT;DS! _____

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



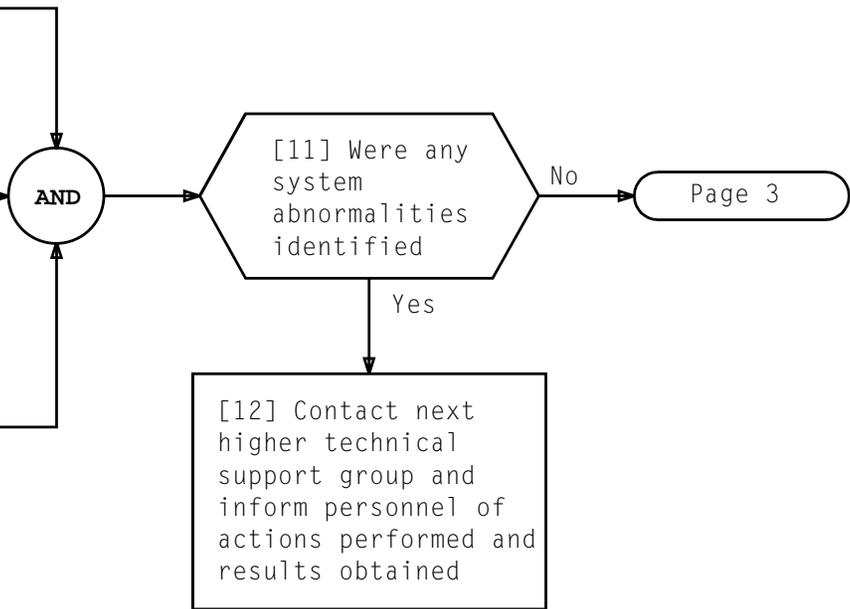
**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

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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] At 1B Processor MCC terminal, enter poke command 108 to obtain SYSTEM STATUS page

[10] On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, monitor indicators to identify any thresholds that may be exceeded due to abnormal system performance



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

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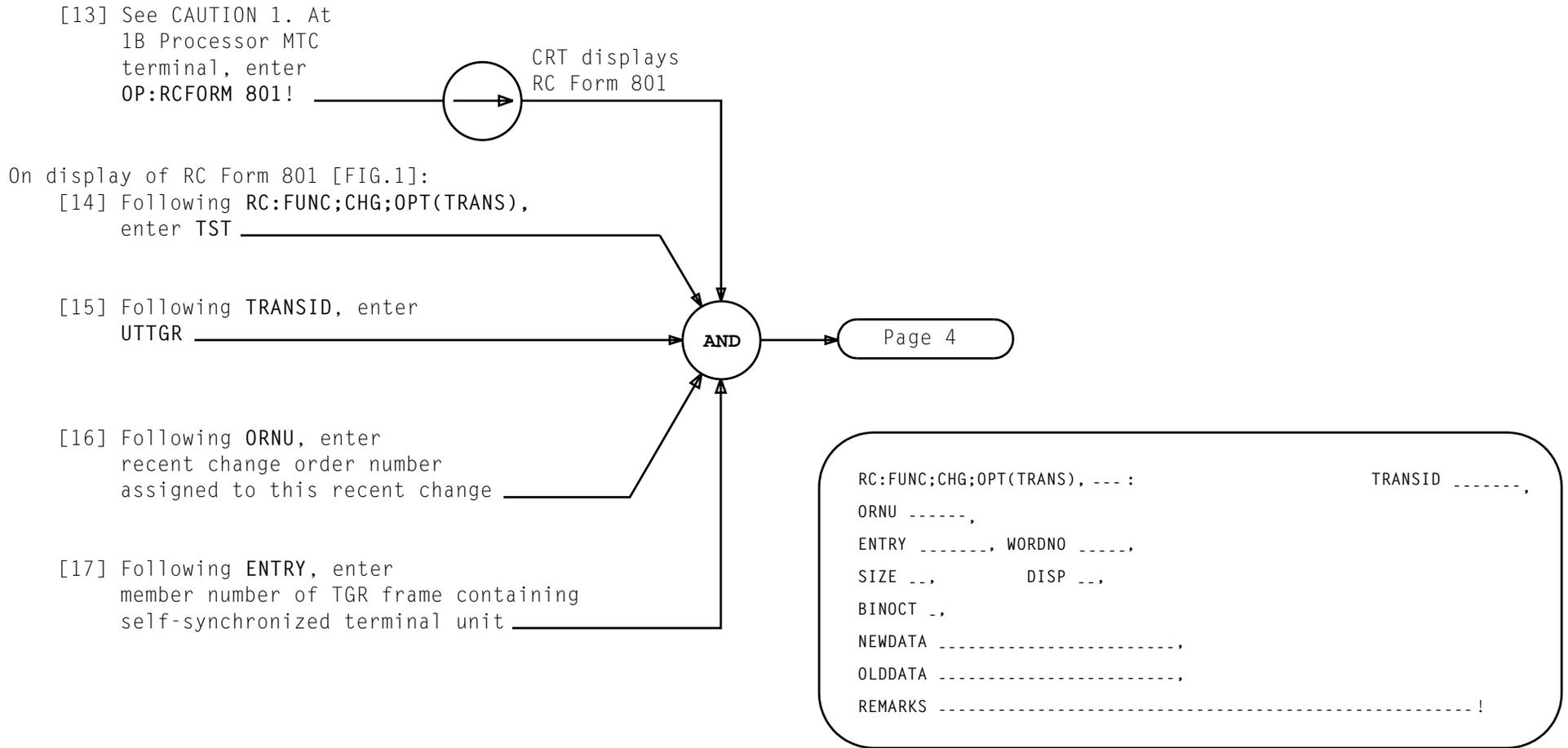


FIG. 1 - Blank CRT Display of RC Form 801

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

<i>CAUTION 1 Calling up RC form will cause all CRT data to be cleared</i>	
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[18] Using TABLE A, determine UTMN decimal word corresponding to self-synchronized terminal unit

[19] Following WORDNO, enter identified UTMN decimal word

[20] Following SIZE, enter 1

[21] Following DISP, enter 23

[22] Following BINOCT, enter B

[23] Following NEWDATA, enter 0

[24] Following OLDDATA, enter 1

[25] Depress ENTER Key (return) to Submit RC Form 801

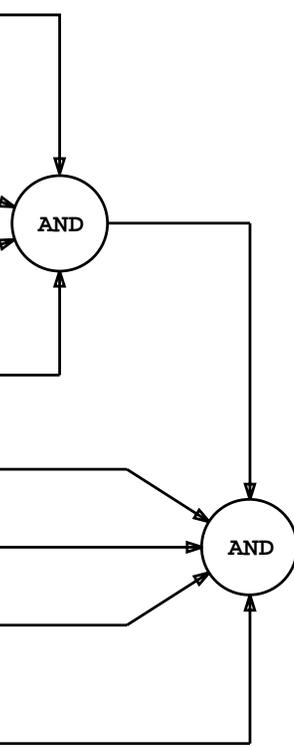
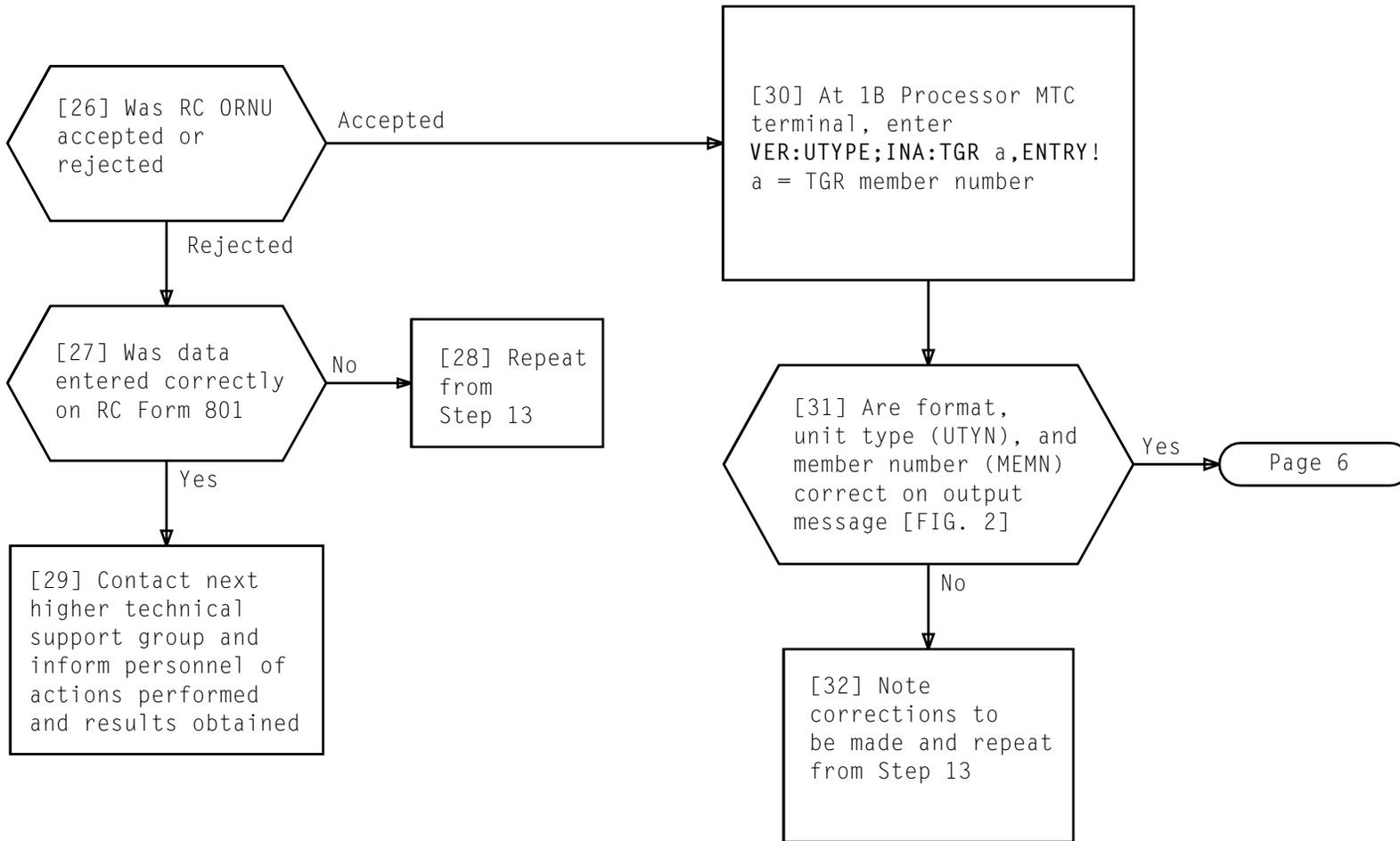


TABLE A			
SELF-SYNCHRONIZED TERMINAL UNIT	UTMN DECIMAL WORD	SELF-SYNCHRONIZED TERMINAL UNIT	UTMN DECIMAL WORD
0	18	8	50
1	22	9	54
2	26	10	58
3	30	11	62
4	34	12	66
5	38	13	70
6	42	14	74
7	46	15	78

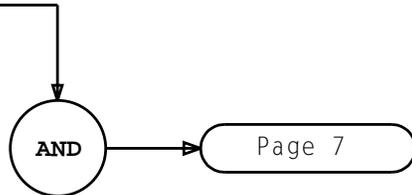
PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR TERMINAL UNIT LOOP DATA



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**

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



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

TABLE B			
SELF-SYNCHRONIZED TERMINAL UNIT	OCTAL WORD	SELF-SYNCHRONIZED TERMINAL UNIT	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

```

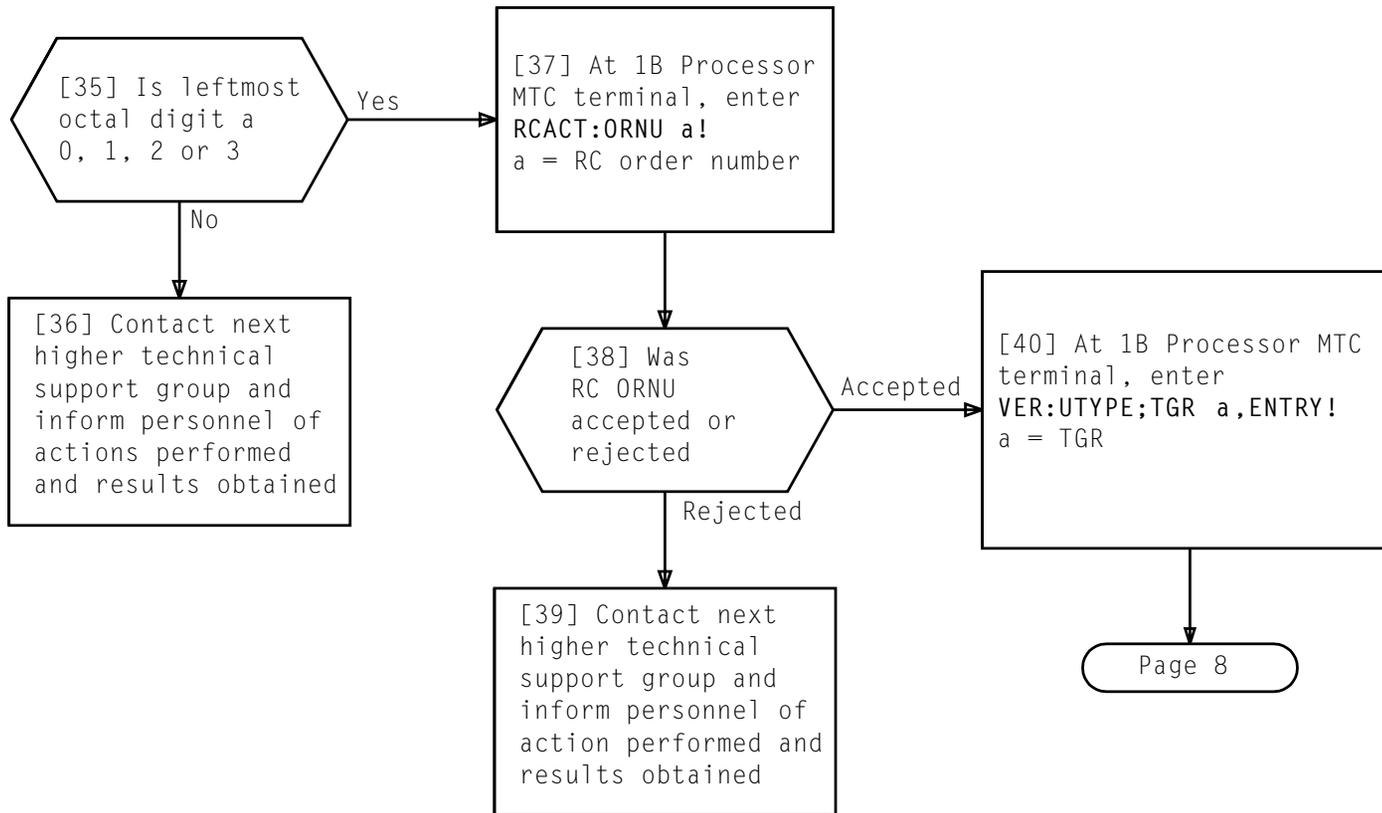
M 11 VER:UTMN;OPT(ENTRY),INA:      FLN 32004.02  UTYN TGR
MEMN 0 ME OPER,
ENTRY ADDRESS 07623144,  ENTRY SIZE 81,
INA
WORD 0 10607777 04010002 00001660 20002440
        00002444 00011660 00002700 00002704
WORD 10 00000000 00000000 00000000 00002460
        00002720 00002400 00002420 00011100
WORD 20 00011120 00420366 00020367 02020370
        00000001 00420166 00020167 02020170
WORD 30 10000003 01420242 00020243 04000000
        10000002 01420245 00020246 04000000
WORD 40 14000405 01420245 00020246 04000000
        14000404 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
01/01/00 09:11:50

#966
  
```

FIG. 2 - Sample Verify Message (Inactive Translations)

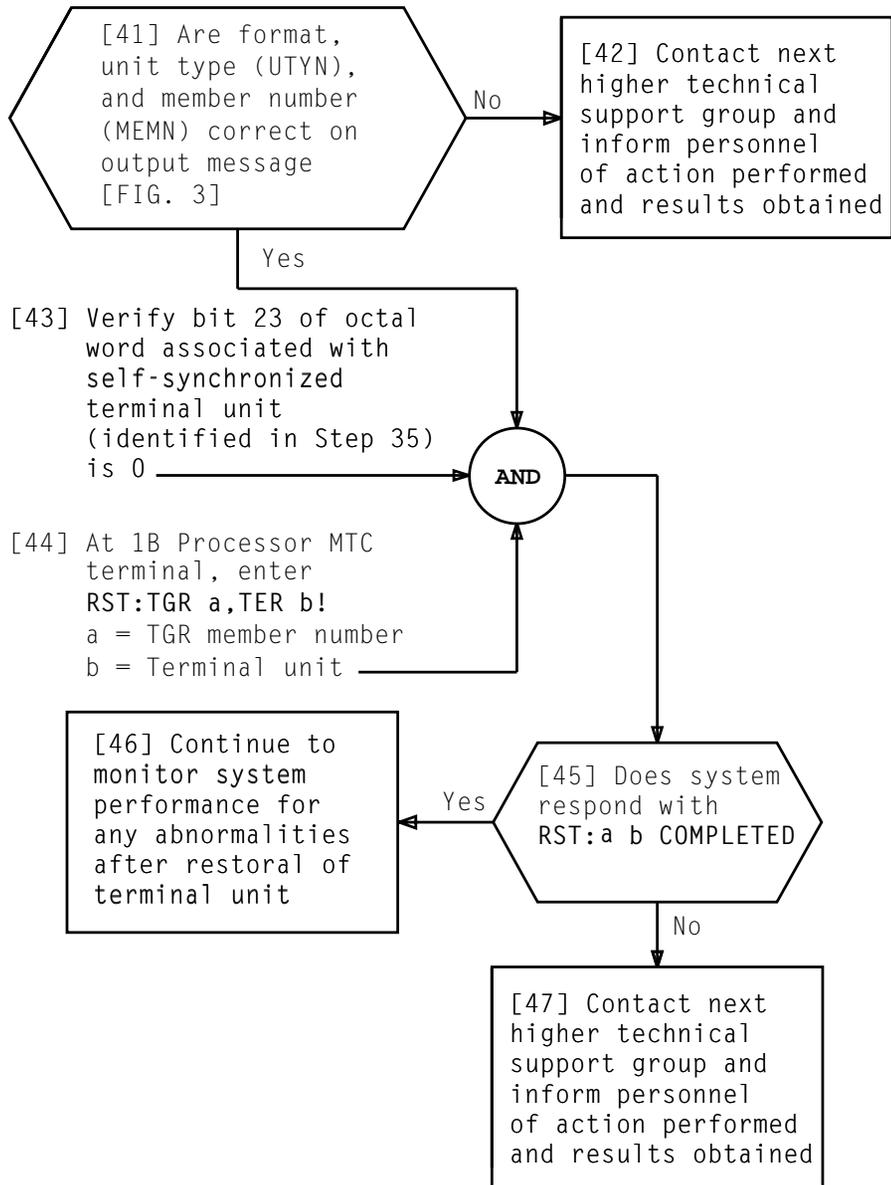
**PERFORM RECENT CHANGE TO CHANGE FUNCTIONAL WORD OF TGR
TERMINAL UNIT LOOP DATA**

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

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MEMBER NUMBER	OCTAL WORD 25	OCTAL WORD 26	UNIT TYPE
M 11	VER:UTMN;OPT(ENTRY),CUR:	FLN 3200/4.0/2	UTYN TGR
MEMN 0	ME OPER,	ENTRY ADDRESS 07623144,	ENTRY SIZE 81,
INA			
WORD 0	10607777 04010002	00001660	20002440
	00002444	00011660	00002700
WORD 10	00000000	00000000	00000000
	00002720	00002400	00002420
WORD 20	00011120	00420366	00020367
	00000001	00420166	00020167
WORD 30	10000003	01420242	00020243
	10000002	01420245	00020246
WORD 40	14000405	01420245	00020246
	14000404	00000000	00000000
WORD 50	00000000	00000000	00000000
	00000000	00000000	00000000
WORD 60	00000000	00000000	00000000
	00000000	00000000	00000000
WORD 70	00000000	00000000	00000000
	00000000	00000000	00000000
WORD 10	00000000	00000000	00000000
	00000000	00000000	00000000
WORD 11	00000000	00000000	00000000
	00000000	00000000	00000000
WORD 12	00000000	00000000	00000000
	010100	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**

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, 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 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 Enter password

Response: Enter subpassword:

2.5 Enter subpassword

Response: Enter up to 5 initials

2.6 Enter your name or initials up to 5 characters

Response: Welcome to the time share support system

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 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

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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

- (c) For all BWMs associated with a specific generic issue within a given range of BWMs, 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

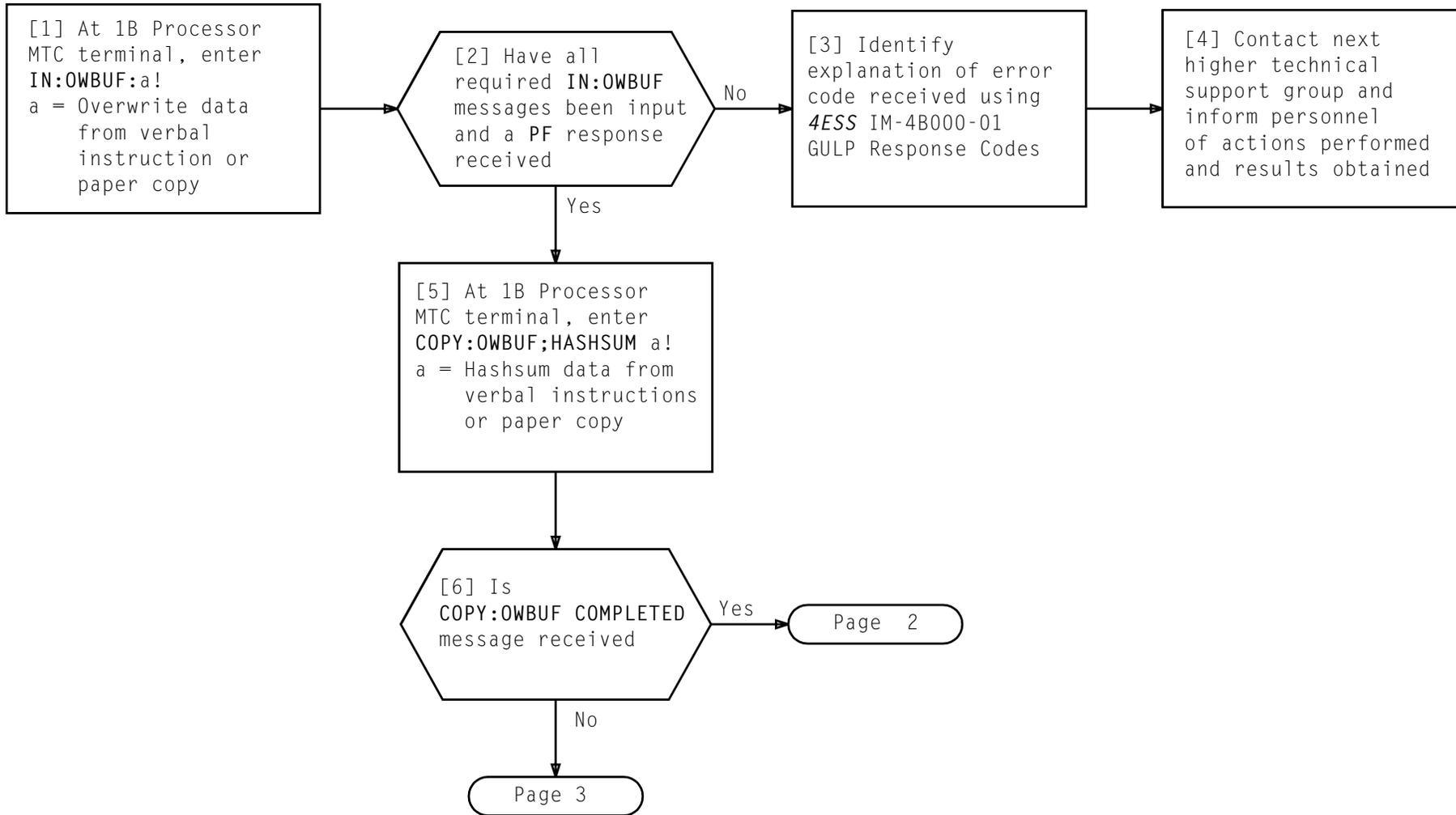
Response: Printout of all BWMs associated with the specified generic issue within the given range of BWMs received

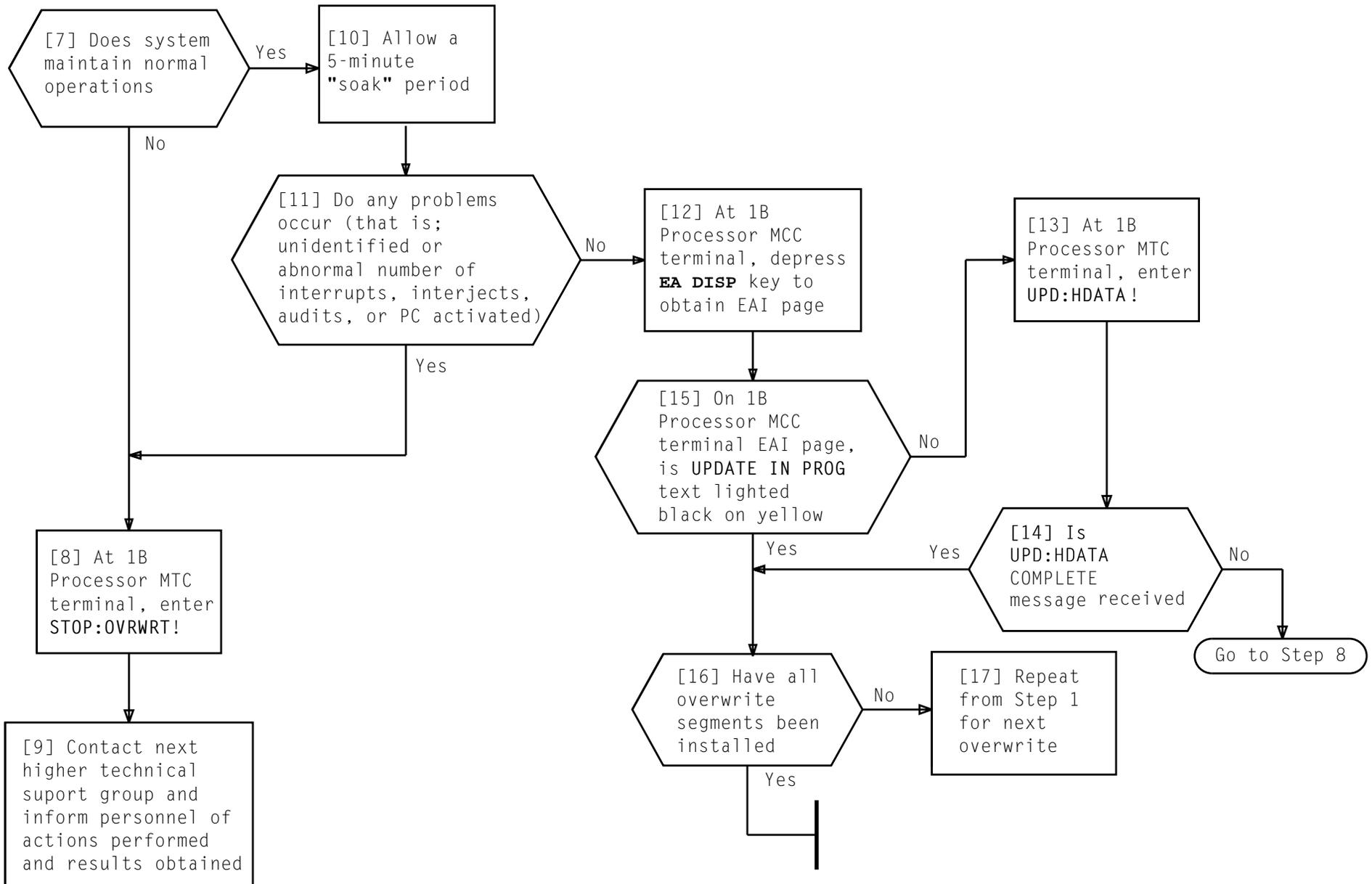
2. Procedure

End of procedure

- 2.1 Enter appropriate message to print desired BWMs:
 - (a) For a specific BWM, 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, 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

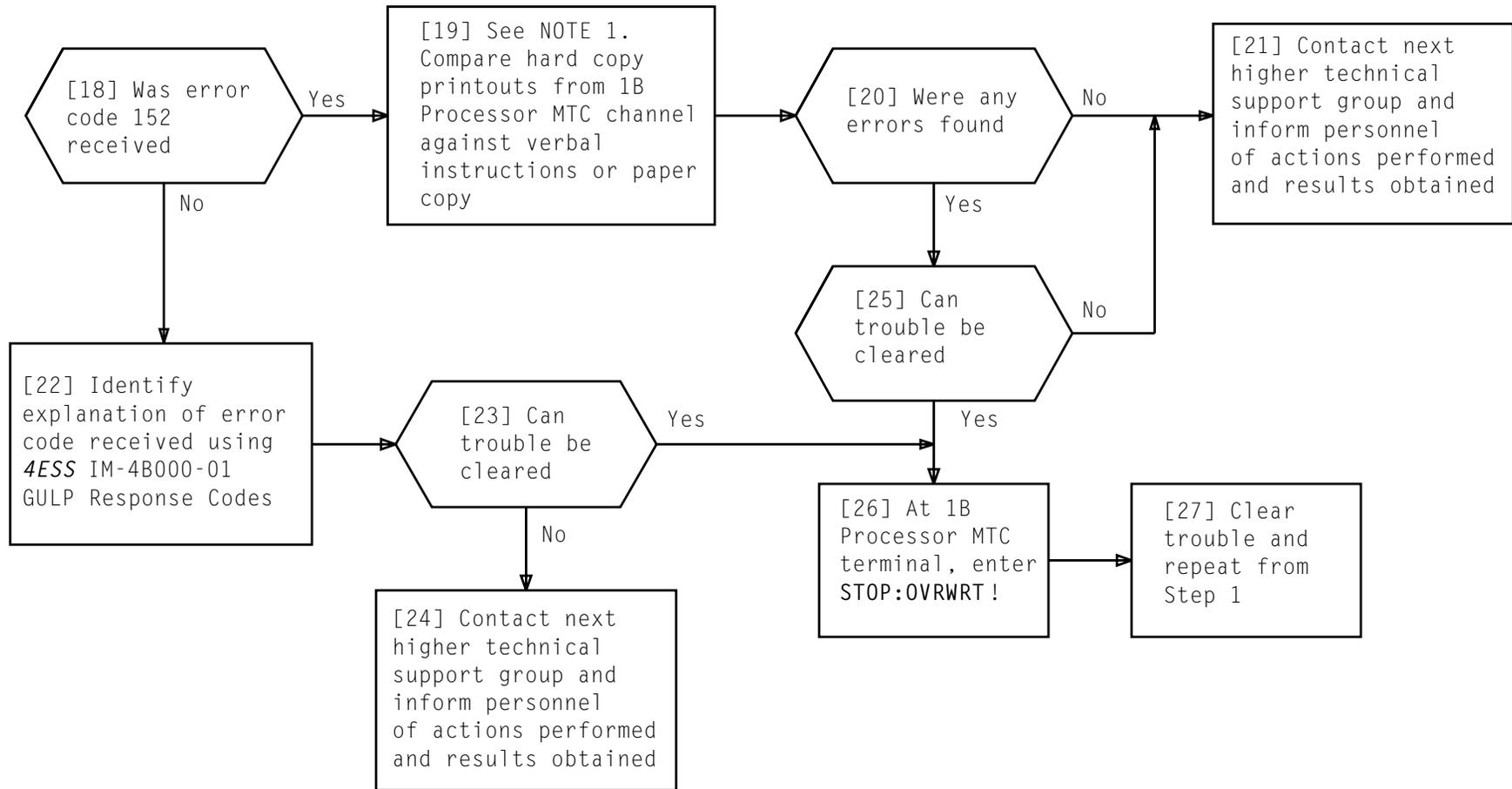
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INSTALL 1B PROCESSOR MANUAL OVERWRITES USING VERBAL INSTRUCTIONS OR PAPER COPY AS SOURCE

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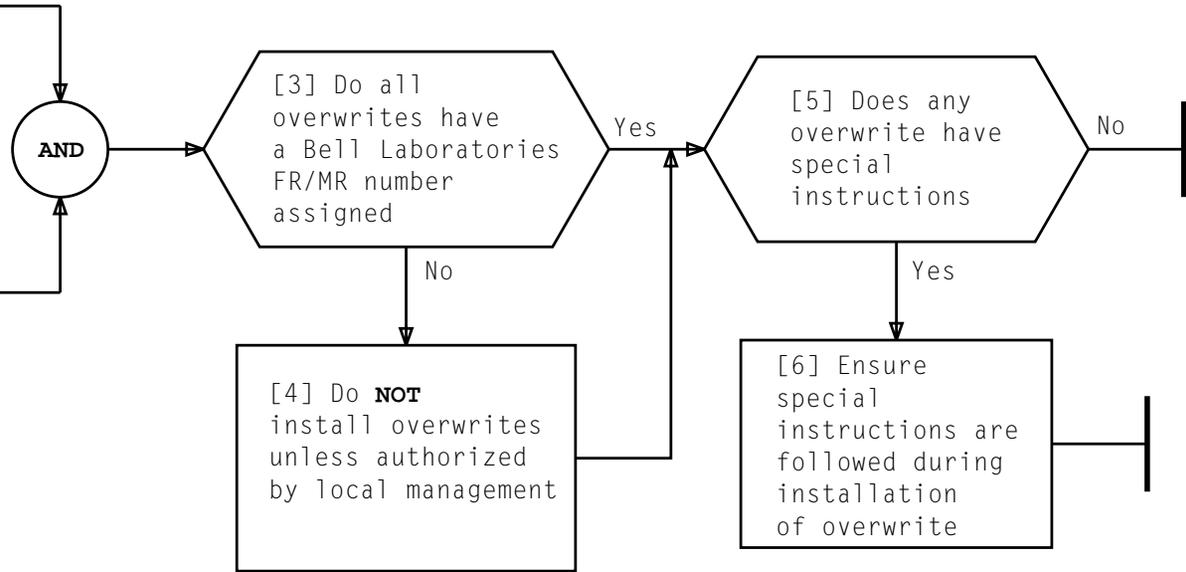


NOTE 1	
Hash sum failed indicating that OLD DATA and NEW DATA in overwrite buffer does not agree with hash sum calculated	
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INSTALL 1B PROCESSOR MANUAL OVERWRITES USING VERBAL INSTRUCTIONS OR PAPER COPY AS SOURCE

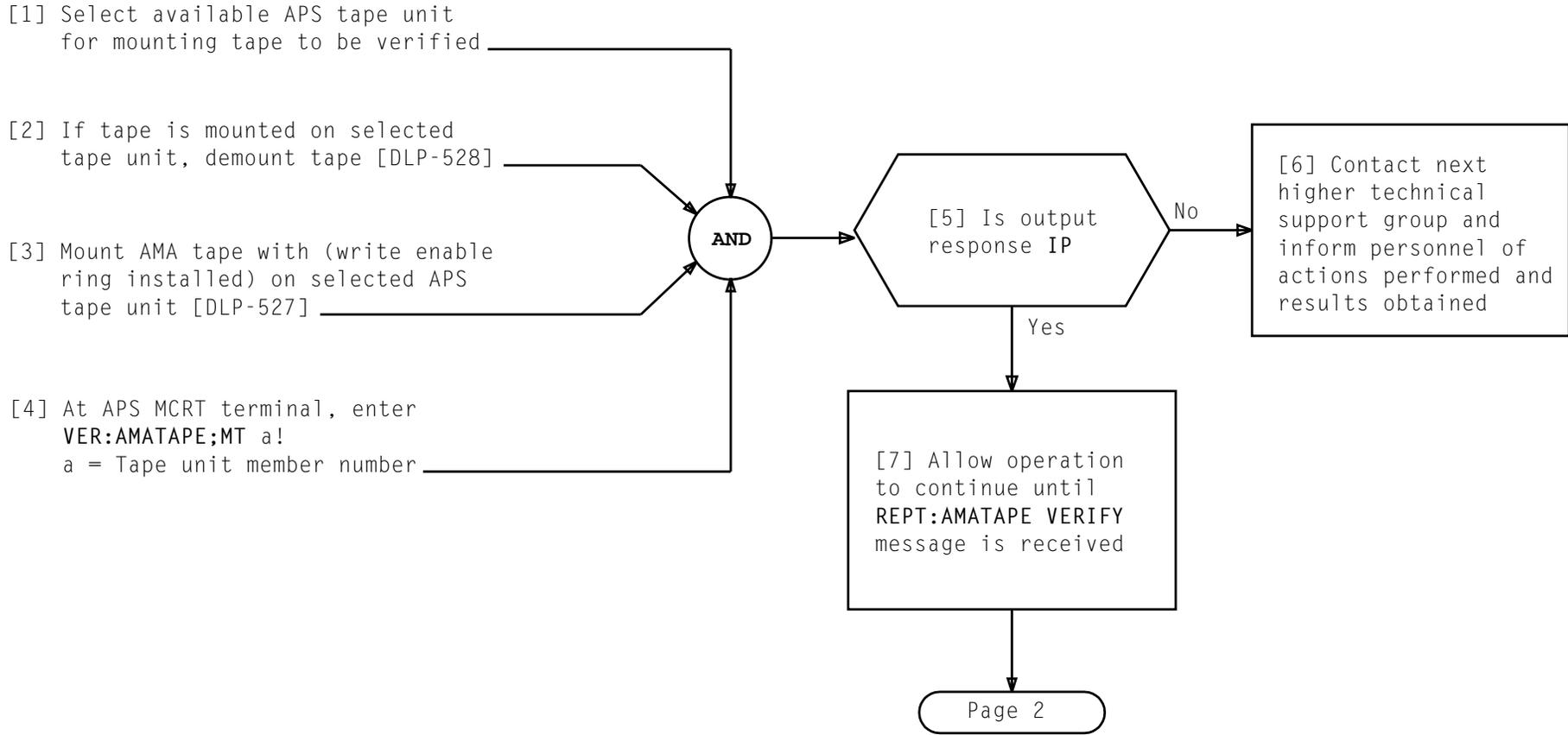
[1] Ensure local support organization is notified when overwrites are ready for installation

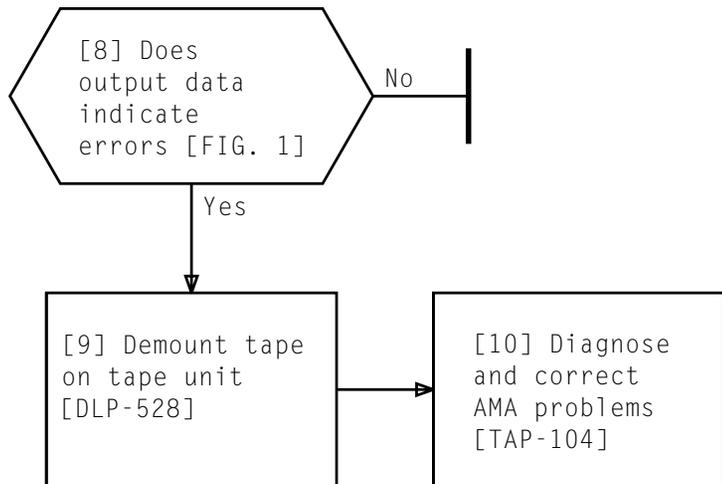
[2] Ensure all overwrites have a Bell Laboratories FR/MR number assigned



CHECK 1B PROCESSOR MANUAL OVERWRITES FOR SPECIAL INSTRUCTIONS AND NEEDED AUTHORIZATION

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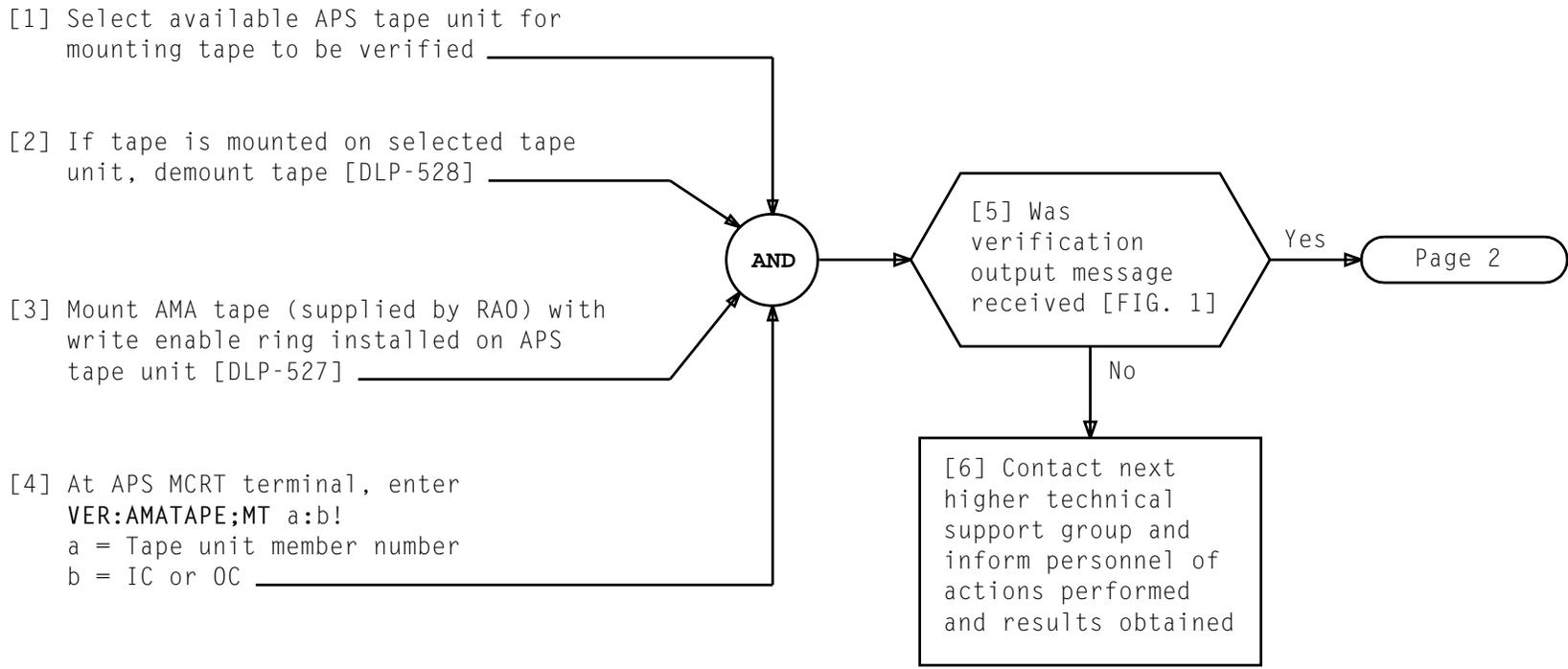


TEXT
PHRASE
STATEMENT

```

REPT AMATAPE VERIFY FOR IC STREAM
VOL SER NUMBER 6.306
DATA SET ID 123456789987654
EXPIRATION DATE 92-356
TAPE DRIVE NUMBER 2
AMA TAPE CAN BE WRITTEN
  
```

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



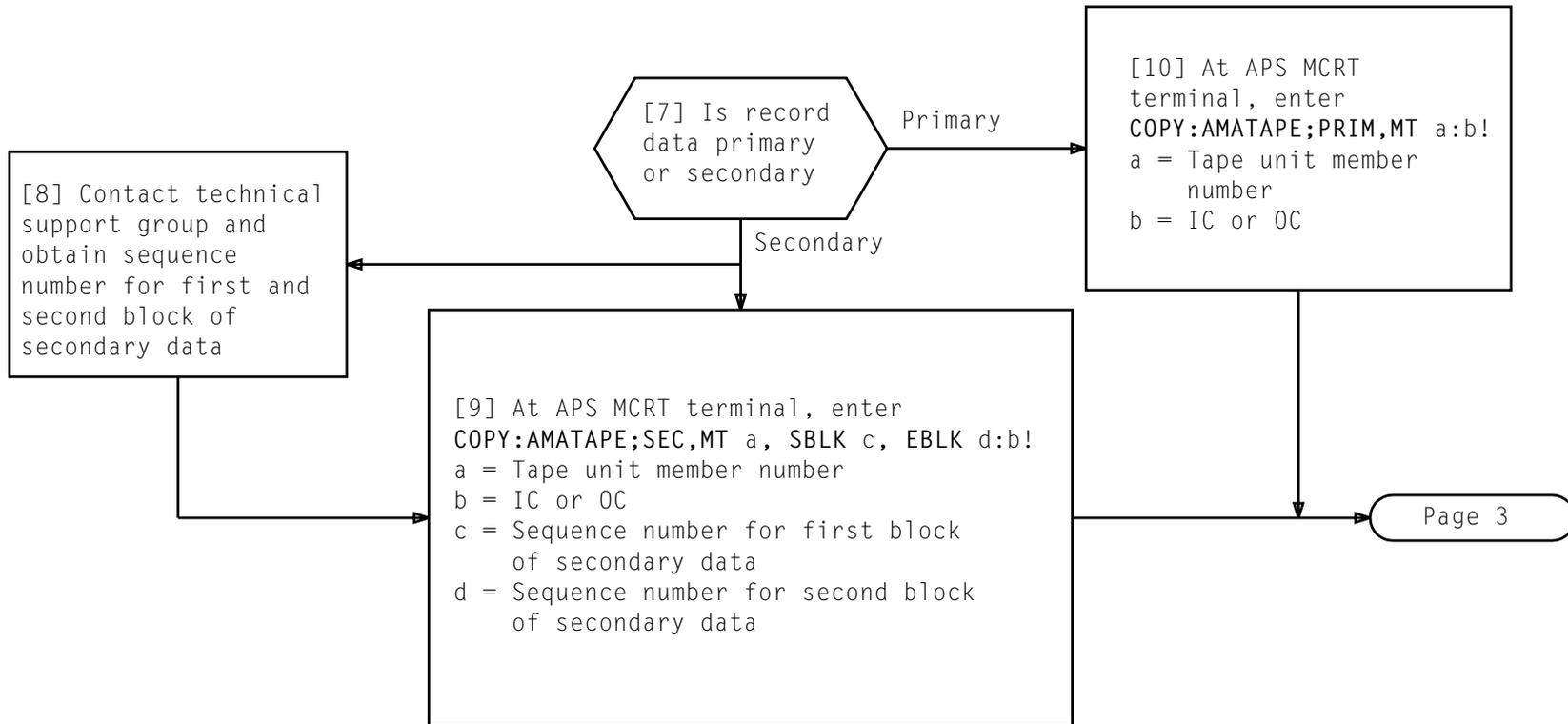
```

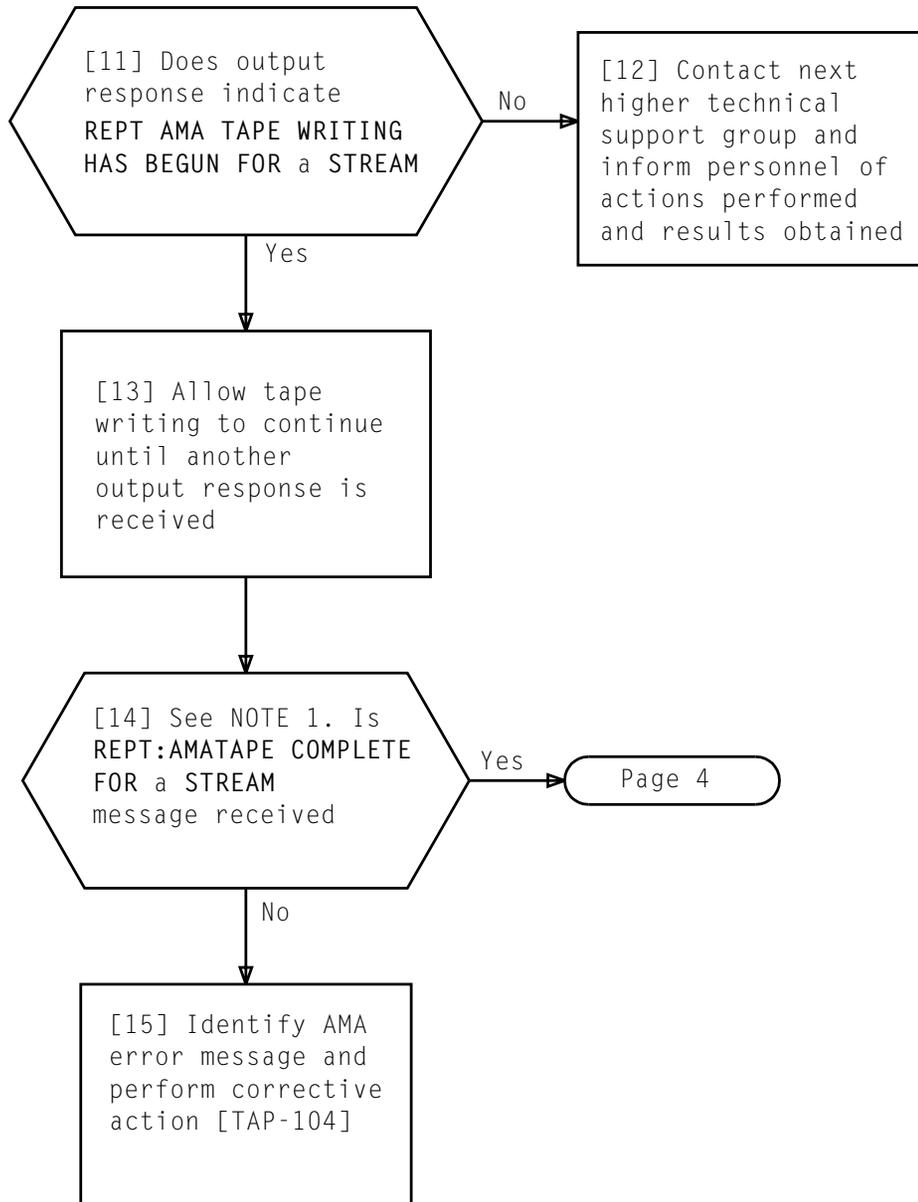
REPT AMATAPE VERIFY FOR a STREAM
VOL SER NUMBER b
DATA SET ID c
EXPIRATION DATE d-e
TAPE DRIVE NUMBER f
AMA TAPE CAN BE WRITTEN
  
```

FIG. 1 - Sample Printout of AMA Verification Output Message

WRITE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) TAPE

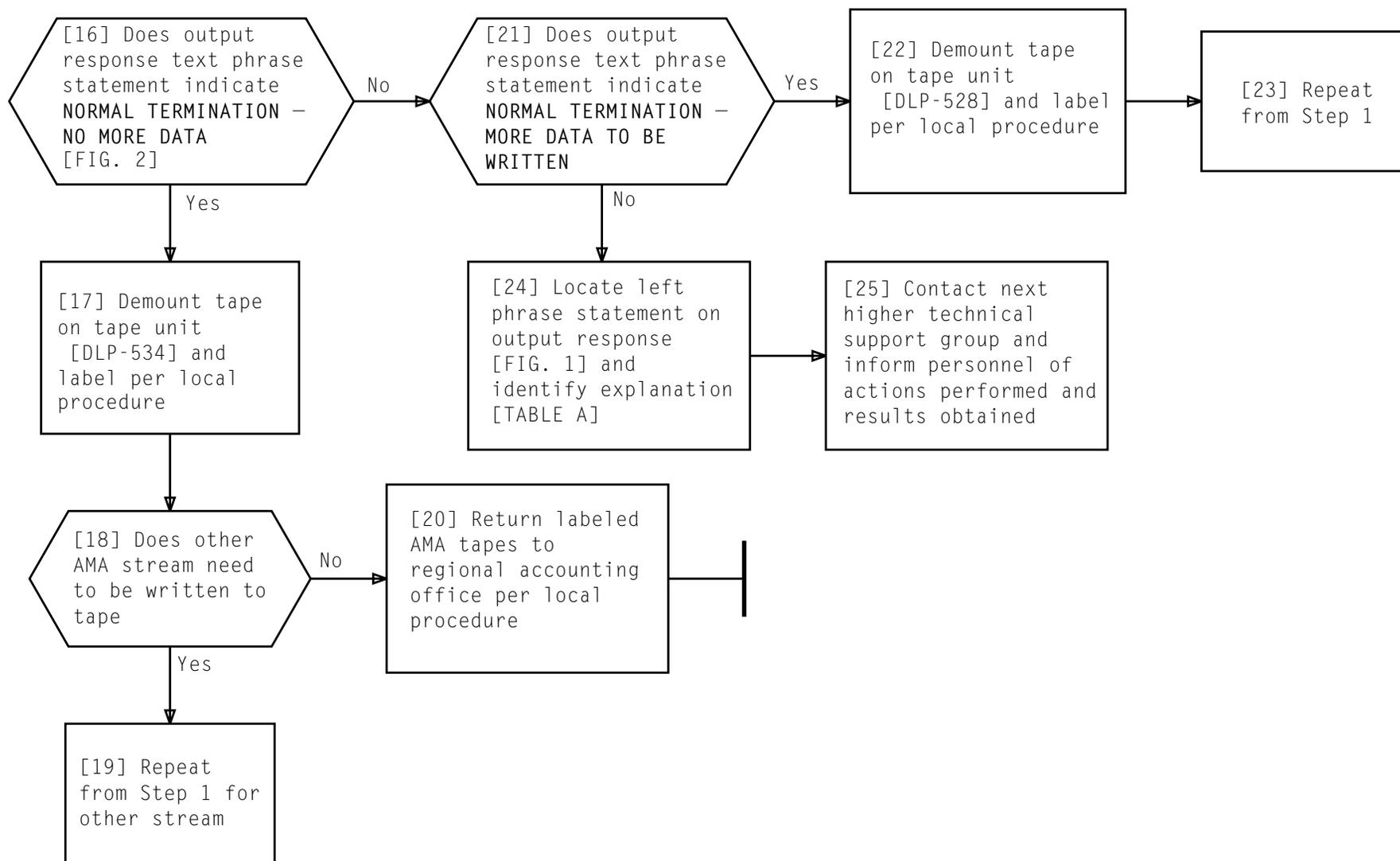
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WRITE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) TAPE

NOTE 1 Output message contains detailed data of AMA tape	
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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 NUMBER 33
NORMAL TERMINATION NO MORE DATA
```

FIG. 2 - Sample Printout of RETP:AMATAPE COMPLETE Message

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, THROUGH WRITE ORDER ASKED FOR MORE
AUTOMATIC TAPE WRITING STOP TIME WAS REACHED	PRESET STOP TIME WAS REACHED, TERMINATING WRITE PRECEDURE REGARDLESS OF COMPLETENESS
TAPE WRITING STOPPED FOR REX DGNS	ROUTINE EXERCISE IN PROGRESS INTERRUPTS TAPE WRITING

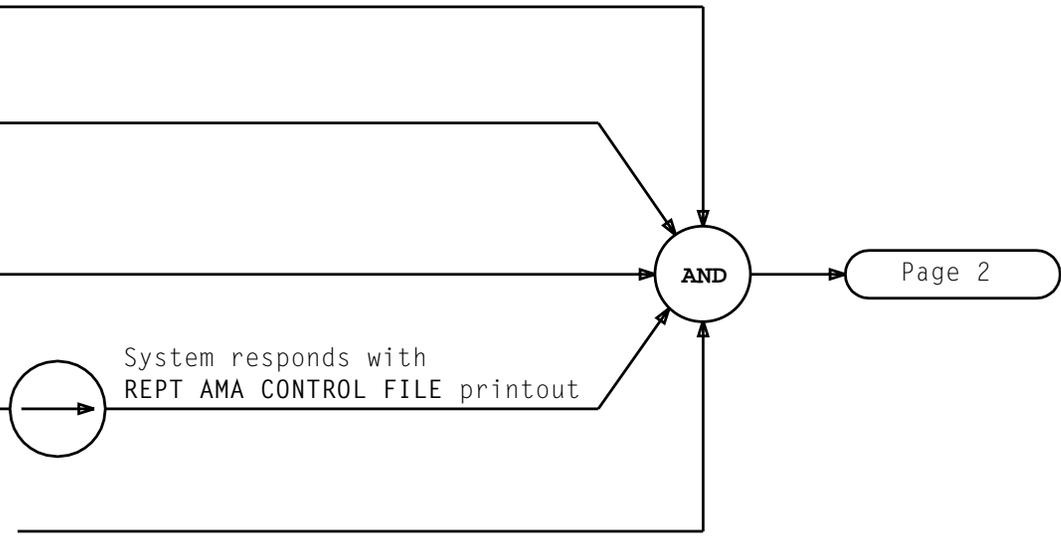
[1] Select available APS tape unit for mounting tape _____

[2] If tape is mounted on selected tape unit, demounted tape [DLP-528] _____

[3] Mount AMA tape with write enable ring installed on selected APS tape unit [DLP-527] _____

[4] At APS MCRT terminal, enter
 OP:AMA;CONTROLFILE a!
 a = 0C or IC _____

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



```

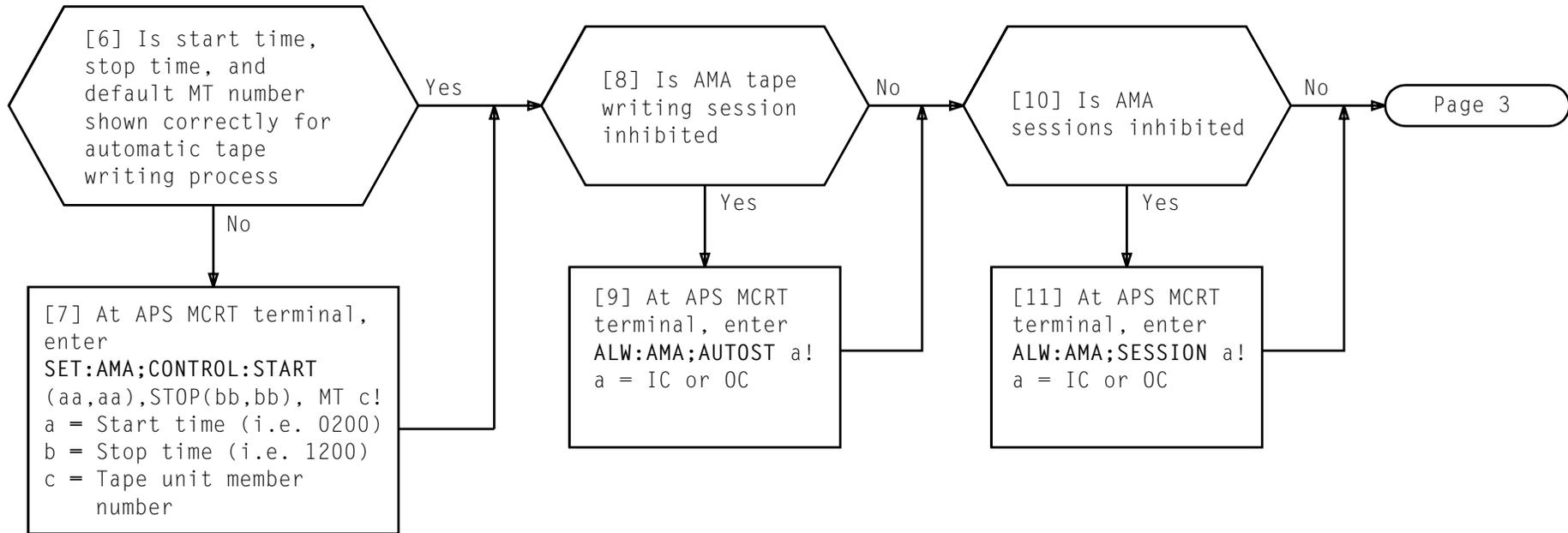
24 REPT AMA CONTROL FILE
OFFICE ID 123456
DAYS UNTIL EXPIRATION 5
PROCESS START TIME 00:00
PROCESS STOP TIME 00:00
DEFAULT MT FOR AUTO TAPE START 0
AMA OPTION IS TELEPROCESSING
DATA TRANSFER IS MANUALLY INHIBITED
AMAT PASSWORD 0040123456
HOC PASSWORD 0320123456
BACKUP HOC PASSWORD 0320218357
PASSWORD 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

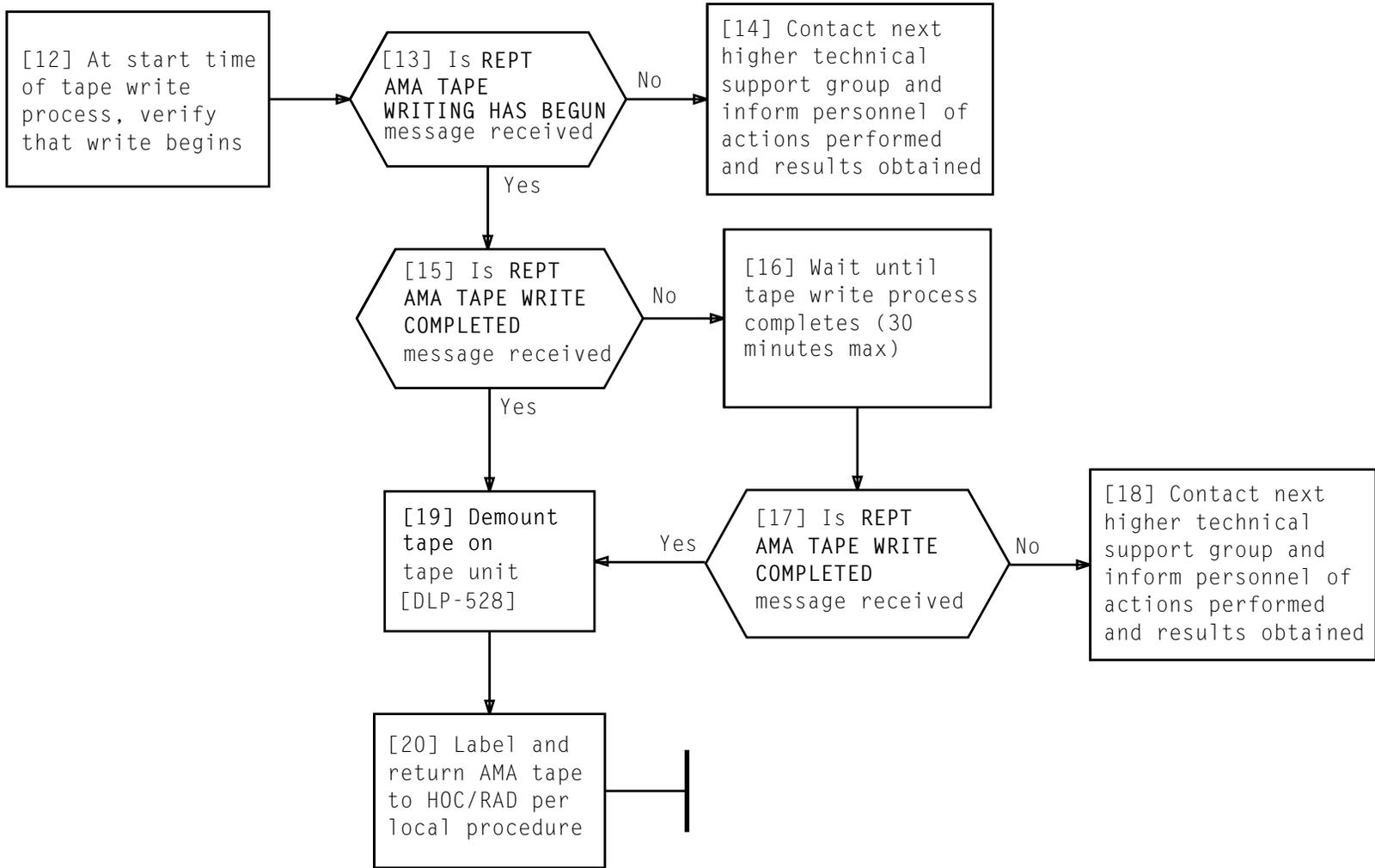
INITIALIZE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC AMA TAPE WRITING PROCESS

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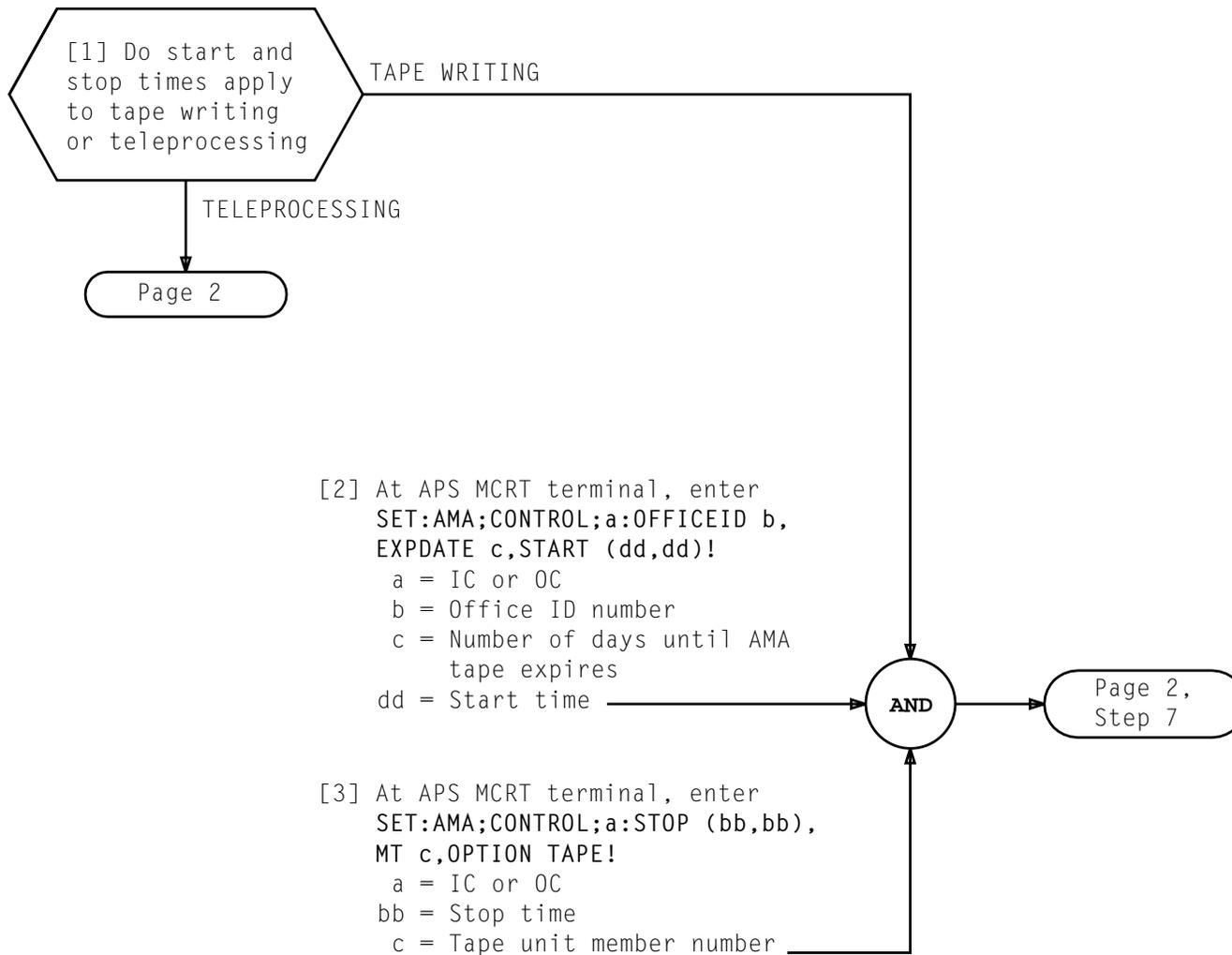
**INITIALIZE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC AMA
TAPE WRITING PROCESS**

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INITIALIZE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC AMA TAPE WRITING PROCESS

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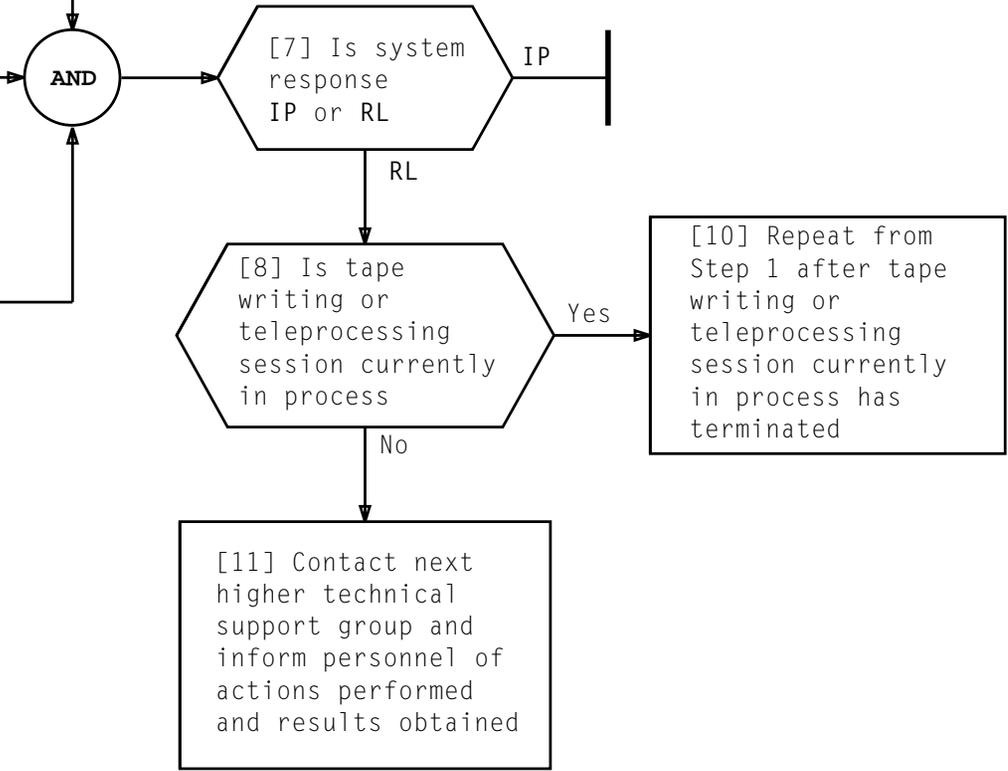
**SET START AND STOP TIME FOR AUTOMATIC AMA RECORD OUTPUT
 (TAPE OR TELEPROCESSING)**

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[4] At APS MCRT terminal, enter
 SET:AMA;CONTROL;a:OFFICEID b,START (cc,cc)!
 a = IC or OC
 b = Office ID number
 cc = Start time

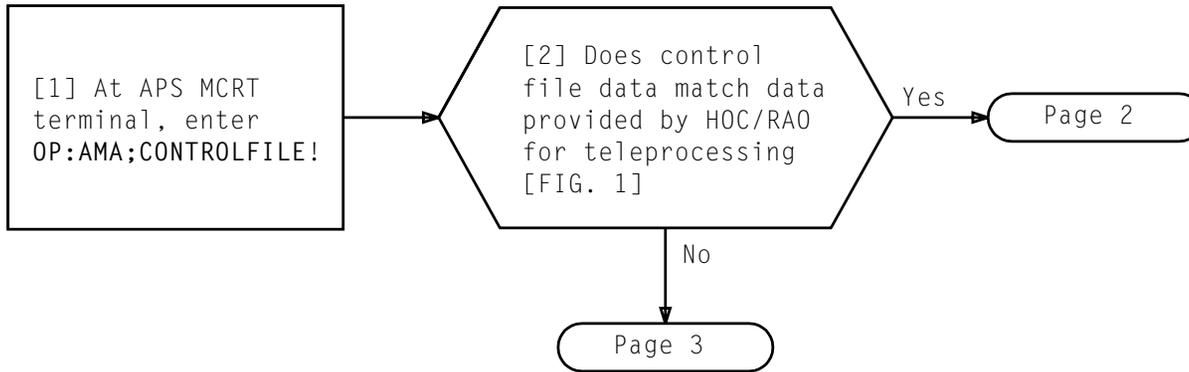
[5] At APS MCRT terminal, enter
 SET:AMA;CONTROL:a;STOP (bb,bb), OPTION TP,HOCPSWD c!
 a = IC or OC
 bb = Stop time
 c = HOC password (10 digits)

[6] At APS MCRT terminal, enter
 SET:AMA;CONTROL;a:BACKUPSWD b!
 a = IC or OC
 b = Backup HOC password (10 digits)



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

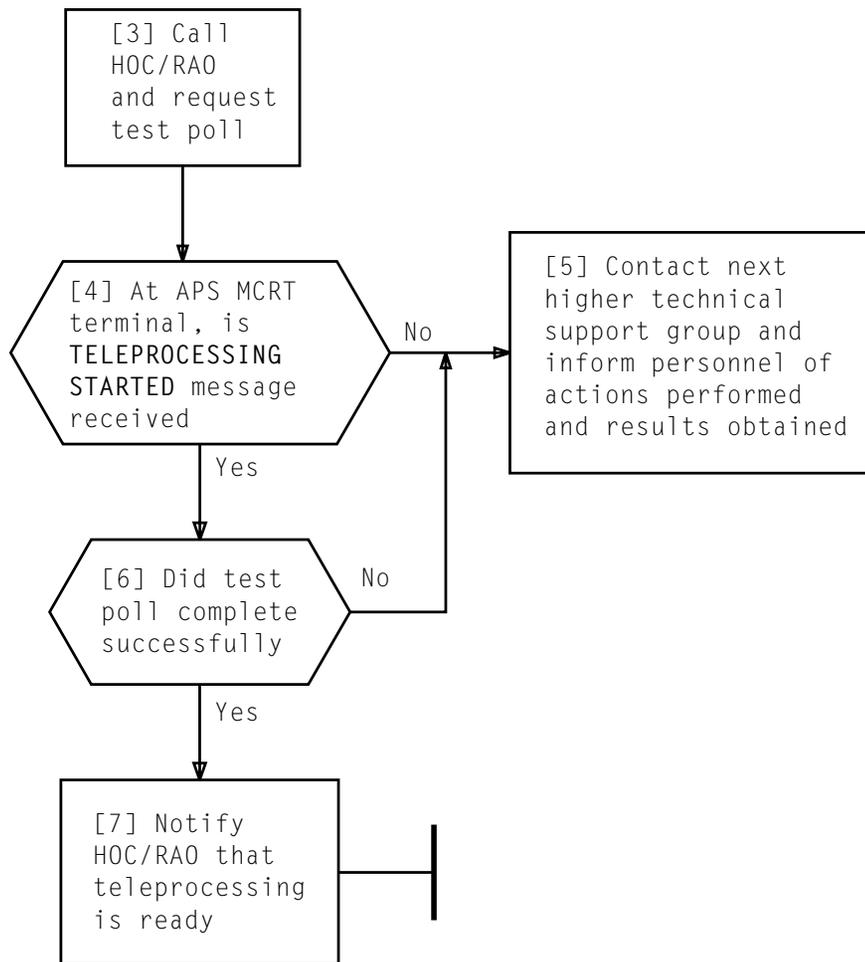
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```

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
  
```

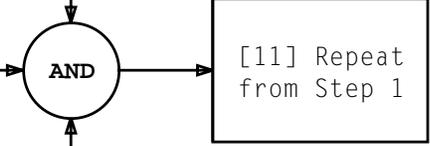
FIG. 1 - AMA Control File Printout



[8] At APS MCRT terminal, 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)

[9] At APS MCRT terminal, 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

[10] At APS MCRT terminal, 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)



TEST FOR ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) TELEPROCESSING CAPABILITY

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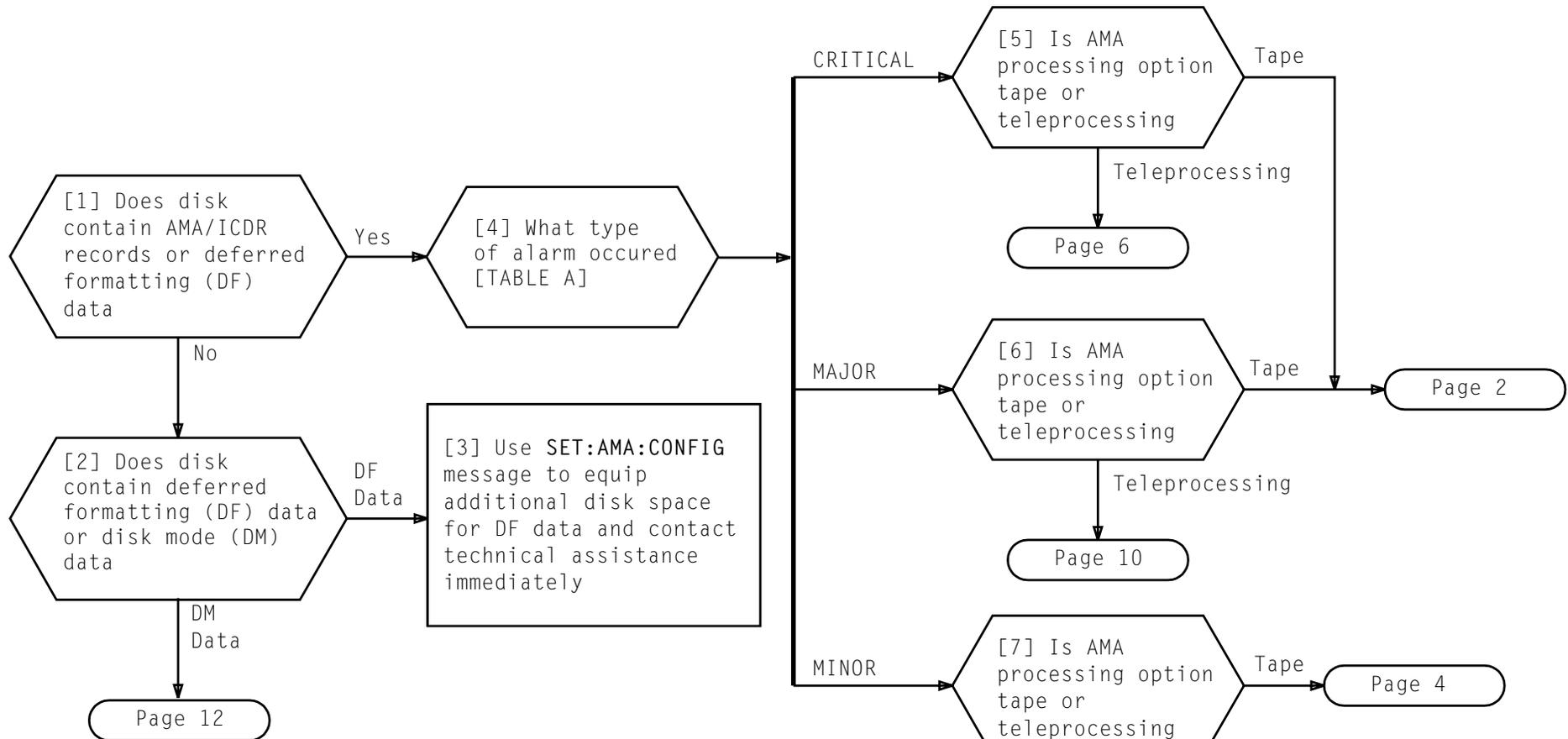
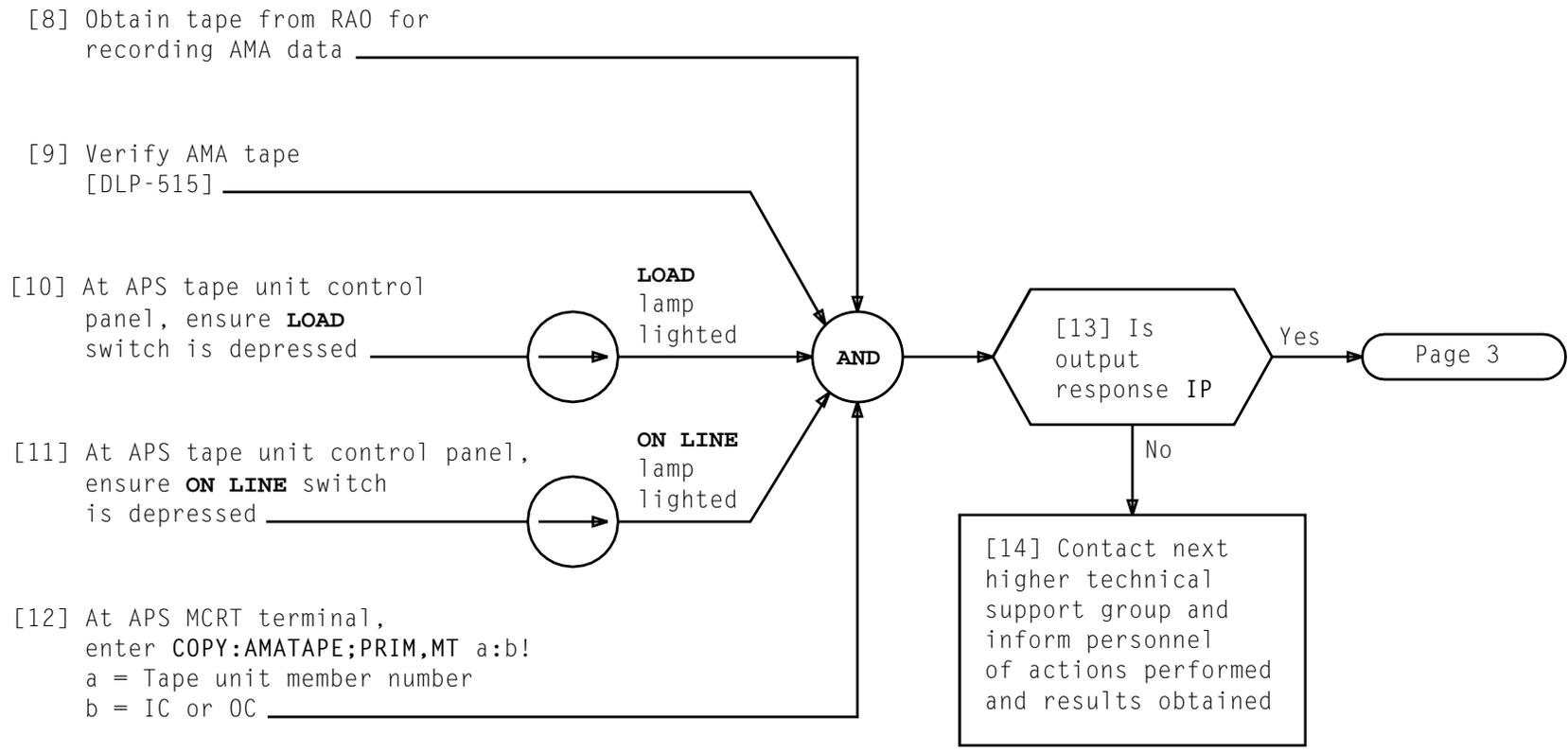


TABLE A DISK STORAGE OCCUPANCY ALARMS	
ALARM TYPE	INDICATION
MINOR	Disk storage is 70-89% full
MAJOR	Disk storage is 90-99% full
CRITICAL	Disk storage is 100% full

REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) DISK STORAGE OCCUPANCY



REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) DISK STORAGE OCCUPANCY

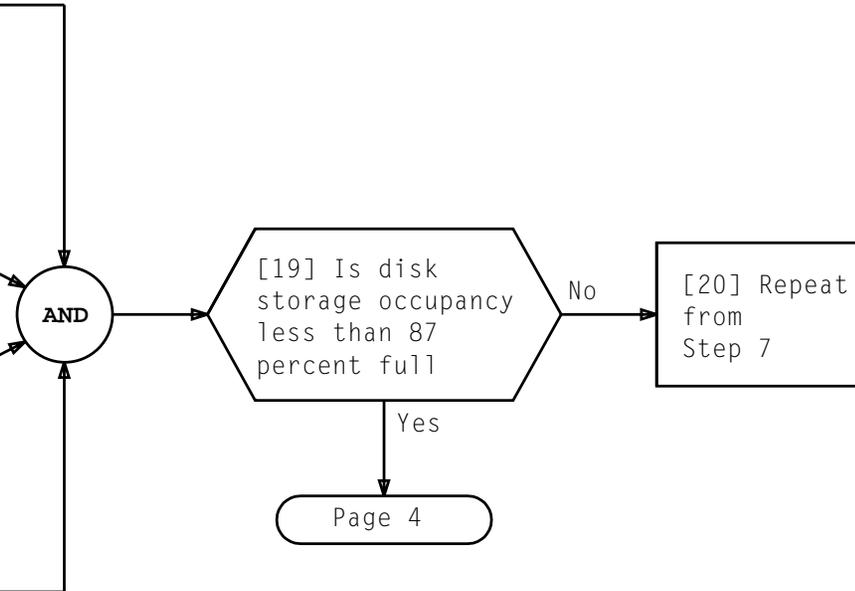
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[15] Allow tape writing process to continue for 15 minutes from initial start

[16] After 15 minutes has elapsed, at APS MCRT terminal, enter STOP:AMATAPE:a!
a = IC or OC

[17] Demount AMA tape on tape unit [DLP-528]

[18] At APS MCRT terminal, enter OP:AMA;DISK:a!
a = IC or OC



REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) DISK STORAGE OCCUPANCY

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[21] Obtain tape from RAO for recording AMA data

[22] Verify AMA tape [DLP-515]

[23] At APS tape unit control panel, ensure **LOAD** switch is depressed

LOAD
lamp
lighted

AND

[24] At APS tape unit control panel, ensure **ON LINE** switch is depressed

ON LINE
lamp
lighted

[25] At APS MCRT terminal, enter **COPY:AMATAPE;PRIM,MT a:b!**
a = Tape unit member number
b = IC or OC

[26] Is output response IP

Yes

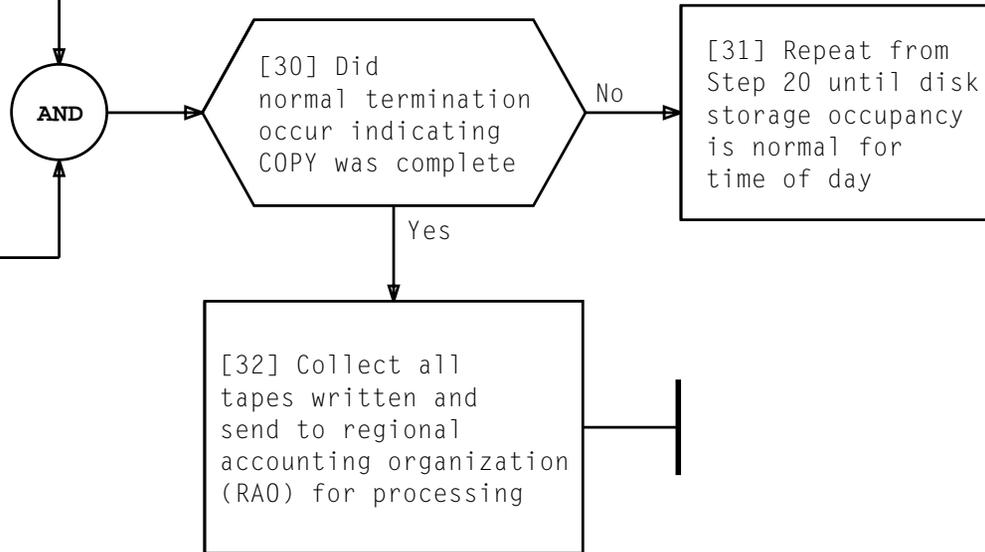
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No

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

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

[29] Demount tape on tape unit [DLP-528]



[33] See NOTE 1. At APS MCRT terminal,
 enter SET:AMA;CONTROL;a:OPTION TAPE!
 a = IC or OC

[34] Obtain tape from RAO for
 recording AMA data

[35] Verify AMA tape
 [DLP-515]

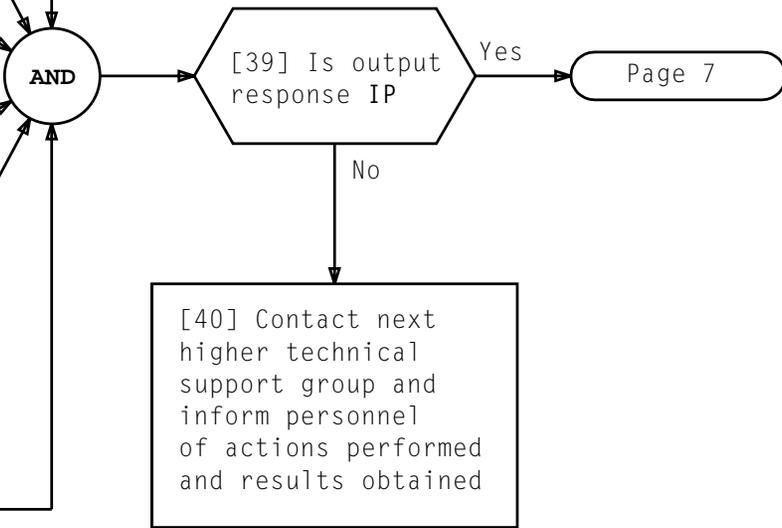
[36] At APS tape unit control
 panel, ensure **LOAD**
 switch is depressed

LOAD
 lamp
 lighted

[37] At APS tape unit control panel,
 ensure **ON LINE** switch
 is depressed

ON LINE
 lamp
 lighted

[38] At APS MCRT terminal,
 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

**REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE
 ACCOUNTING (AMA) DISK STORAGE OCCUPANCY**

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

[42] After 15 minutes has elapsed,
at APS MCRT terminal,
enter STOP:AMATAPE:a!
a = IC or OC

[43] Demount AMA tape on tape
unit [DLP-528]

[44] At APS MCRT terminal,
enter OP:AMA;DISK:a!
a = IC or OC

AND

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

No

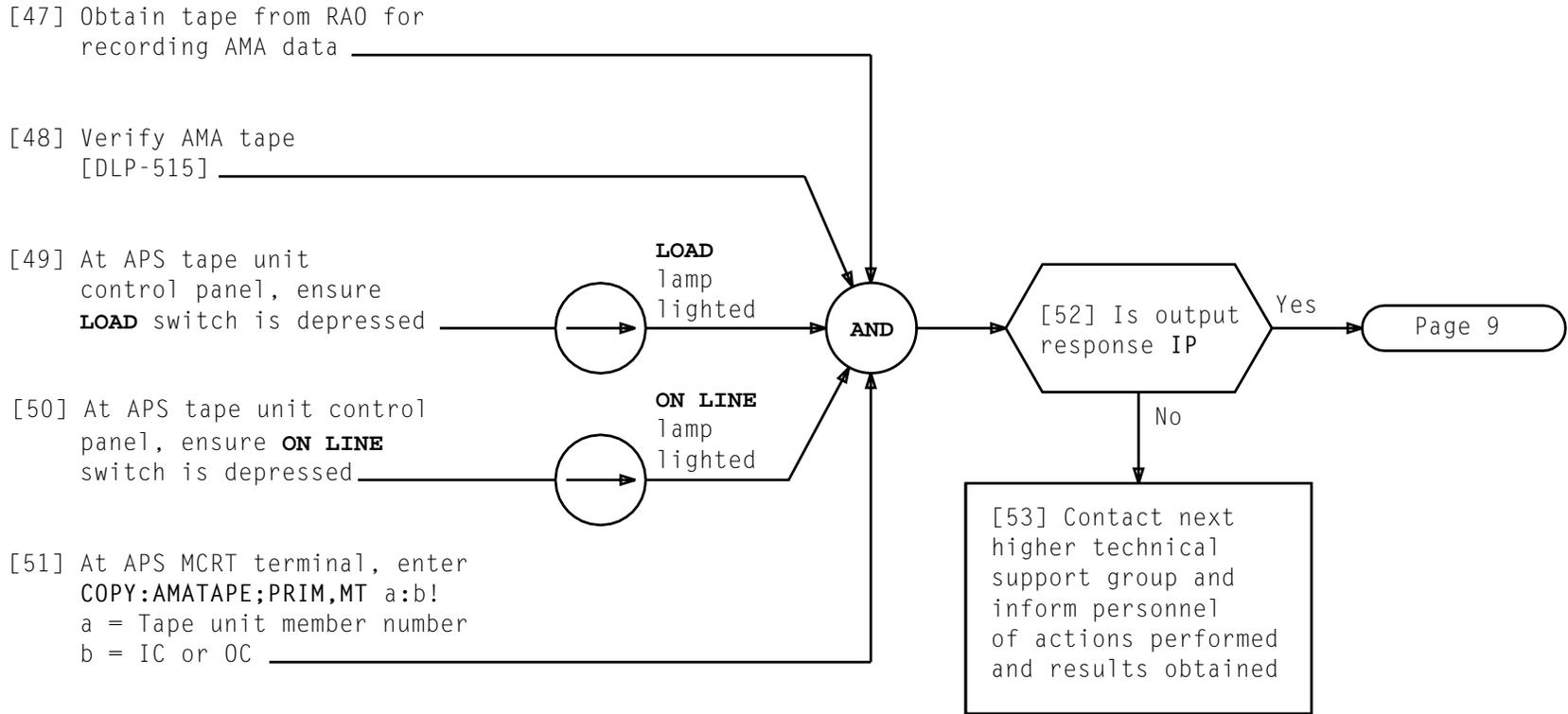
[46] Repeat
from
Step 32

Yes

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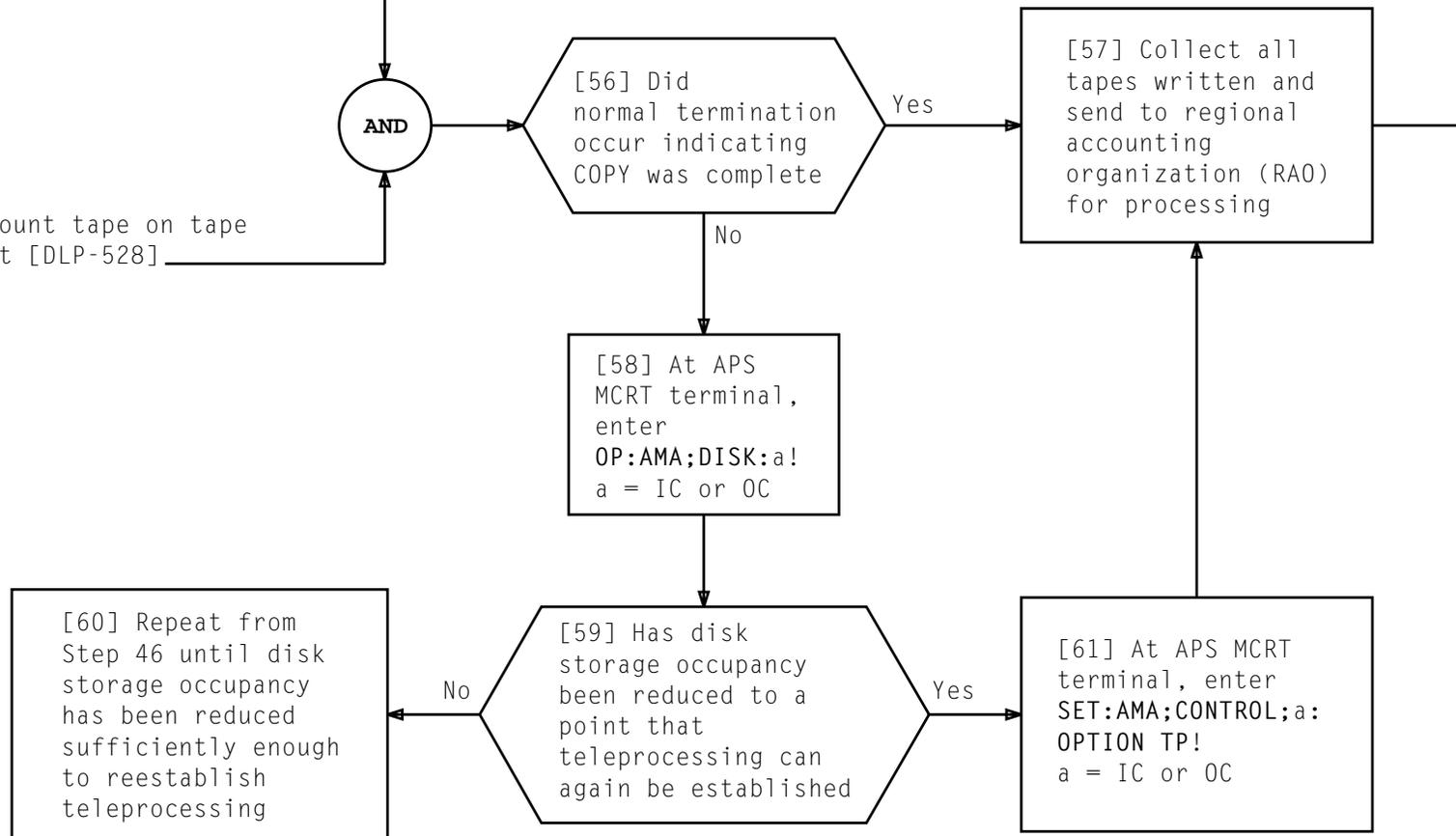
**REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE
ACCOUNTING (AMA) DISK STORAGE OCCUPANCY**

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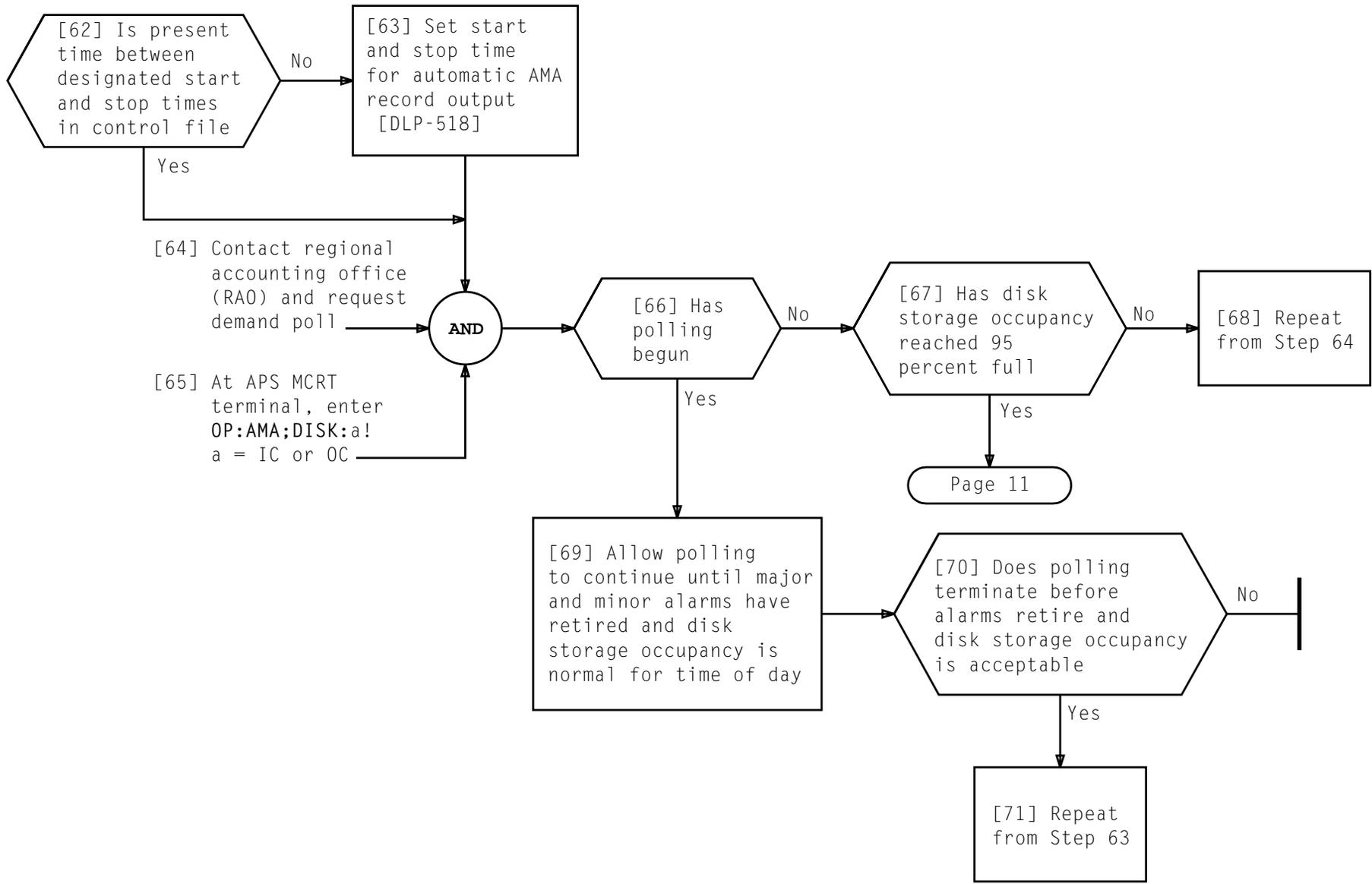
[54] Allow tape writing process to continue uninterrupted until tape fills or normal termination occurs

[55] Demount tape on tape unit [DLP-528]



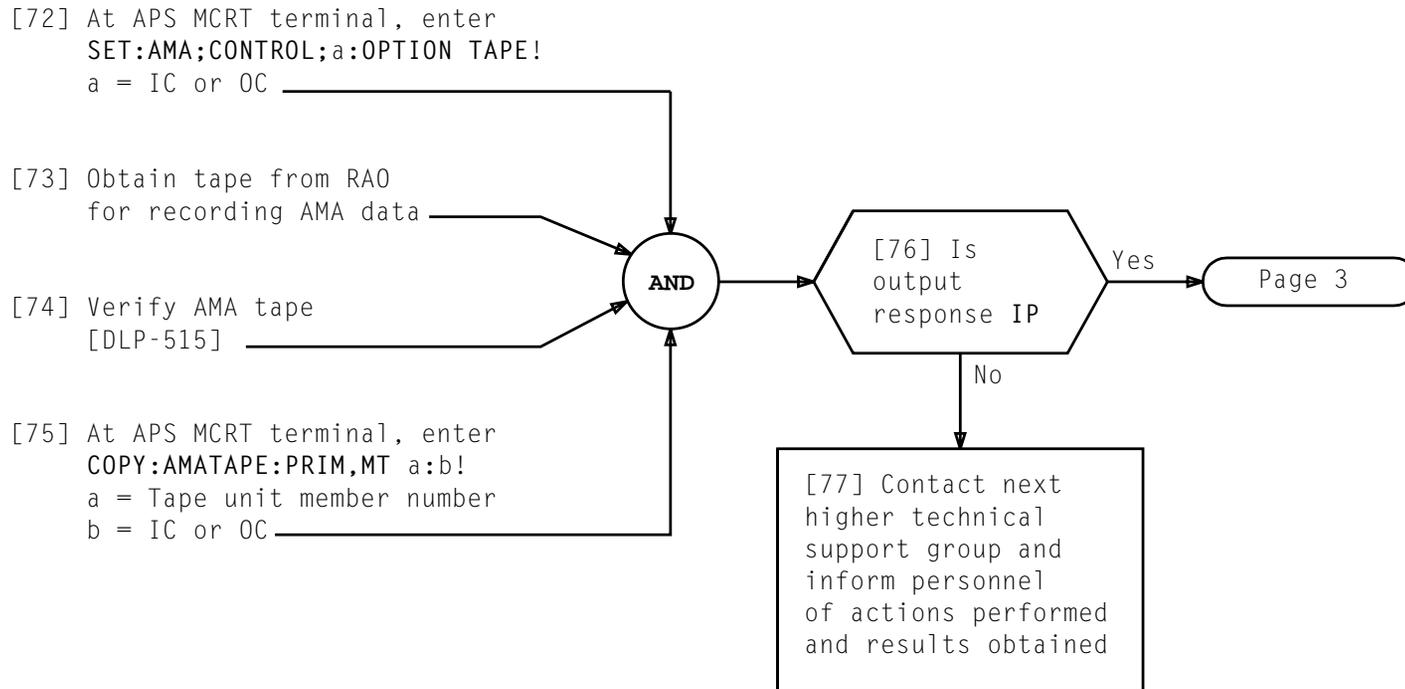
REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) DISK STORAGE OCCUPANCY

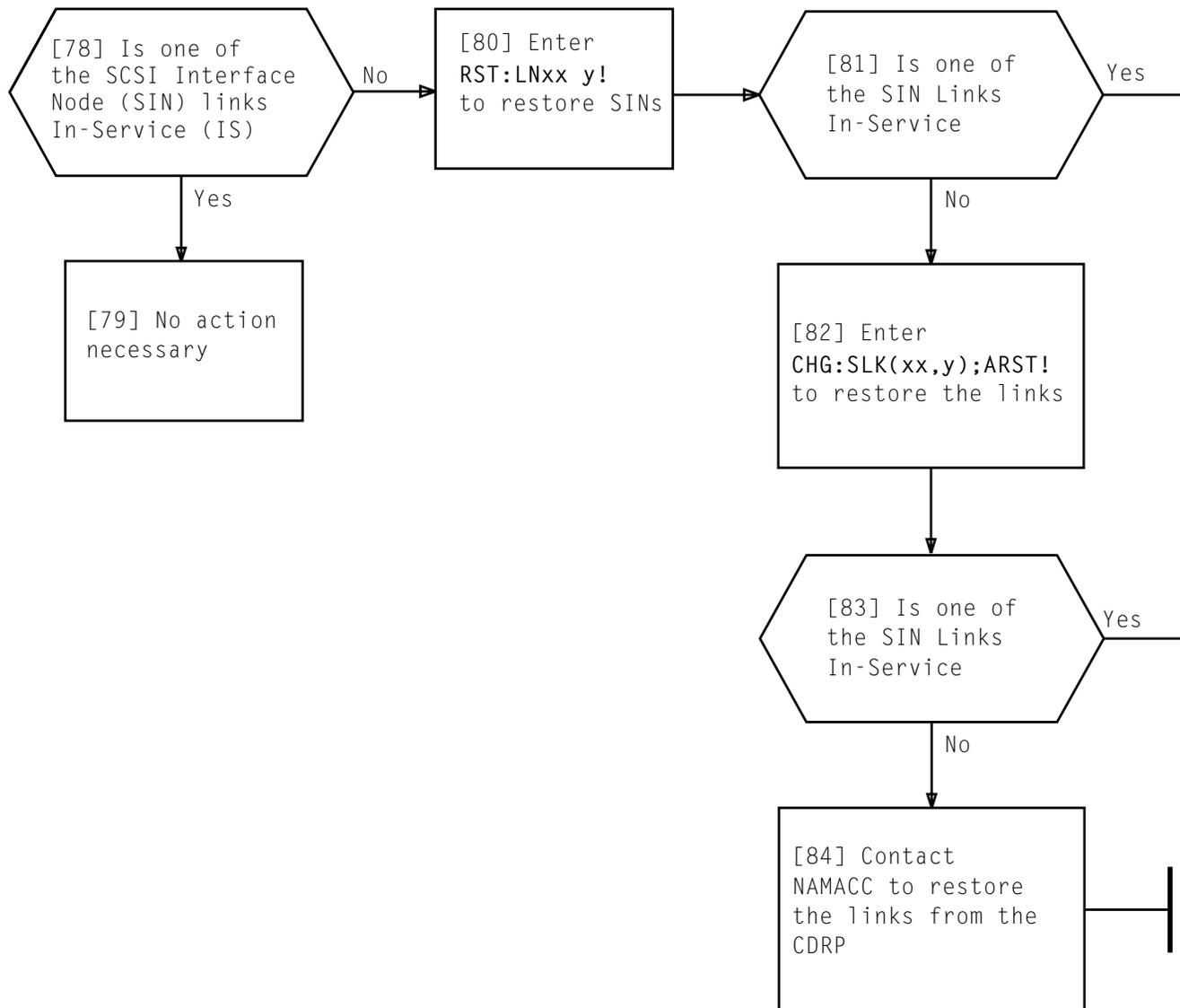
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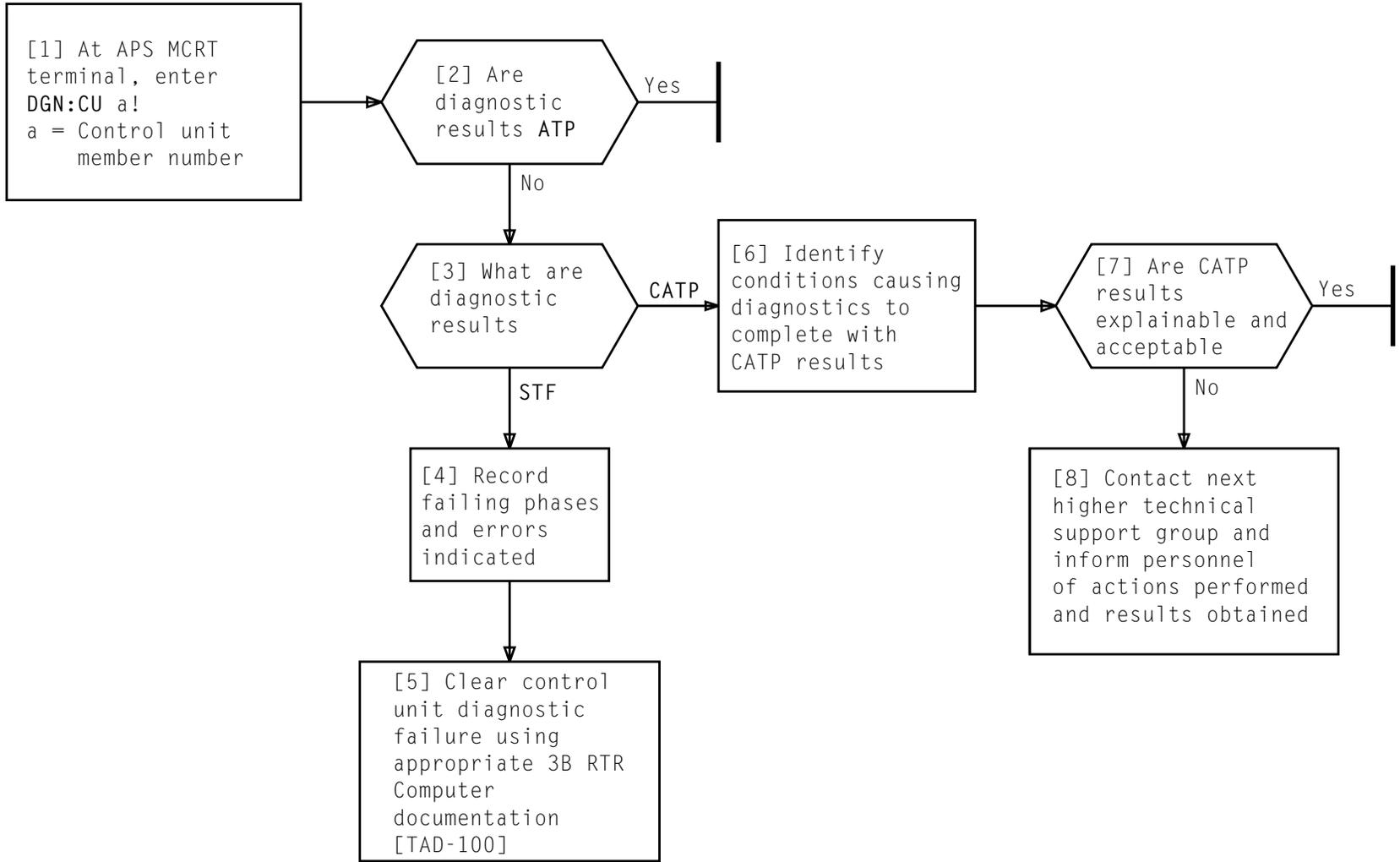


REDUCE ATTACHED PROCESSOR SYSTEM (APS) AUTOMATIC MESSAGE ACCOUNTING (AMA) DISK STORAGE OCCUPANCY

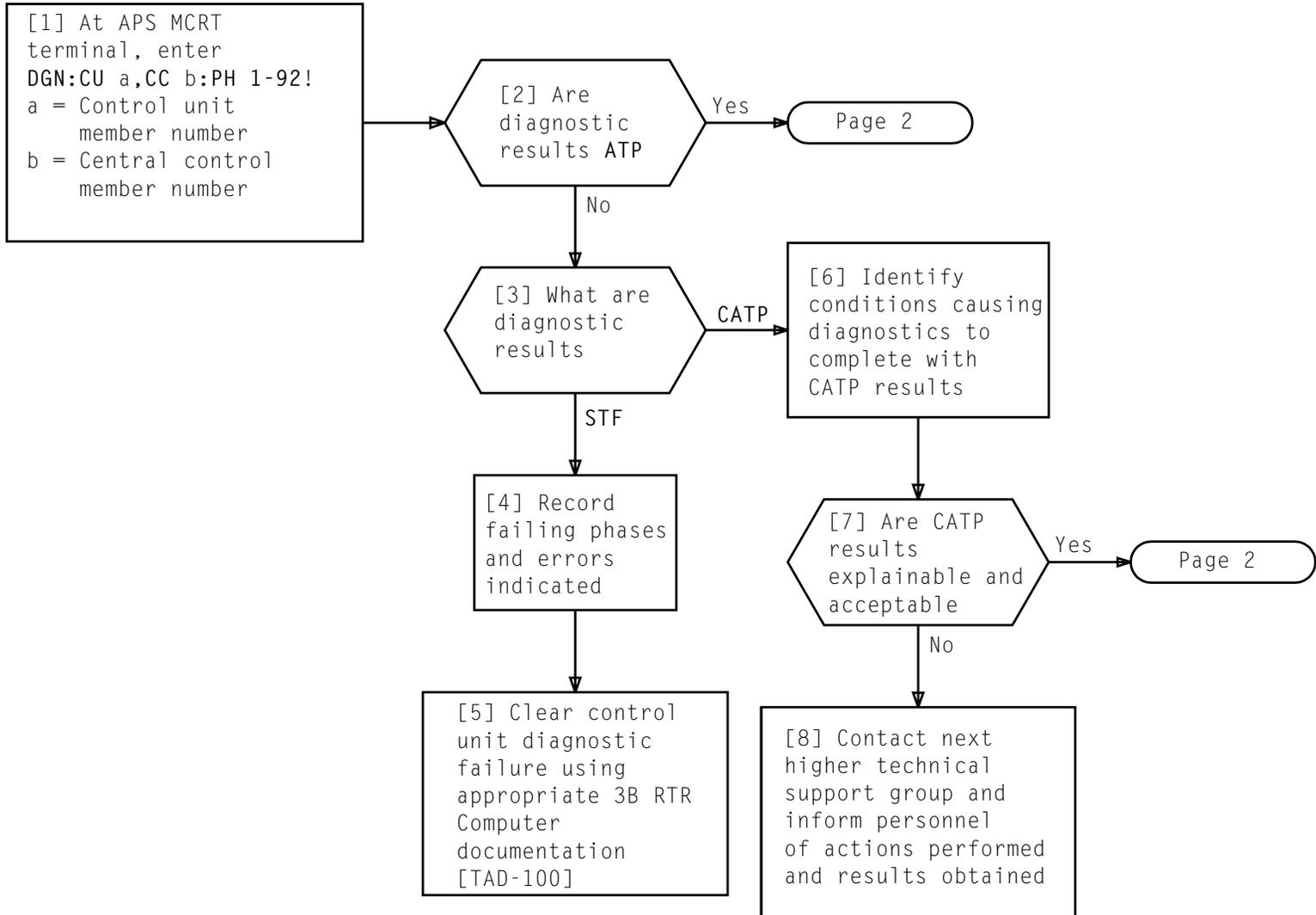
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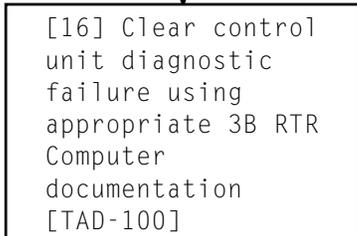
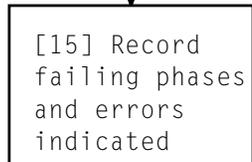
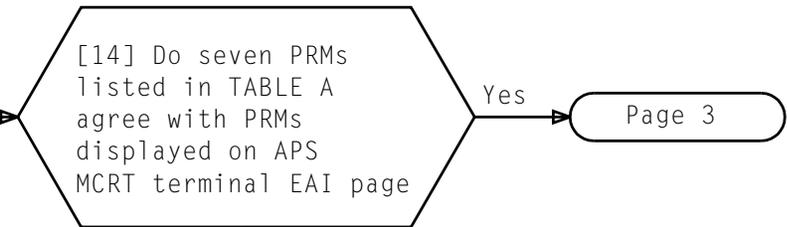
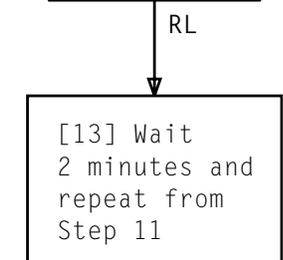
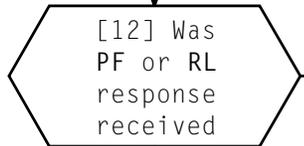
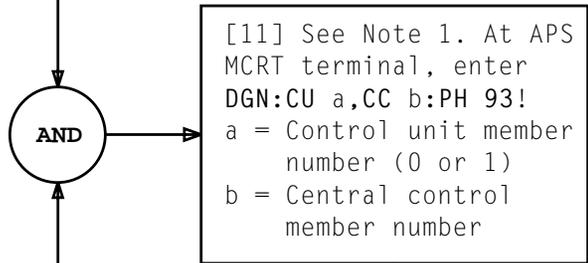


PERFORM ATTACHED PROCESSOR SYSTEM (APS) CONTROL UNIT DEMAND DIAGNOSTICS

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[9] At APS MCRT terminal,
depress **EA DISP** key to
obtain EAI page

[10] On APS MCRT terminal
EAI page, enter poke
command **14** in command
mode to clear all
forced status

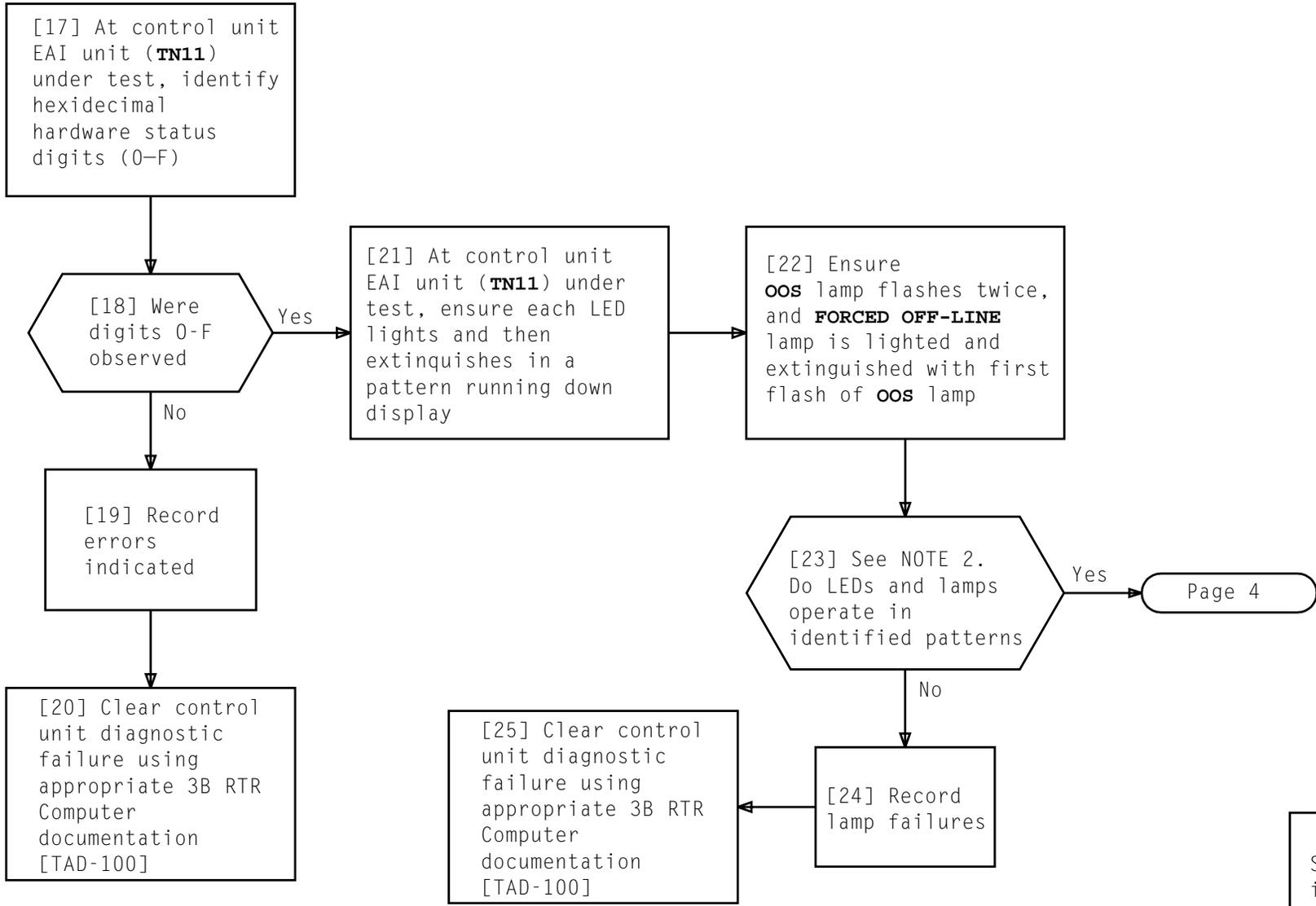


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TABLE A CONTROL UNIT DEMAND DIAGNOSTIC PRMs										
PRM-x	0123	4567	89AB	CDEF	xx	xx	xx			
PRM-x	AAAA	AAAA	AAAA	AAAA	xx	xx	xx			
PRM-x	5555	5555	5555	5555	xx	xx	xx			
PRM-x	EEEE	EEEE	EEEE	EEEE	xx	xx	xx			
PRM-x	1111	1111	1111	1111	xx	xx	xx			
PRM-x	0000	0000	0000	0000	xx	xx	xx			
PRM-x	FFFF	FFFF	FFFF	FFFF	xx	xx	xx			

NOTE 1
Read Steps 11-22 to
become familiar
with phase 93 and
observations to
be made while
performing this
phase. This phase
may require two
people.

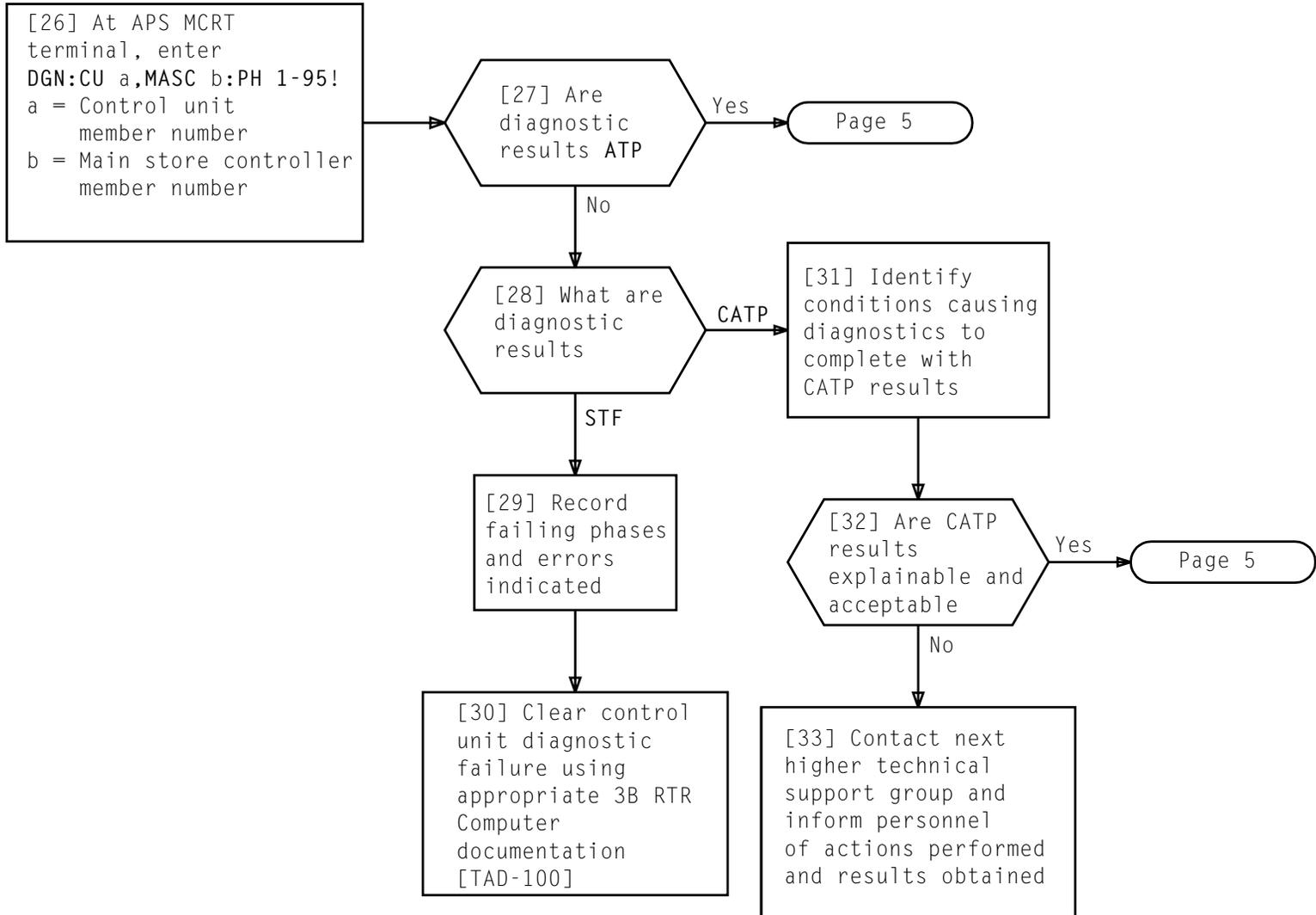
**PERFORM ATTACHED PROCESSOR SYSTEM (APS) CONTROL UNIT
DEMAND DIAGNOSTICS**



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

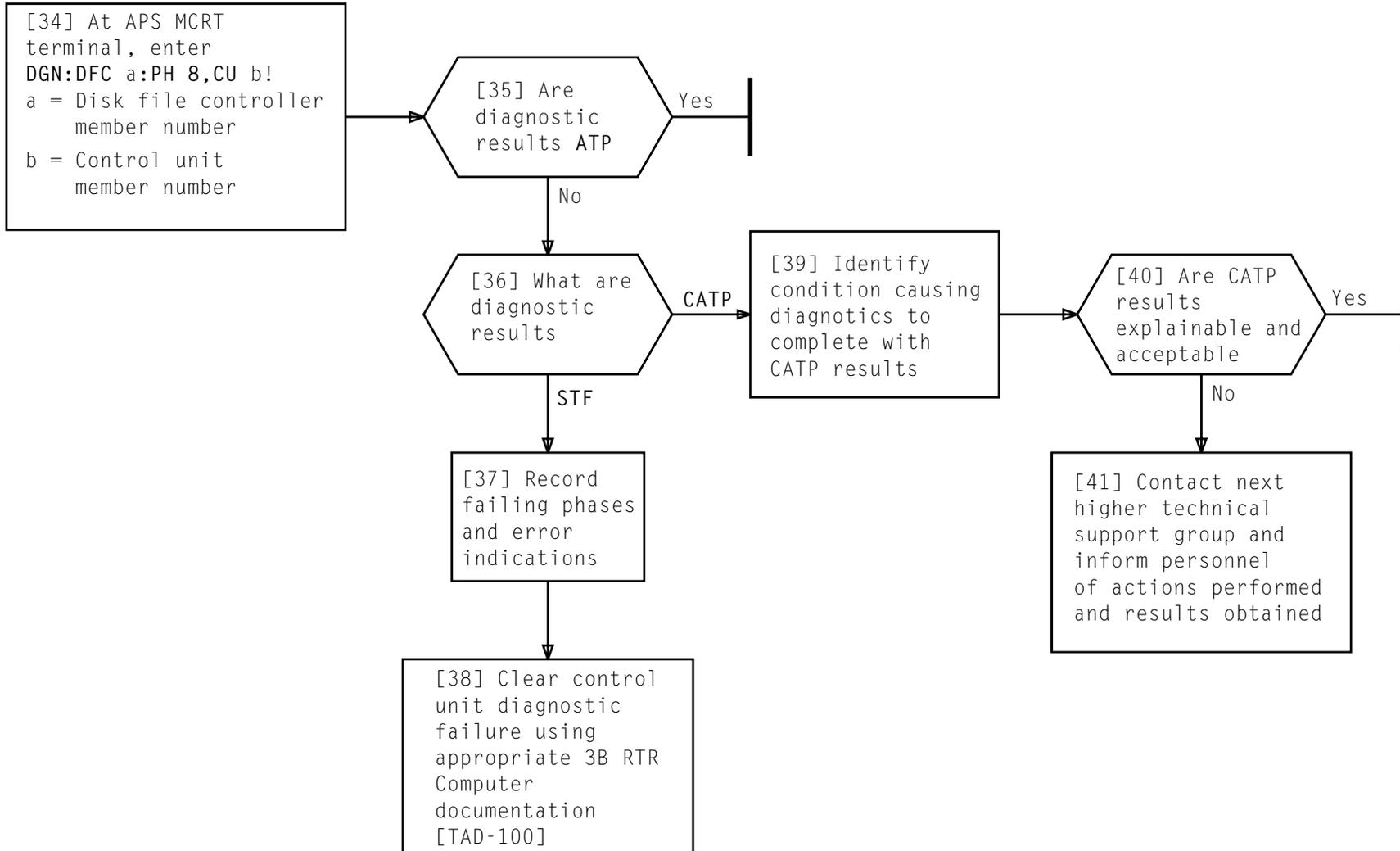
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PERFORM ATTACHED PROCESSOR SYSTEM (APS) CONTROL UNIT DEMAND DIAGNOSTICS



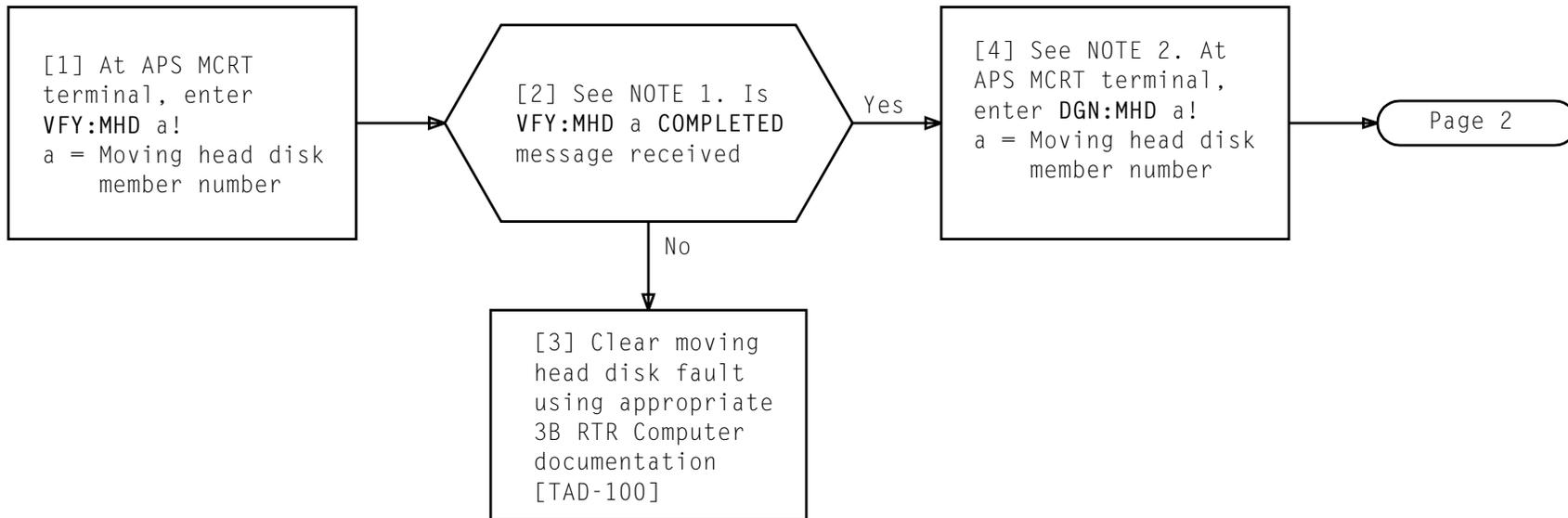
PERFORM ATTACHED PROCESSOR SYSTEM (APS) CONTROL UNIT DEMAND DIAGNOSTICS

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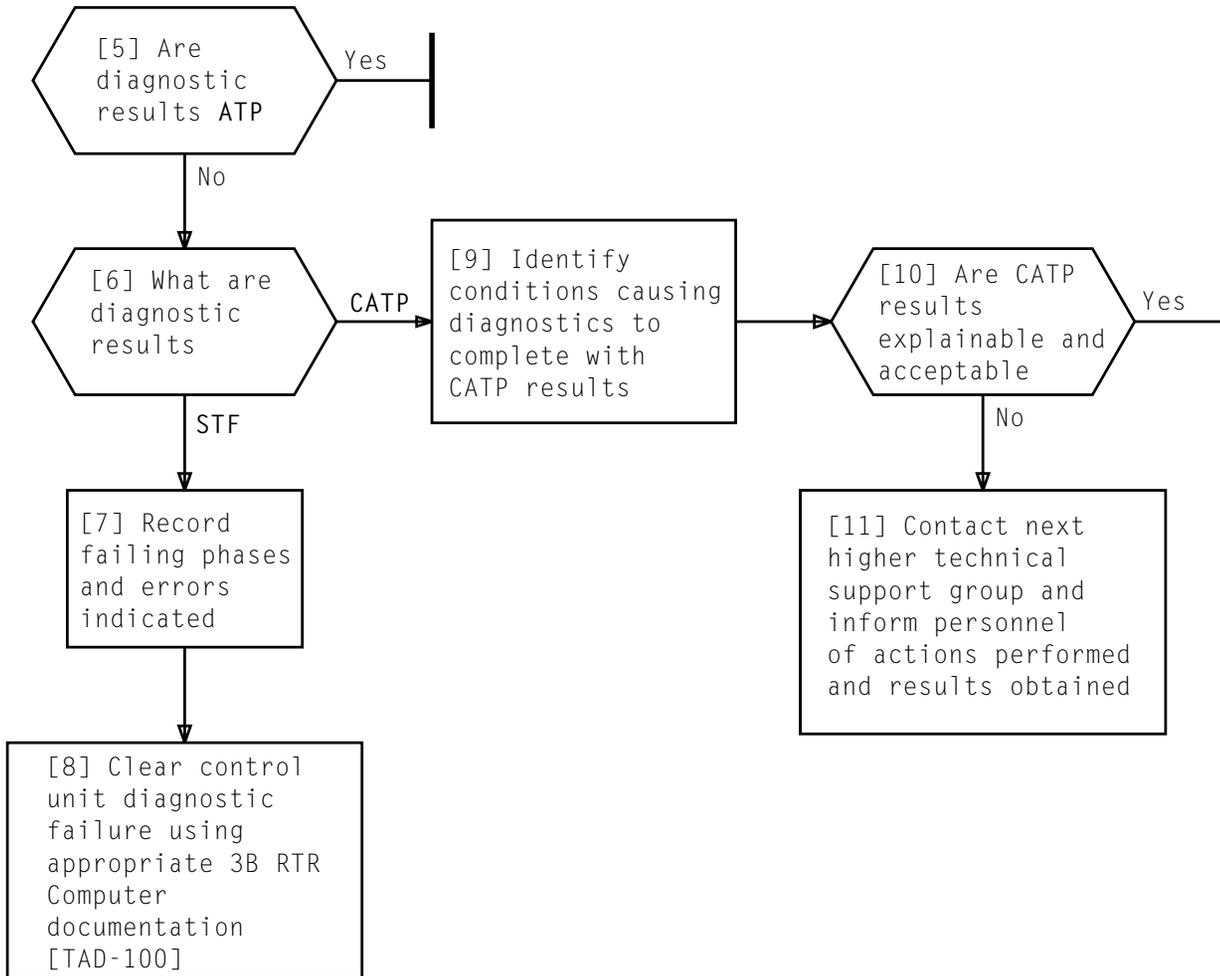


PERFORM ATTACHED PROCESSOR SYSTEM (APS) CONTROL UNIT DEMAND DIAGNOSTICS

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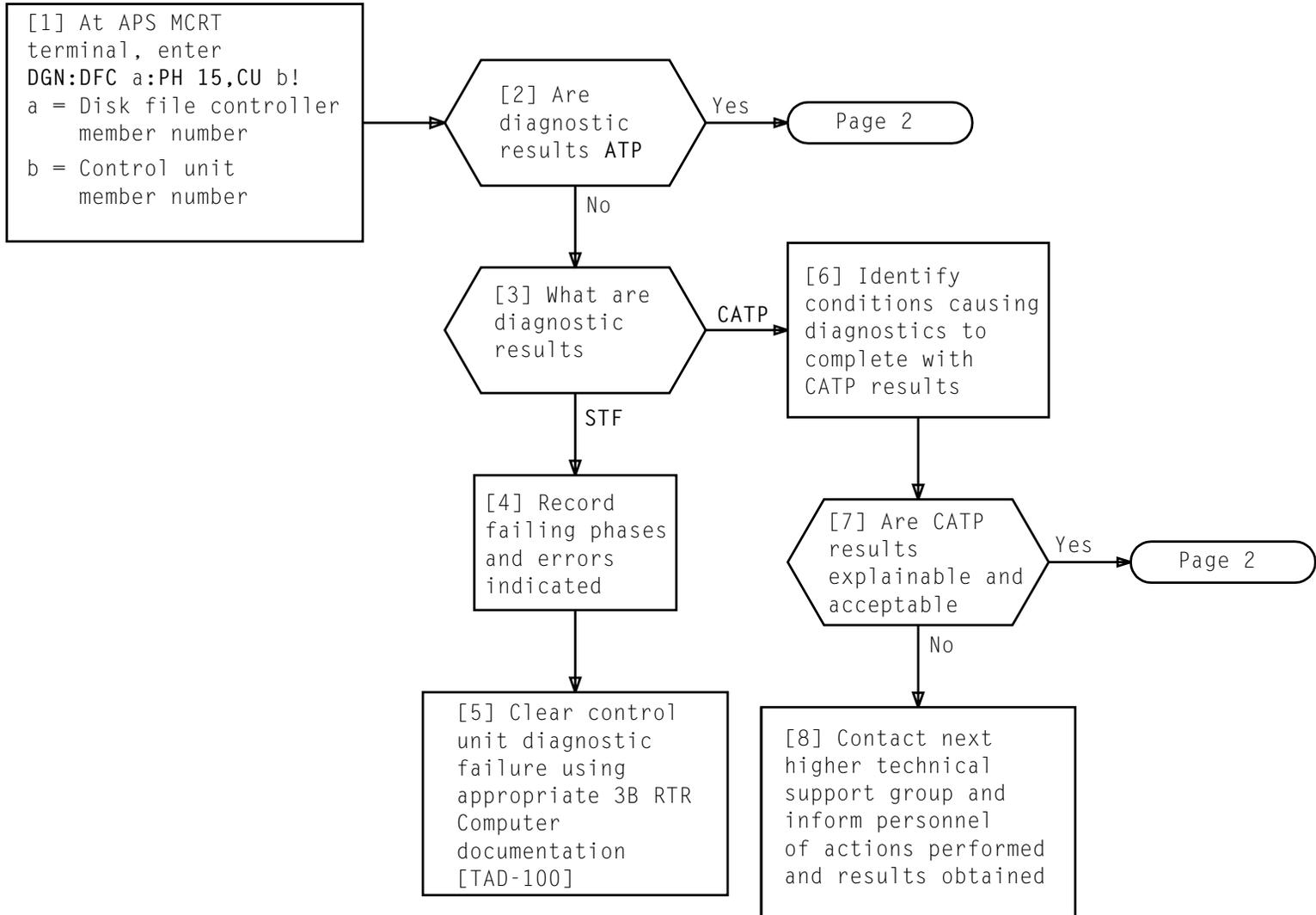


NOTES	
1. It can take up to 15 minutes for MHD verification to complete. While verification is in progress, a VFY MHD a IN PROGRESS message will be printed every 2 minutes until verification is complete.	
2. Disk file controller (DFC) must be in service before MHD can be diagnosed	
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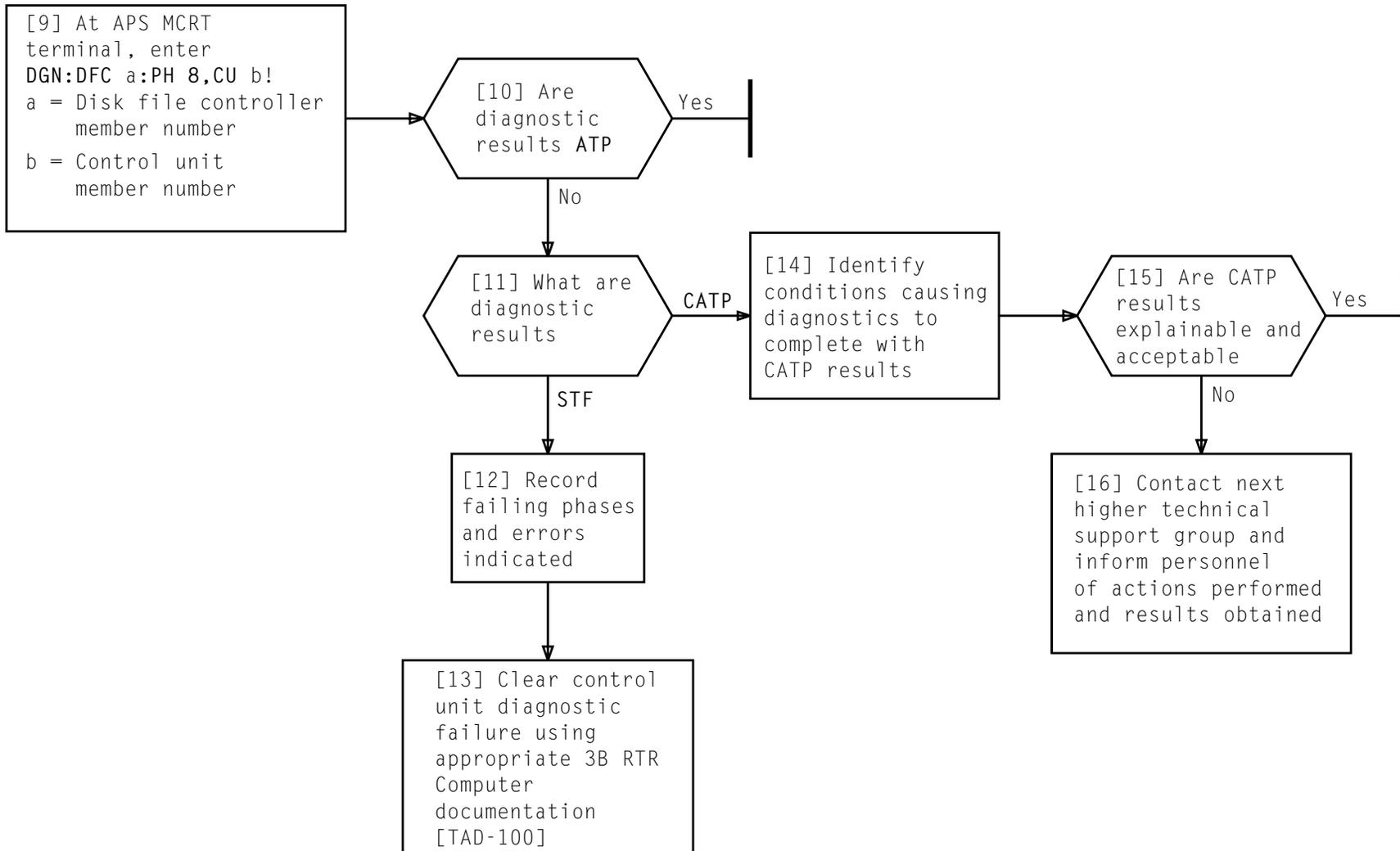
PERFORM ATTACHED PROCESSOR SYSTEM (APS) MOVING HEAD DISK (MHD) DIAGNOSTICS

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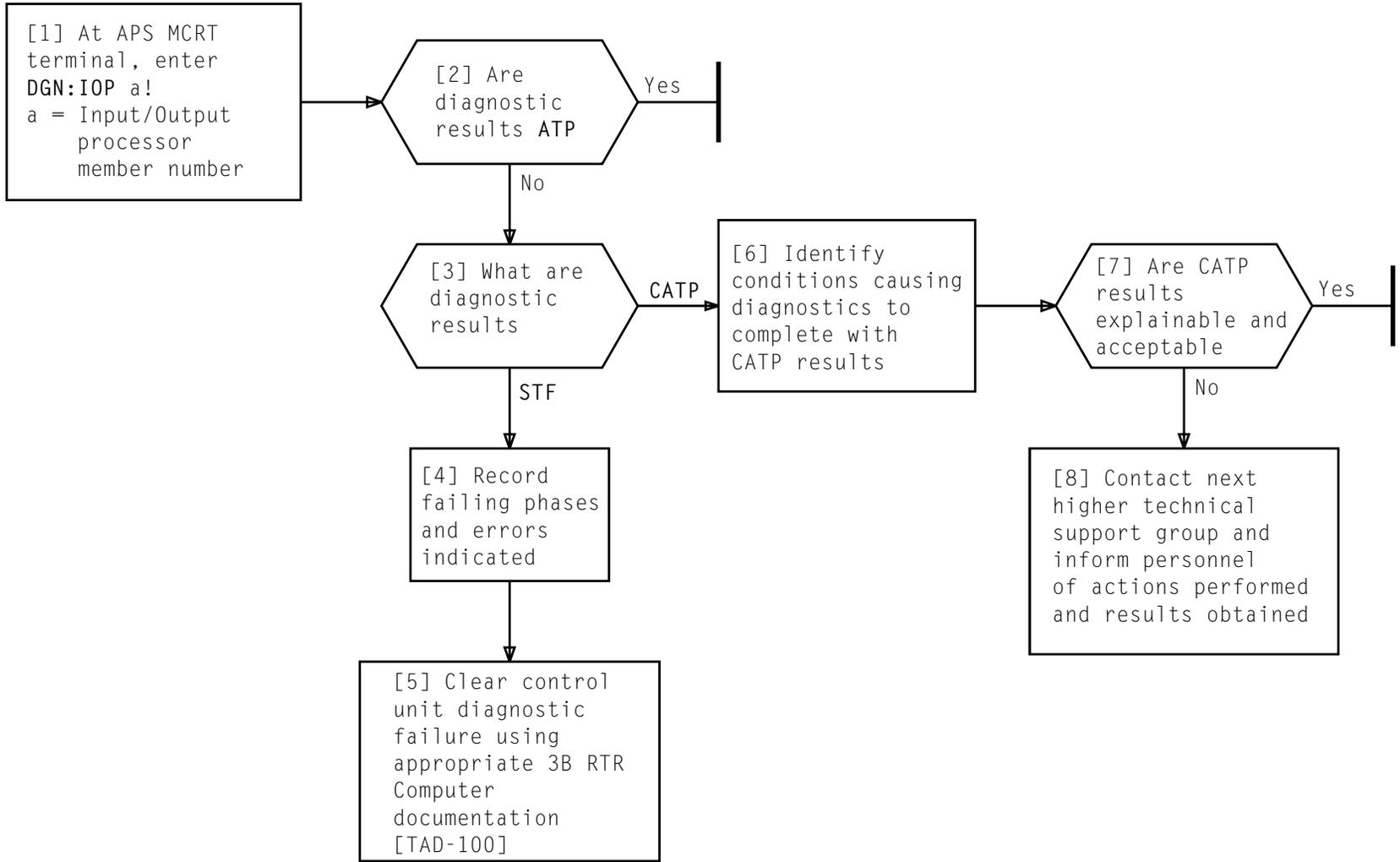
PERFORM ATTACHED PROCESSOR SYSTEM (APS) DISK FILE CONTROLLER (DFC) DEMAND DIAGNOSTICS

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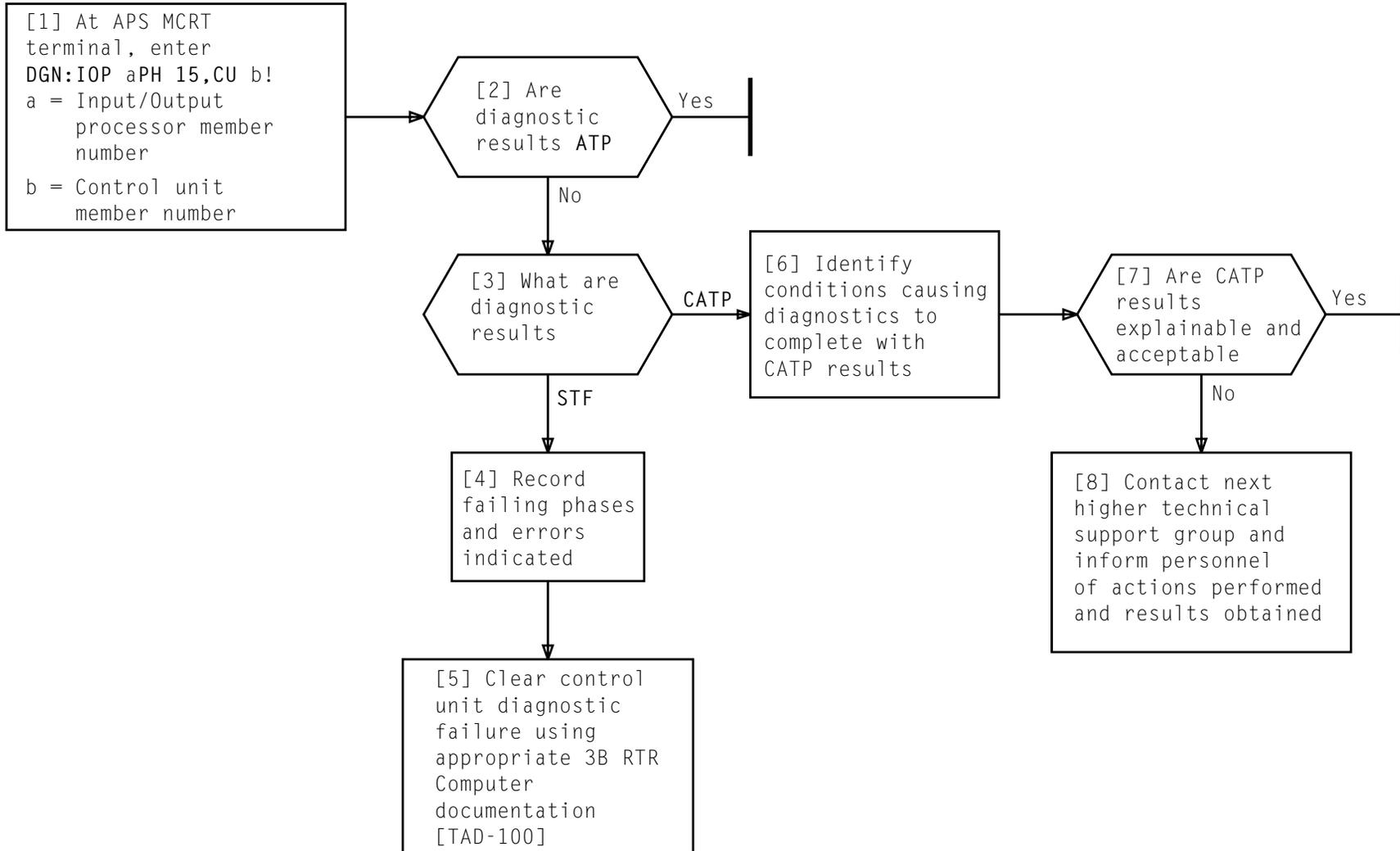
PERFORM ATTACHED PROCESSOR SYSTEM (APS) DISK FILE CONTROLLER (DFC) DEMAND DIAGNOSTICS

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PERFORM ATTACHED PROCESSOR SYSTEM (APS) INPUT/OUTPUT PROCESSOR (IOP) DIAGNOSTICS

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**PERFORM ATTACHED PROCESSOR SYSTEM (APS) INPUT/OUTPUT
 PROCESSOR (IOP) DEMAND DIAGNOSTICS**

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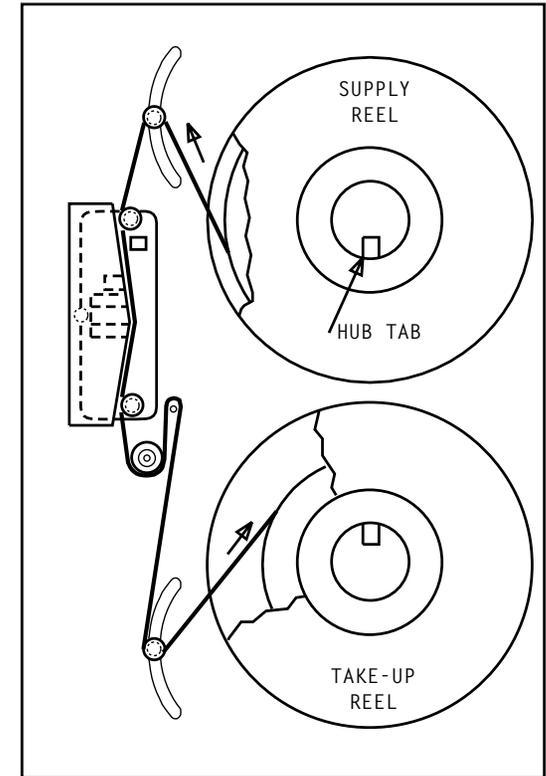
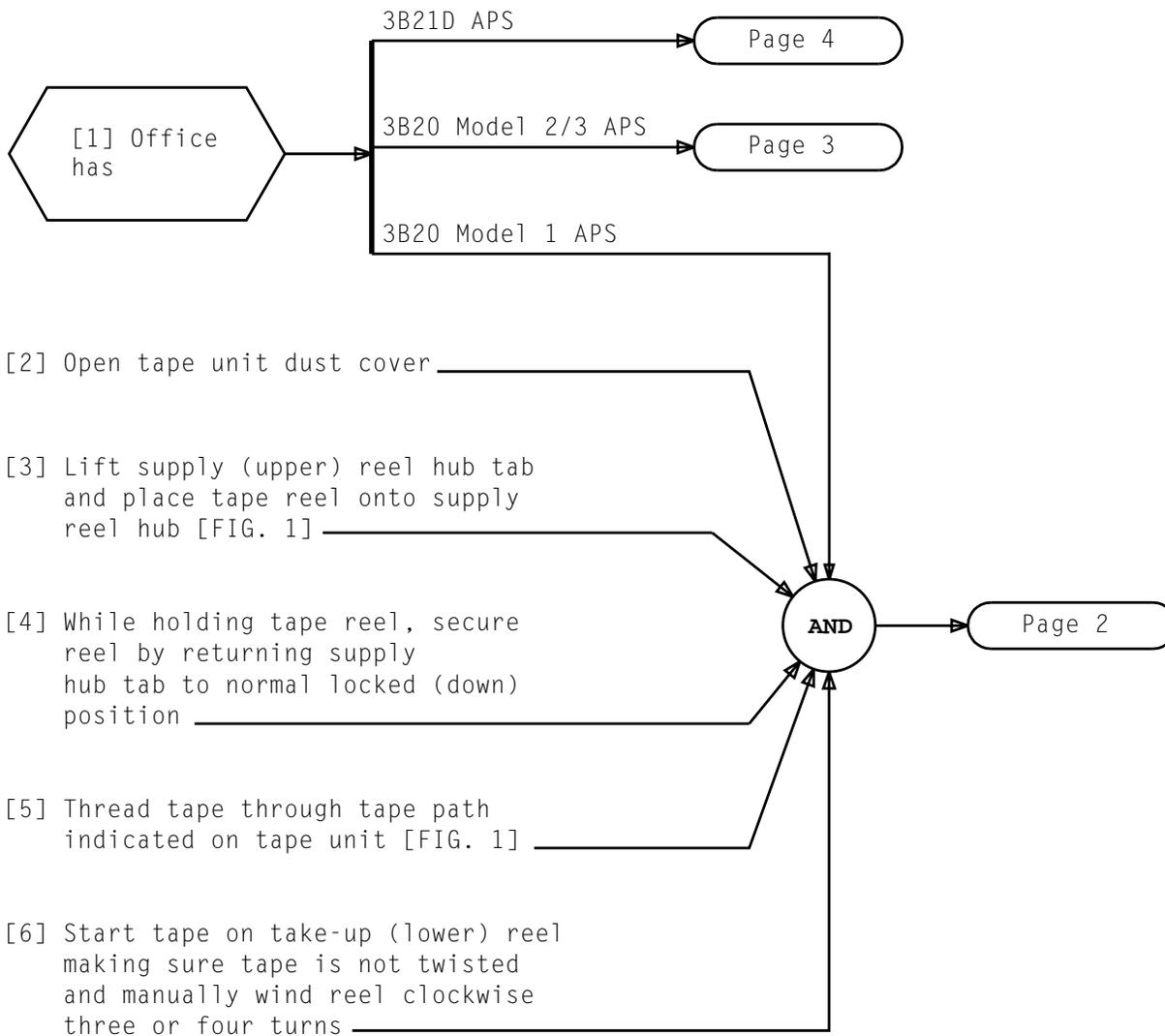
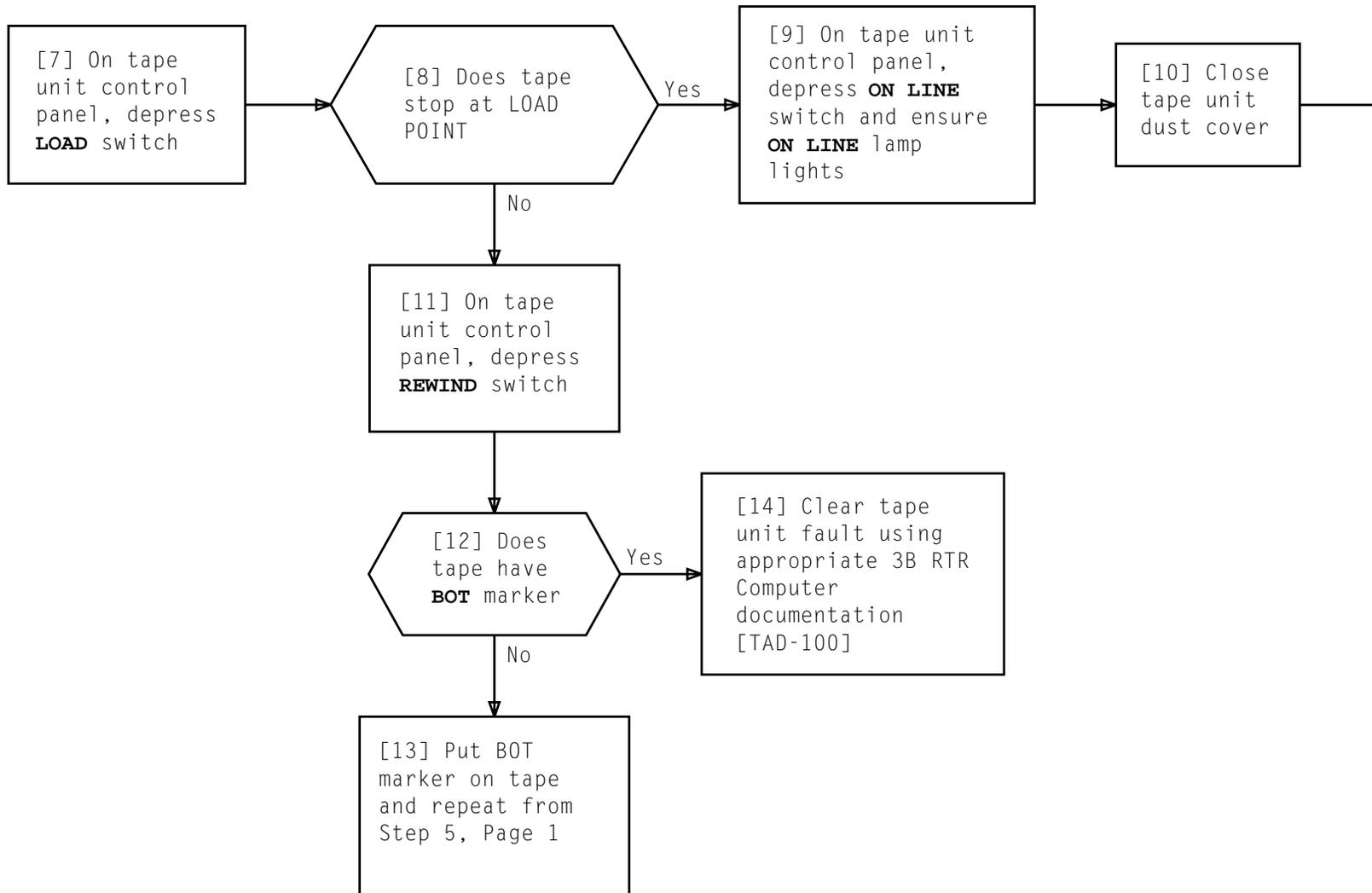


FIG. 1 - APS Kennedy Tape Unit

MOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS) TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT

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MOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS) TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT

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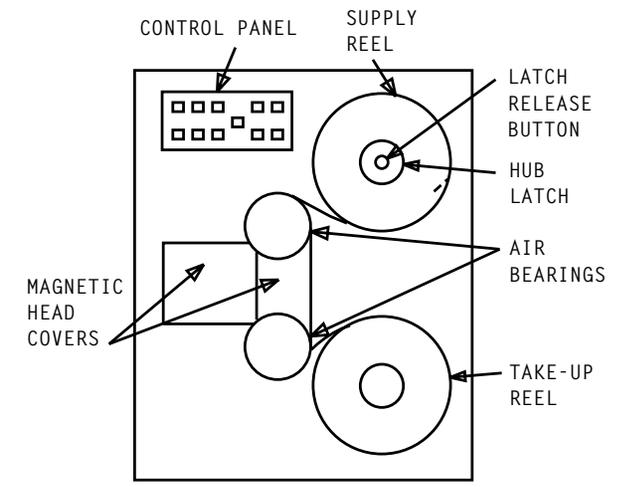
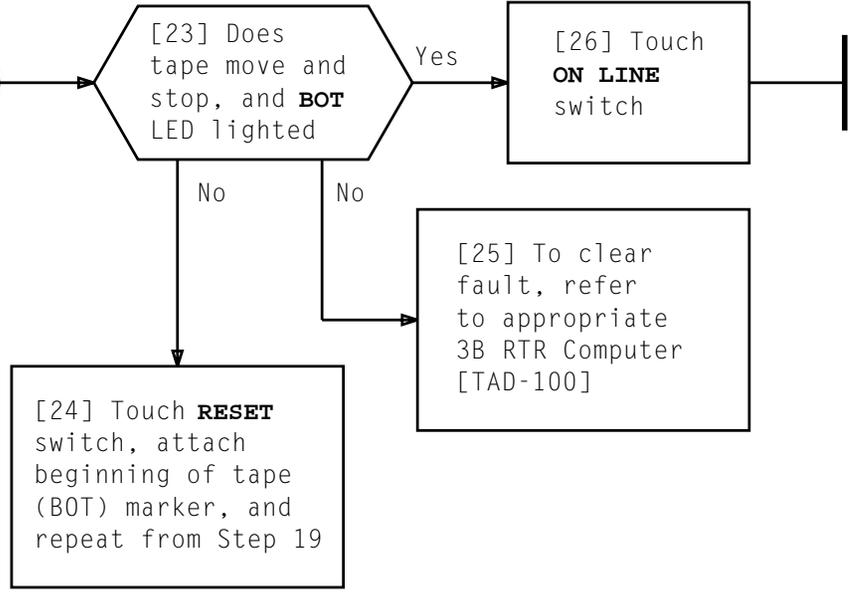
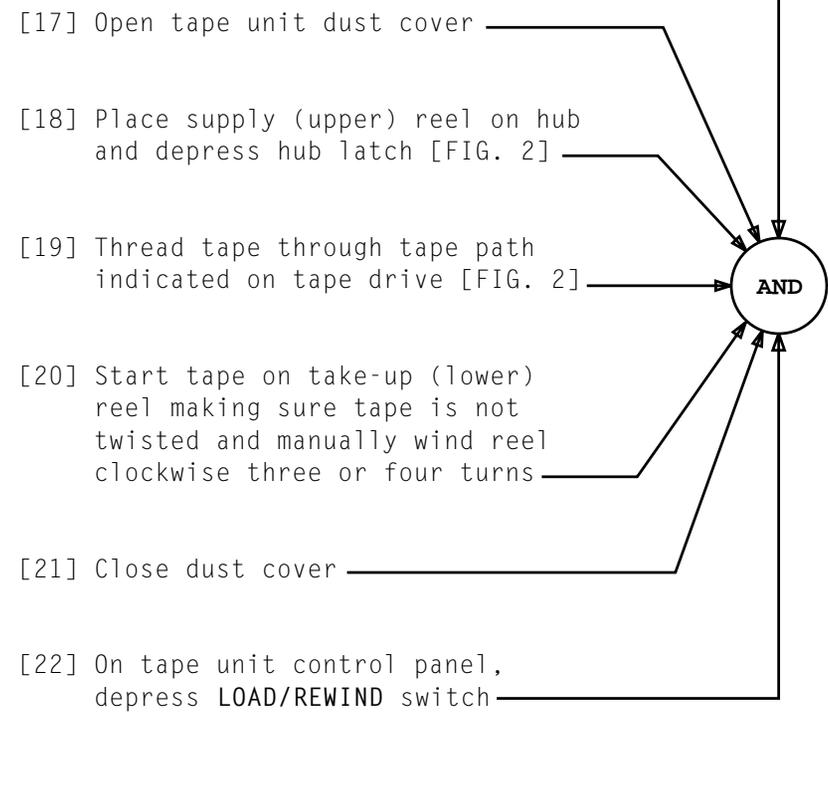


FIG. 2 - APS Keystone Tape Unit



MOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS) TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT

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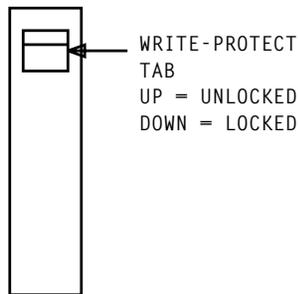
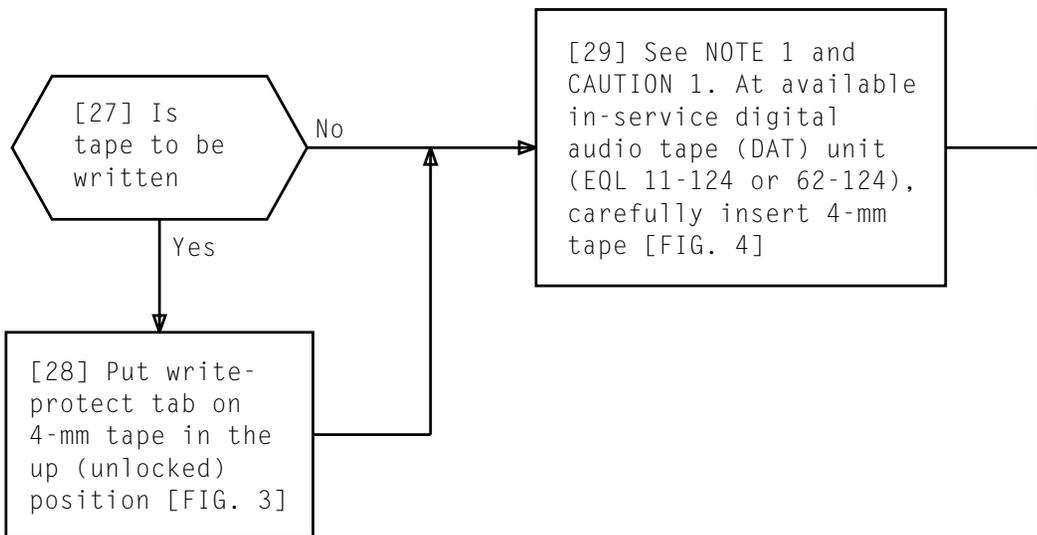


FIG. 3 - 4-mm Tape

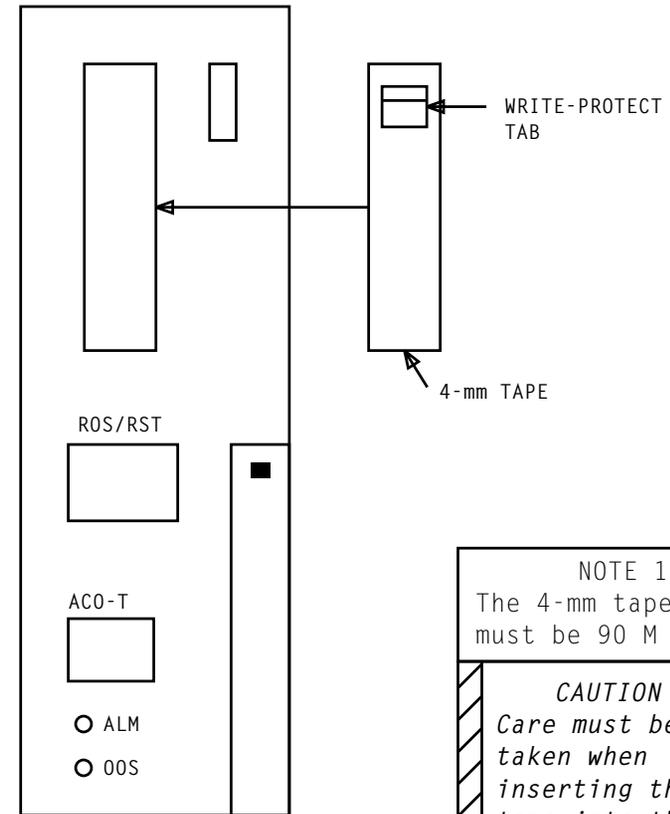


FIG. 4 - DAT Unit

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

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

MOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS) TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT

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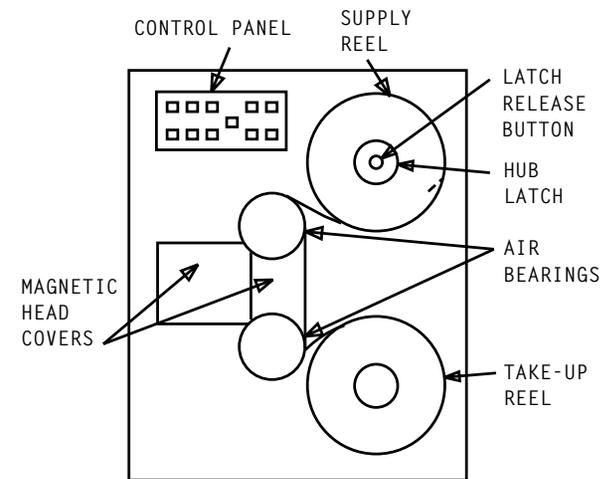
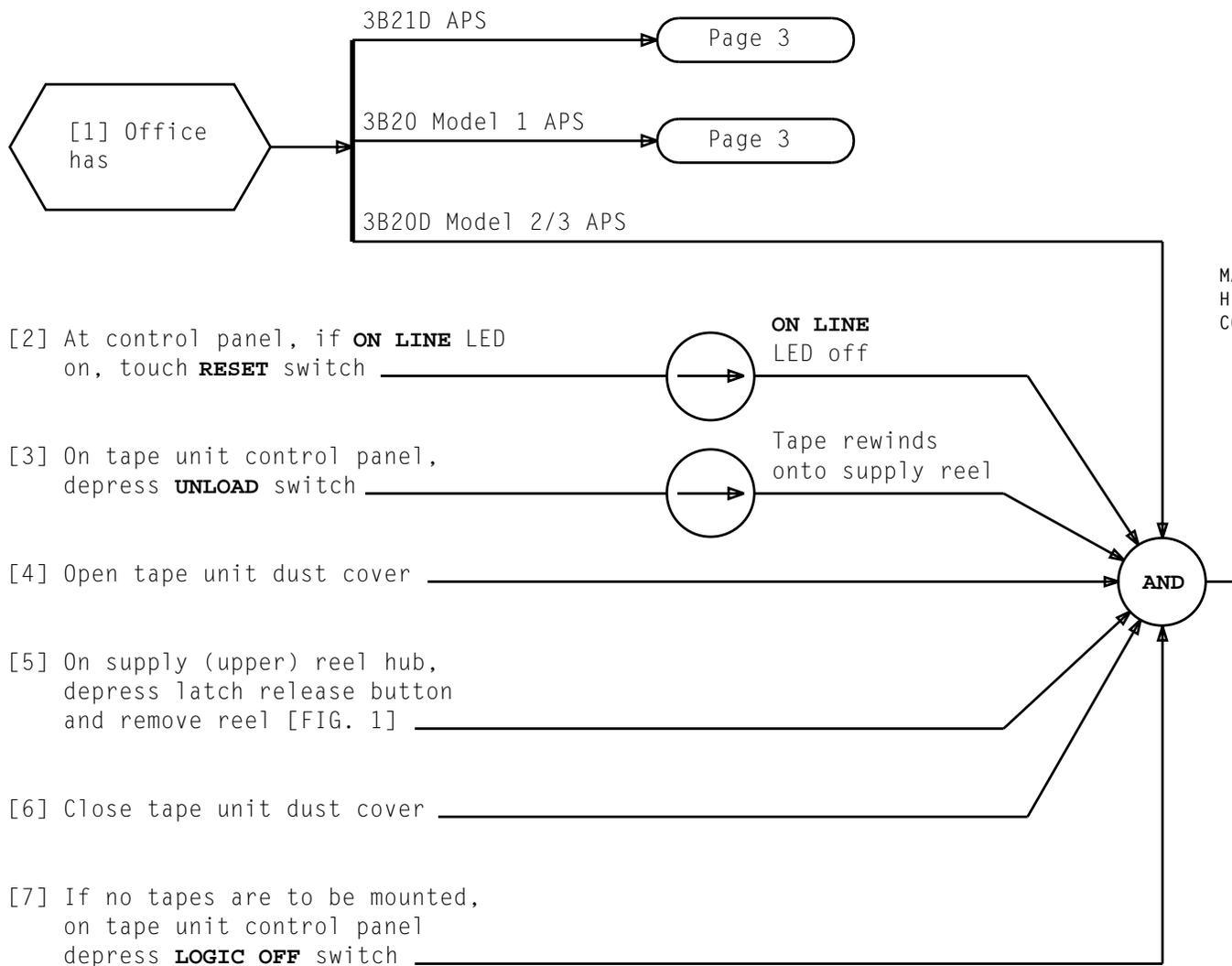


FIG. 1 - APS Keystone Tape Unit

**DEMOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS)
TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT**

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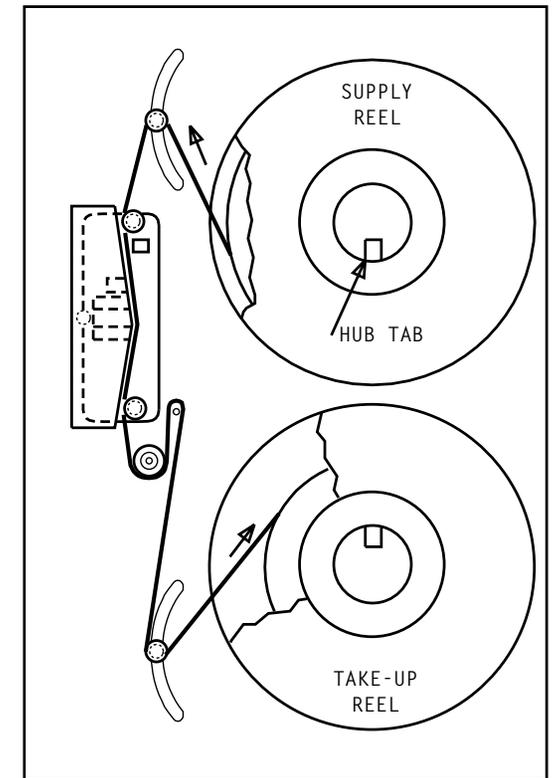
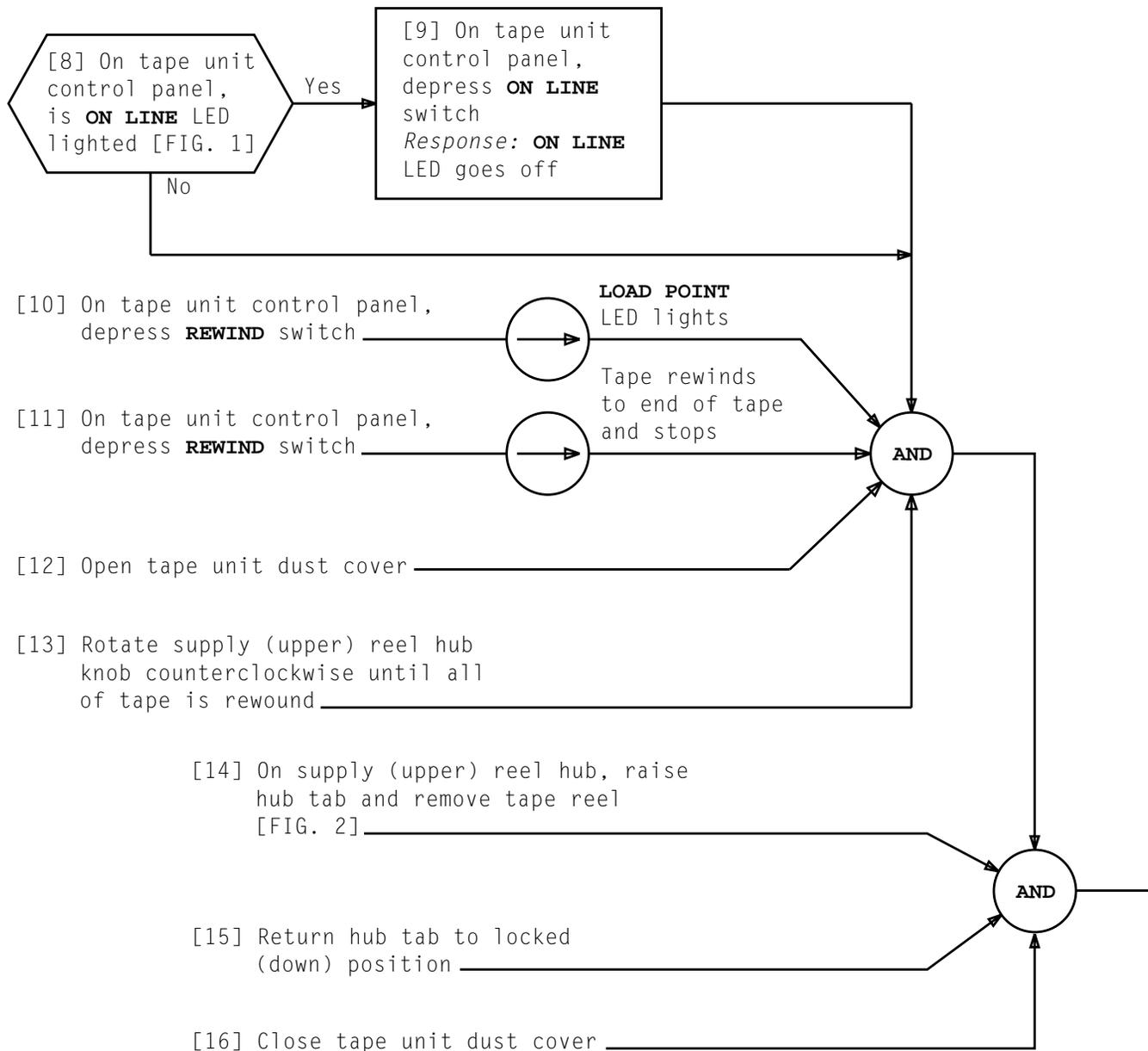


FIG. 2 - APS Kennedy Tape Unit

**DEMOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS)
TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT**

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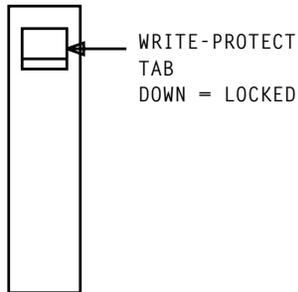
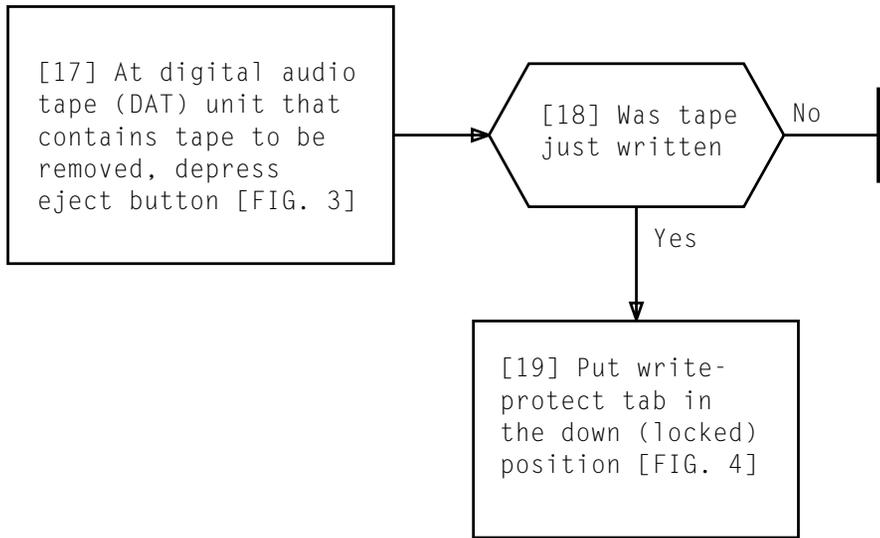


FIG. 4 - 4-mm Tape

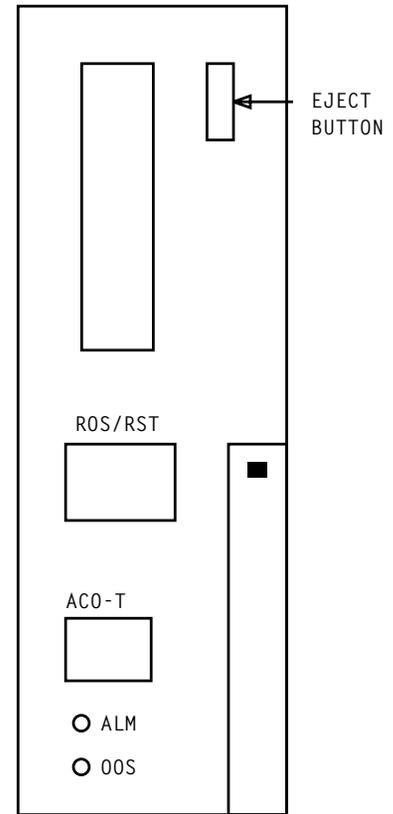


FIG. 3 - DAT Unit

DEMOUNT TAPE ON ATTACHED PROCESSOR SYSTEM (APS)
TAPE UNIT OR DIGITAL AUDIO TAPE (DAT) UNIT

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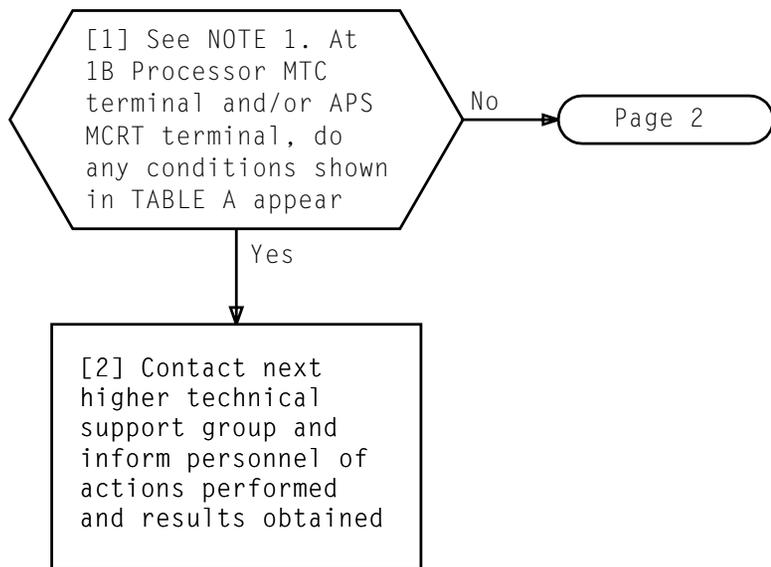
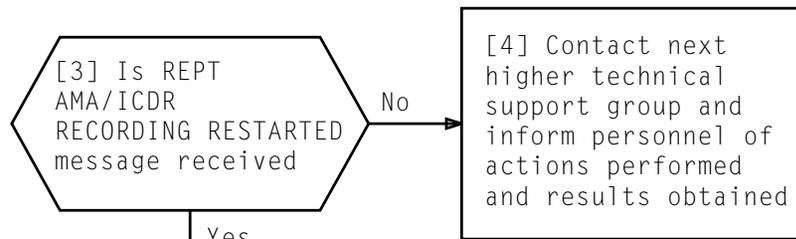


TABLE A	
TROUBLE	RESPONSIBLE AREA
APS duplex failed	APS
APS AMA disks are duplex failed	APS
APIs are duplex failed	APS/1B
AU bus (1B side) is duplex failed	1B
AMA disk partition is 100% full	APS

NOTE 1 When buffer overflow report message appears, a critical alarm is also initiated	
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**CLEAR ATTACHED PROCESSOR SYSTEM (APS) AMA/ICDR
TRANSFER BUFFER OVERFLOW PROBLEM**



[5] At APS MCRT terminal, enter
STOP:EXC:ANY, FN "/AMA/AMdwriteric", UCL!

[6] At APS MCRT terminal, enter
STOP:EXC:ANY, FN "/AMA/AMdwriteroc", UCL!

[7] At APS MCRT terminal, enter
STOP:EXC:ANY, FN "/AMA/AMformat", UCL!

[8] At APS MCRT terminal, enter
STOP:EXC:ANY, FN "/AMA/INdwriter", UCL!

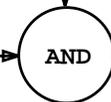
AMdwriteric,
AMdwriteroc,
AMformat
and INdwriter
processes killed



[9] Restart AMA
processes [DLP-537]

[10] At APS MCRT terminal, enter
OP:STATUS:PROCESS,ALLKERNs!

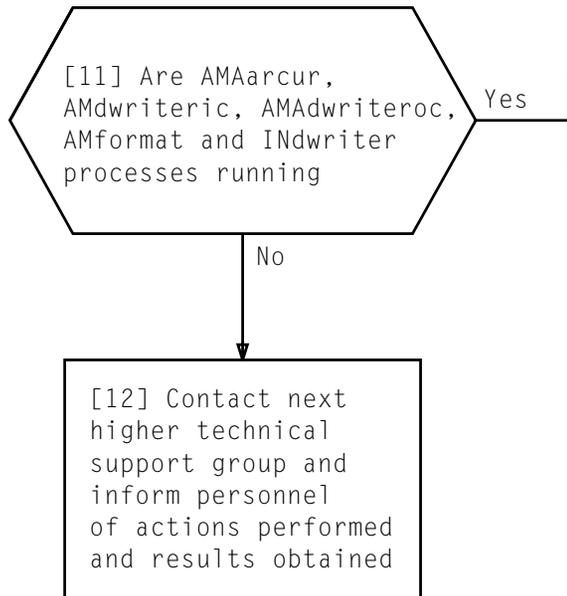
Status
printout
received



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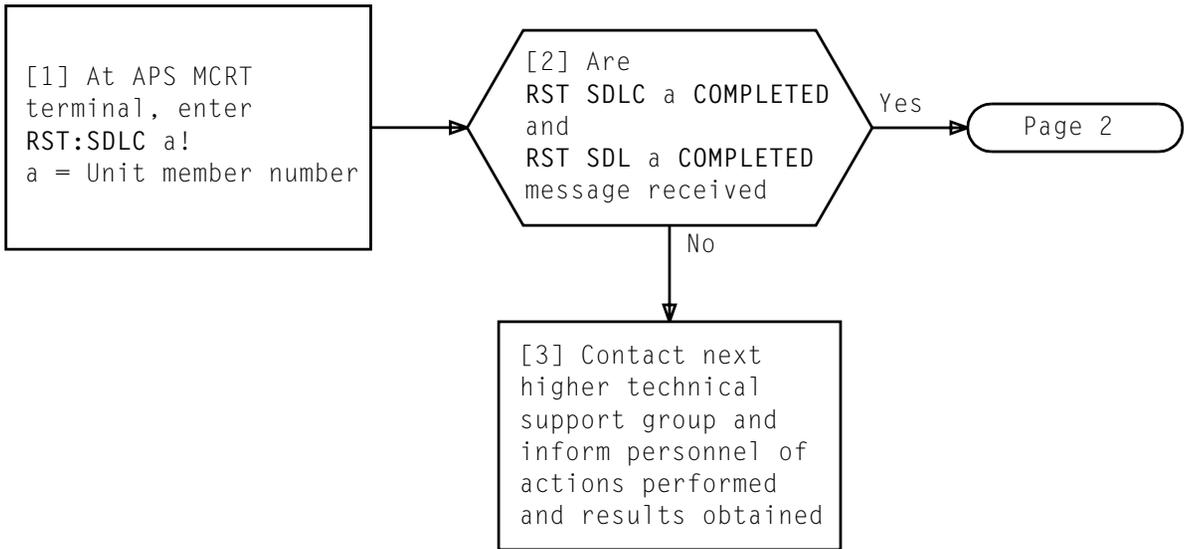
**CLEAR ATTACHED PROCESSOR SYSTEM (APS) AMA/ICDR
TRANSFER BUFFER OVERFLOW PROBLEM**

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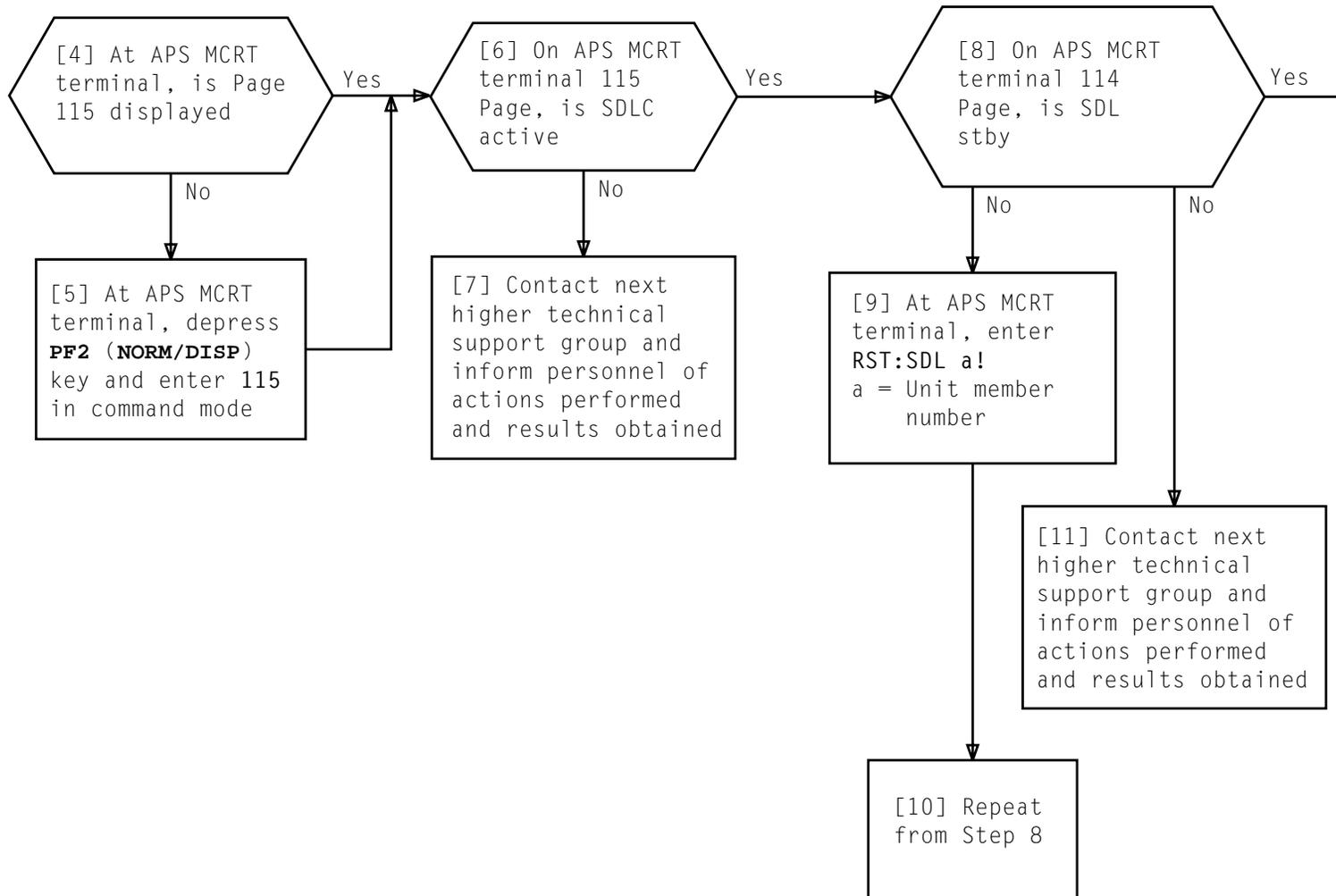
**CLEAR ATTACHED PROCESSOR SYSTEM (APS) AMA/ICDR
TRANSFER BUFFER OVERFLOW PROBLEM**

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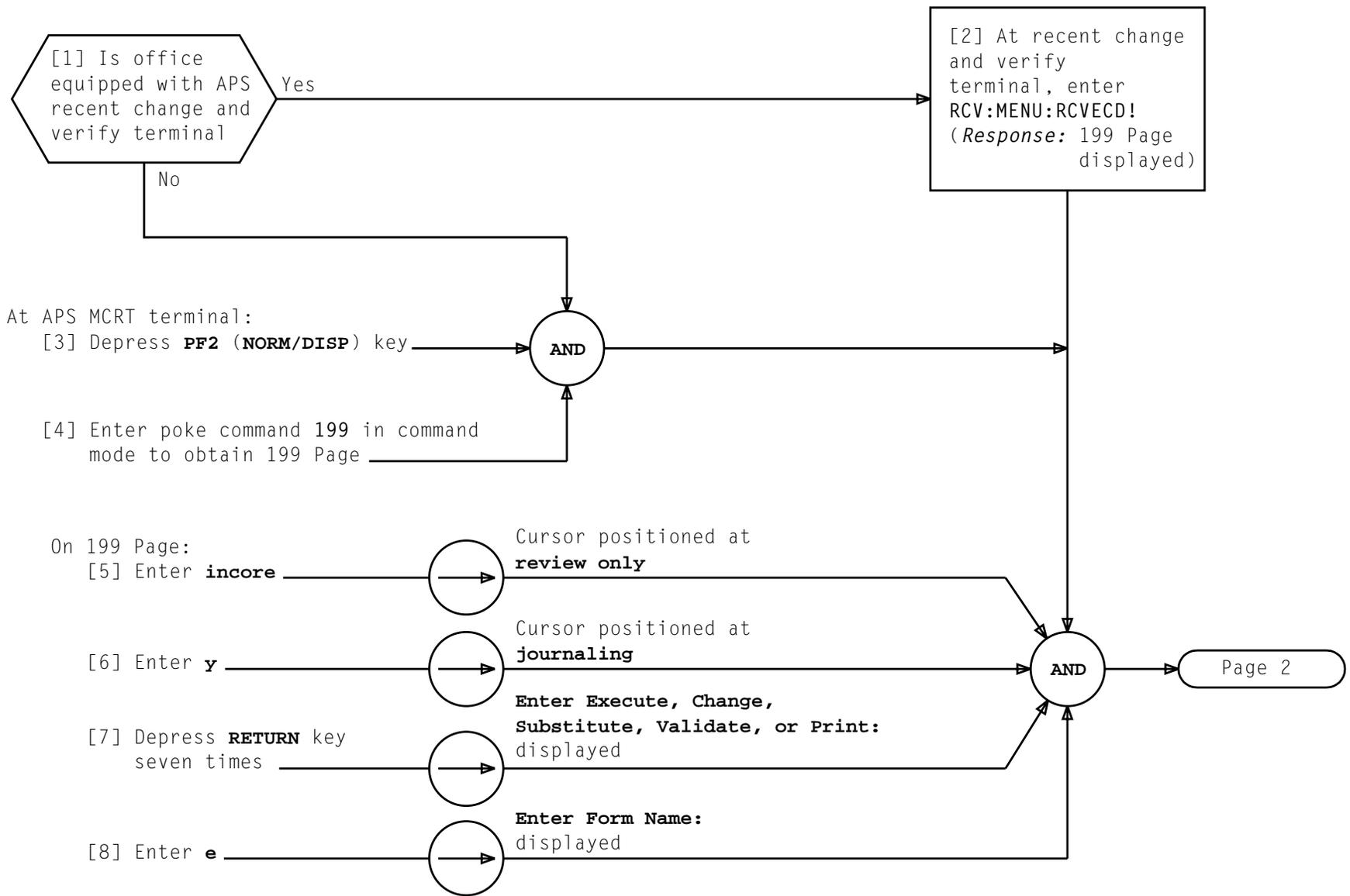
RESTORE ATTACHED PROCESSOR SYSTEM (APS) SYNCHRONIOUS DATA LINK CONTROLLER (SDLC) AND SYNCHRONIOUS DATA LINK (SDL)

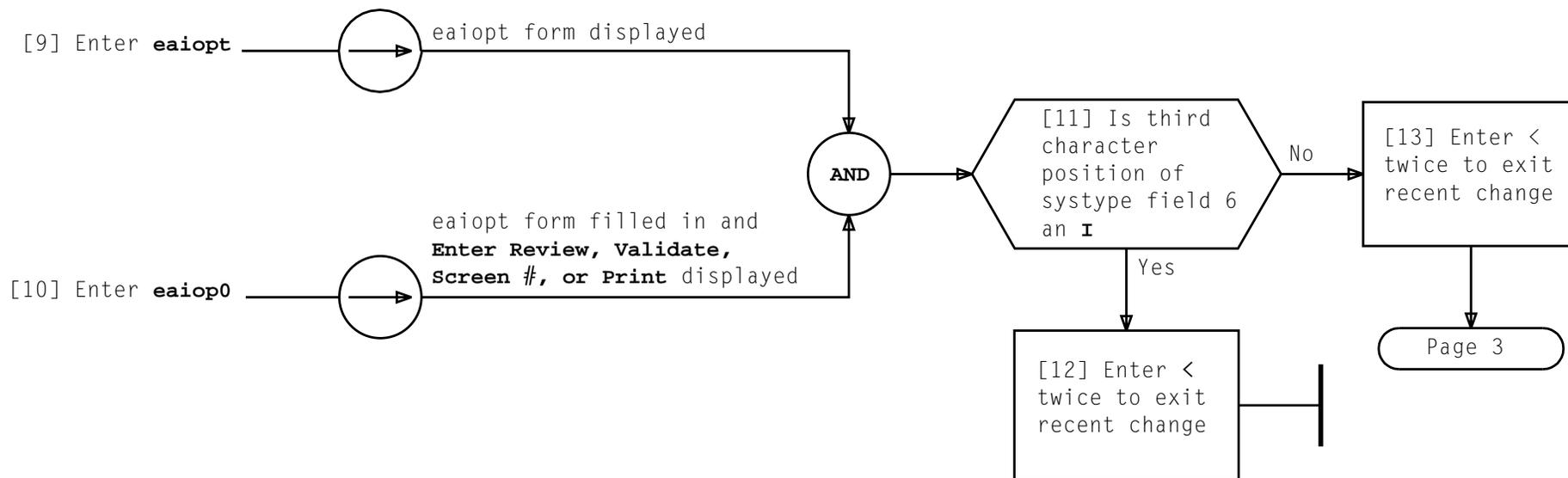
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RESTORE ATTACHED PROCESSOR SYSTEM (APS) SYNCHRONIOUS DATA LINK CONTROLLER (SDLC) AND SYNCHRONIOUS DATA LINK (SDL)

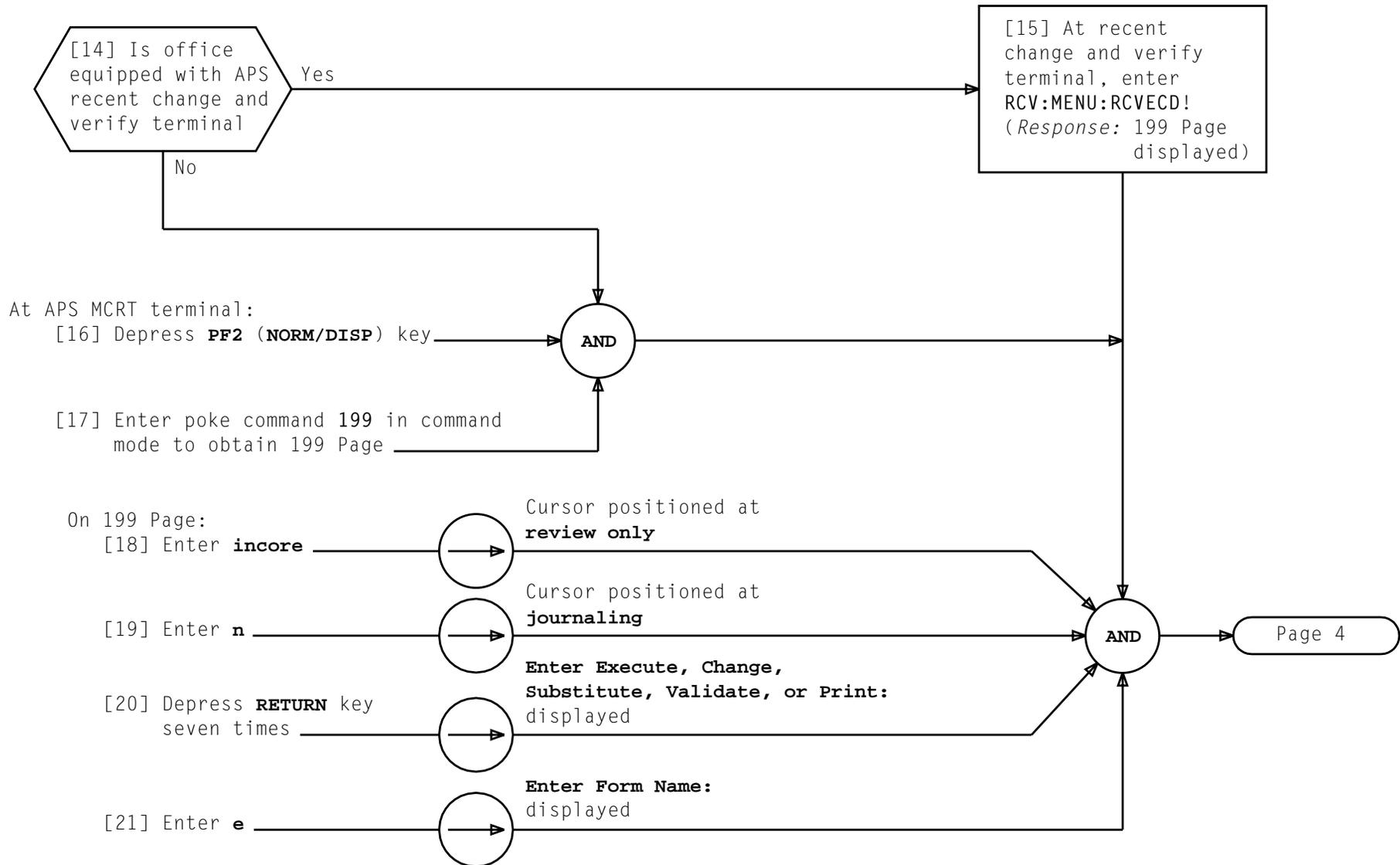
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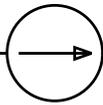
VERIFY ATTACHED PROCESSOR SYSTEM (APS) SYSTYPE FIELD DATA

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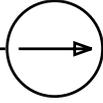
On 199 Page:

[22] Enter **trbegin**



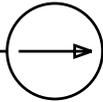
tr_name form
displayed

[23] Enter **rceaiopt**



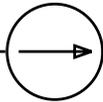
**Enter Execute, Change,
Substitute, Validate, or Print:**
displayed

[24] Enter **e**



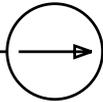
FORM EXECUTED
displayed momentarily; then,
Enter Form Name:
displayed

[25] Enter **eaiopt**



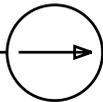
Enter Database Operation
I=Insert R=Review U=Update D=Delete
displayed

[26] Enter **u**

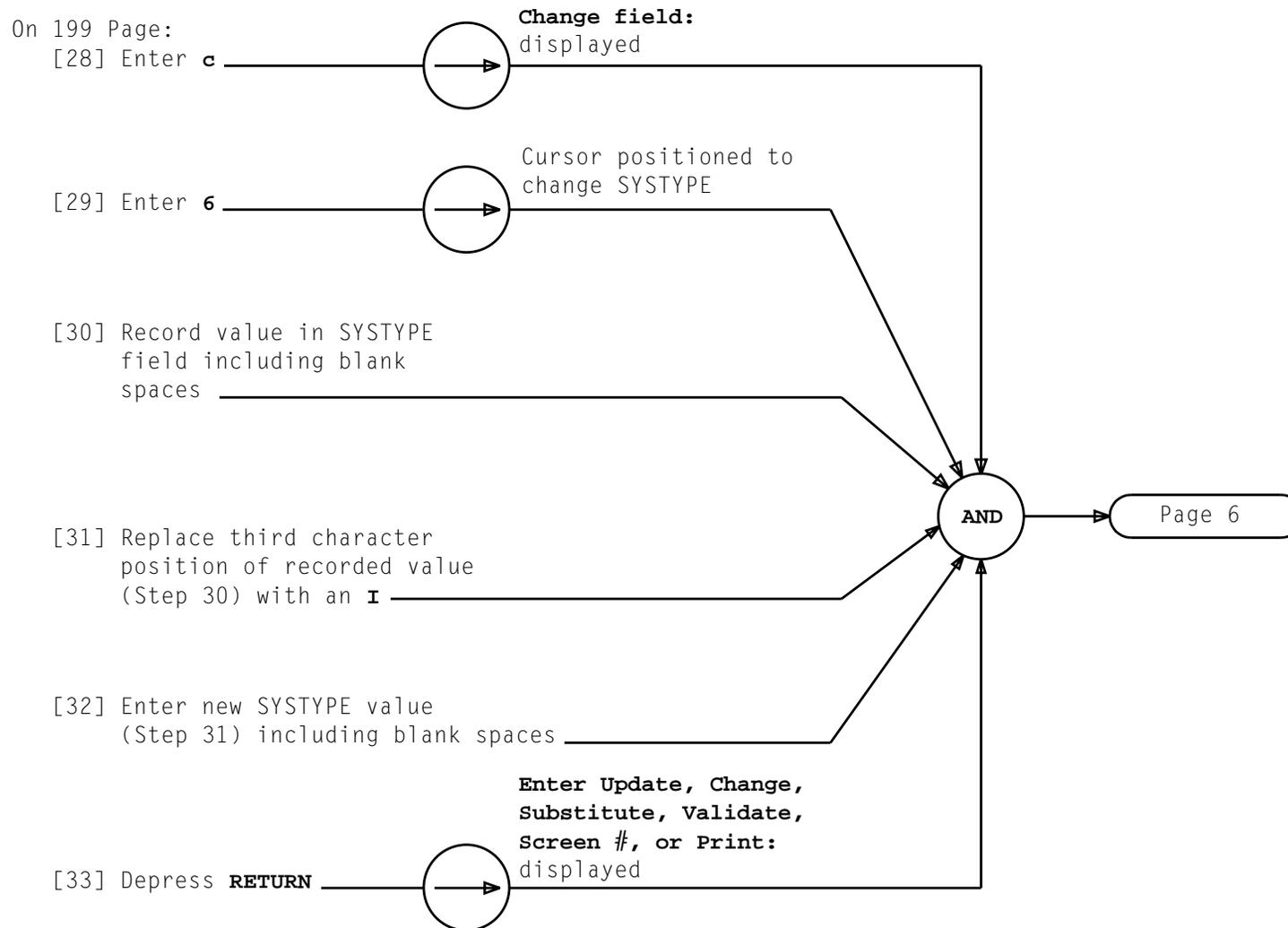


eaiopt form displayed
eaiopt form filled in and
**Enter Update, Change, Substitute,
Validate, Screen #, or Print:**
displayed

[27] Enter **eaiopt0**



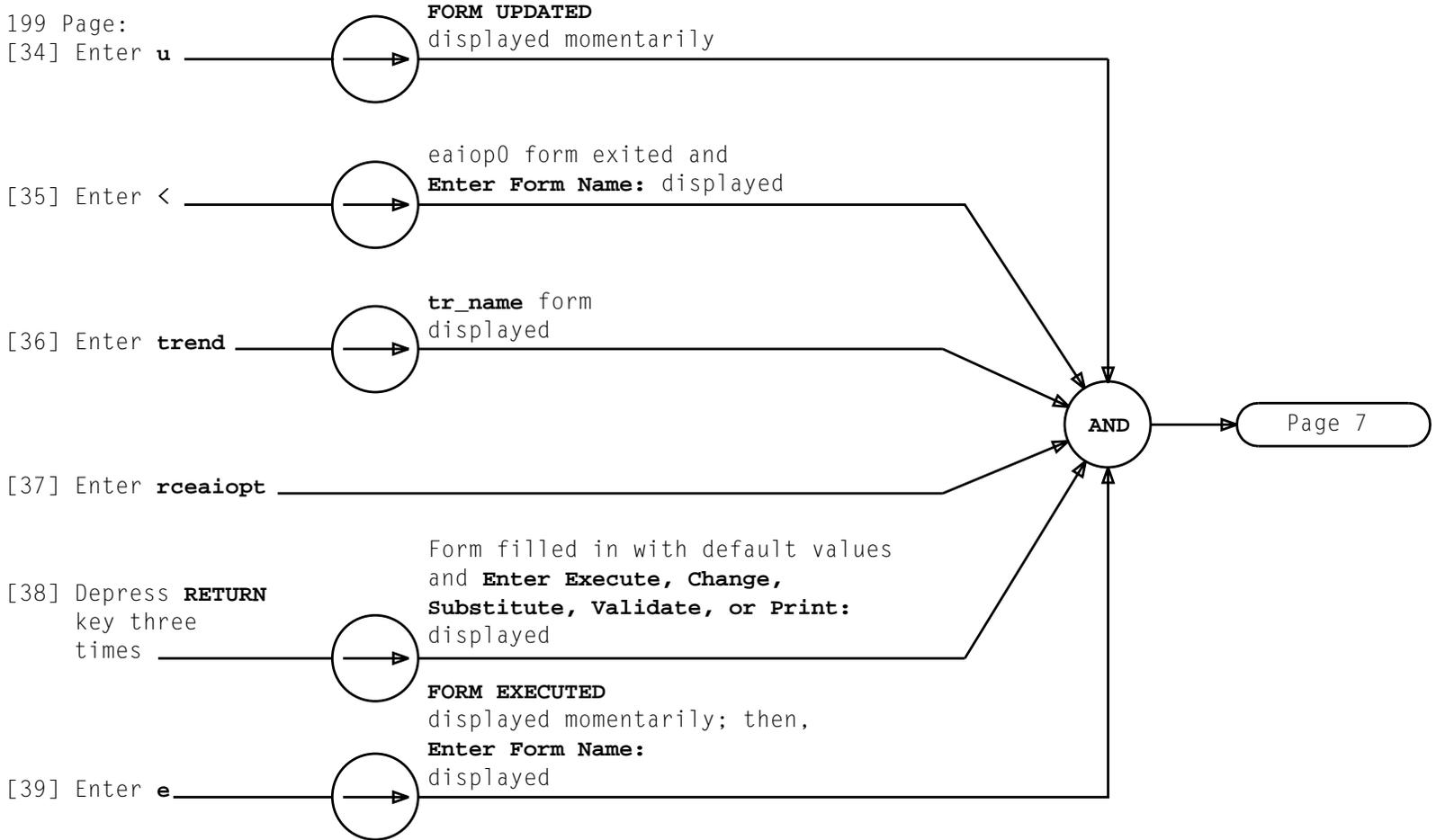
Page 5

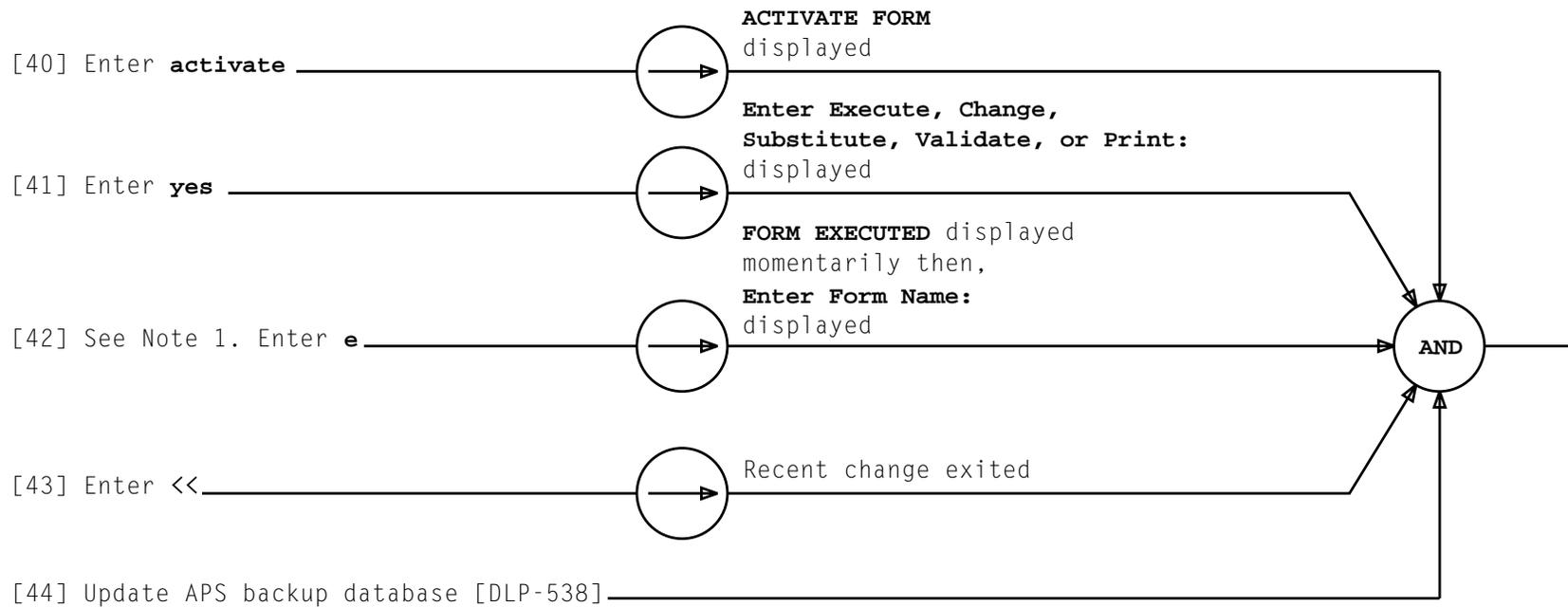


VERIFY ATTACHED PROCESSOR SYSTEM (APS) SYSTYPE FIELD DATA

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On 199 Page:





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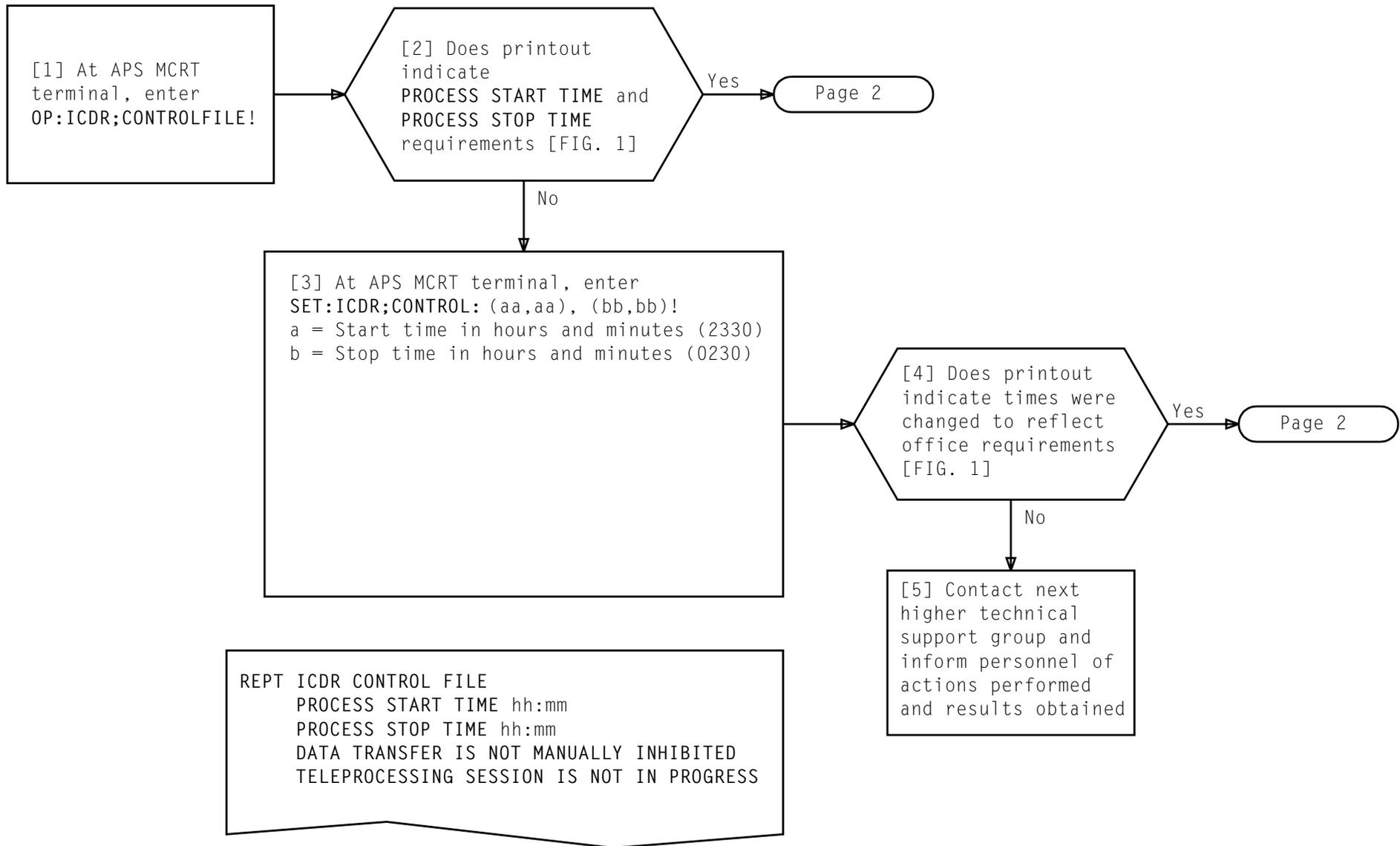
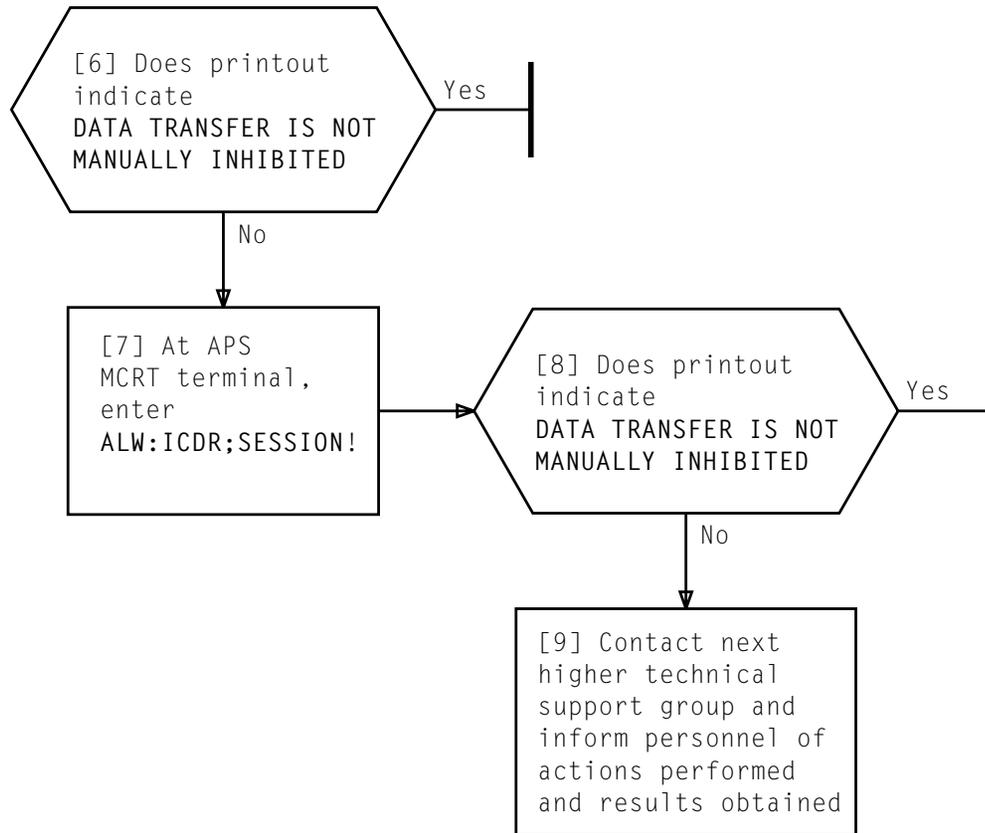
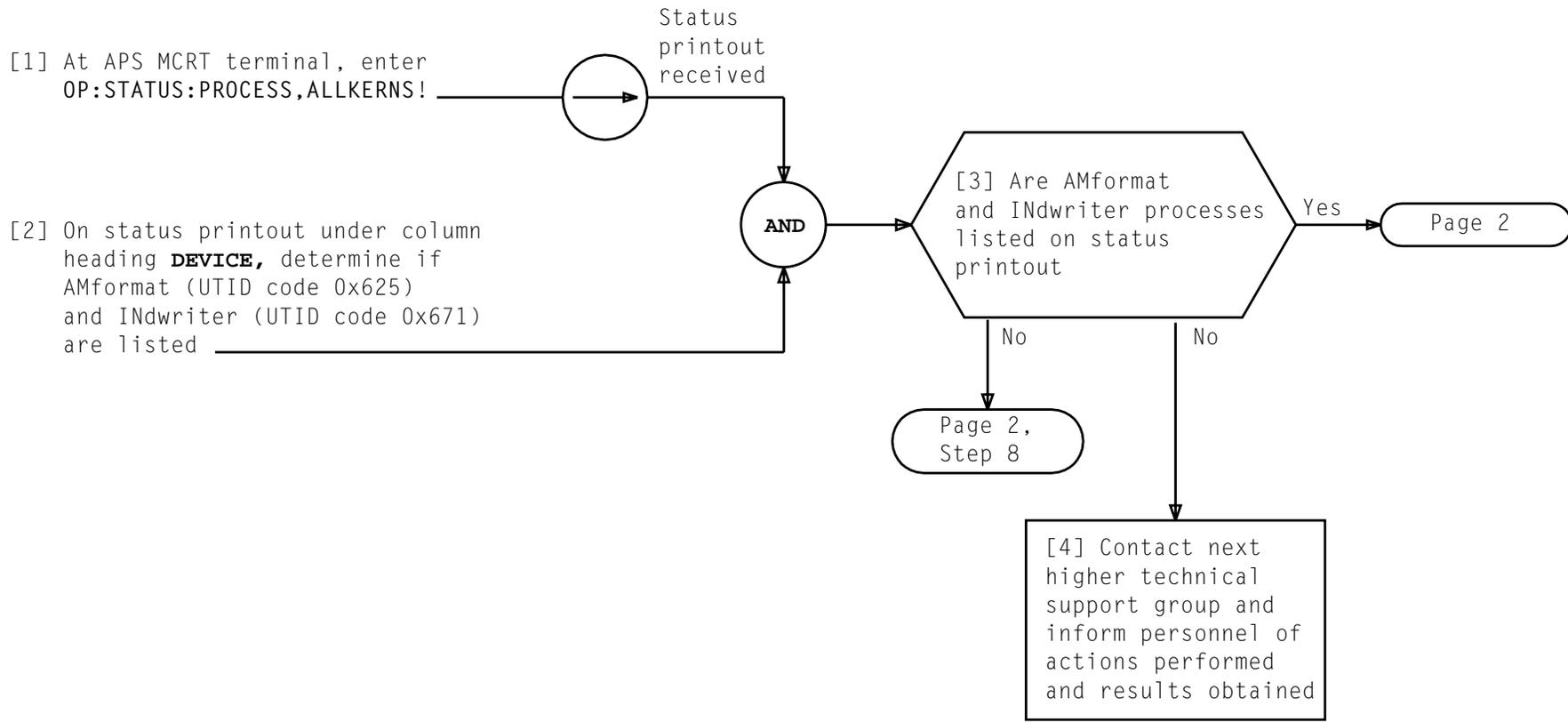


FIG. 1 - Sample Printout of ICDR Control File Status

**VERIFY ATTACHED PROCESSOR SYSTEM (APS) ICDR CONTROL
FILE PARAMETERS**

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[5] At APS MCRT terminal, enter
OP:STATUS:PROCESS,PATH!

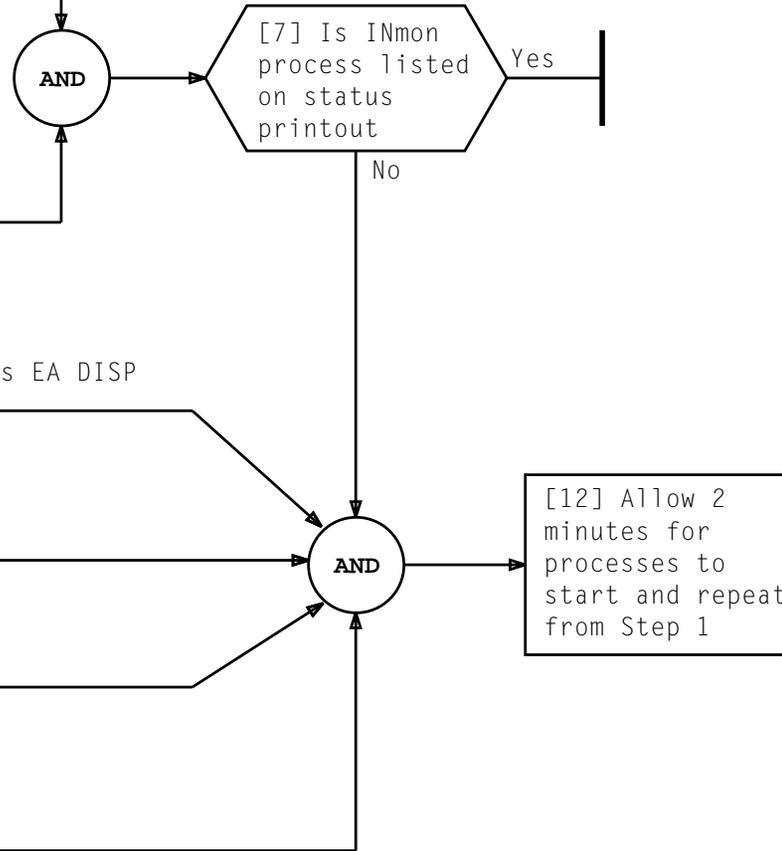
[6] On status printout under column
heading **CMD**, determine if INmon
is listed

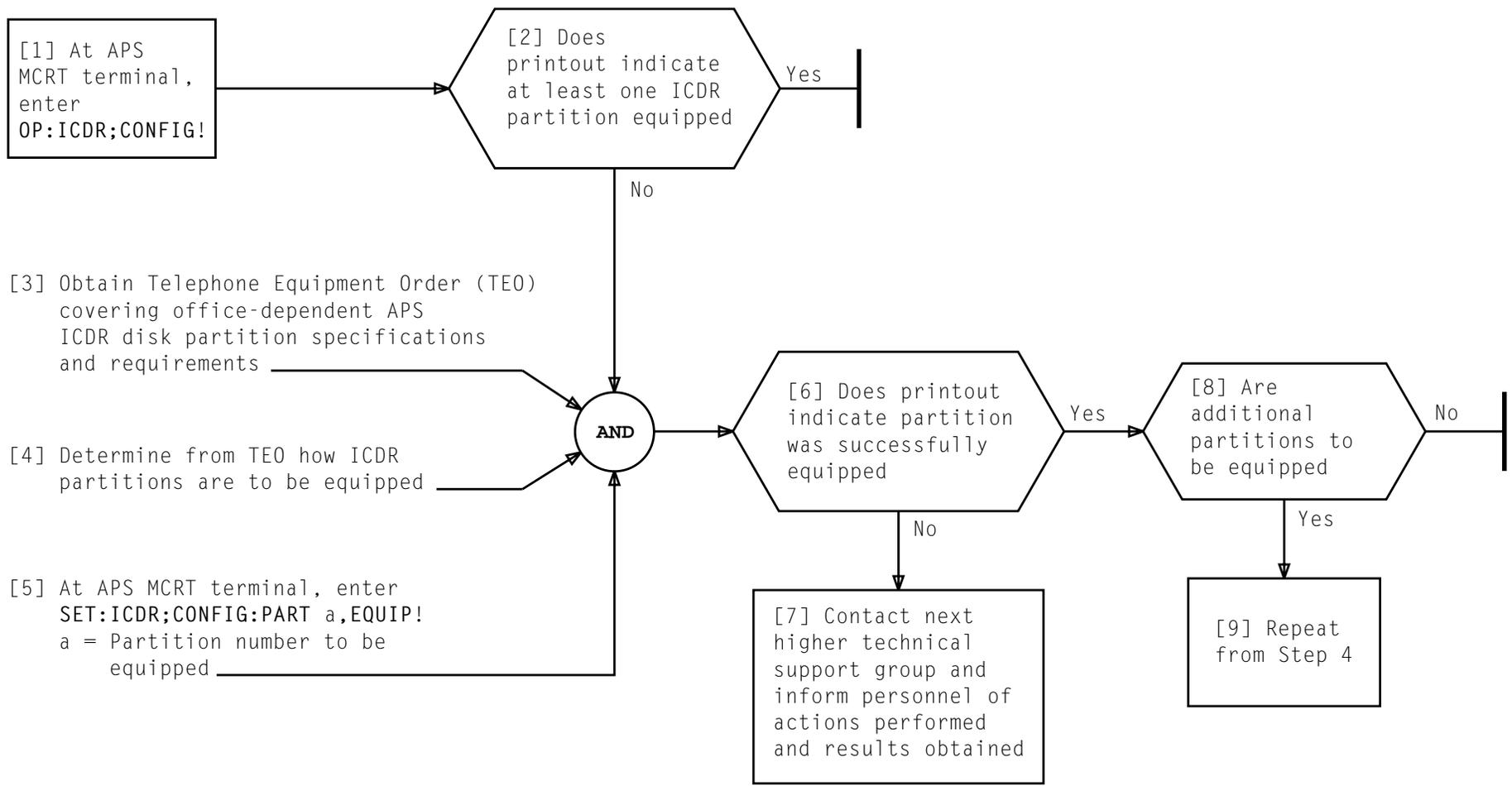
[8] At APS MCRT terminal, depress EA DISP
key to obtain EAI page

[9] At APS MCRT terminal,
enter poke command
42 in command mode

[10] Enter I in command mode
to restart dead processes

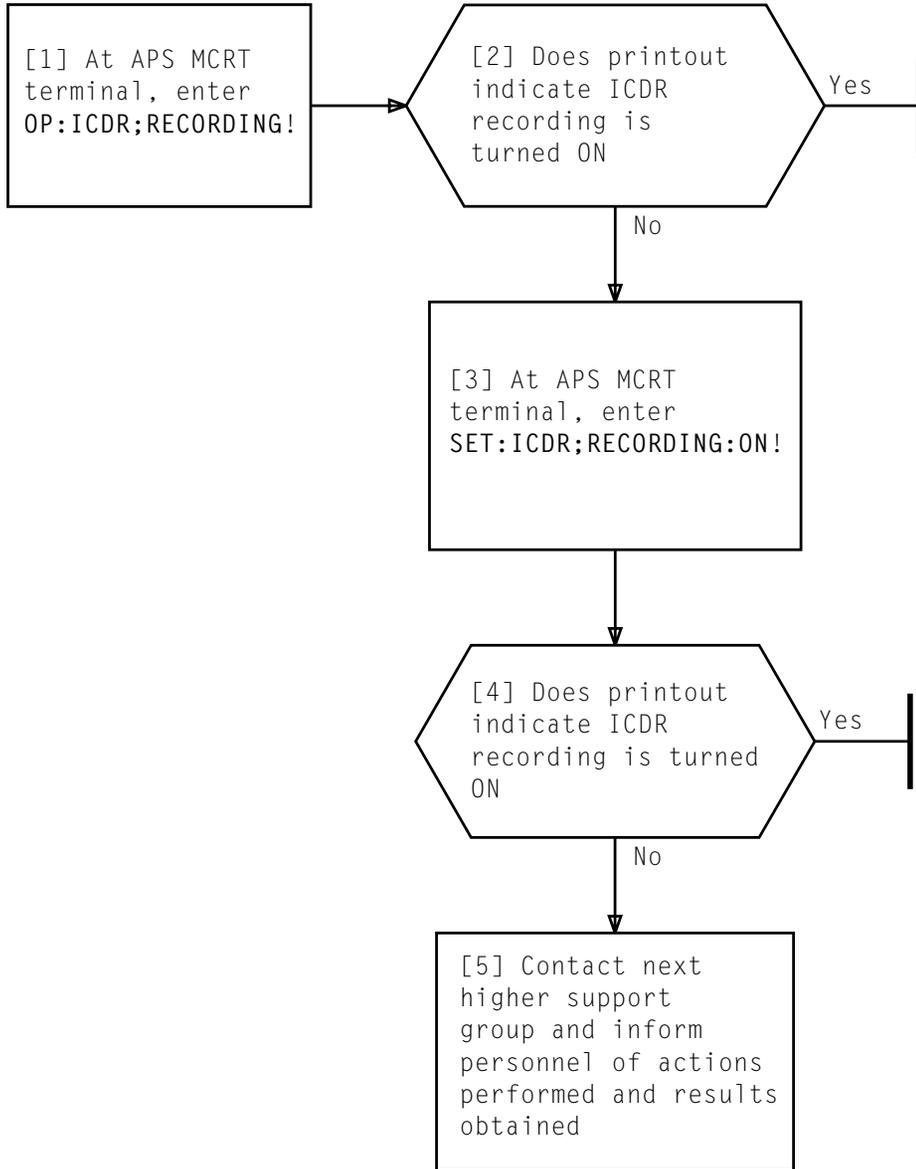
[11] Enter poke command 50
in command mode to
initialize application





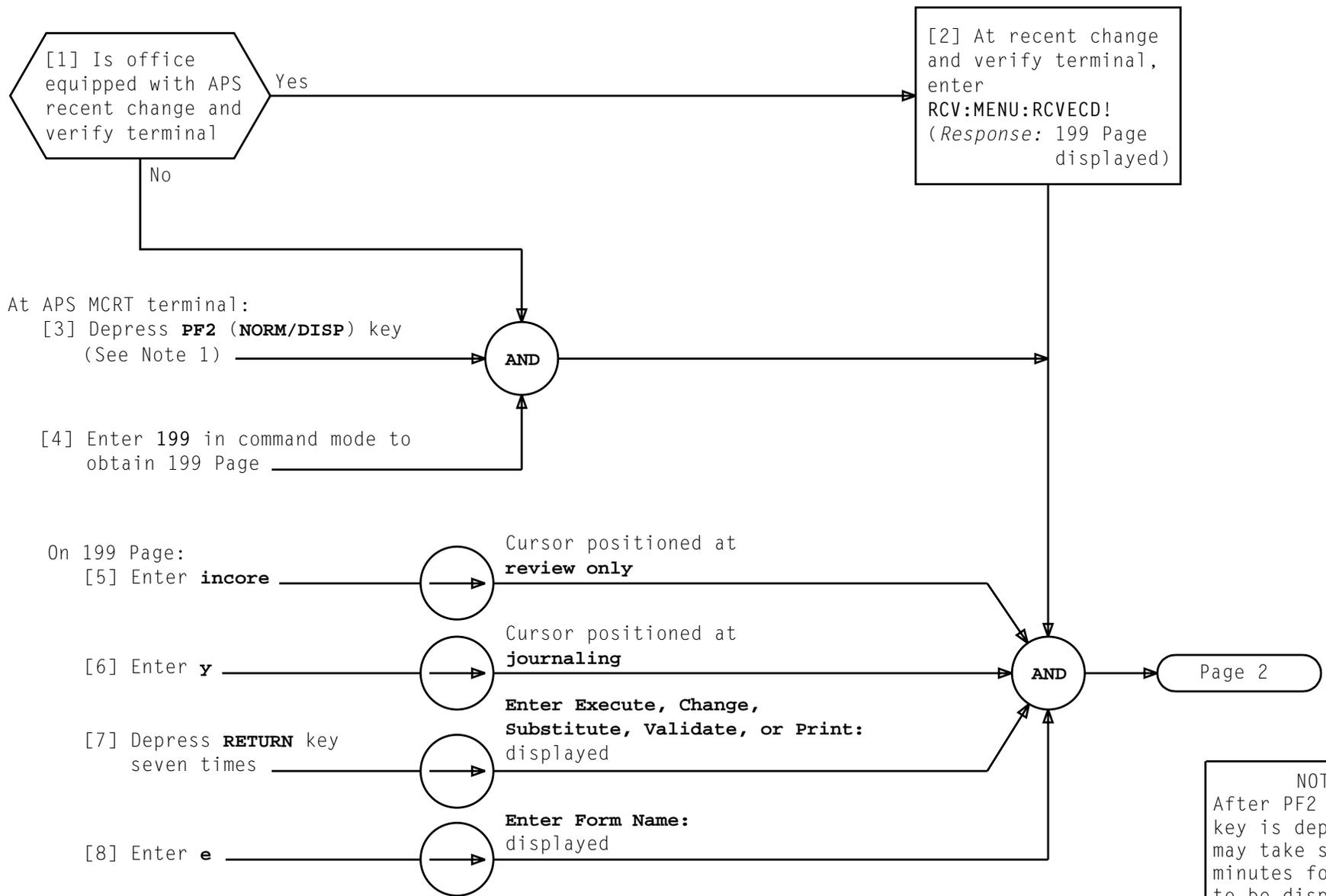
VERIFY ATTACHED PROCESSOR SYSTEM (APS) ICDR PARTITIONS EQUIPPED

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VERIFY ATTACHED PROCESSOR SYSTEM (APS) ICDR RECORDING IS ACTIVATED

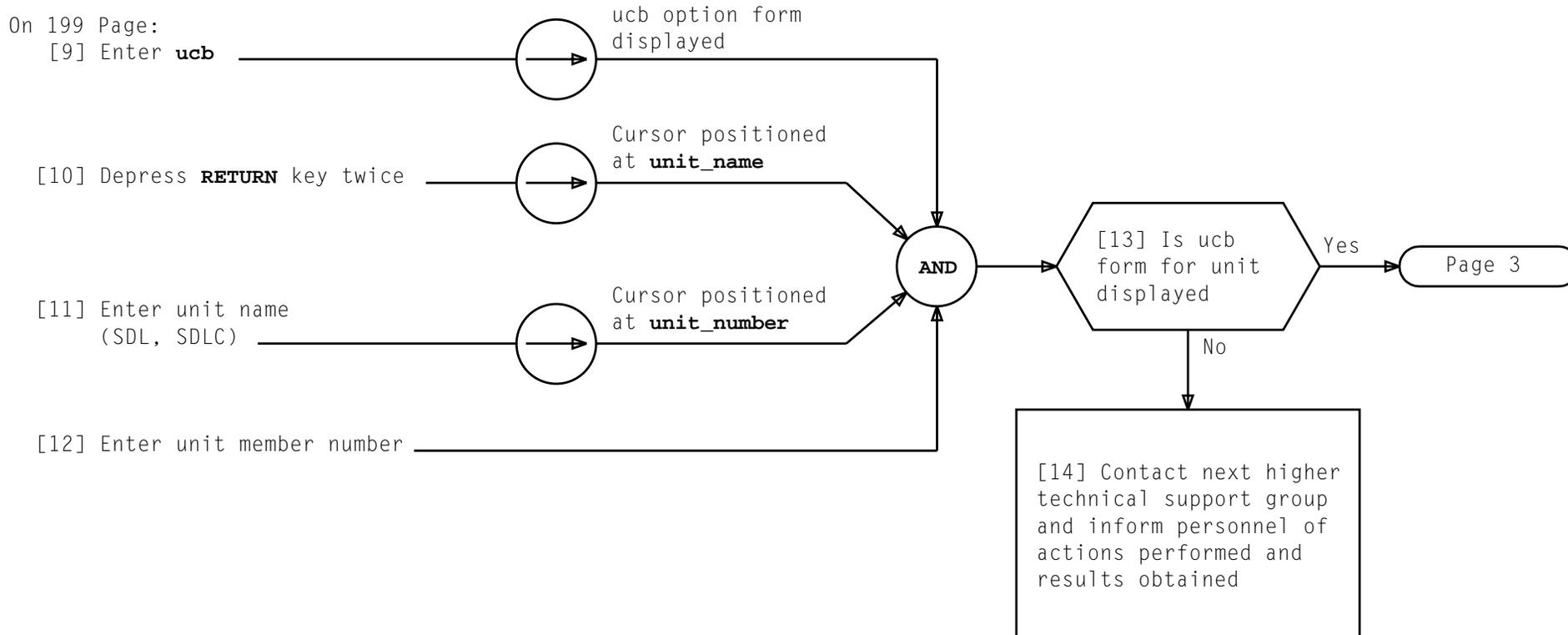
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NOTE 1
After PF2 (NORM/DISP) key is depressed it may take several minutes for 199 page to be displayed

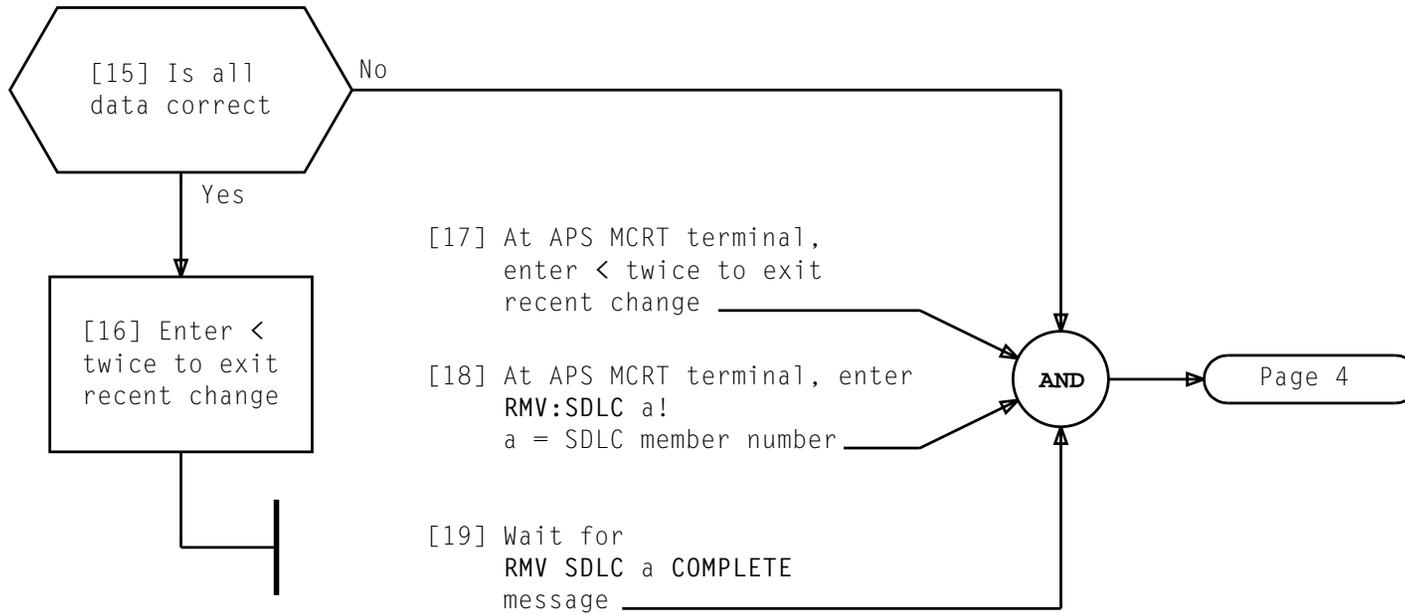
VERIFY ATTACHED PROCESSOR SYSTEM (APS) UNIT CONTROL BLOCK (UCB) DATA

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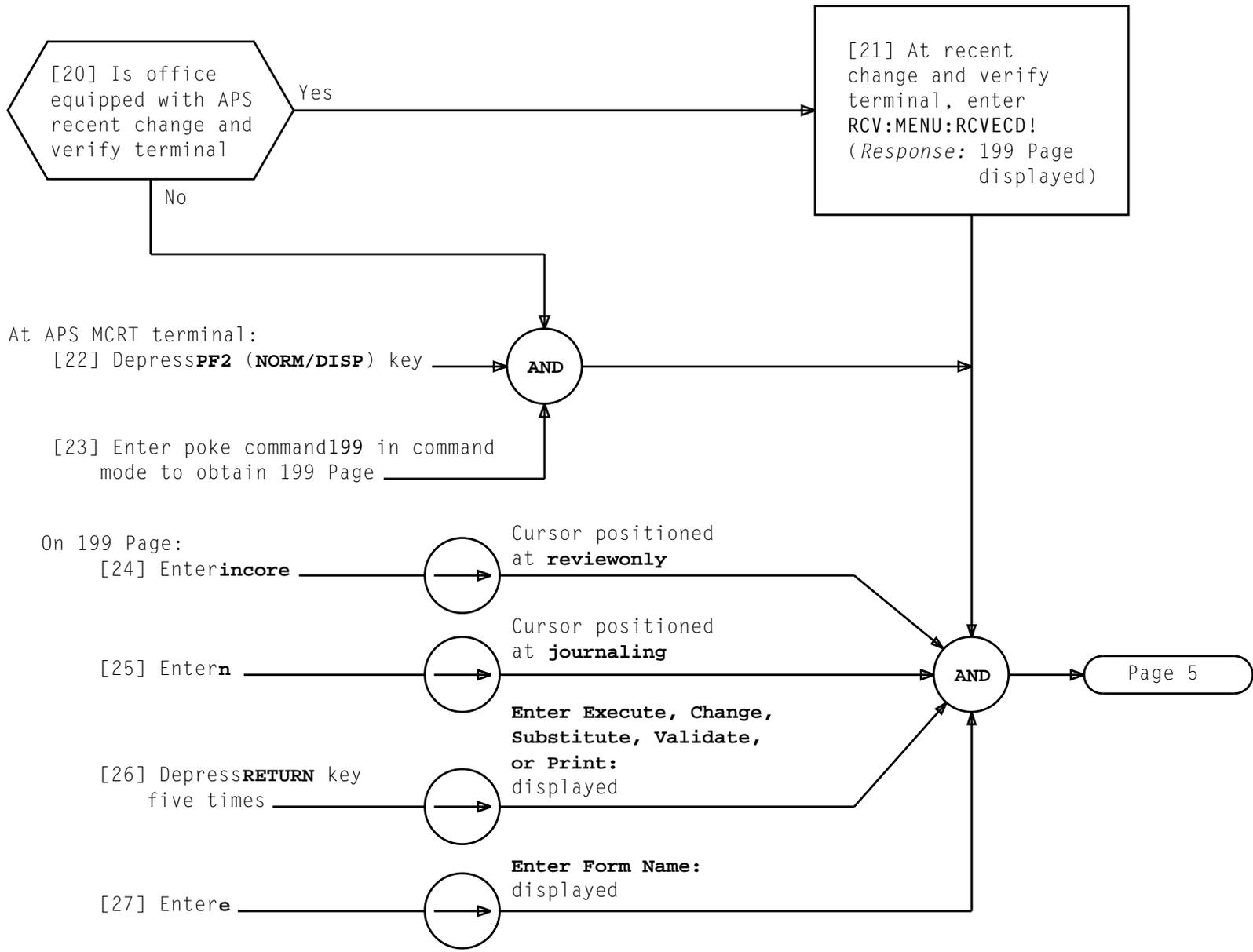
**VERIFY ATTACHED PROCESSOR SYSTEM (APS) UNIT CONTROL
 BLOCK (UCB) DATA**

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**VERIFY ATTACHED PROCESSOR SYSTEM (APS) UNIT CONTROL
BLOCK (UCB) DATA**

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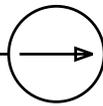


VERIFY ATTACHED PROCESSOR SYSTEM (APS) UNIT CONTROL BLOCK (UCB) DATA

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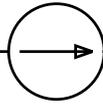
On 199 Page:

[28] Enter **trbegin**



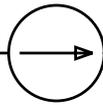
tr_name form
displayed

[29] Enter **rcoos**



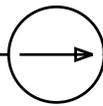
**Enter Execute, Change,
Substitute, Validate, or Print:**
displayed

[30] Enter **e**



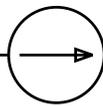
FORM EXECUTED
displayed momentarily; then,
Enter Form Name:
displayed

[31] Enter **ucb**



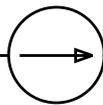
Enter Data Base Operation
I=Insert R=Review U=Update D=Delete
displayed

[32] Enter **u**

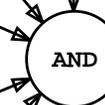


ucb option form
displayed

[33] Depress **RETURN** key twice



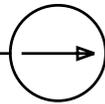
Cursor positioned
at **unit_name**



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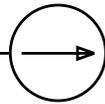
On 199 Page:

[34] Enter unit name
(SDL or SDLC)



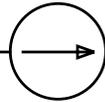
Cursor positioned
at **unit_number**

[35] Enter unit member
number



ucb form filled in and
**Enter Update, Change, Substitute,
Validate, Screen #, or Print:**
displayed

[36] Enter **c**

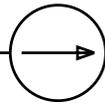


Change field:
displayed

[37] Change data fields
as required



[38] Enter **RETURN**



**Enter Update, Change, Substitute,
Validate, Screen #, or Print:**
displayed

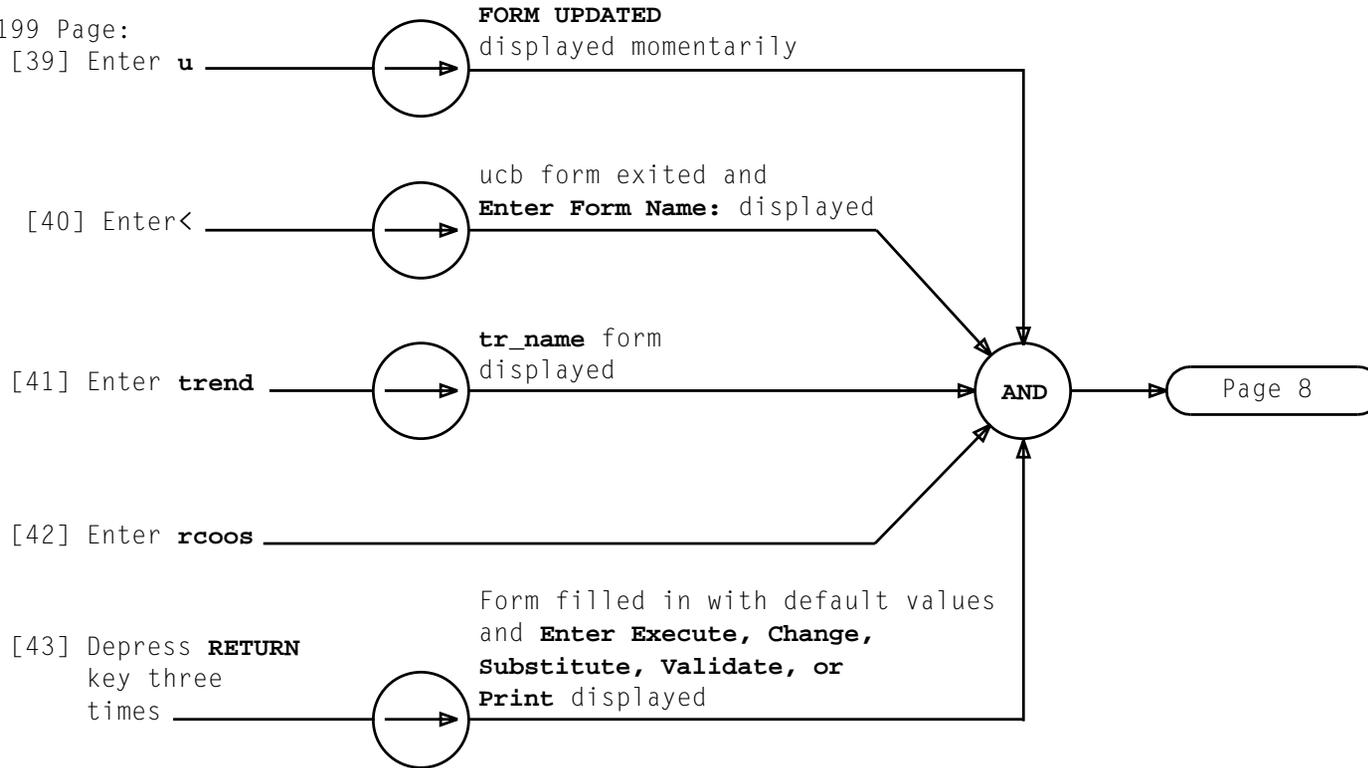
AND

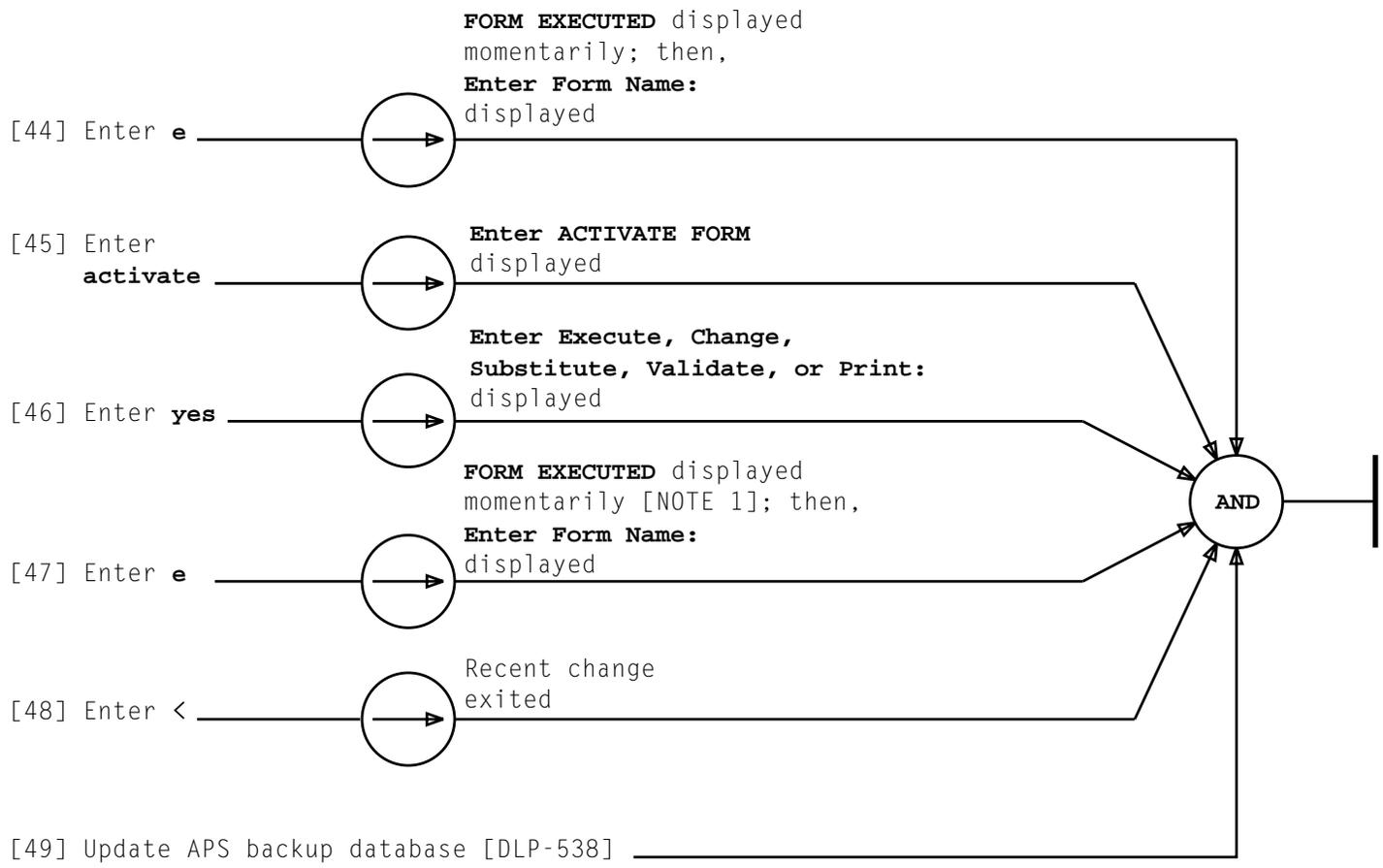
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**VERIFY ATTACHED PROCESSOR SYSTEM (APS) UNIT CONTROL
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On 199 Page:



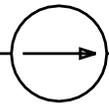


NOTE 1	
It may take several minutes before FORM EXECUTED is displayed	
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VERIFY ATTACHED PROCESSOR SYSTEM (APS) UNIT CONTROL BLOCK (UCB) DATA

At APS MCRT terminal:

[1] Enter
OP:STATUS:PROCESS,ALLKERNs!



Status
printout
received

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

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

[4] Enter poke command 42 in command
mode to obtain the application
parameter prompt

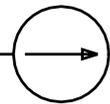
[5] Enter I to restart dead
processes

[6] Enter poke command 50 to
initialize application

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



[8] Enter
OP:STATUS:PROCESS,ALLKERNs!

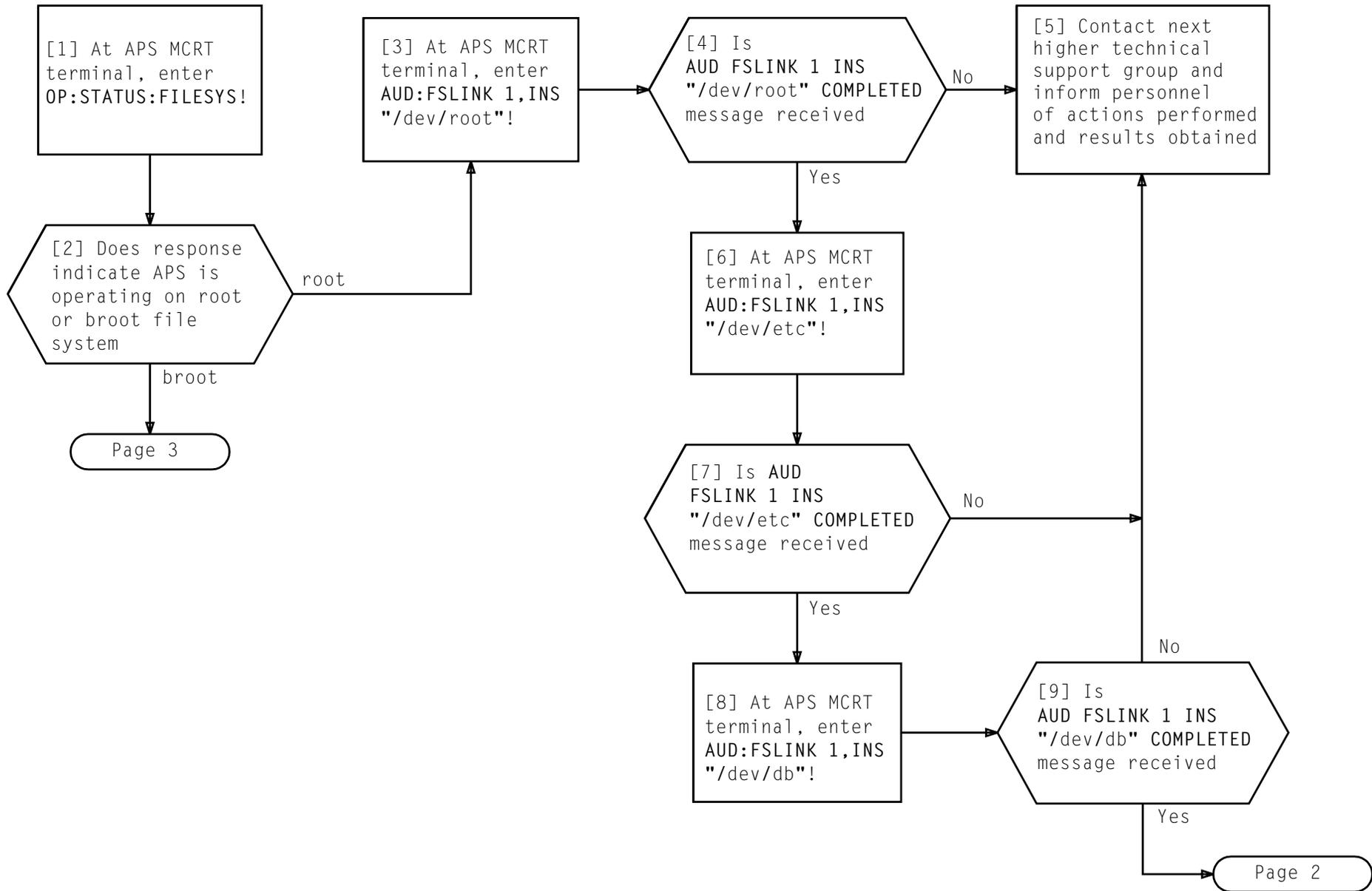


Status
printout
received

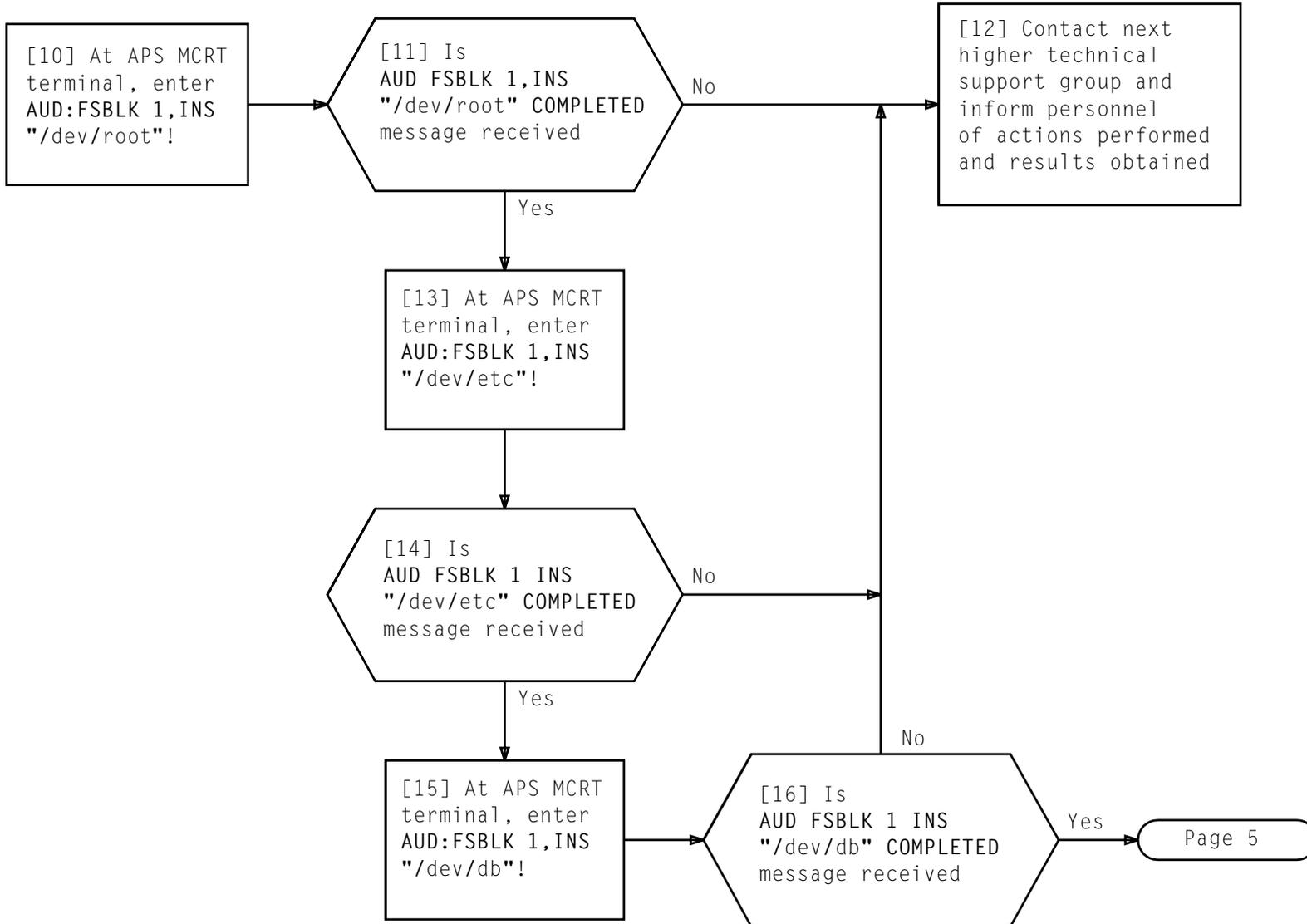


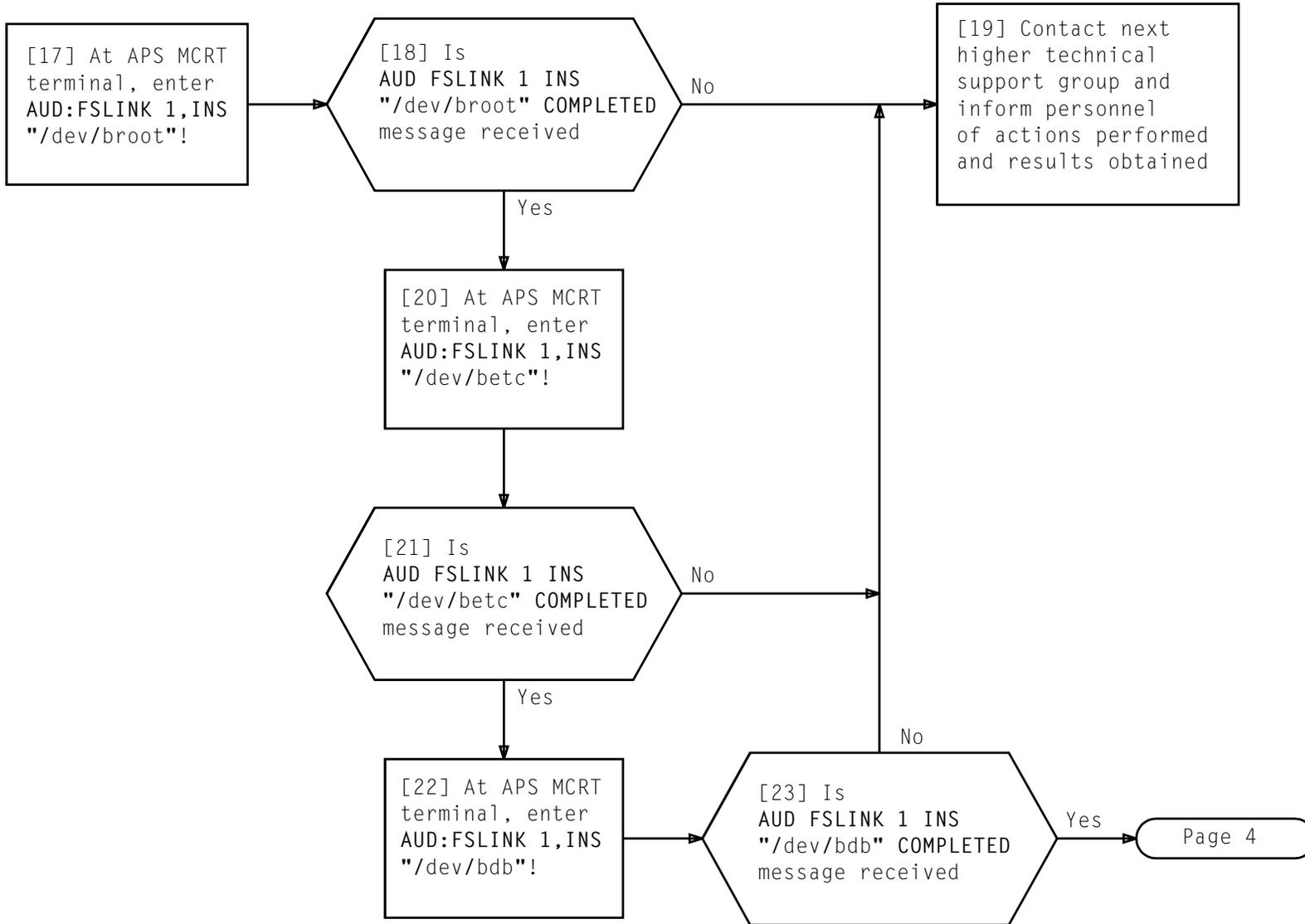
RESTART ATTACHED PROCESSOR SYSTEM (APS) PROCESSES

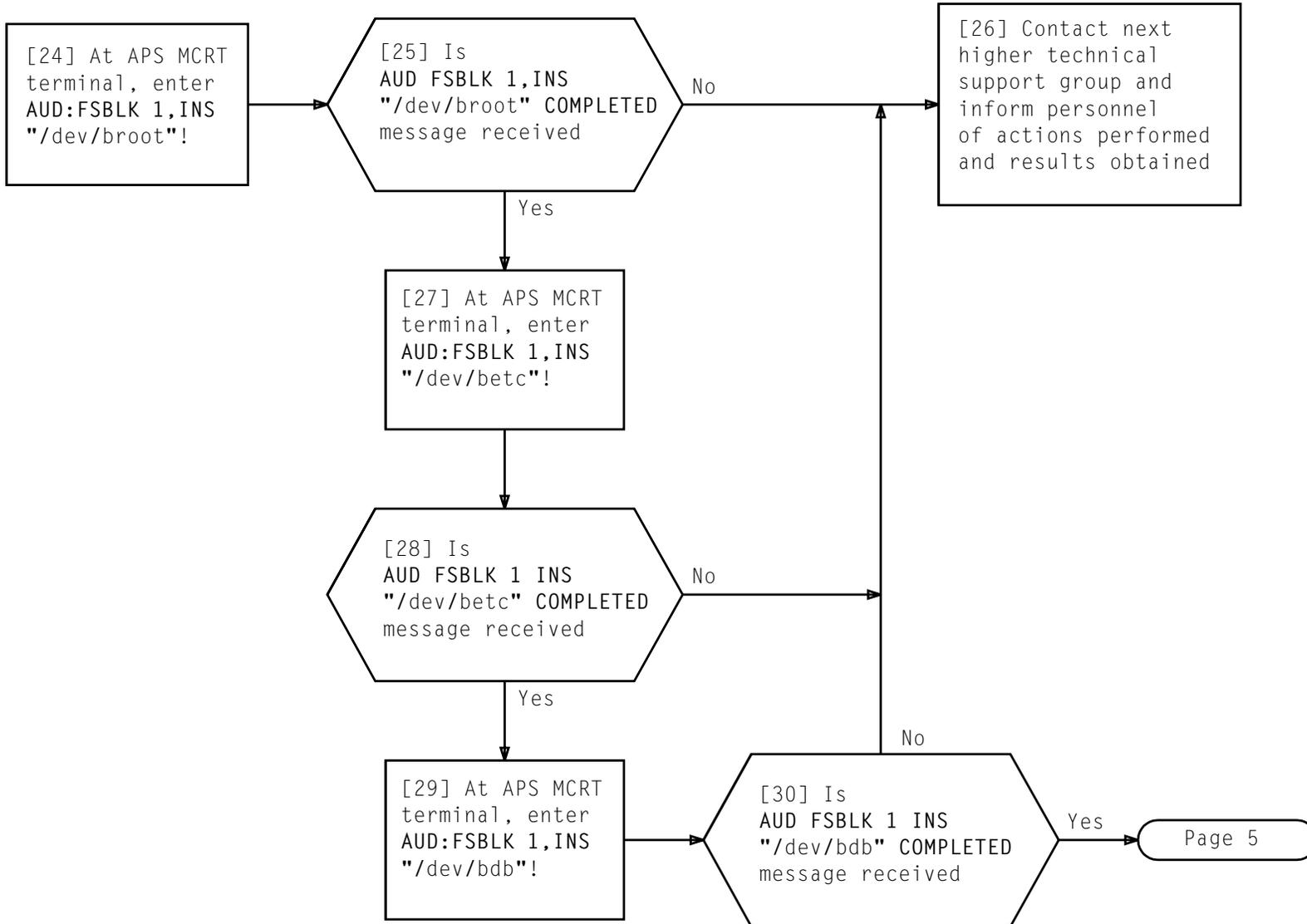
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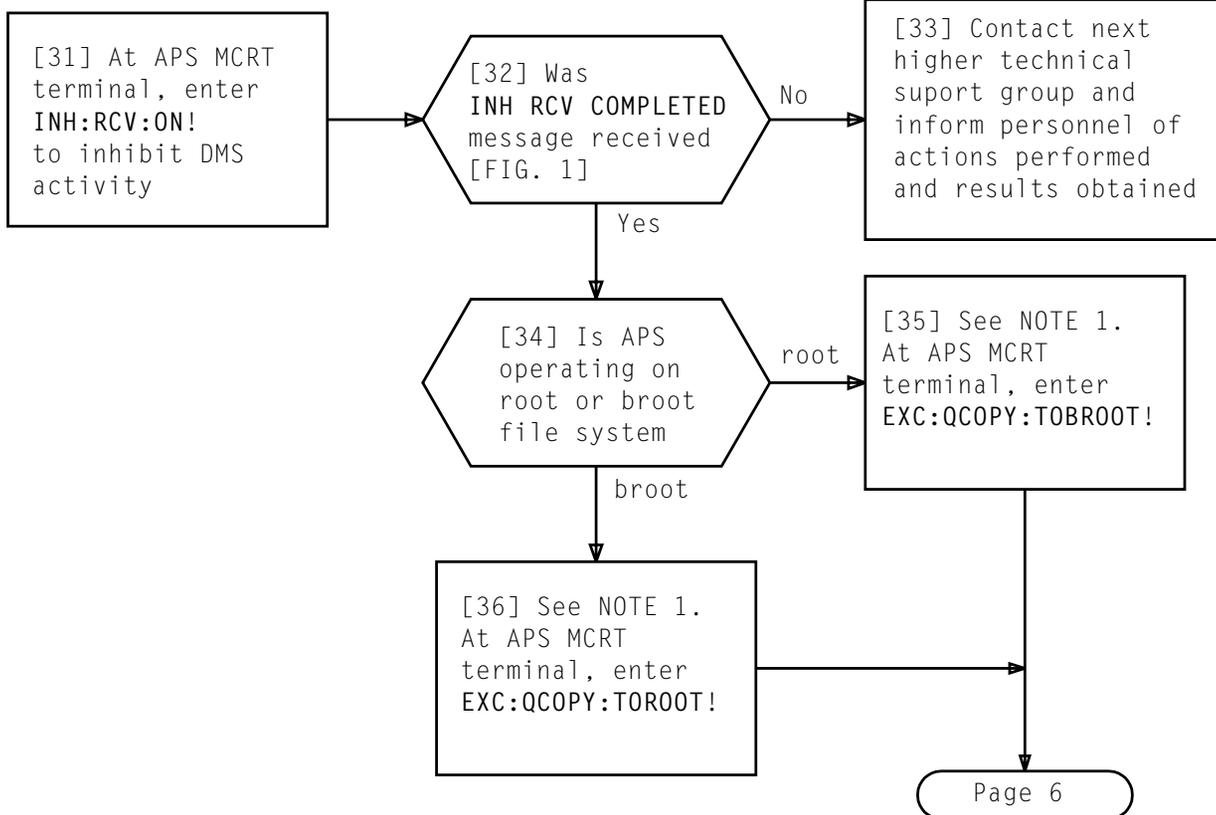


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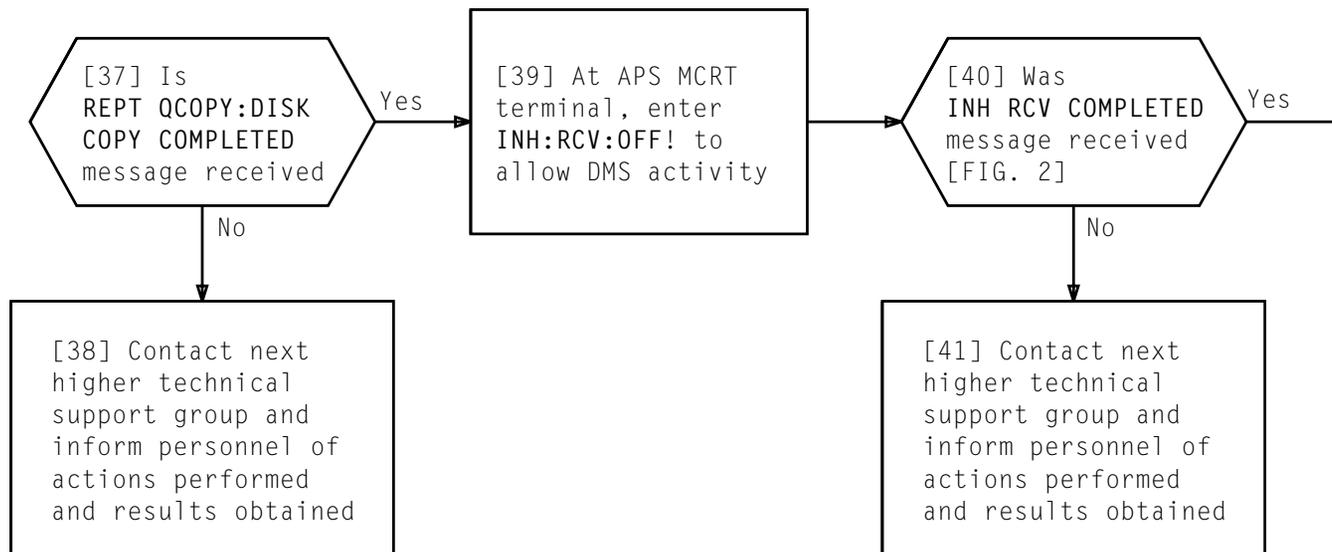


```

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

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

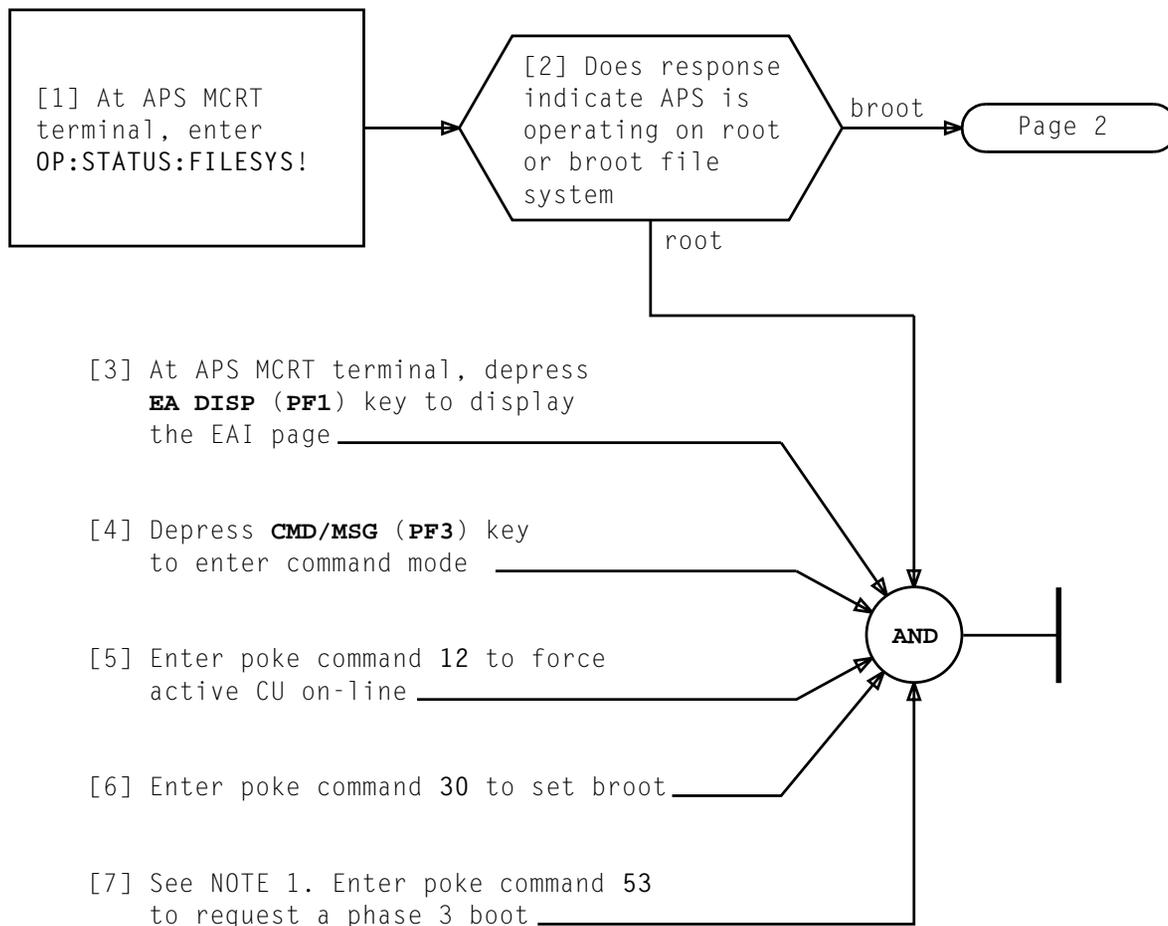
NOTE 1	
This command requires a minimum of 10 minutes to complete	
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```

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

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



**BOOT TO ATTACHED PROCESSOR SYSTEM (APS) BACKUP DATABASE
(SANE PROCESSOR)**

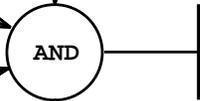
NOTE 1	
A 53 boot takes approximately 3 minutes to complete	
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[8] At APS MCRT terminal, depress
EA DISP (PF1) key to display
the EAI page

[9] Enter poke command 12 to force
active CU on-line

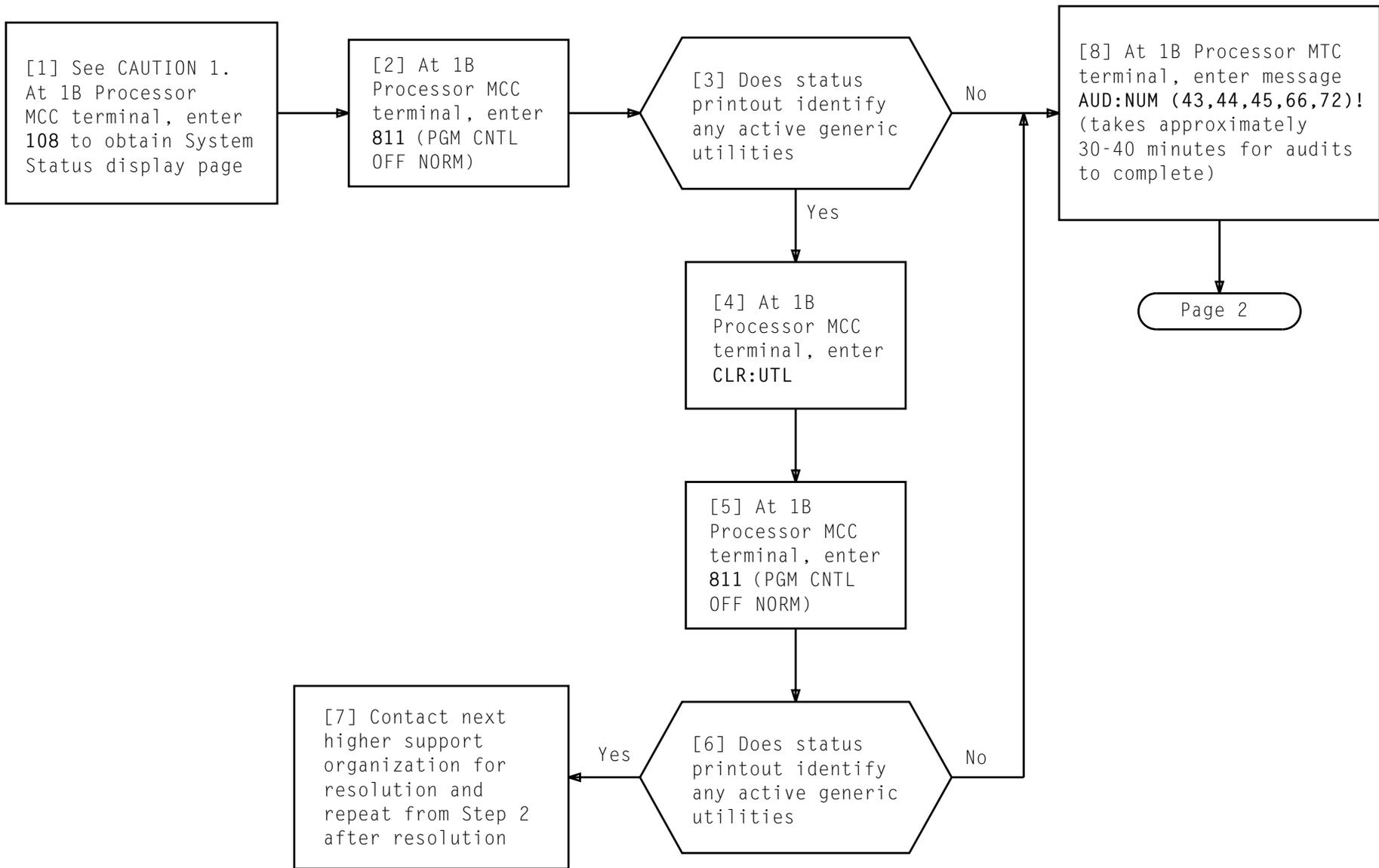
[10] Enter poke command 31
to clear broot

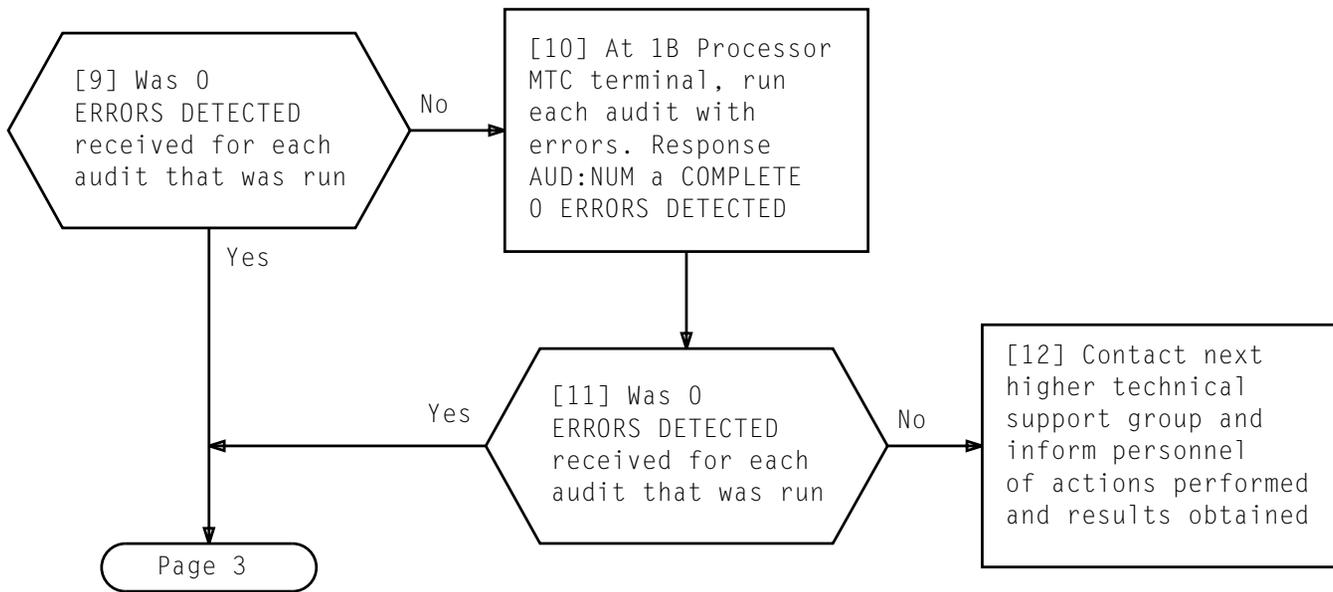
[11] See NOTE 1. Enter poke command 53
to request phase 3 boot

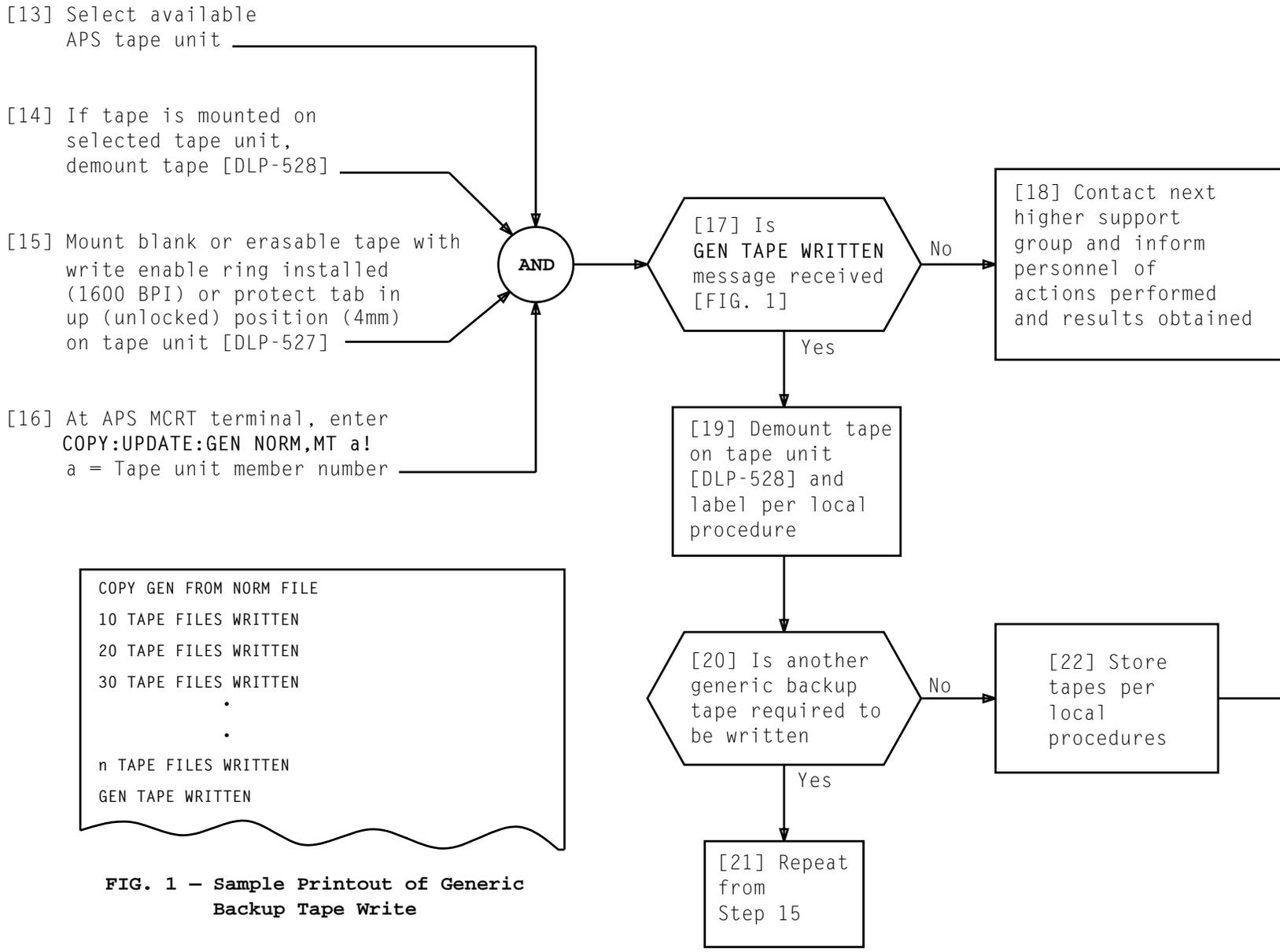


**BOOT TO ATTACHED PROCESSOR SYSTEM (APS) BACKUP DATABASE
(SANE PROCESSOR)**

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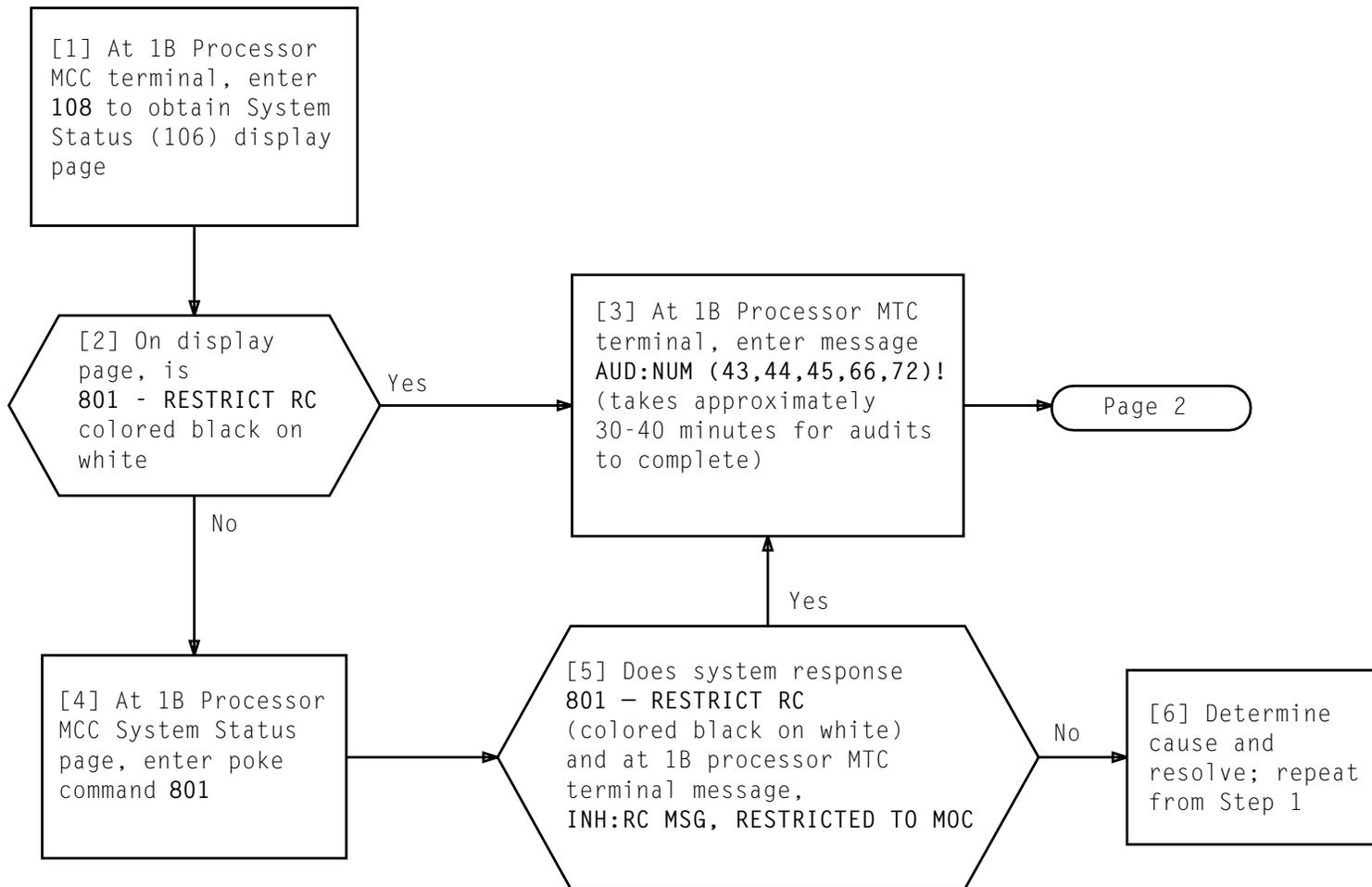


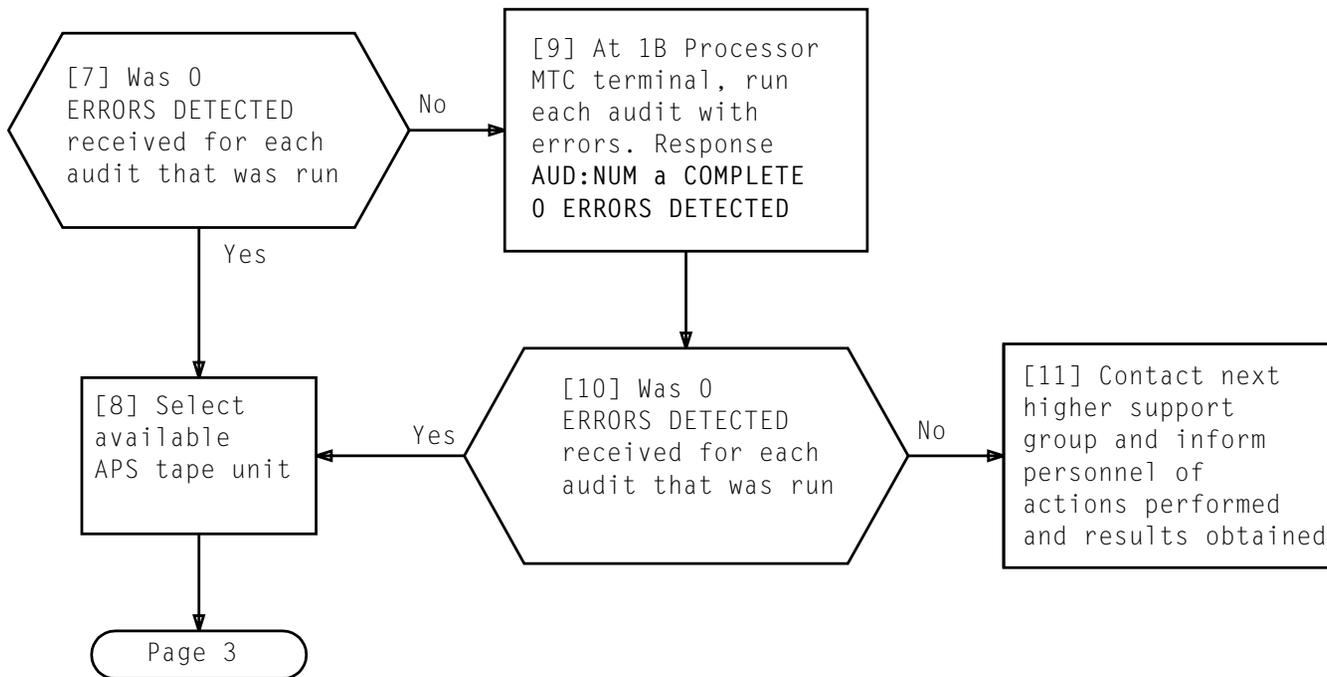


```

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

FIG. 1 - Sample Printout of Generic Backup Tape Write

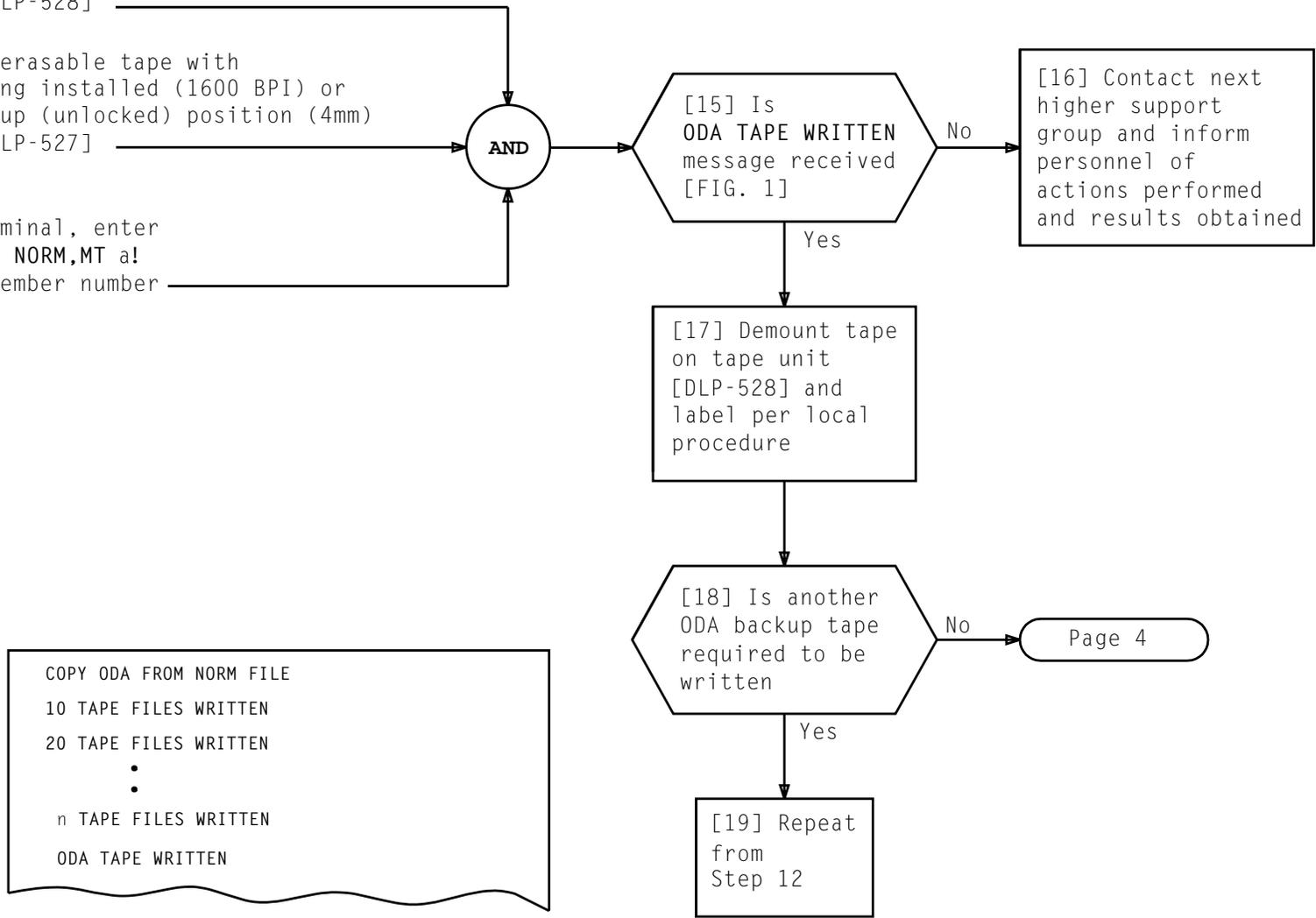




[12] If tape is mounted on selected tape unit, demount tape [DLP-528]

[13] Mount blank or erasable tape with write-enable ring installed (1600 BPI) or protect tab in up (unlocked) position (4mm) on tape unit [DLP-527]

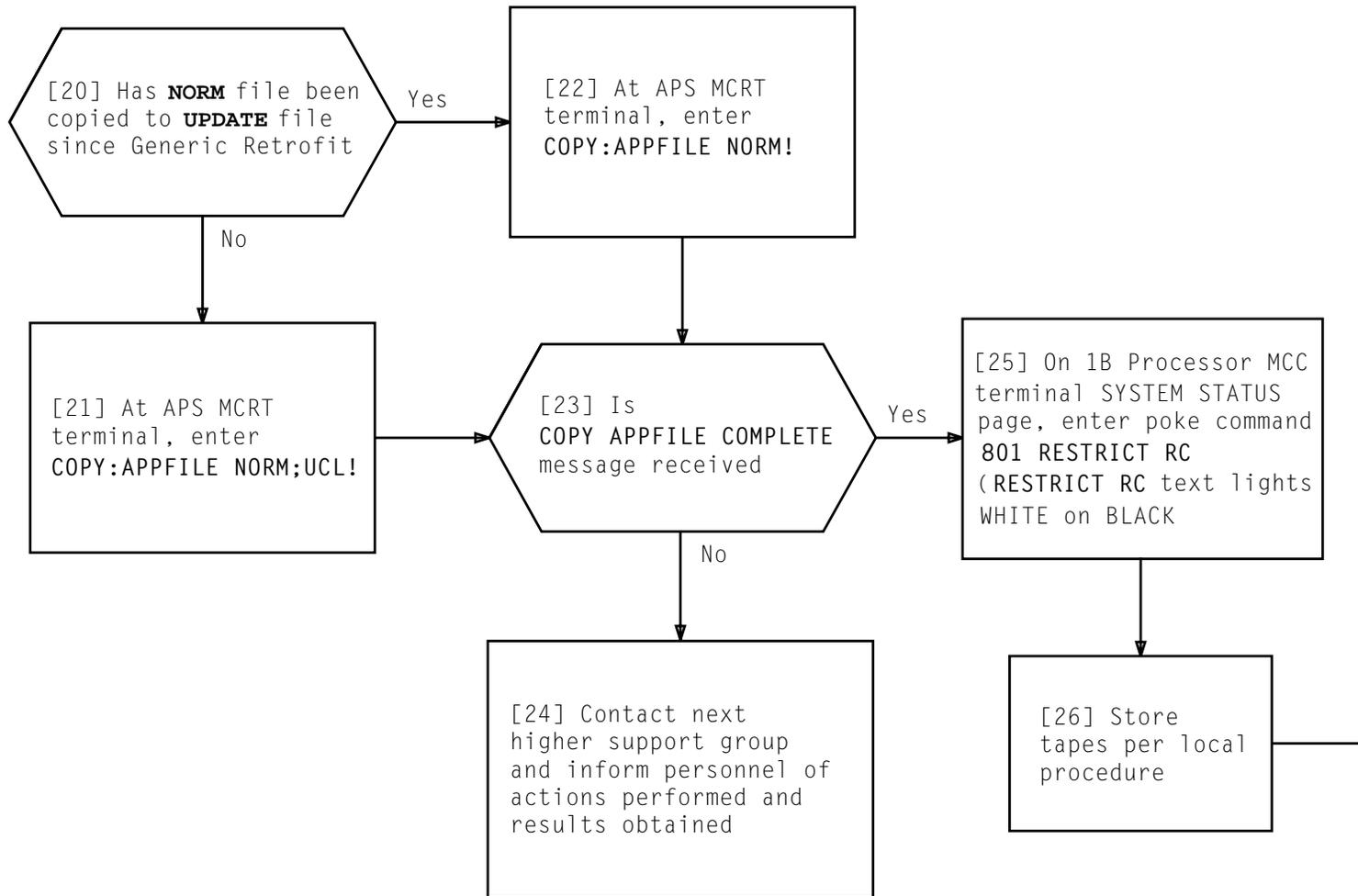
[14] At APS MCRT terminal, enter COPY:UPDATE:ODA NORM,MT a!
a = Tape unit member number

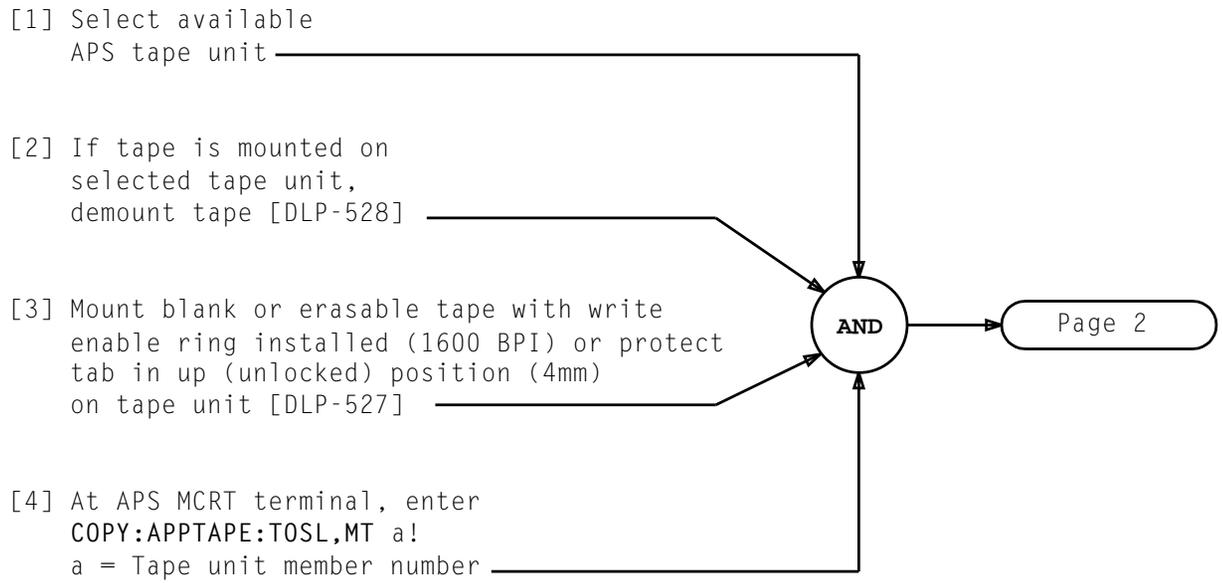


```

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

FIG. 1 - Sample Printout of ODA Backup Tape Write





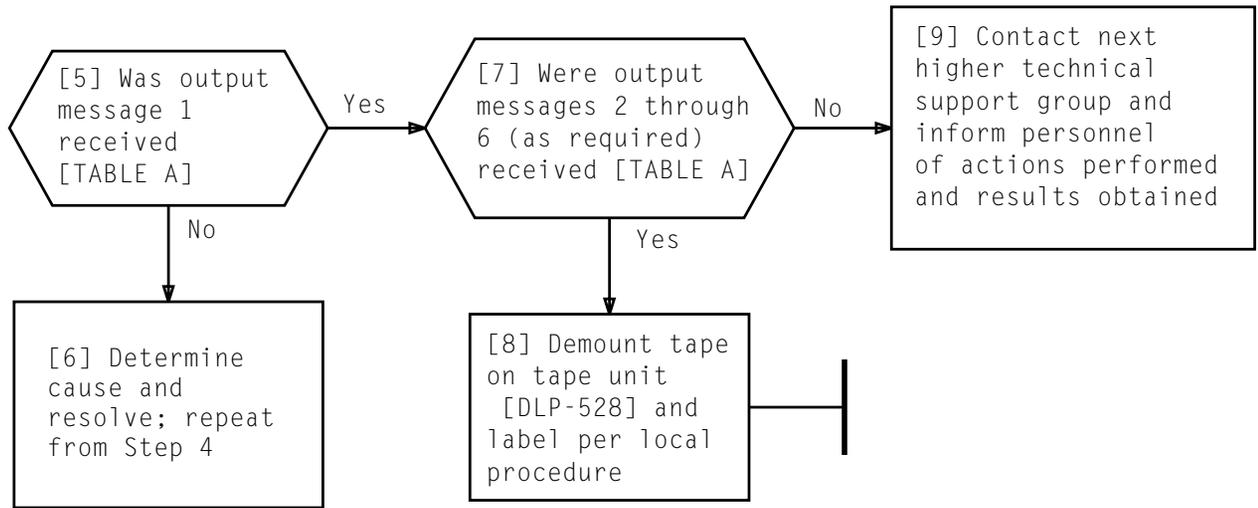
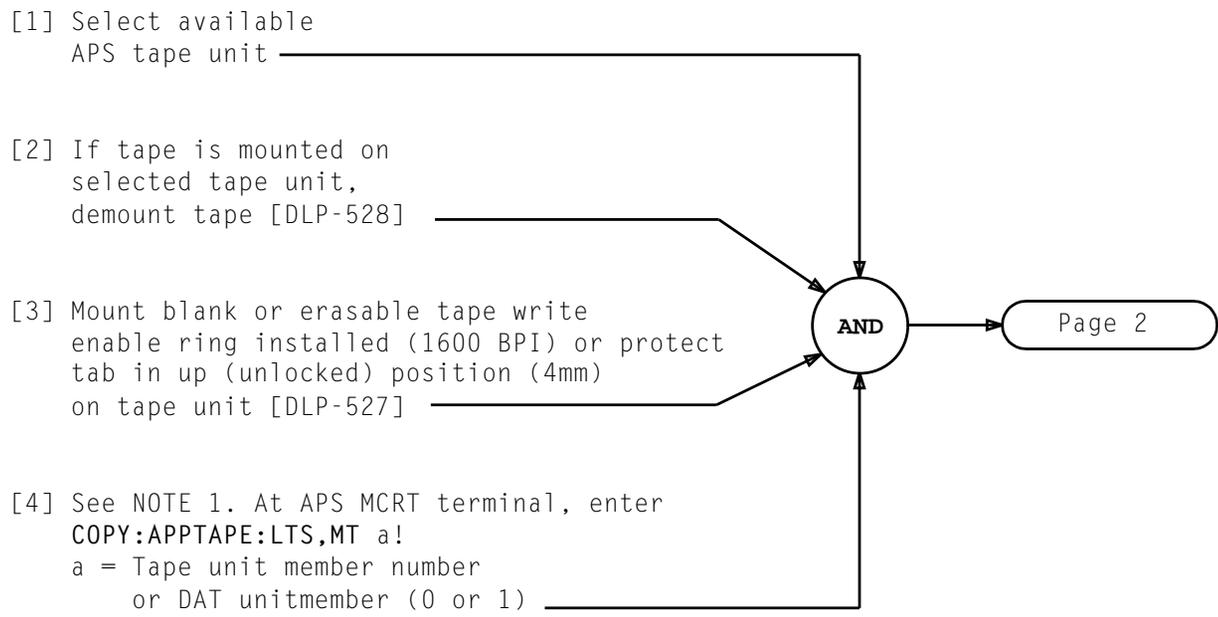


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE:TOSL,WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa – bbbbbbbb STARTED, FILE
3	APPTAPE ADDRESS RANGE aaaaaaaaa – bbbbbbbb COMPLETED
4*	APPTAPE ADDRESS RANGE cccccccc – dddddddd STARTED, FILE
5*	APPTAPE ADDRESS RANGE cccccccc – dddddddd COMPLETED
6	APPTAPE COMPLETED
* Only receive if office has Mass Status Table (MST) aaaaaaaaa = 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	



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, a repeat later (RL) response will be received

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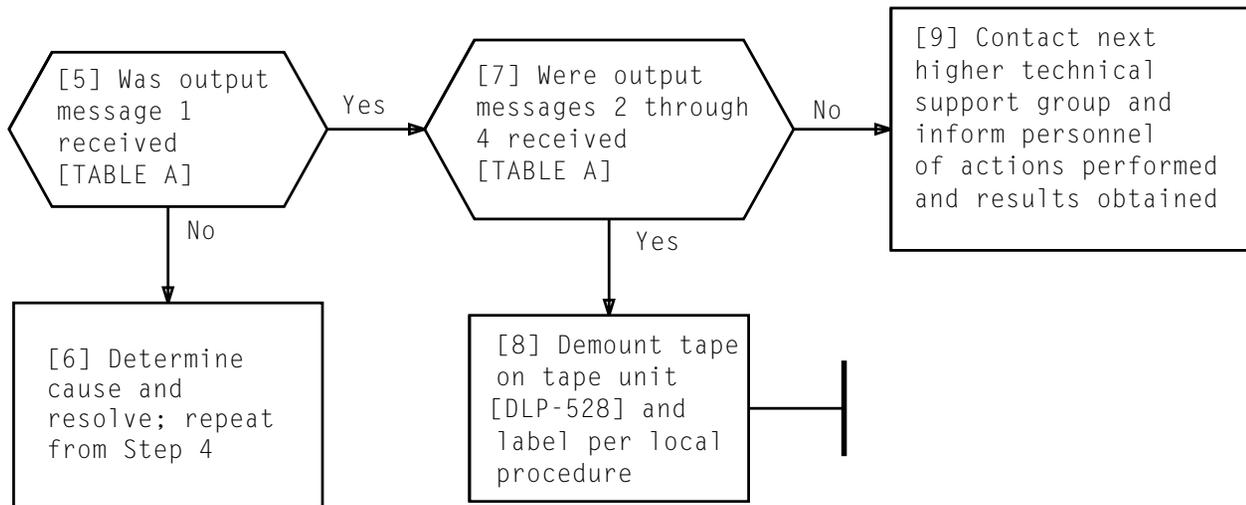
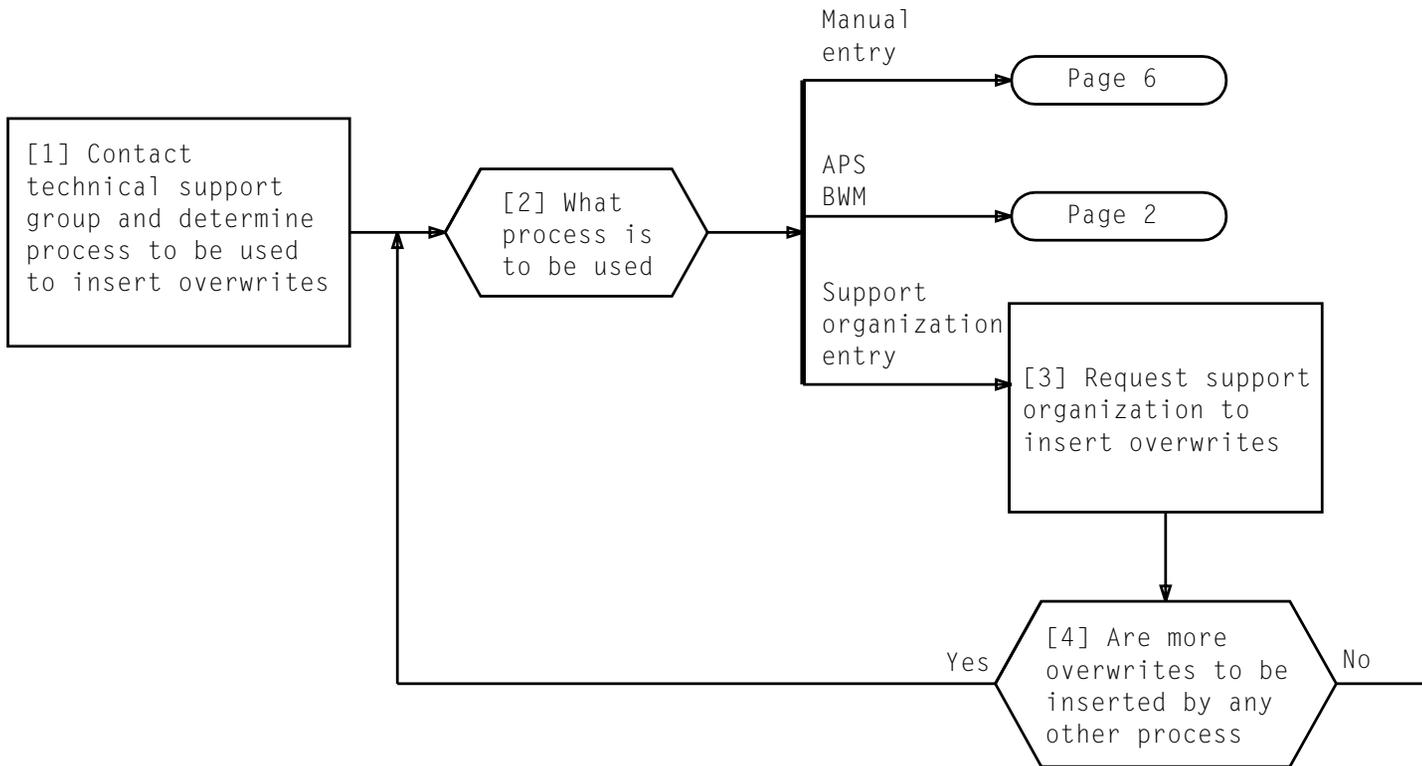
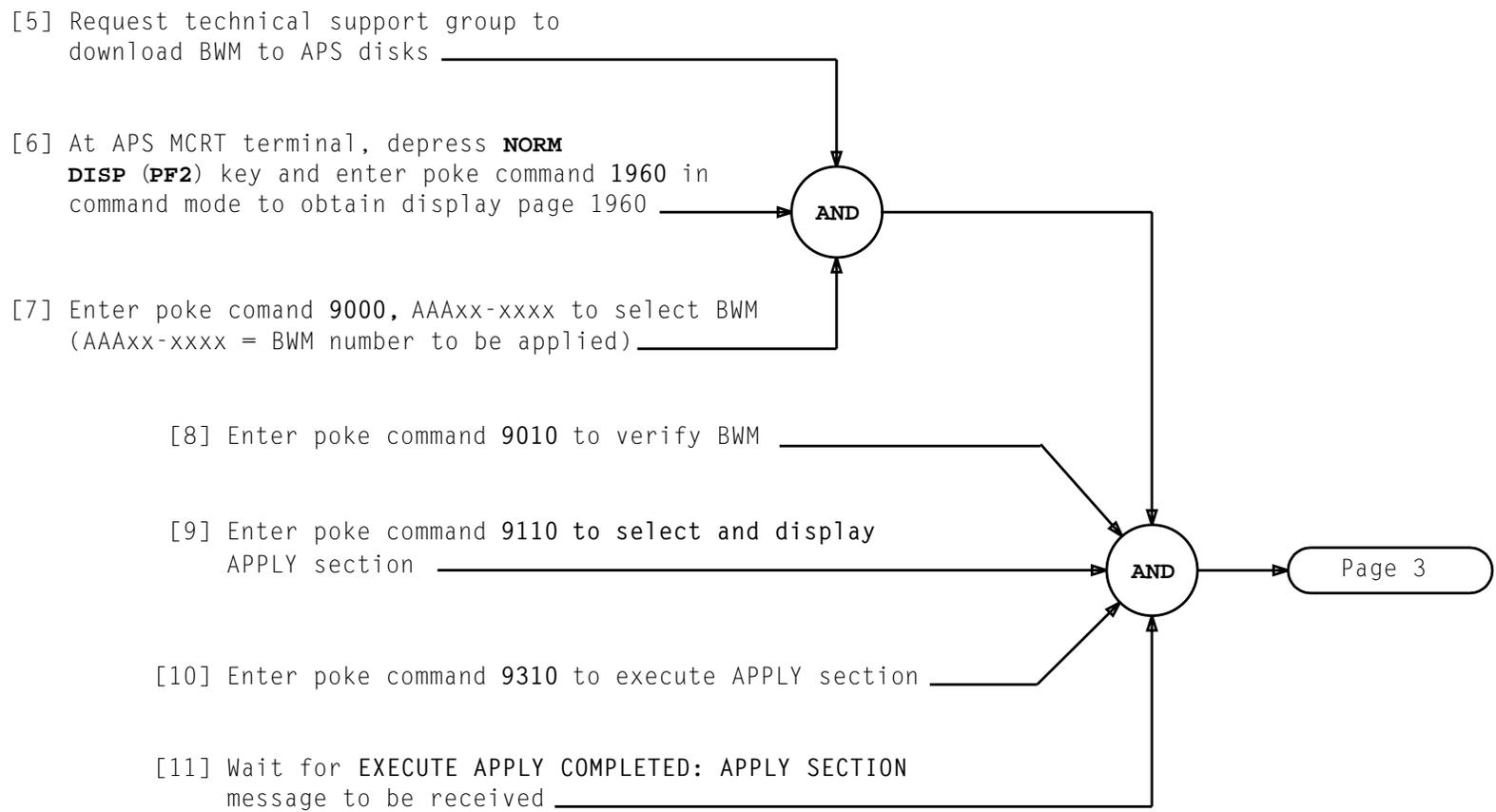


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE:LTS,WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED, FILE
3	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = Month/day/year hour:minute tape was written aaaaaaaa = Starting LTS address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

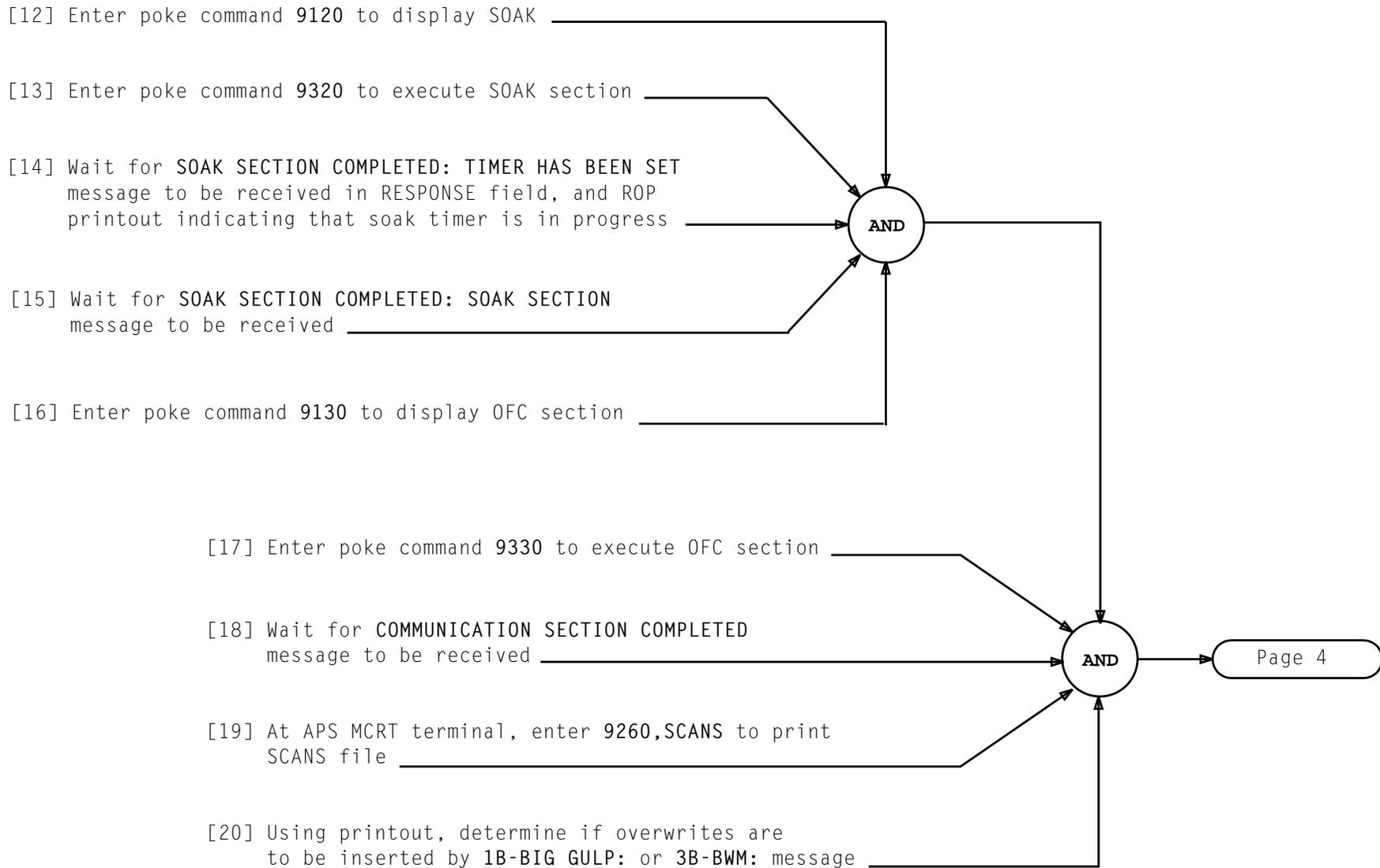


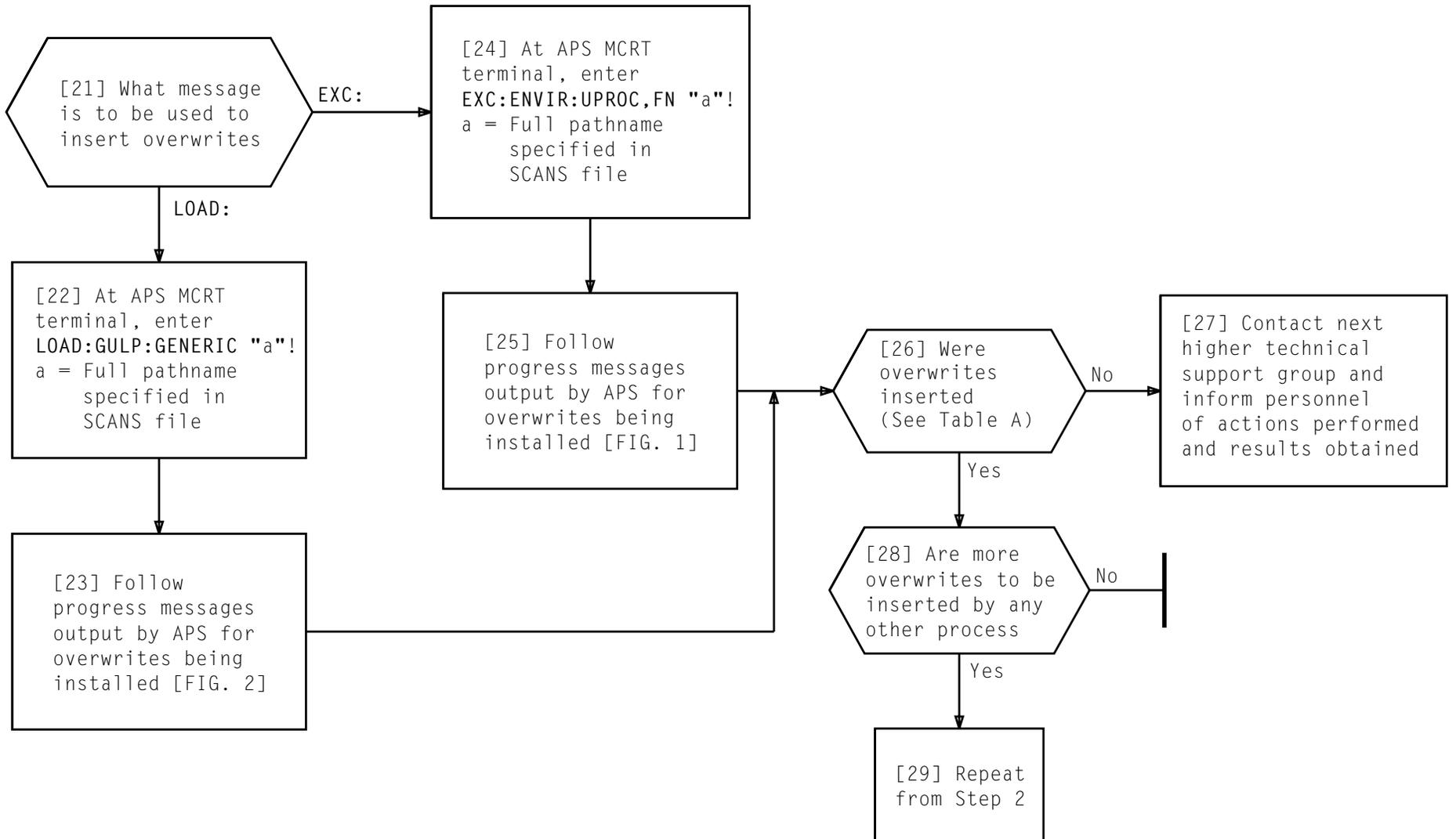
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INSERT CRITICAL 1B PROCESSOR GENERIC OVERWRITES INTO UPDATE FILE





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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

[30] Collect and list overwrites to be inserted into 1B Processor generic via update file

[31] See NOTE 1. At APS MCRT terminal, enter IN:OSOW:START!

READY FOR OVERWRITE DATA message received

AND

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

FS only

Main Memory

[33] See NOTE 2. At APS MCRT terminal, 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

[34] See NOTE 2. At APS MCRT terminal, 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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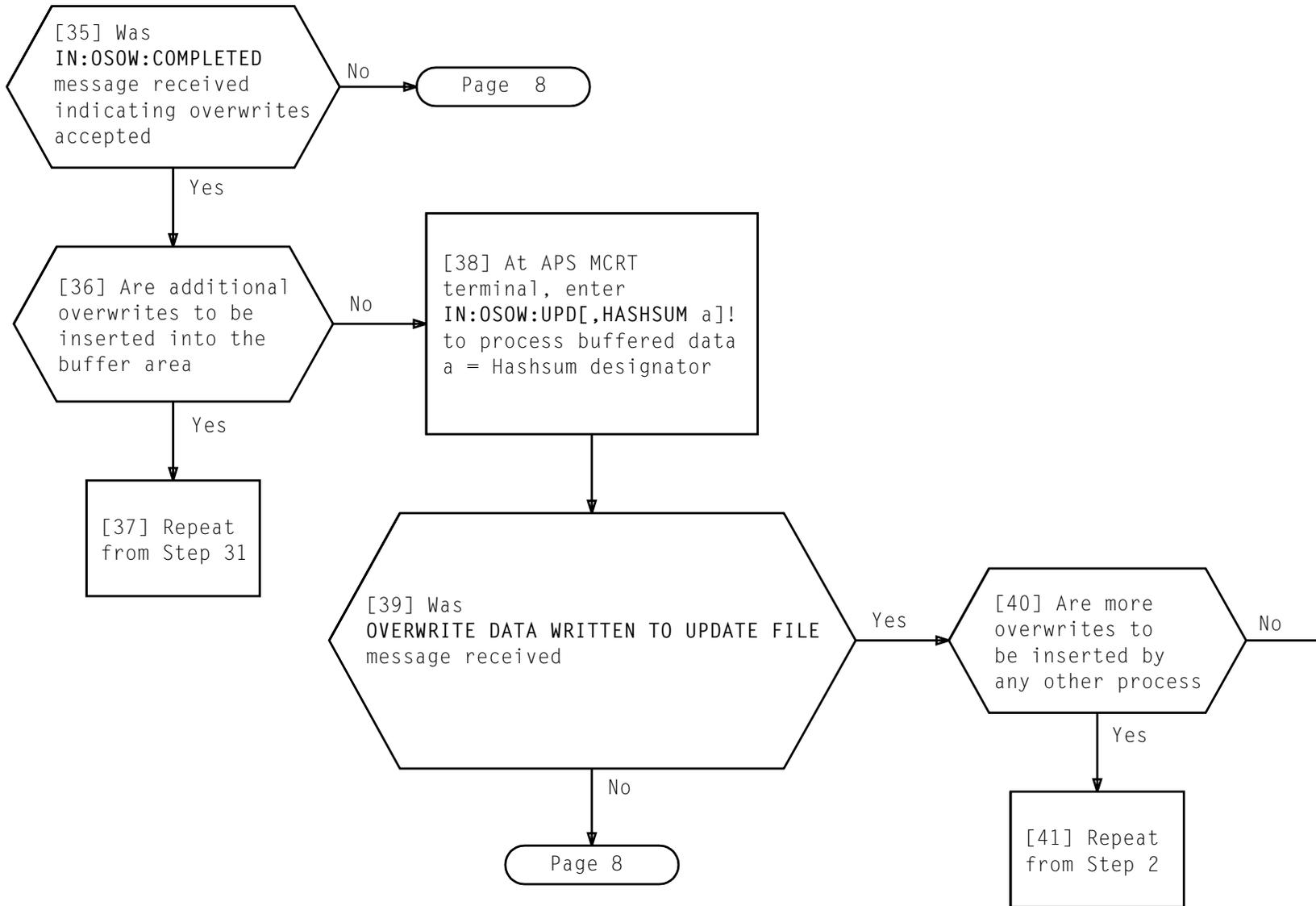
NOTES

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

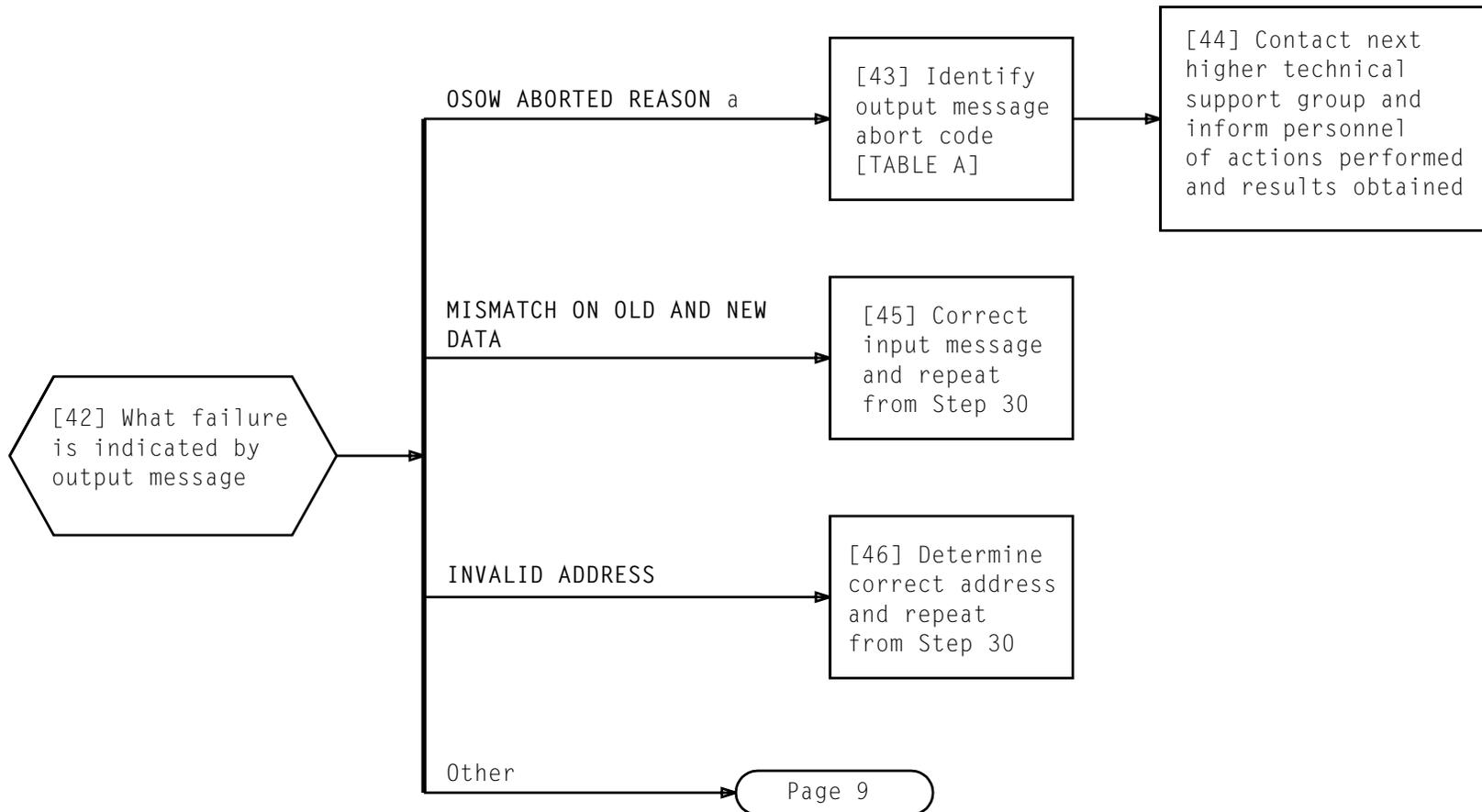
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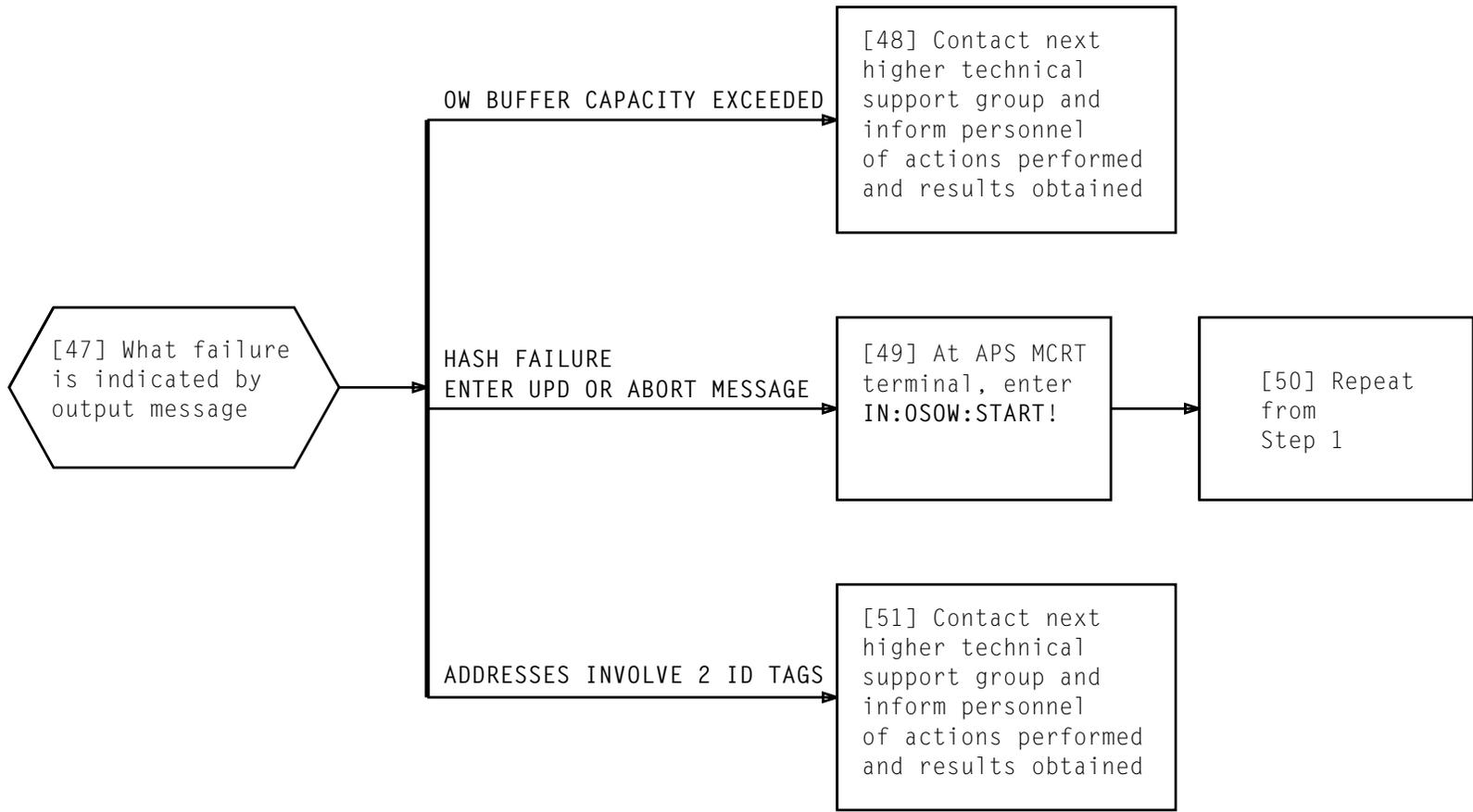
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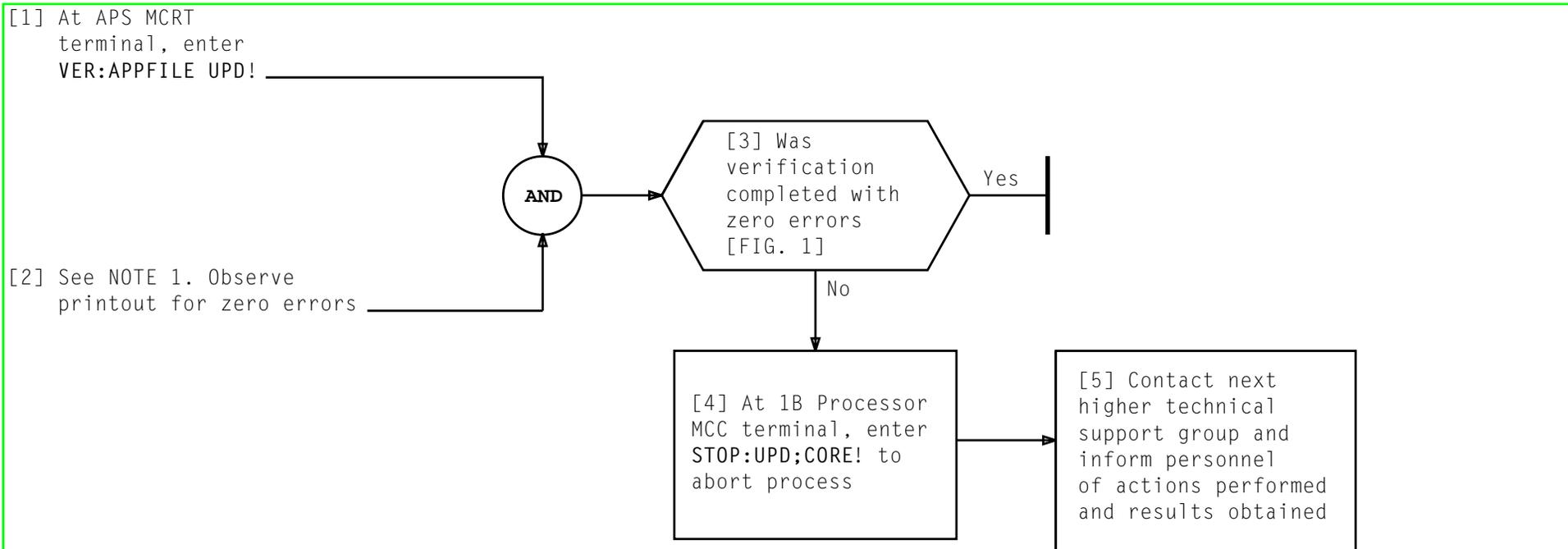
INSERT CRITICAL 1B PROCESSOR GENERIC OVERWRITES INTO UPDATE FILE

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TABLE A SYSTEM ERROR CODES	
ERROR CODE	EXPLANATION
100	Failure on access of 1ASTAT file
101	UPDATE file is in update mode
102	Cannot allocate main memory for buffers
103	Cannot open UPDATE for reading
104	Invalid ID2FS
105	Cannot open overwrite file
106	Cannot translate valid MM address to FS address
107	Out-of-range MM address for translation to FS address
108	Failure on seek of 1AFILE
109	Failure on read of 1AFILE
10a	Pointer outside hash sum area
10b	Failure on write of 1AFILE
10c	Cannot translate MM address
10d	FS address not generic, ODA, or merge
10e	Cannot read overwrite file
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

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INSERT CRITICAL 1B PROCESSOR GENERIC OVERWRITES INTO UPDATE FILE



```

VER:APPFILE STARTED, /dev/lafileX (X = 0 or 1)
VER:APPFILE /dev/lafileX MERGE AREA, MSG IP, 0 ERRORS DETECTED
VER:APPFILE /dev/lafileX ID 1, MSG IP, 0 ERRORS DETECTED (Generic Area)
VER:APPFILE /dev/lafileX ID 2, MSG IP, 0 ERRORS DETECTED (Library Area)
VER:APPFILE /dev/lafileX ID 3, MSG IP, 0 ERRORS DETECTED (ODA Area)
VER:APPFILE /dev/lafileX ID 7, MSG IP, 0 ERRORS DETECTED (Network Management Area)
VER:APPFILE /dev/lafileX ID 11, MSG IP, 0 ERRORS DETECTED (RC Rollback Area)
VER:APPFILE /dev/lafileX ID 12, MSG IP, 0 ERRORS DETECTED (Traffic and Plant Management Area)
VER:APPFILE /dev/lafileX ID 17, MSG IP, 0 ERRORS DETECTED (Paged Program Area)
VER:APPFILE /dev/lafileX COMPLETED, 0 ERRORS DETECTED
  
```

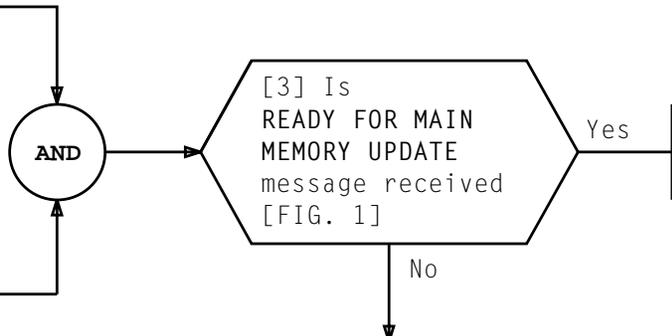
FIG. 1 - Sample Printout of Verification Output Messages Indicating Zero Errors

NOTE 1
It takes approximately 30 minutes for verification to complete

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[1] At APS MCRT terminal, enter
LOAD:UPDATE:DIFF!

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



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

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

FIG. 1 - Sample Printout of Progress Messages

DETERMINE 1B PROCESSOR MAIN-MEMORY GENERIC DIFFERENCES BETWEEN THE NORMAL AND UPDATE FILE

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MCC terminal EAI page
 UPDATE IN PROGRESS text
 lights Black on Yellow and
 upper six octal digits
 of data under EAI FAIL
 DATA DISPLAY following
 CODE indicate action
 being performed [TABLE A]

[1] At 1B Processor MTC
 terminal, enter
 UPD:FS;GEN PARTIAL!

[2] Observe printout for progress
 messages indicating 1B Processor
 copy function is complete [FIG. 1]

UPD:FS INIT.COMPLETED
 APS PORTION OF PARTIAL UPDATE MAY BE STARTED
 DO NOT START CORE UPDATE UNTIL APS PORTION IS COMPLETE

**FIG. 1 - Sample Printout of 1B Processor
 Copy Function Progress Messages**

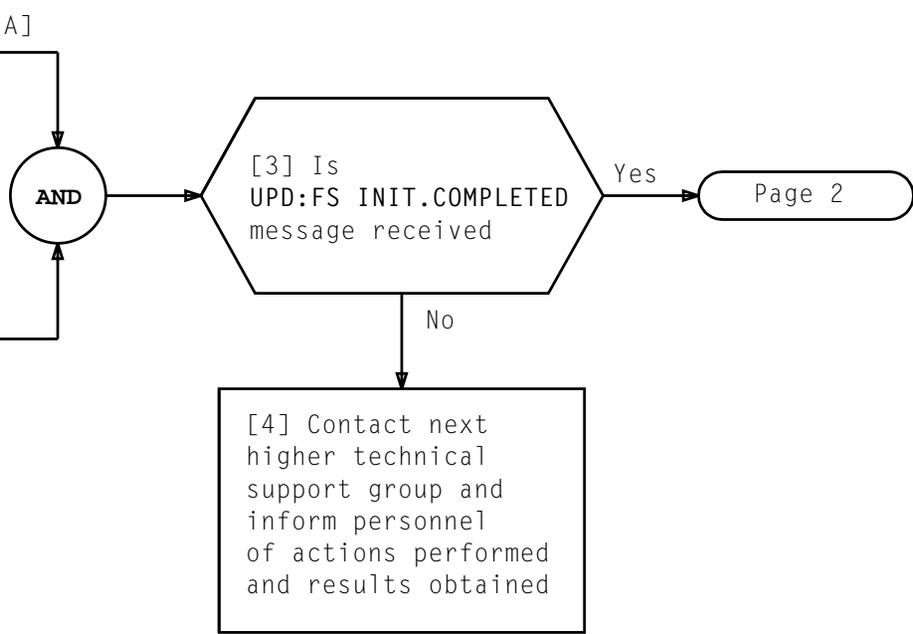
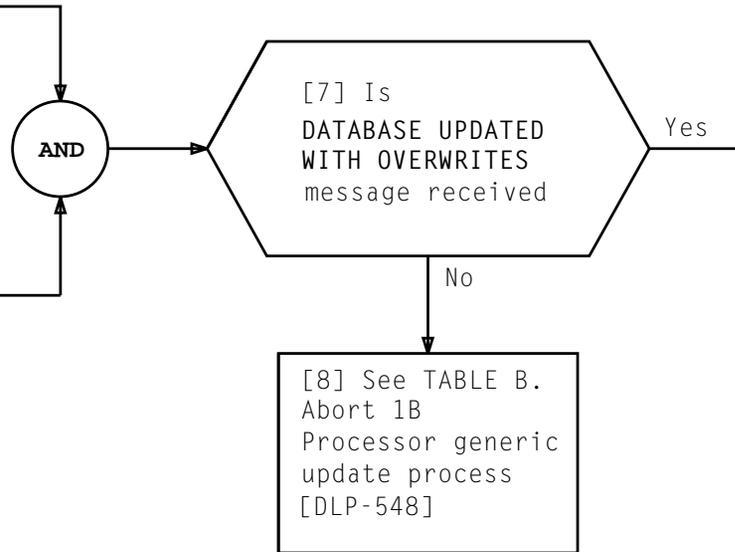


TABLE A MCC EAI FAIL DATA DISPLAY CODES	
UPPER SIX DIGITS	EXPLANATION
000122	Copy in progress
000170	Copy complete

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[5] At APS MCRT terminal, enter
 LOAD:GULP:GENERIC "a"
 a = BIG GULP or BWM 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
  .
  .
  BUILDING OW BUFFER - OW BLOCK xxx
  DATABASE UPDATED WITH OVERWRITES
  
```

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

TABLE B SYSTEM ERROR CODES	
ERROR CODE	EXPLANATION
100	Failure on access of 1ASTAT file
101	UPDATE file is in update mode
102	Cannot allocate main memory for buffers
103	Cannot open UPDATE for reading
104	Invalid ID2FS
105	Cannot open overwrite file
106	Cannot translate valid MM address to FS address
107	Out-of-range MM address for translation to FS address
108	Failure on seek of 1AFILE
109	Failure on read of 1AFILE
10a	Pointer outside hash sum area
10b	Failure on write of 1AFILE
10c	Cannot translate MM address
10d	FS address not generic, ODA, or merge
10e	Cannot read overwrite file
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

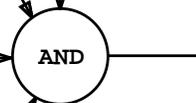
[1] At 1B Processor MTC terminal, enter
STOP:UPD;CORE!

[2] On 1B Processor MTC terminal EAI Page, enter
Poke Command 61 (NORM FILE!)

[3] At 1B Processor MTC terminal, enter Poke
Command 108 to Obtain SYSTEM STATUS Page

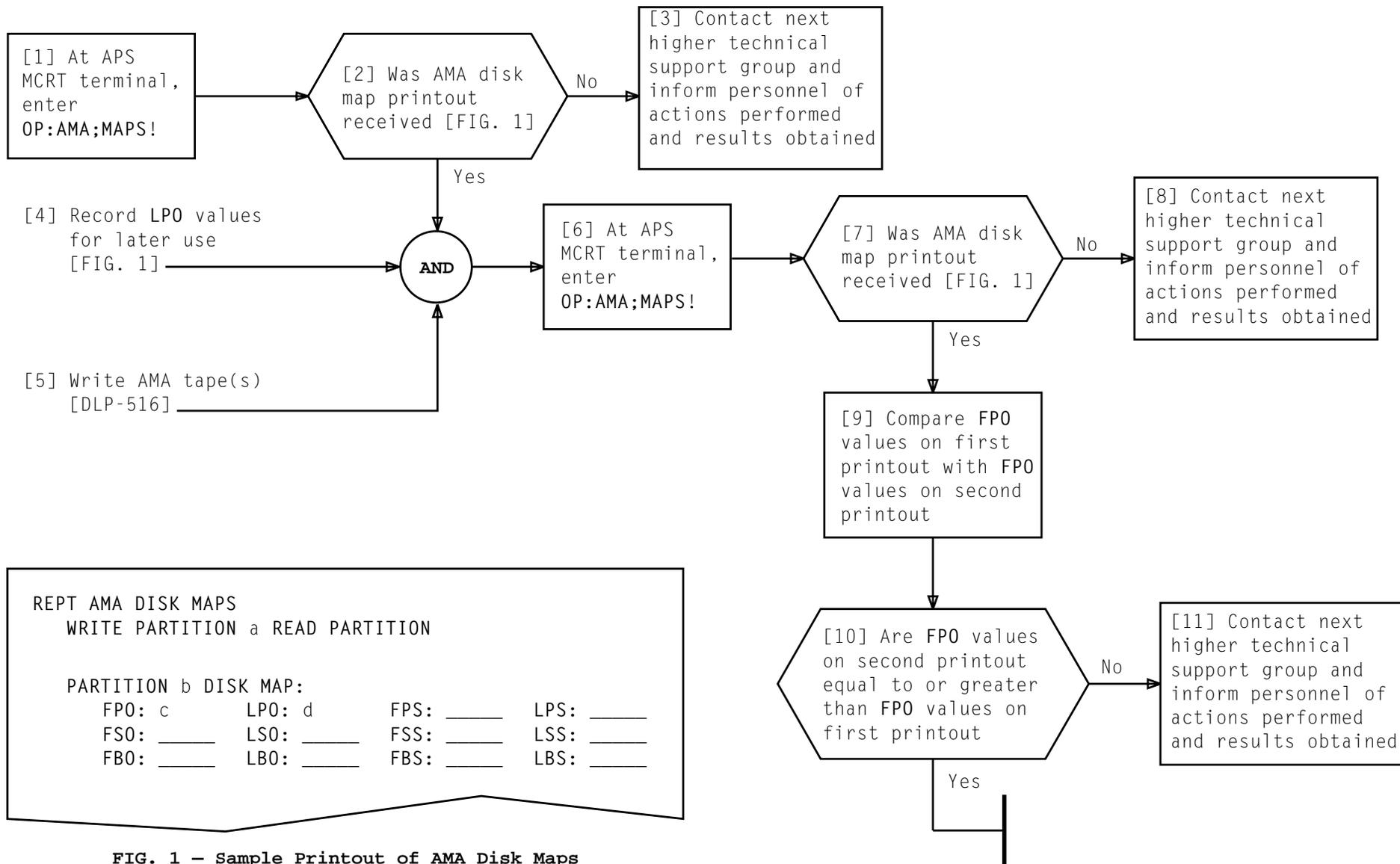
[4] At 1B Processor MTC terminal, SYSTEM STATUS
Page, Enter Poke Command 801 (Restrict RC)

[5] At APS MCRT terminal, enter COPY:APPFILE NORM!
To put update 1Afile back in order



ABORT 1B PROCESSOR GENERIC UPDATE PROCESS

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```

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

[1] Contact network management group and request personnel to manually inhibit any network management database changes via network management display terminal (NMDT) CN20 page _____

[2] Select available APS tape unit _____

[3] If tape is mounted on select type unit, demount tape [DLP-528] _____

[4] Mount blank or erasable tape with write-enable ring installed (1600 BPI) or protect tab in up (unlocked) position (4mm) on tape unit [DLP-527] _____

[5] At APS MCRT terminal, enter COPY:UPDATE:NWM NORM,NT a!
a = Tape unit member number _____

AND

[6] Is NWM TAPE WRITTEN message received

No

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

Yes

[8] Demount tape on tape unit [DLP-528]

[9] Label and store tape per local procedures

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WRITE 1B PROCESSOR NETWORK MANAGEMENT (NWM) TAPE

[1] See NOTE 1. Mount one backup tape on available tape unit [DLP-527]

[2] At APS MCRT terminal, enter VFY:TAPE,TD"/dev/mtX0",RETRY 3!
X = Tape unit member number

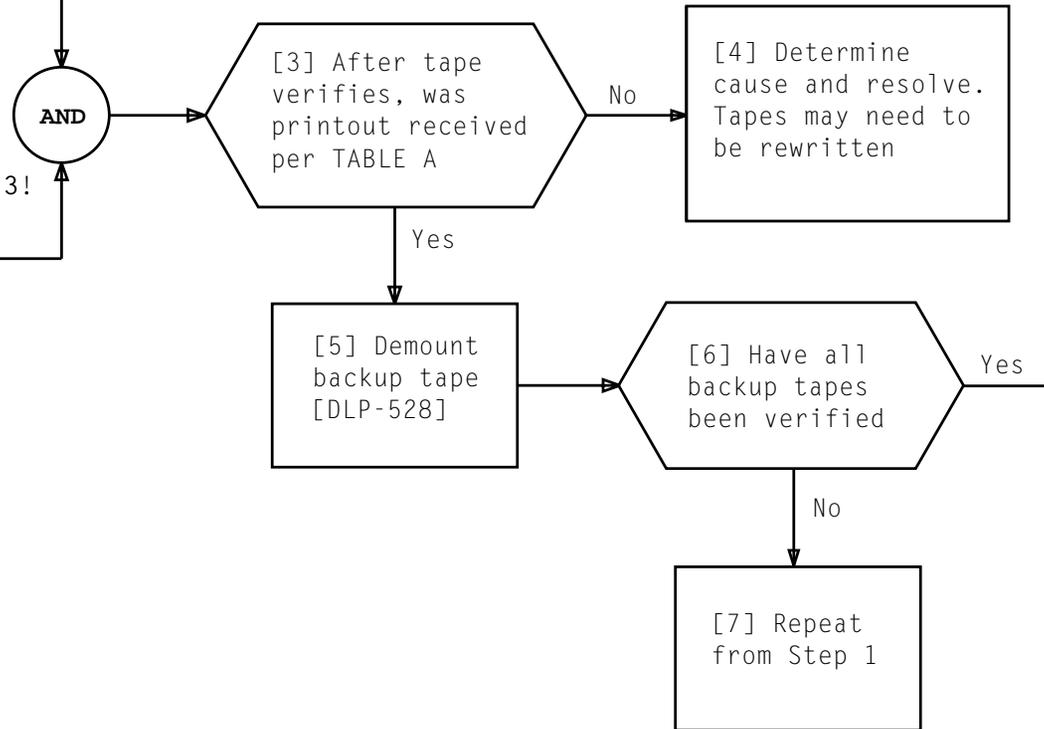


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	VFY TAPE STARTED VFY TAPE COMPLETED RETRIES 0 HEADER MISMATCHES 0 DATA MISMATCHES 0

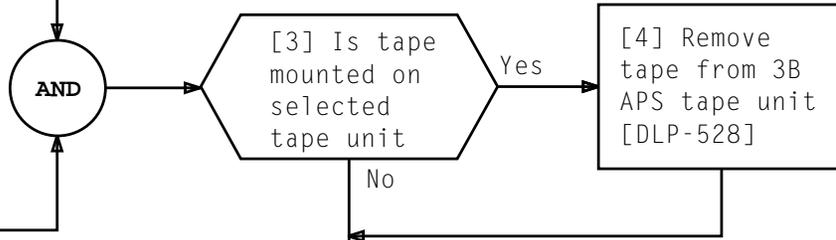
NOTE 1	
Verify backup generic tapes from lowest to highest rt0 number; then backup db tape	
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[1] Obtain 1600 BPI/4mm Generic, ODA and TOSL tapes and ensure that they are compatible

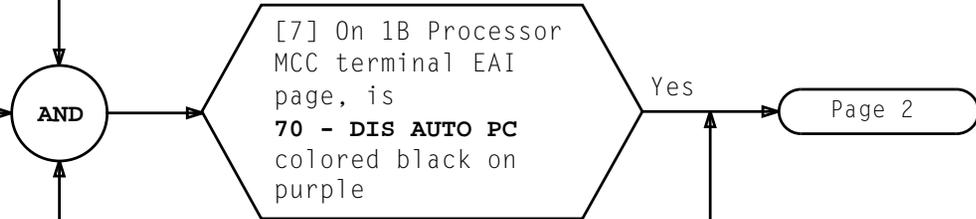
[2] See NOTE 1. Select in-service 3B APS tape unit for mounting tapes to be loaded

[5] Mount Generic tape on 3B APS tape unit [DLP-527]

[6] At 1B Processor MCC terminal, depress **EA DISP** key to obtain EAI page



[4] Remove tape from 3B APS tape unit [DLP-528]

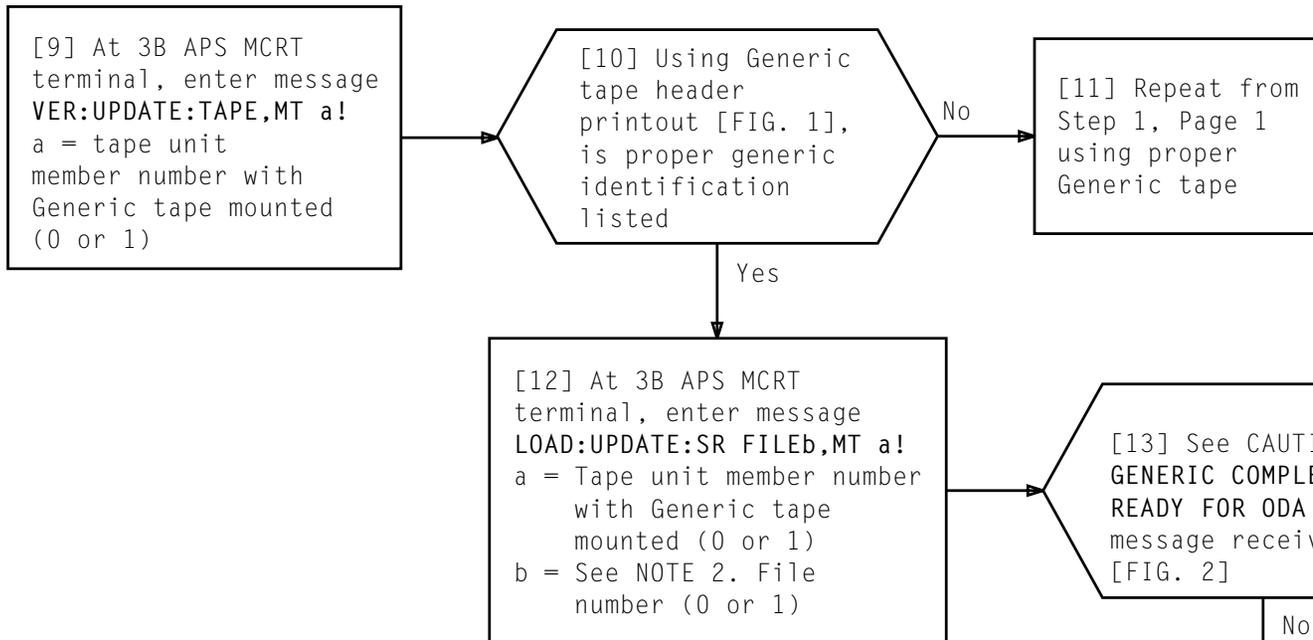


[8] On 1B Processor MCC terminal EAI page enter poke command **70 (DIS AUTO PC)** [70 - DIS AUTO PC colors black on purple]

NOTE 1
The 3B APS tape unit being used for processing Generic tape should be used for ODA and TOSL tapes, this ensures a known good unit

PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE

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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 CDA
  
```

FIG. 2

```

    TAPE TYPE: GEN
    GENERIC 4E<xx>4R.23 R2
    MOST RECENT OFL GENERATION: YR yy, MON 03, DAY 04 AT 11:28
    THIS TAPE WRITTEN: YR yy, MON 03, DAY 04 AT 17:19
    FS IDS: 0000000000000010, TAPE IDS: 0000000011111111
    PARTL UPD FLG: 0 PHASE REQD: 0001000
  
```

FIG. 1

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.

NOTE 2
 If there is no preference for which file tapes are to be loaded, use file 0

PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE

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[15] Remove Generic tape from 3B APS
tape unit [DLP-528]

[16] Mount the ODA tape on same
3B APS tape unit [DLP-527]

[17] At 3B APS MCRT terminal, enter message
VER:UPDATE:TAPE,MT a!
a = Tape unit member number with
ODA tape mounted (0 or 1)

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

[19] At 3B APS MCRT terminal, enter message
LOAD:UPDATE:CONT "aaaabb",MT c!
a = BASE data (Step 18). Must be 4 characters
long and letters in Caps. Spaces are used
after BASE data if not 4 characters long
b = CONTROL data(Step 18). Must be 2 characters
long and letters in Caps. Spaces are used
after CONTROL data if not 2 characters long
c = Tape unit number number with
ODA tape mounted (0 or 1)

BASE AND CONTROL DATA
(MUST BE IN CAPS)

```

TAPE TYPE: ODA
BASE 908F, CONTROL H6
GENERIC 4E<xx>.4R-23, 4019
MOST RECENT OFL GENERATION: YR yy, MON 03, DAY 05 AT 16:23
THIS TAPE WRITTEN: YR yy, MON 03, DAY 09 AT 08:23
FS IDS: 0000000000001000, TAPE IDS: 0000000011110100
PARTL UPD FLG: 0, PHASE REQD: 0001000
  
```

FIG. 3



[20] Is DATABASE
COMPLETE - READY
FOR 1B SYSTEM
REINITIALIZATION
message received

Yes

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No

[21] Repeat
from Step 15,
using different
tape unit

```

TAPE HEADER
.
.
.
TAPE FILE 10 LOADED TO FS
.
.
TAPE FILE n LOADED TO FS
ODA COMPLETE
NWM SKIPPED
  
```

WRITE MERGE DATA AND ZERO FS AREAS
DATABASE COMPLETE - READY FOR 1B SYSTEM REINITIALIZATION

FIG. 4

**PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON
NORMAL FILE**

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[22] Remove ODA tape from 3B APS
tape unit [DLP-528]

[23] Mount TOSL tape on same
3B APS tape unit [DLP-527]

[24] At 3B APS MCRT terminal
enter message
LOAD:APPTAPE:TOSL,MT a!
a = Tape unit member number with
TOSL tape mounted (0 or 1)

AND

[25] Is
LOAD APPTAPE COMPLETED
message received

No

[26] Repeat
from Step 22,
using different
tape unit

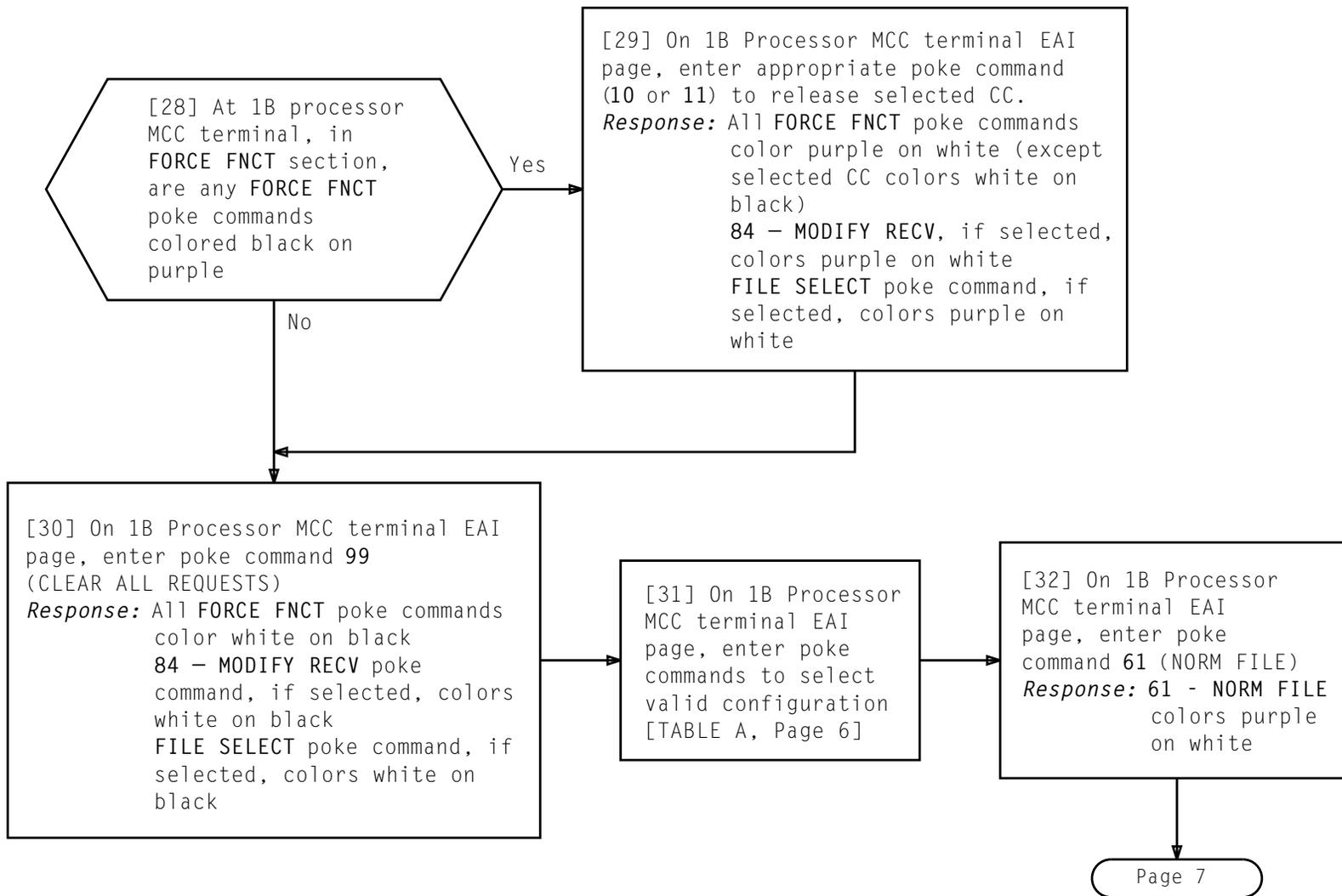
Yes

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

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**PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON
NORMAL FILE**

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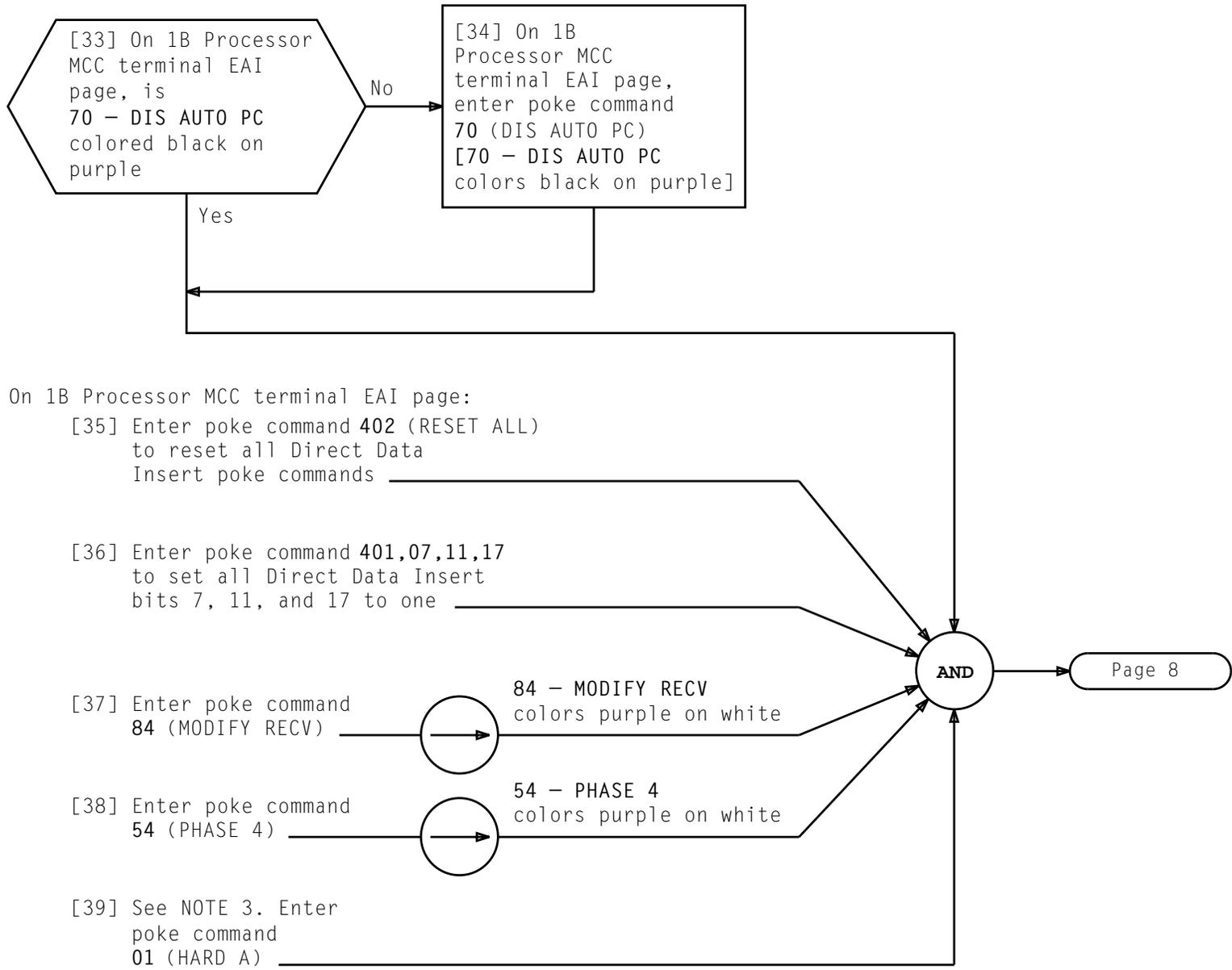


PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE

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TABLE A													
1B Processor Manual Configurations and Associated Poke Commands													
Manual Config Sequence	Override Control Selections												
	PC State	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1
1	40	10		20		22		30		40		42	
2	41		11		21		23		31		41		43
3	52		11	20			23	30			41	42	
4	53		11		21	22			31	40			43
5	66		11	20			23		31	40			43
6	50	10		20		22		30			41	42	
7	51	10			21		23		31	40			43
8	65	10			21	22		30			41	42	
9	67	10			21	22		30			41	42	
10	64		11	20		22			31	40			43
11	74		11	20		22			31		41		43
12	77		11		21	22		30		40		42	
13	76	10		20			23		31		41		43
14	75	10			21		23	30		40		42	
15	43	10			21	22			31		41		43
16	42		11	20			23	30		40		42	

PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE



NOTE 3
 As soon as poke command 01 (HARD A) is entered, PC PROGRESSION, CC, CS, IF, AU and PS text colors RED for short time and CMPL text colors WHITE on RED. CMPL text colors GREEN on BLACK if good processor configuration is established

PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE

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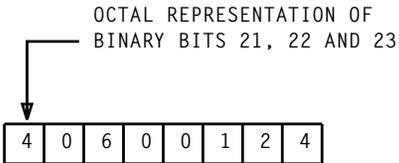
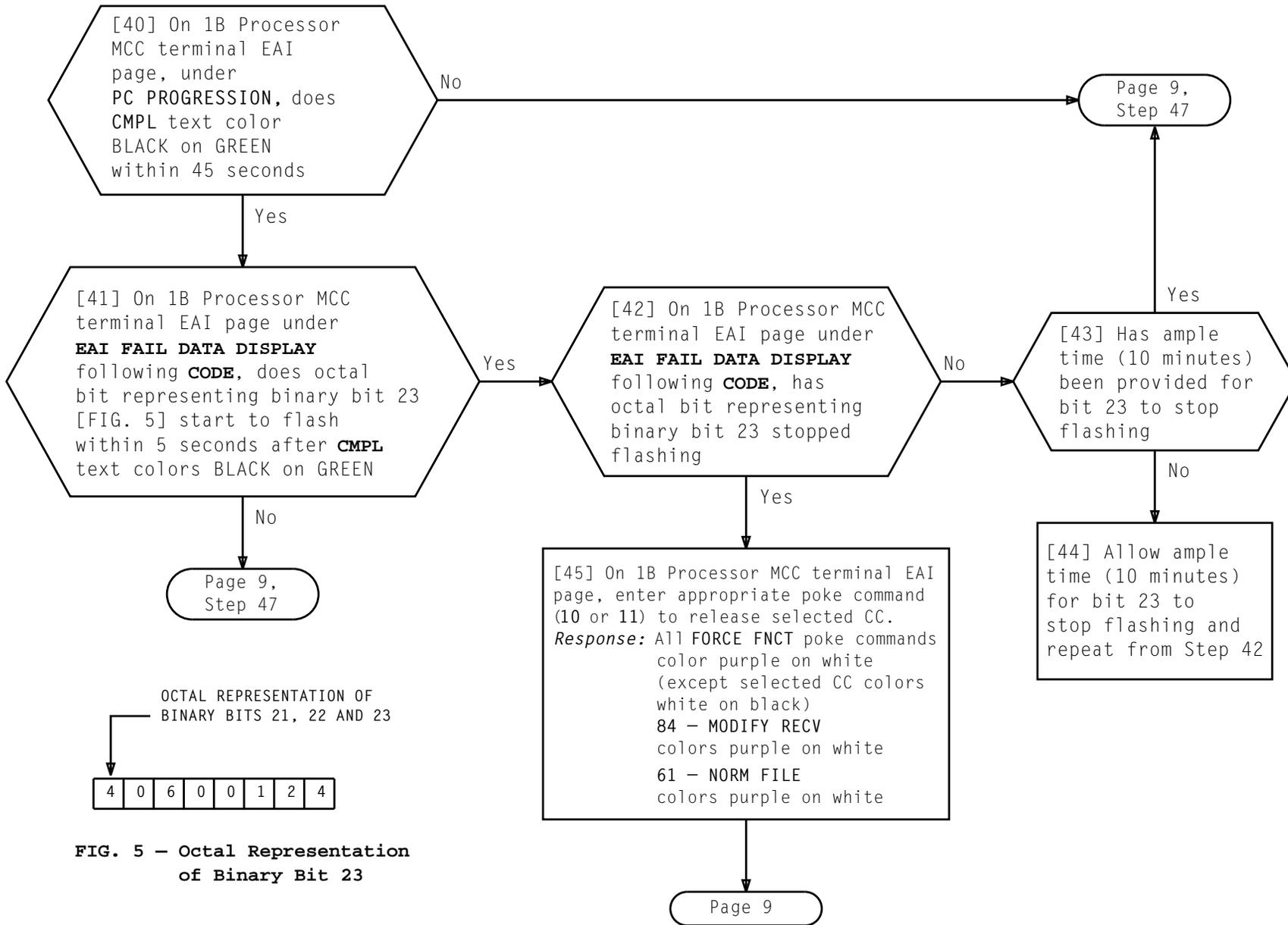
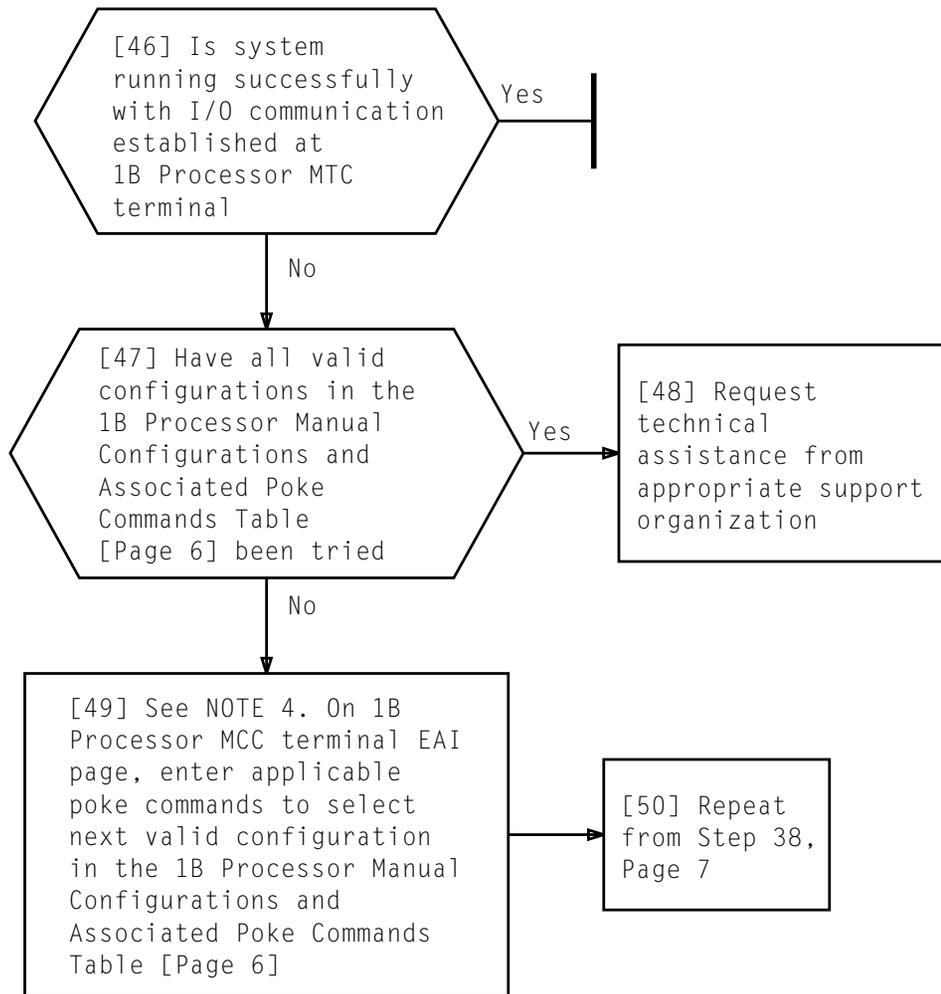


FIG. 5 - Octal Representation of Binary Bit 23

PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE

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NOTE 4	
In order to clear an unwanted selection in the FORCE FNCT section, enter the associated poke command that is colored purple on white	
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PERFORM 1AFILE RELOAD AND ATTEMPT 1B PROCESSOR RECOVERY ON NORMAL FILE

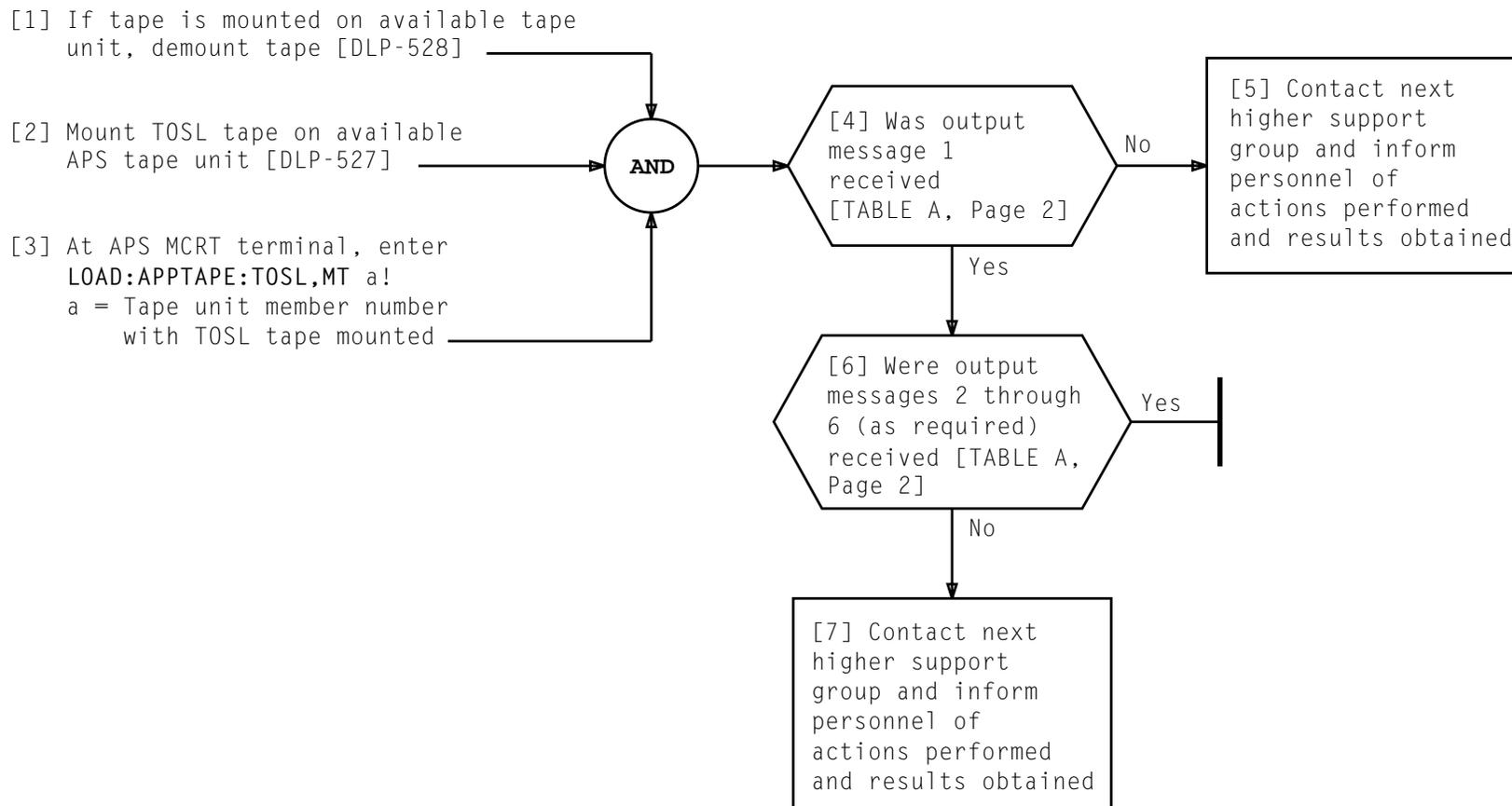


TABLE A TOSL TAPE LOADING OUTPUT MESSAGES	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: TOSL, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaa - bbbbbbbb COMPLETED
4*	APPTAPE ADDRESS RANGE cccccccc - dddddddd STARTED
5*	APPTAPE ADDRESS RANGE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

[1] If tape is mounted on available tape unit, demount tape [DLP-528]

[2] Mount LTS tape on available APS tape unit [DLP-527]

[3] See NOTE 1. At APS MCRT terminal, enter
LOAD:APPTAPE:LTS,MT a!
a = Tape unit member number
with LTS tape mounted

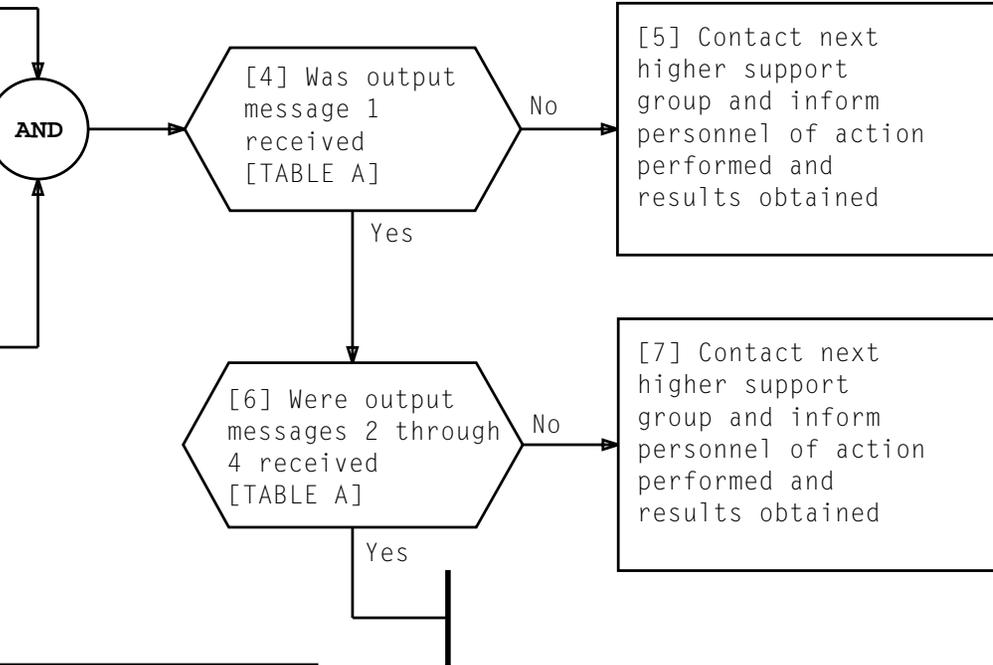
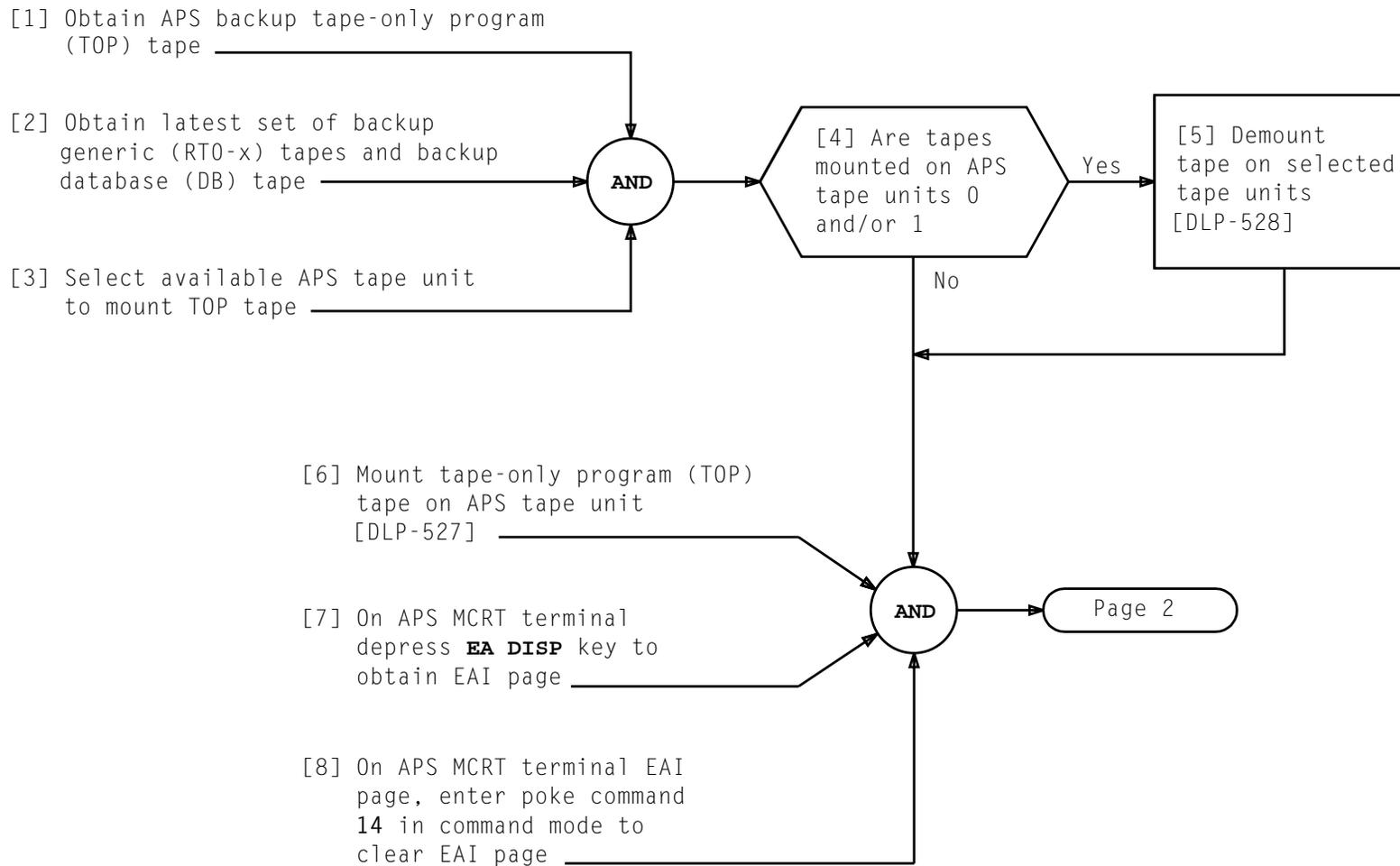


TABLE A LTS TAPE LOADING OUTPUT MESSAGES	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: LTS, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaa – bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = Month/day/year hour:minute tape was written aaaaaaa = Starting LTS address bbbbbbb = Ending LTS 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, a repeat later (RL) response will be received

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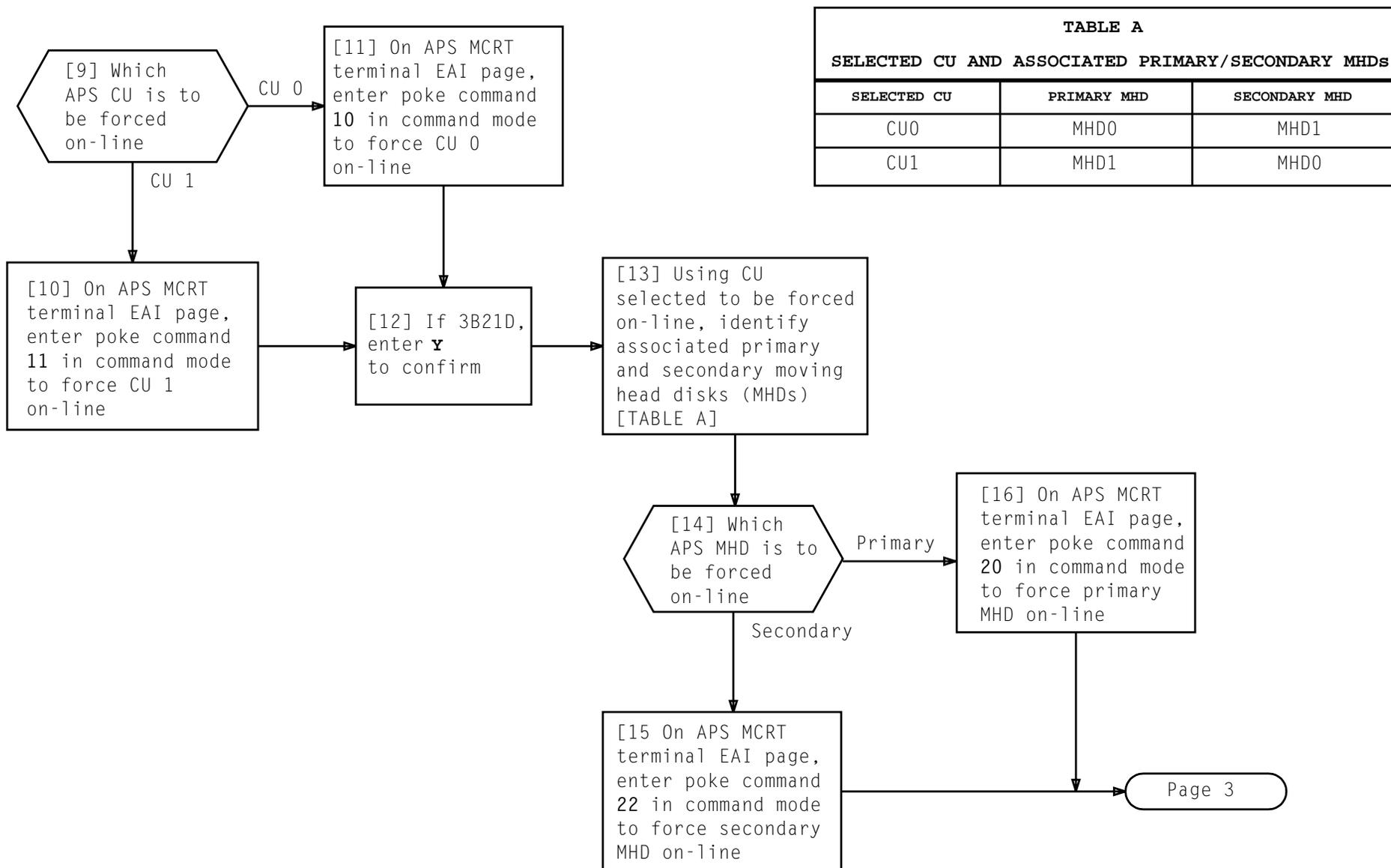
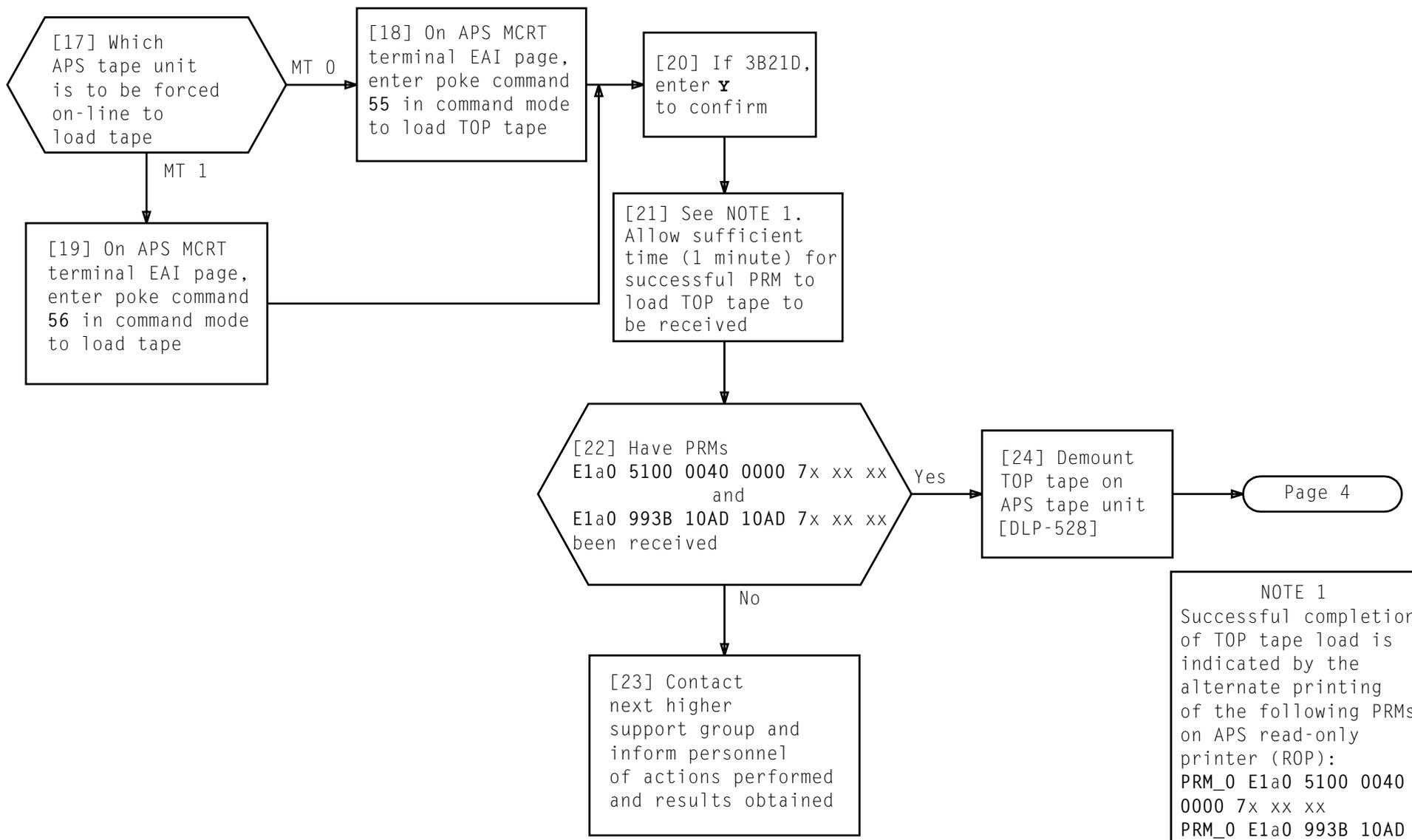


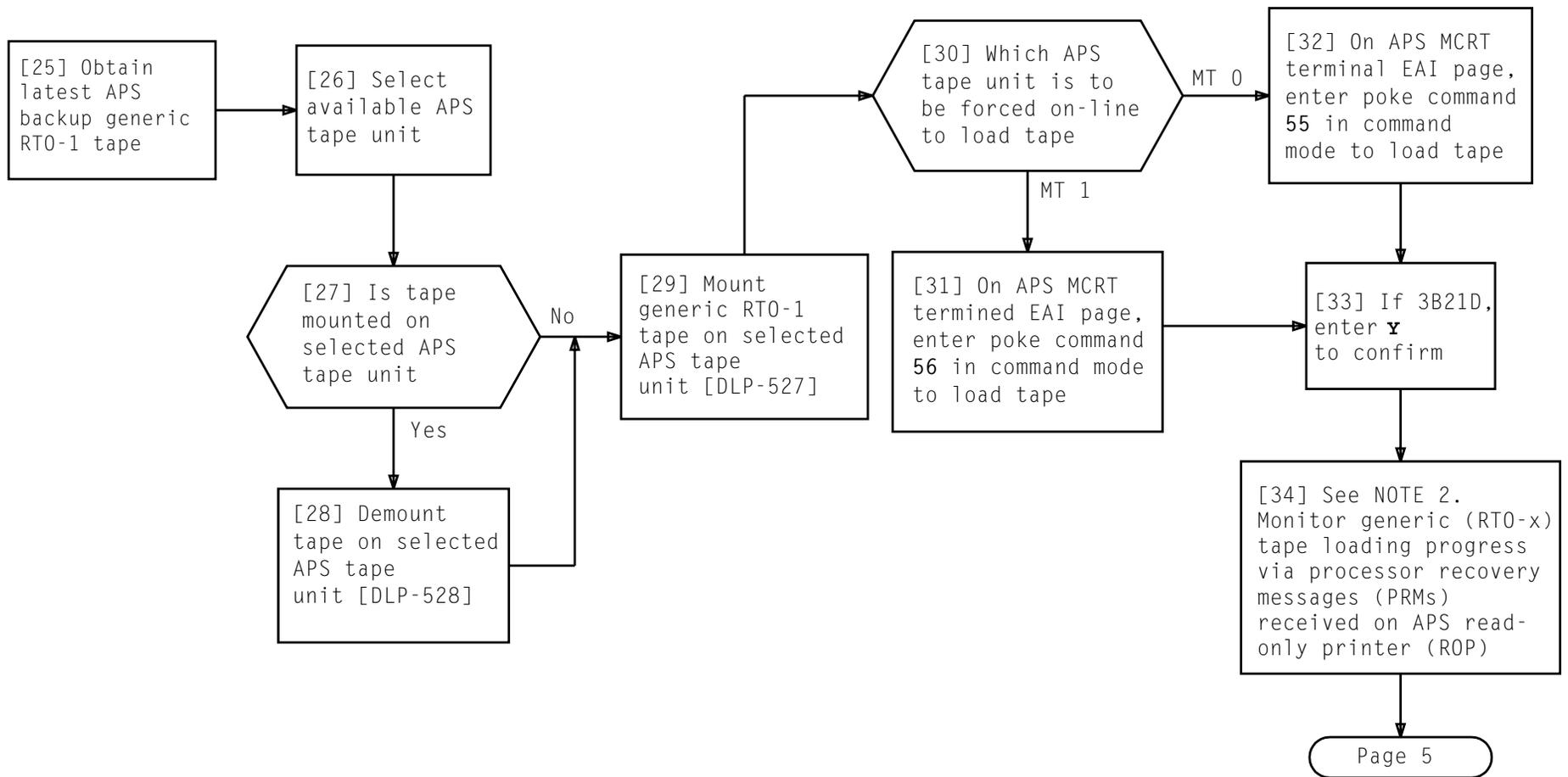
TABLE A
SELECTED CU AND ASSOCIATED PRIMARY/SECONDARY MHDs

SELECTED CU	PRIMARY MHD	SECONDARY MHD
CU0	MHD0	MHD1
CU1	MHD1	MHD0



NOTE 1
 Successful completion of TOP tape load is indicated by the alternate printing of the following PRMs on APS read-only printer (ROP):
 PRM_0 E1a0 5100 0040 0000 7x xx xx
 PRM_0 E1a0 993B 10AD 10AD 7x xx xx
 a = 6 or 7

PERFORM ATTACHED PROCESSOR SYSTEM (APS) SYSTEM REINITIALIZATION (SR)



NOTE 2
 During loading of generic (RT0-x) tape, a series of PRMs will be printed that contain status information pertaining to load

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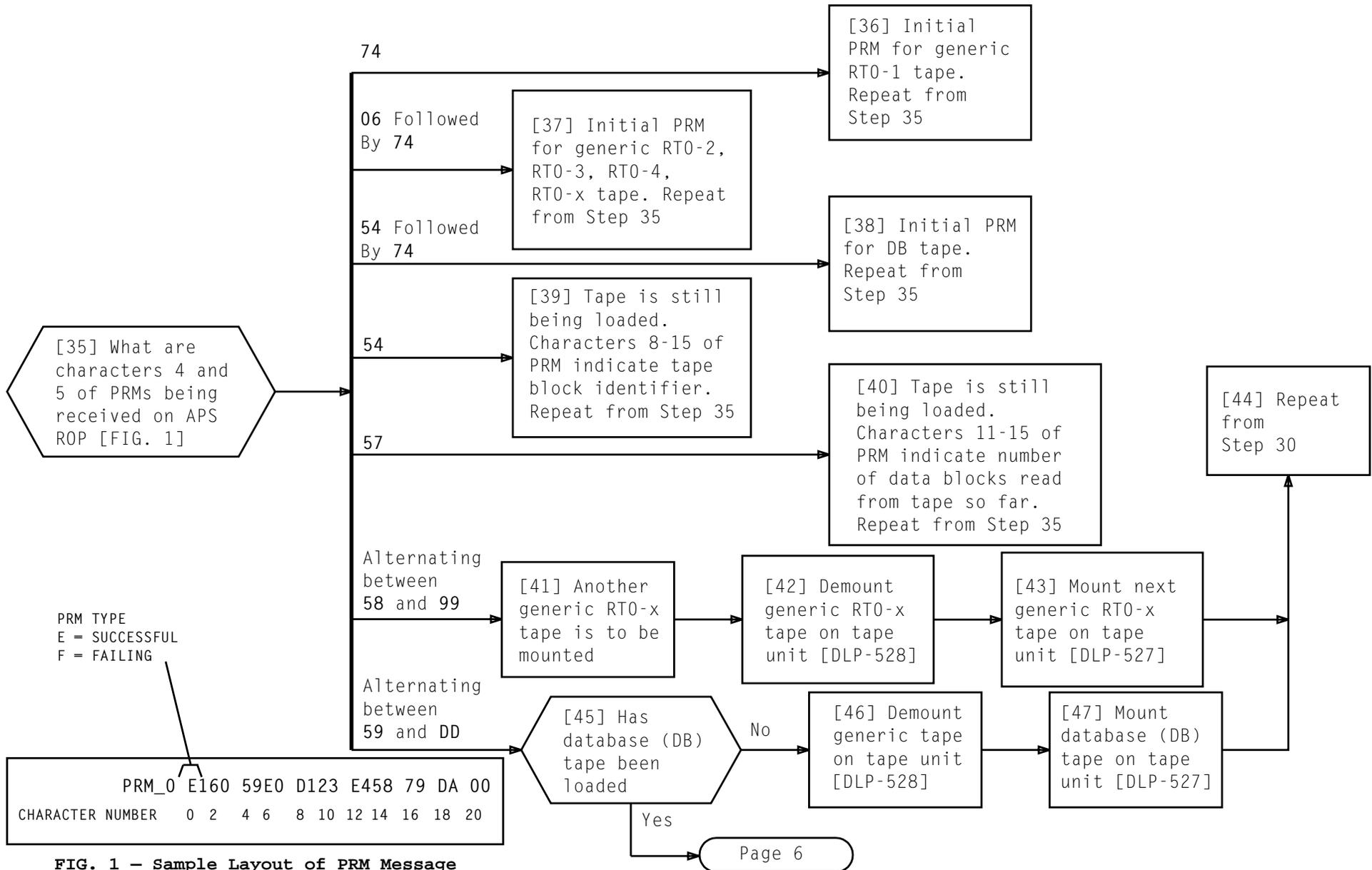
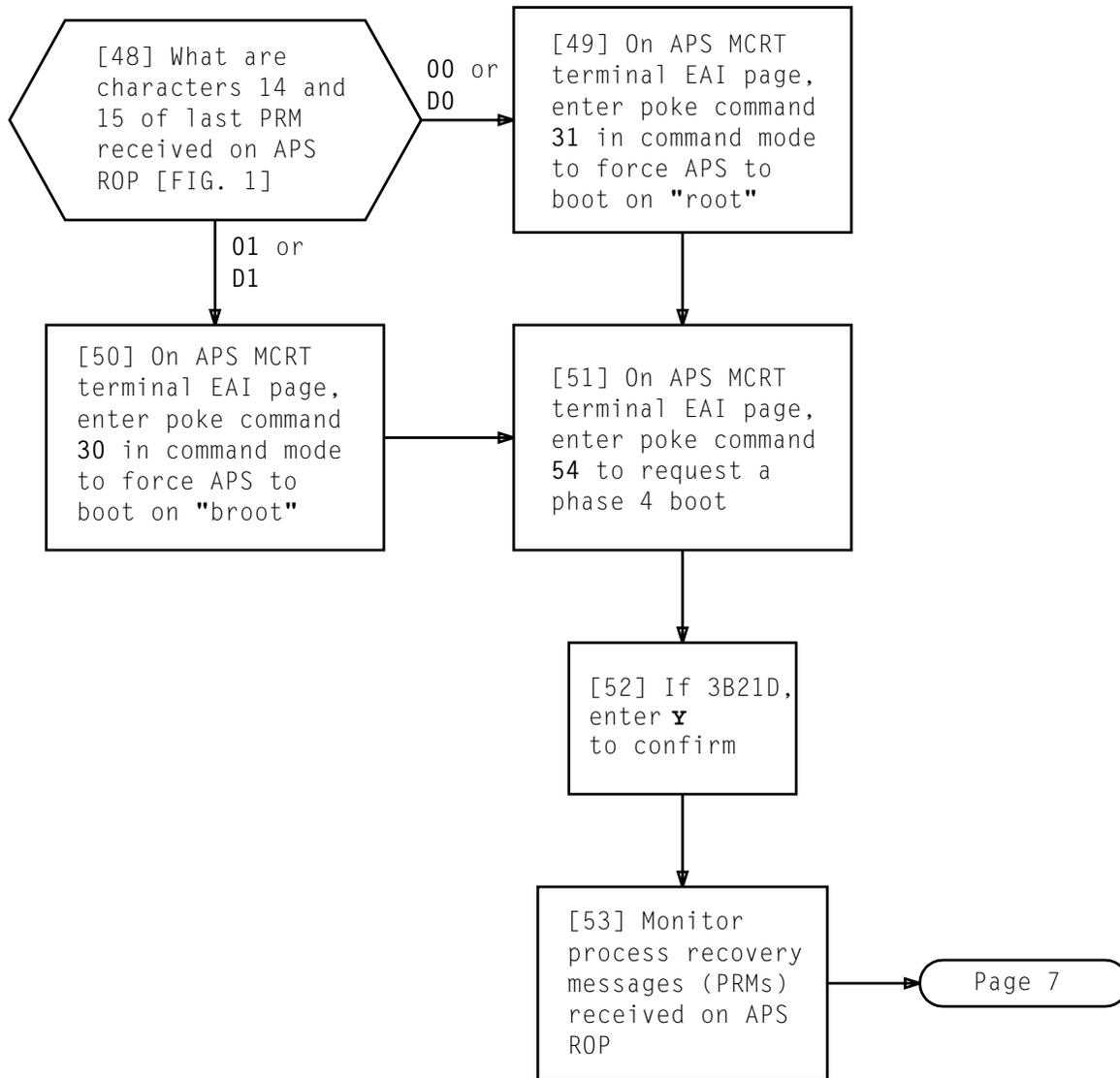


FIG. 1 - Sample Layout of PRM Message

**PERFORM ATTACHED PROCESSOR SYSTEM (APS) SYSTEM
REINITIALIZATION (SR)**

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PERFORM ATTACHED PROCESSOR SYSTEM (APS) SYSTEM REINITIALIZATION (SR)

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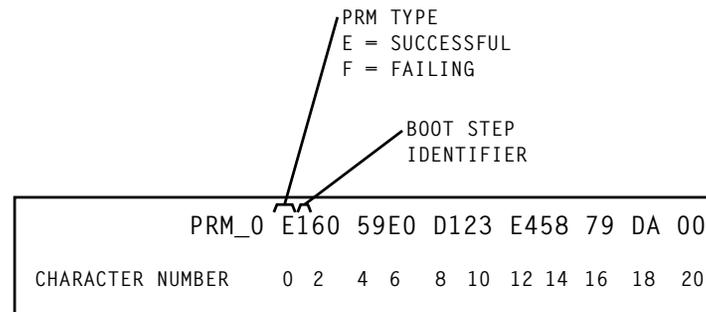
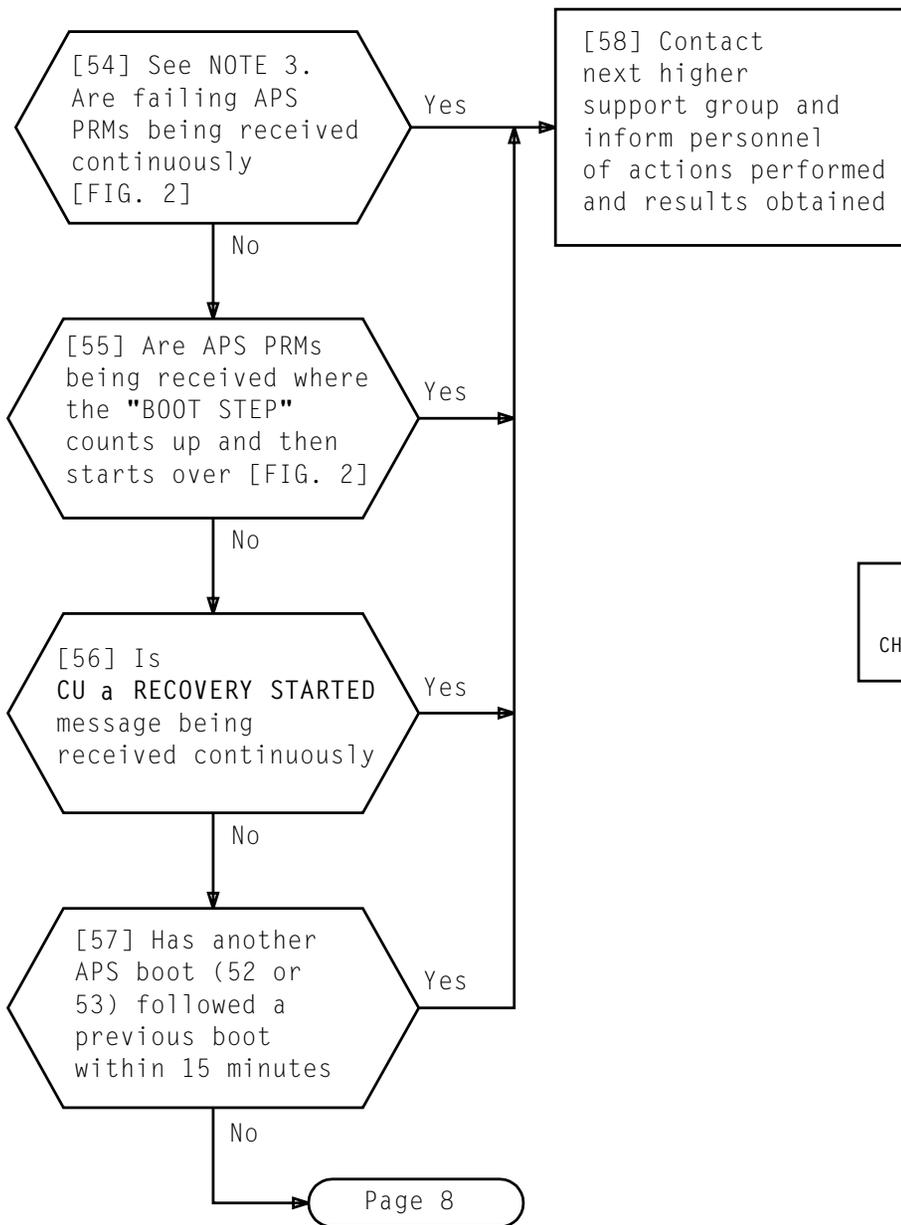
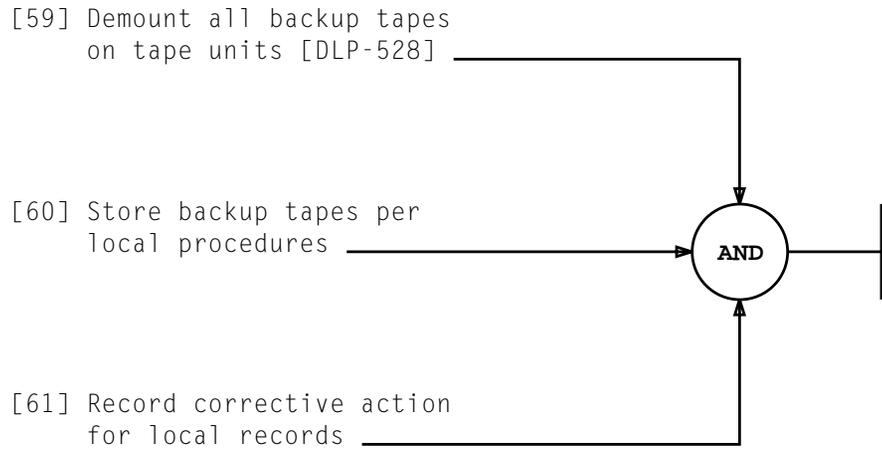


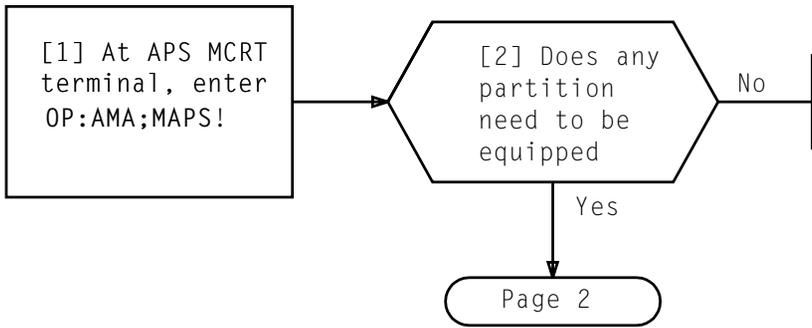
FIG. 2 - Sample Layout of PRM Message

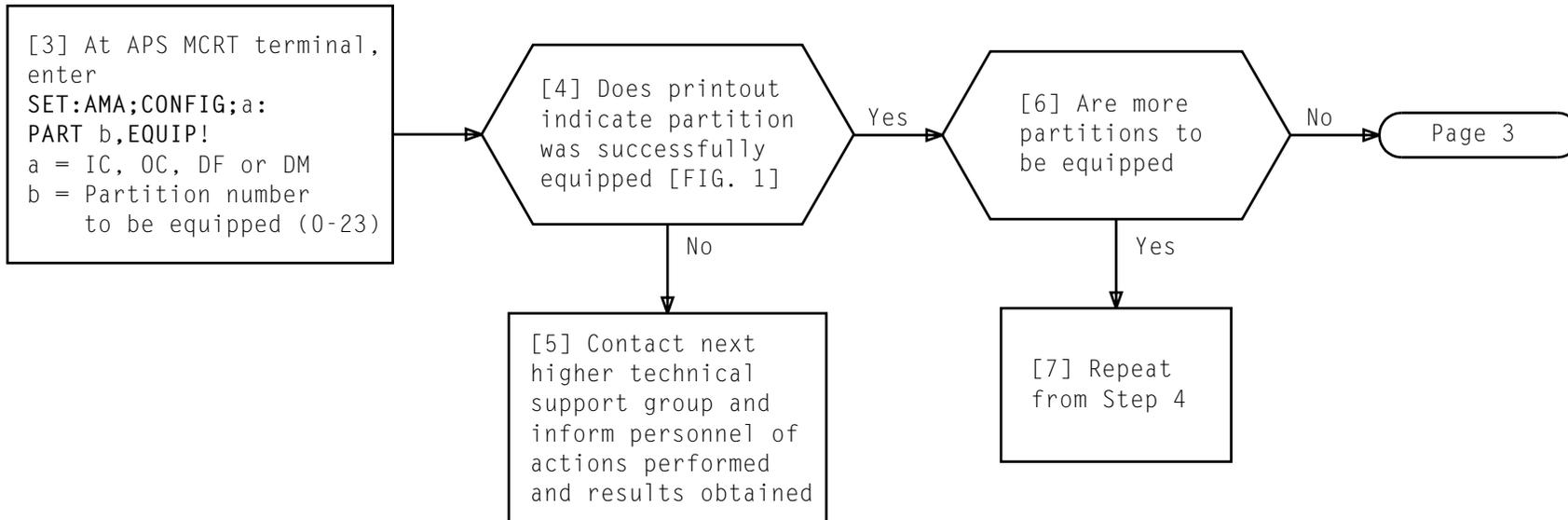
NOTE 3	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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**PERFORM ATTACHED PROCESSOR SYSTEM (APS) SYSTEM
REINITIALIZATION (SR)**

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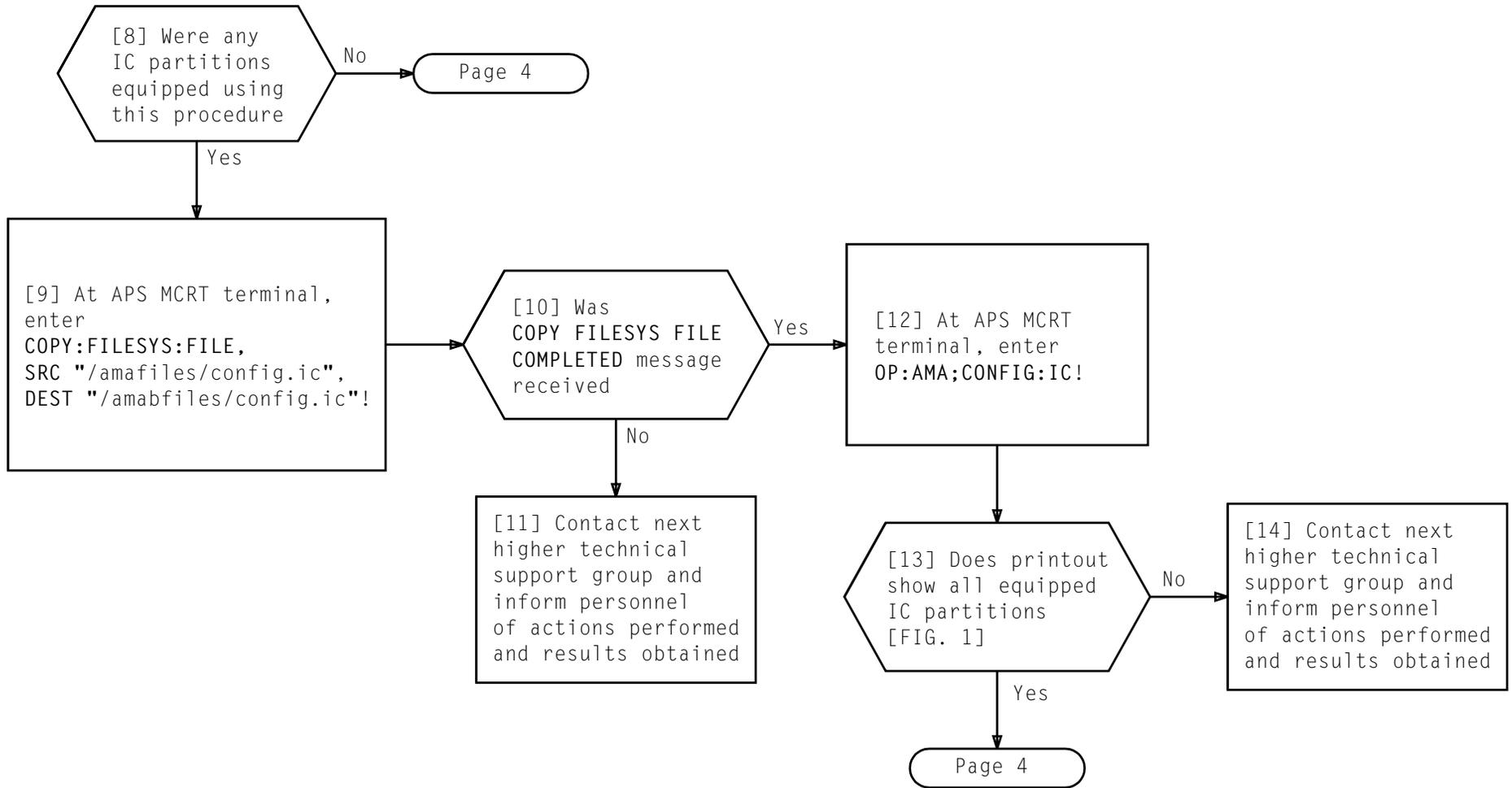
REPT AMA CONFIG FILE FOR a STREAM
NUMBER OF EQUIPPED PARTITIONS b
TOTAL NUMBER OF AMA BLOCKS c
d e f

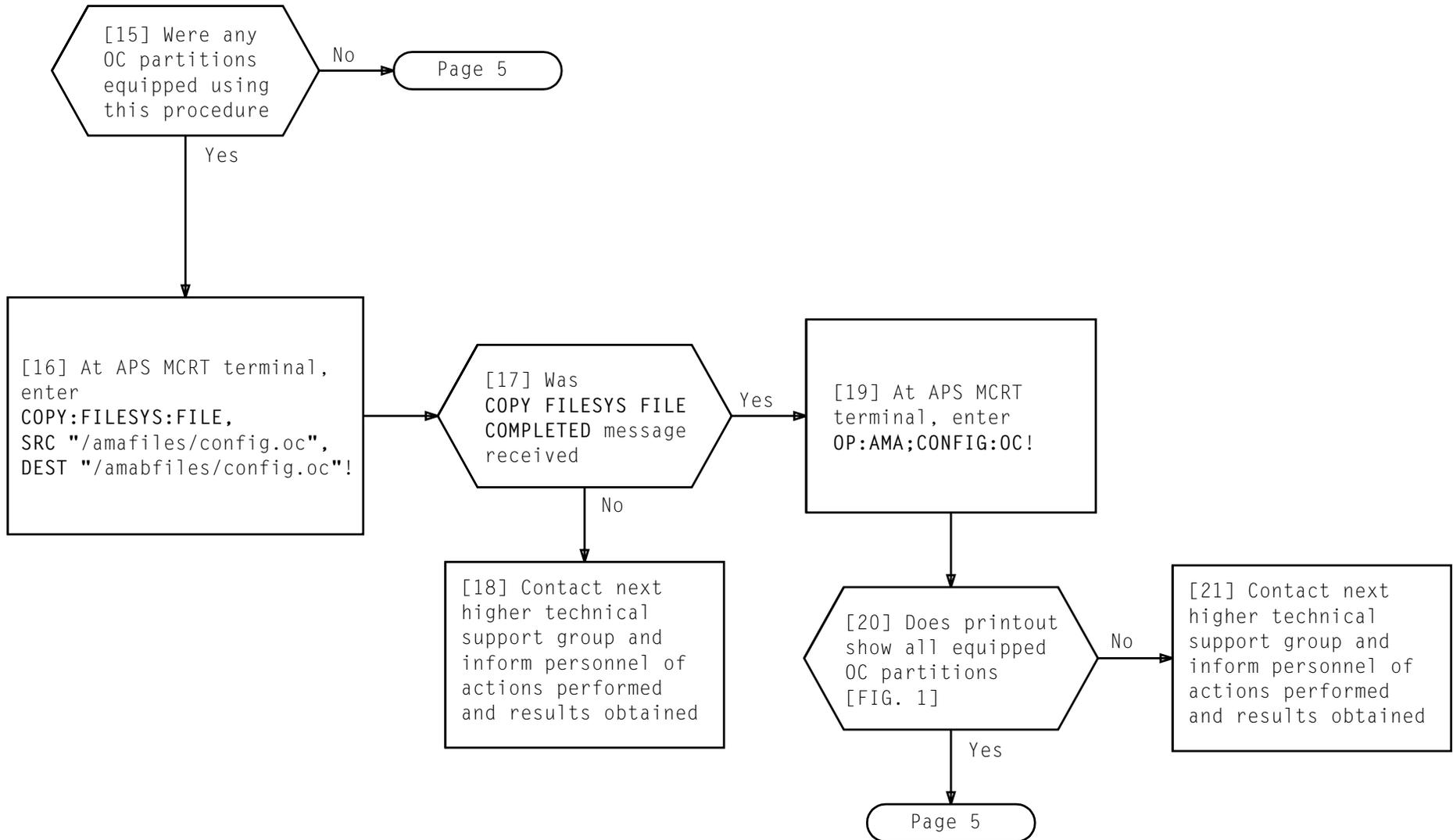
a = IC, OC, DF or DM
b = Number of AMA partitions equipped
for this stream

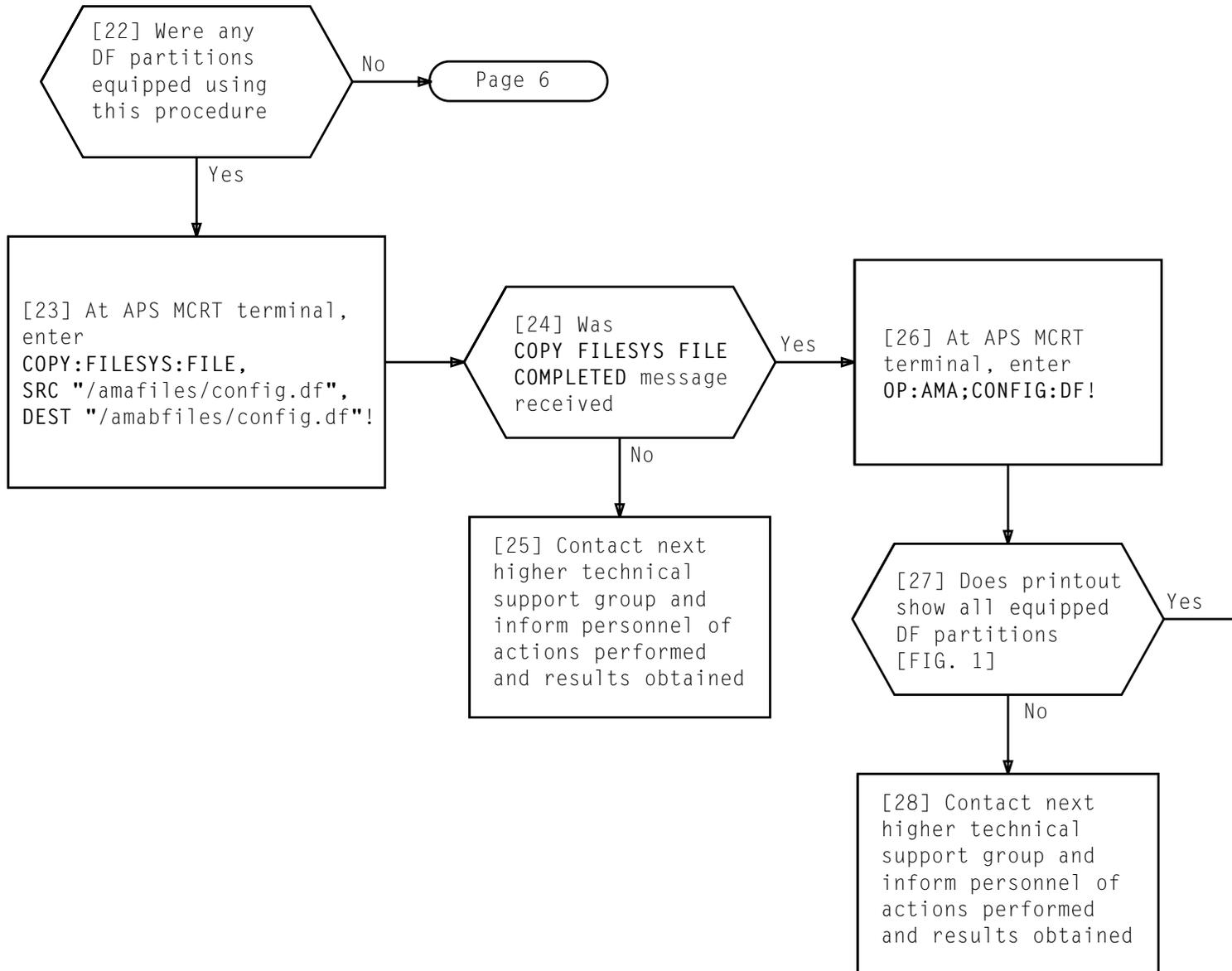
c = Number of AMA blocks for this stream
d = AMA partition number
e = AMA partition file name
f = Number of AMA blocks for this partition
  
```

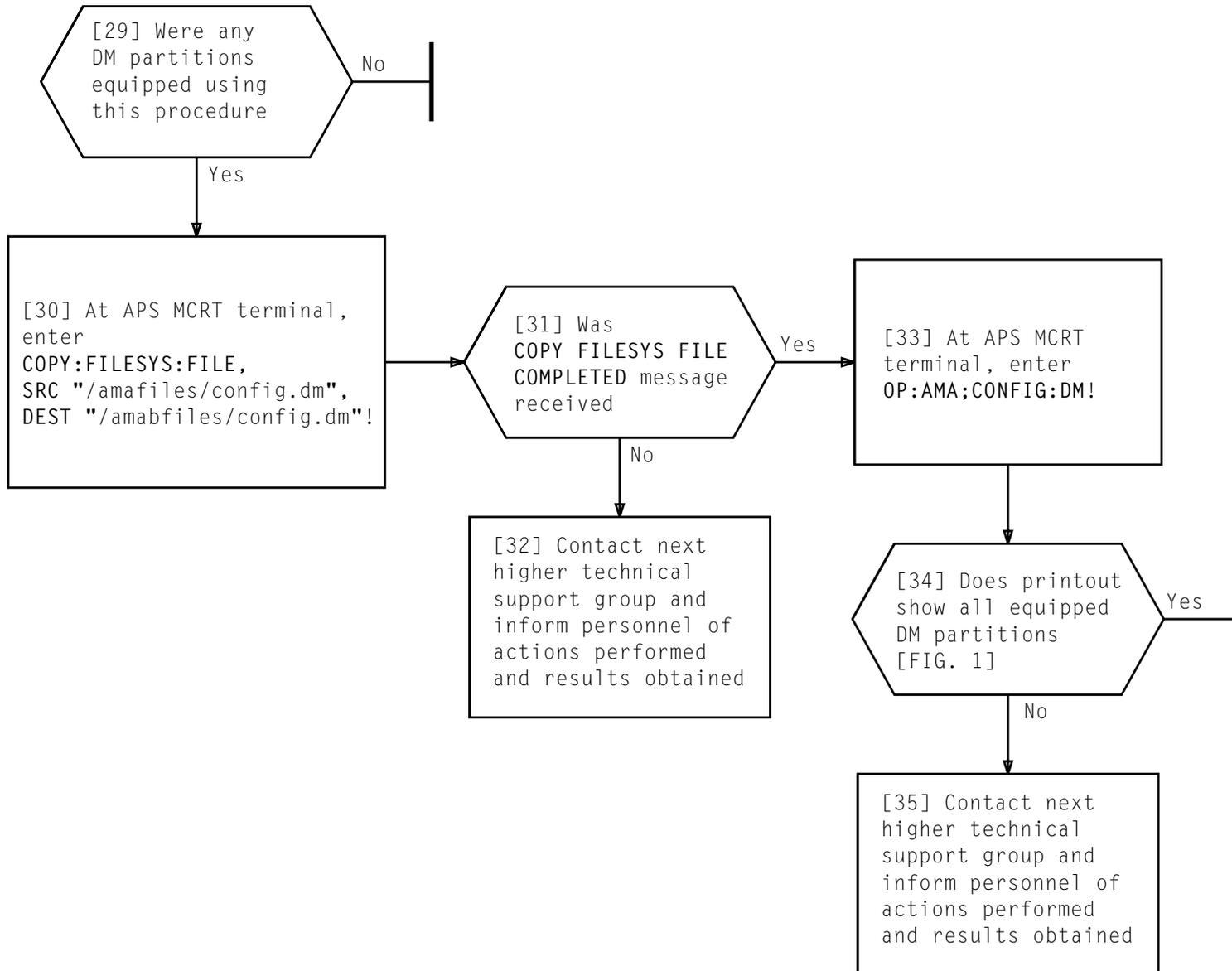
FIG. 1 – Sample Output Message Indicating Successful Equipage of Partition

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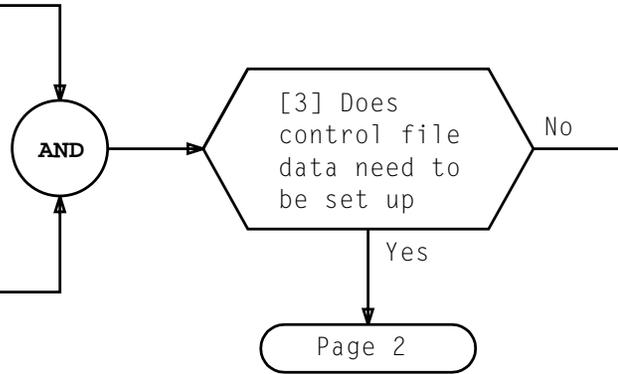




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[1] At APS MCRT terminal, enter
OP:AMA;CONTROLFILE!

[2] Using printout, determine if
control file data needs to
be set up



SET UP ATTACHED PROCESSOR SYSTEM (APS) AMA CONTROL FILE DATA

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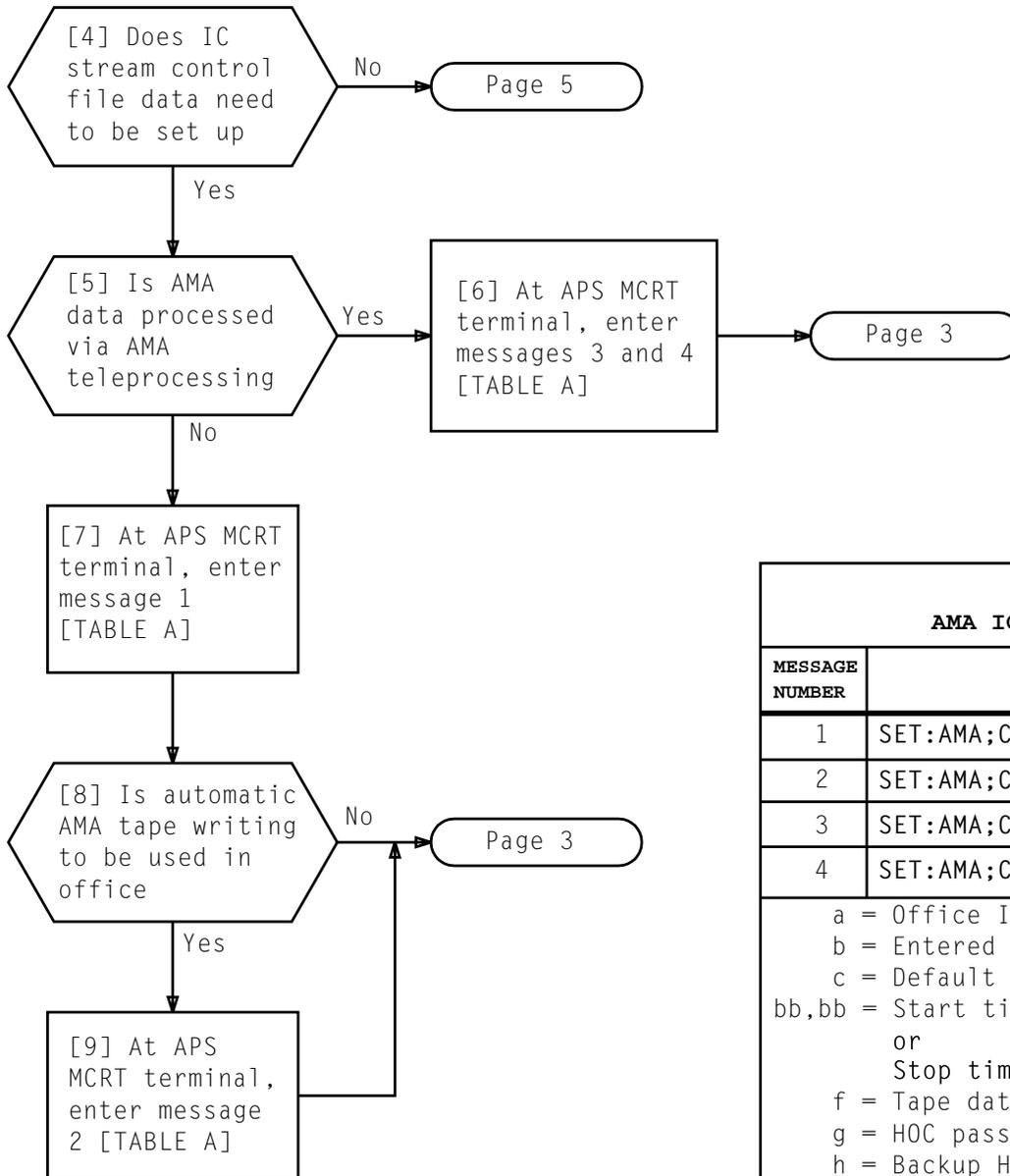
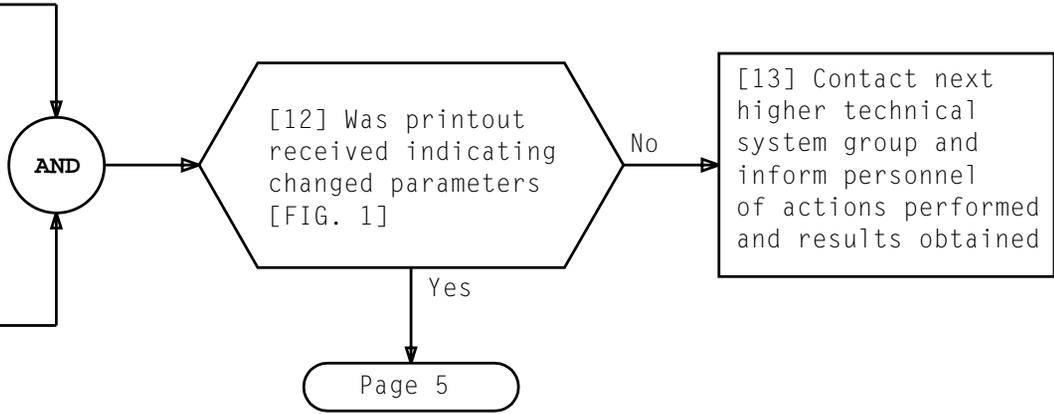


TABLE A AMA IC STREAM CONTROL FILE DATA INPUT MESSAGES	
MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;IC:OFFICEID a,EXPDATE b,OPTION TAPE!
2	SET:AMA;CONTROL;IC:MT c,START(bb,bb),STOP(bb,bb),TAPEID " f"!
3	SET:AMA;CONTROL;IC:OFFICEID a,START(bb,bb),STOP(bb,bb)!
4	SET:AMA;CONTROL;IC:OPTION TP,HOCPSWD 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 bb,bb = Start time for automatic tape writing or teleprocessing (hh,mm) or 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)	

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[10] See NOTE 1. At APS MCRT terminal, enter
 SET:AMA;CONTROL;IC:DF a!
 a = Deferred format feature
 switch setting (ON or OFF)

[11] See NOTE 1. At APS MCRT terminal,
 enter SET:AMA;CONTROL;IC:FAST a!
 a = Fast Stream Option indicating
 which office stream is fast
 (IC or OC)



NOTE 1	
DF parameters are only stored in the IC control file	
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```

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

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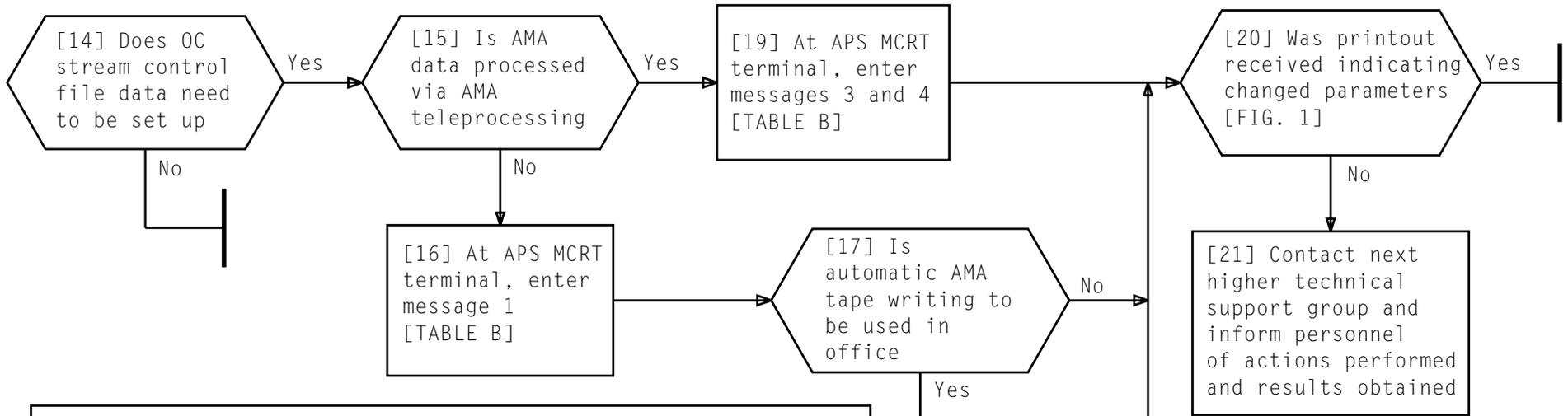
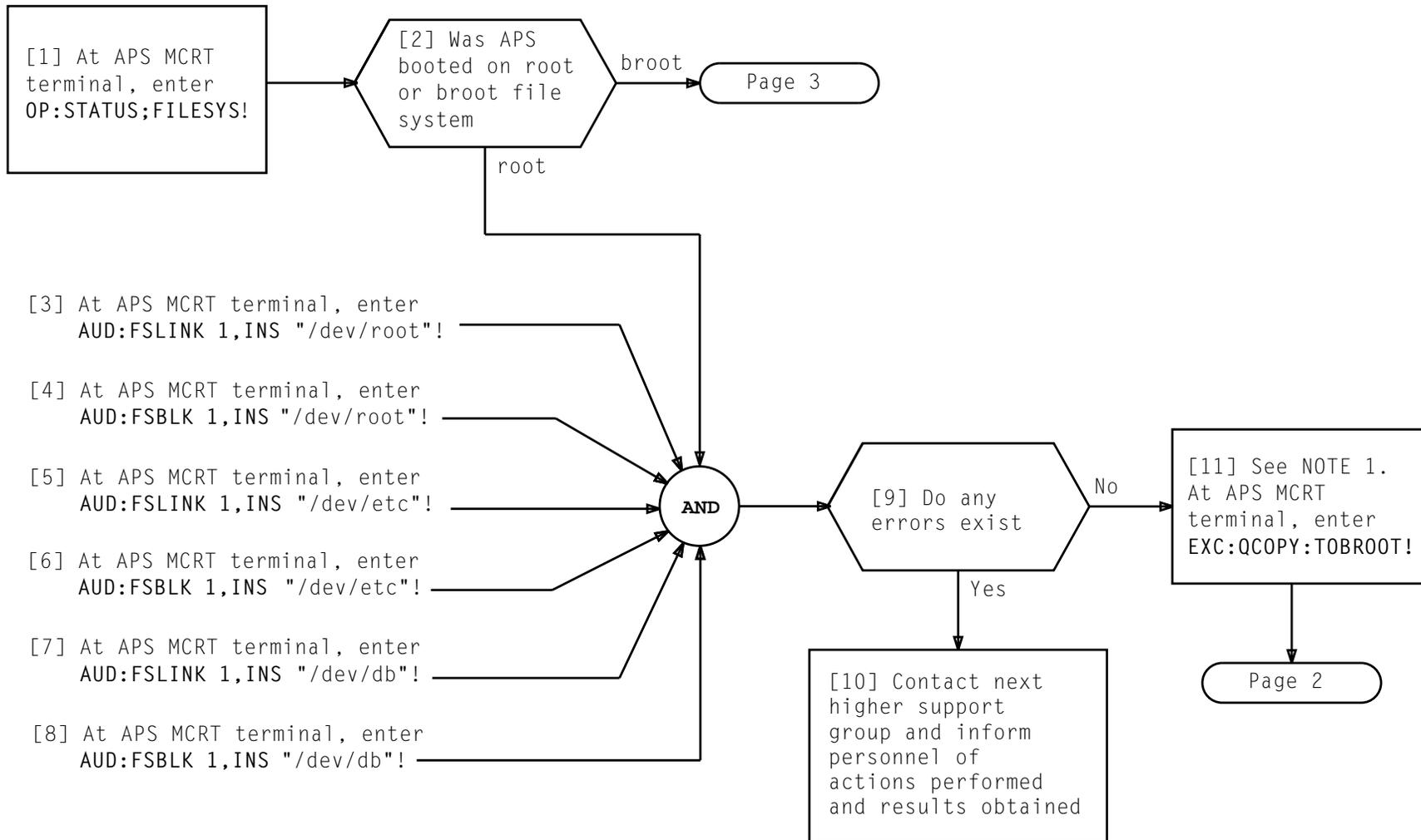


TABLE B AMA OC STREAM CONTROL FILE DATA INPUT MESSAGES	
MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;OC:OFFICEID a,EXPDATE b,OPTION TAPE!
2	SET:AMA;CONTROL;OC:MT c,START(bb,bb),STOP(bb,bb),TAPEID "f"!
3	SET:AMA;CONTROL;OC:OFFICEID a,START(bb,bb),STOP(bb,bb)!
4	SET:AMA;CONTROL;OC:OPTION TP,HOCPSWD g,BACKUPSWD 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 bb,bb = Start time for automatic tape writing or teleprocessing (hh,mm) or 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)	

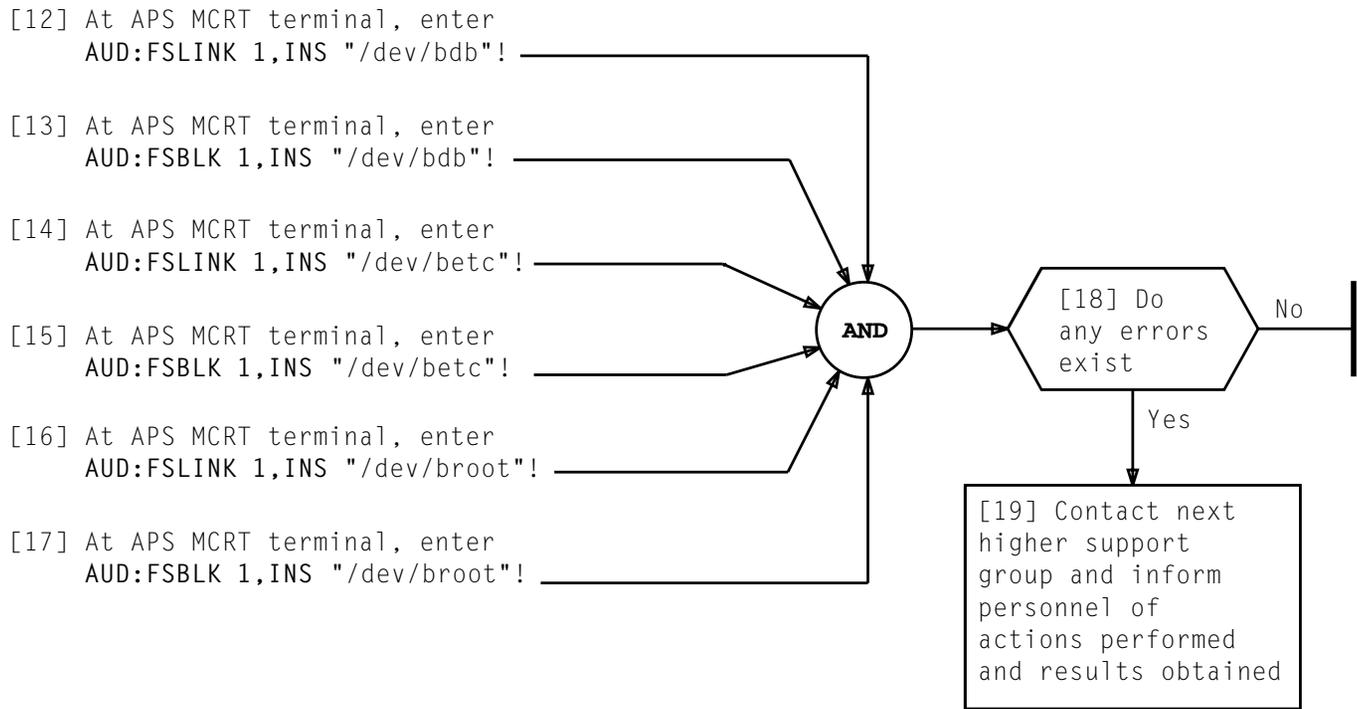
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NOTE 1
After each input message, wait for COMPLETED message before proceeding to next step

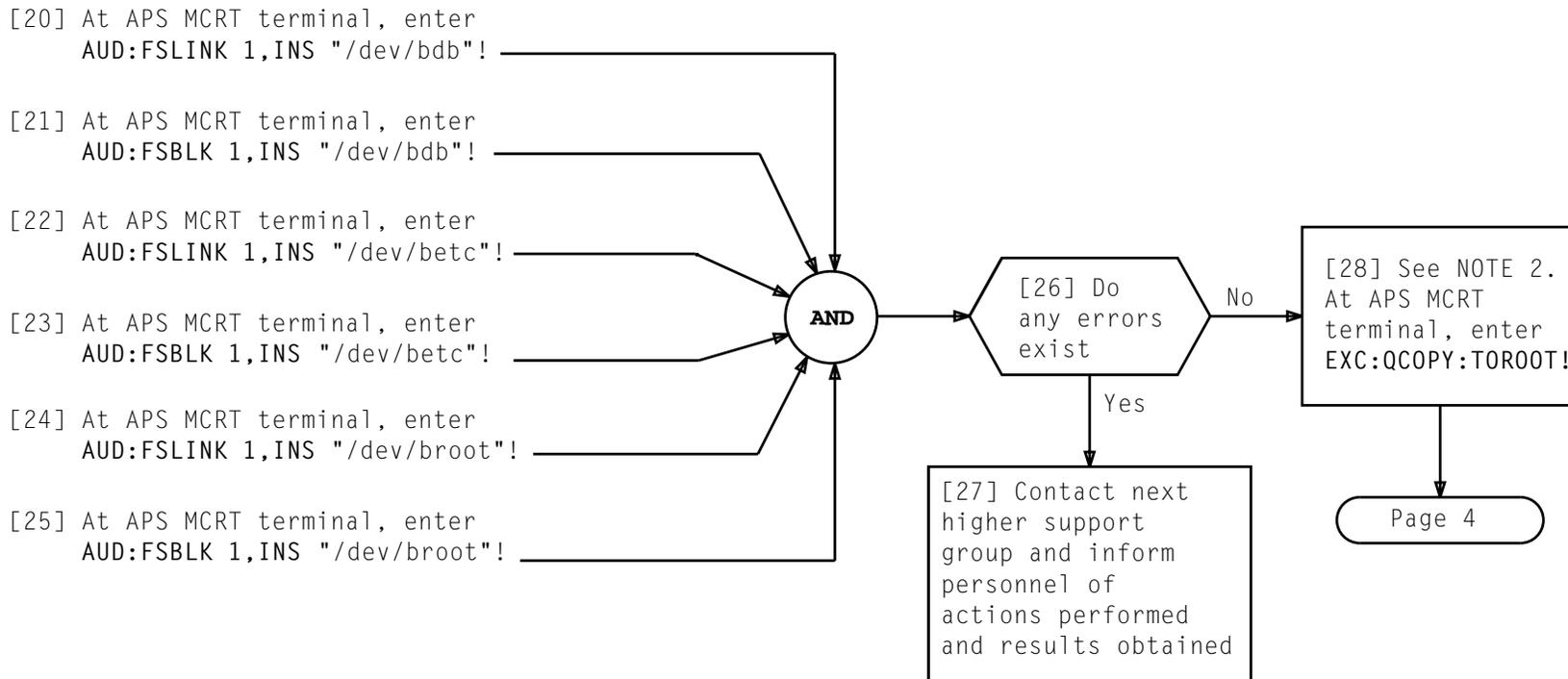
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COPY ATTACHED PROCESSOR SYSTEM (APS) ROOT TO BROOT OR BROOT TO ROOT



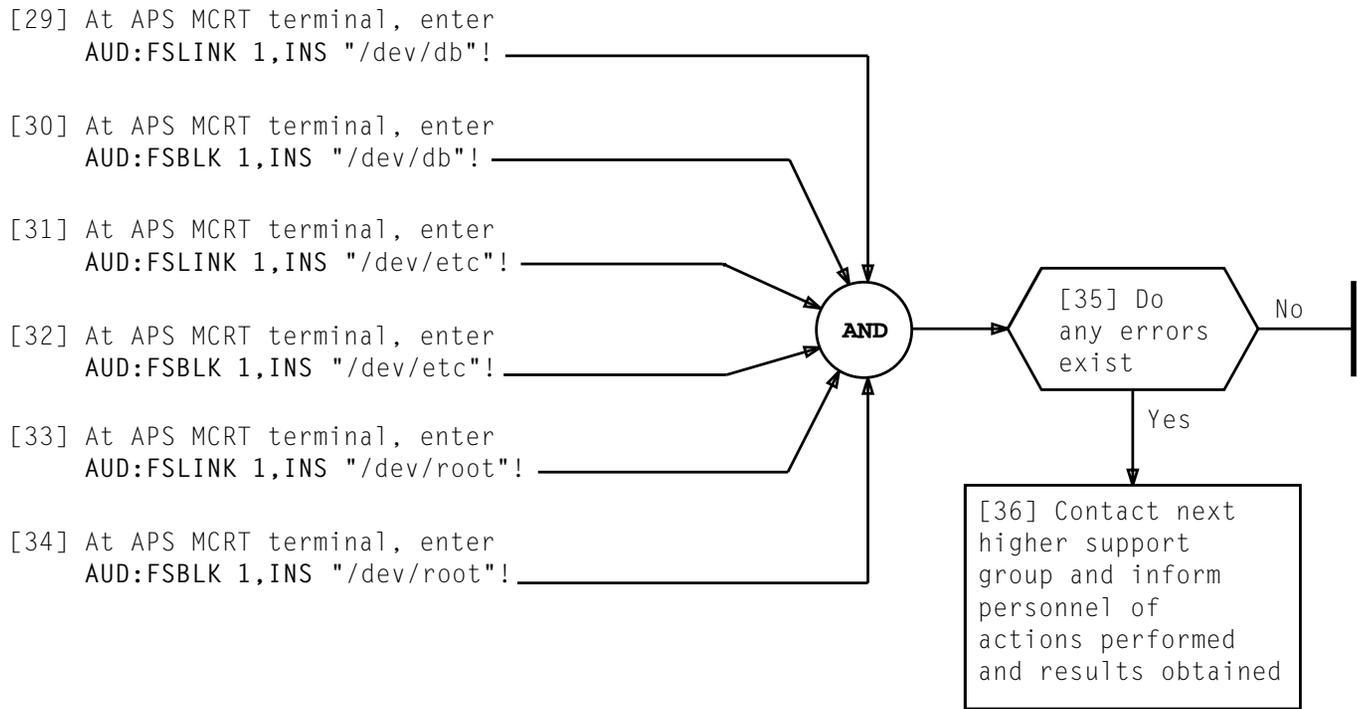
**COPY ATTACHED PROCESSOR SYSTEM (APS) ROOT TO BROOT OR
BROOT TO ROOT**

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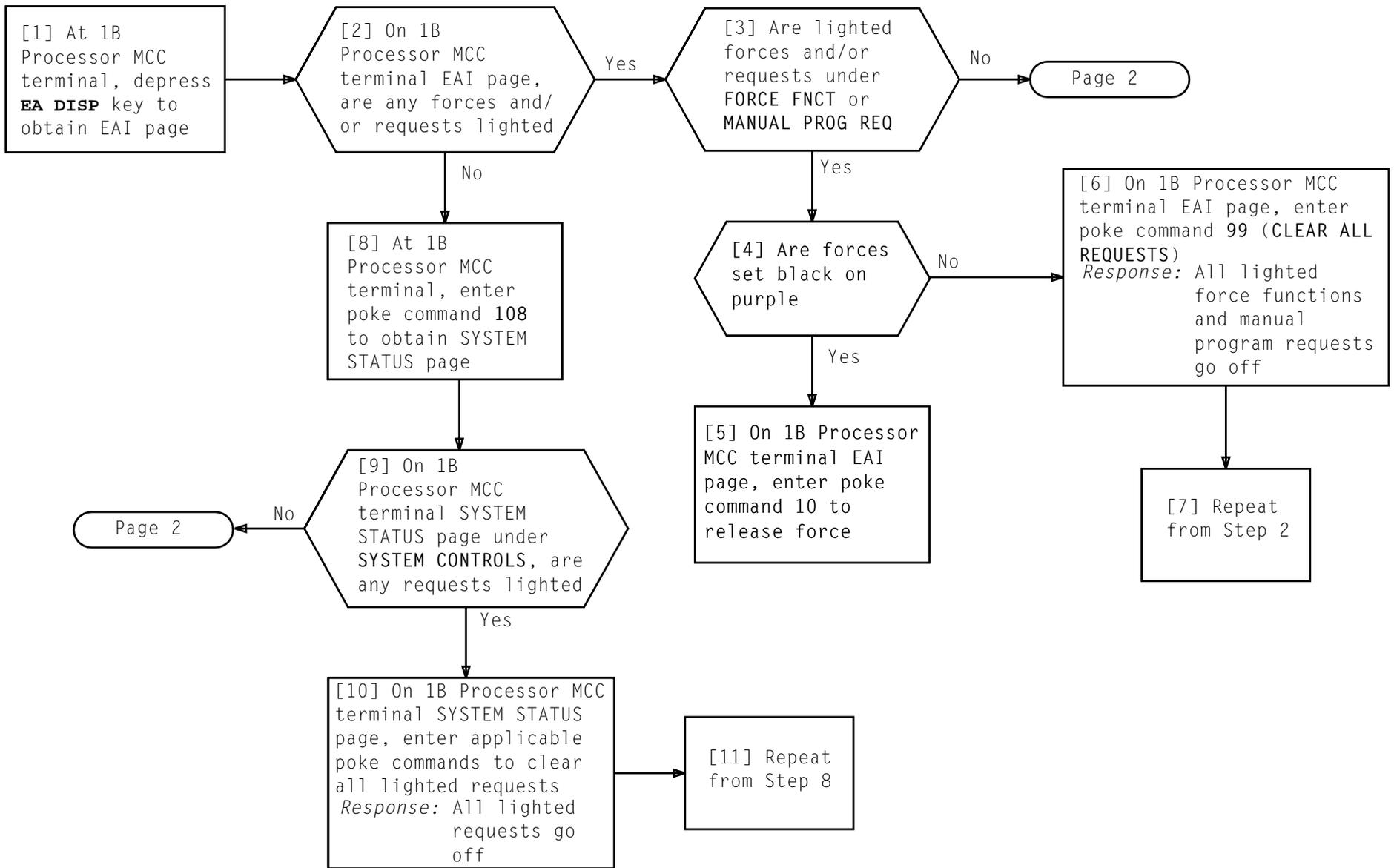
NOTE 2	
After each input message, wait for COMPLETED message before proceeding to next step	
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**COPY ATTACHED PROCESSOR SYSTEM (APS) ROOT TO BROOT OR
BROOT TO ROOT**



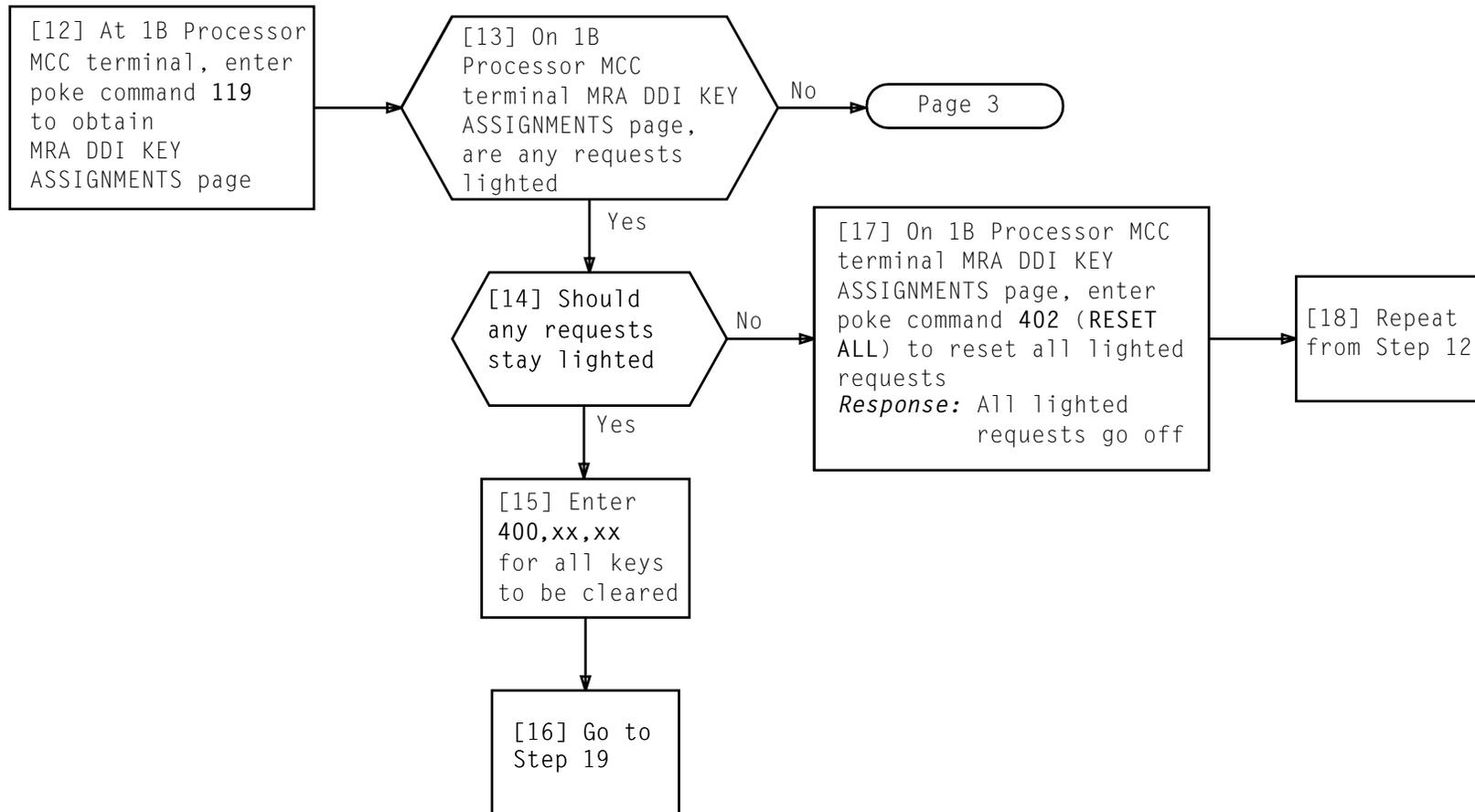
**COPY ATTACHED PROCESSOR SYSTEM (APS) ROOT TO BROOT OR
BROOT TO ROOT**

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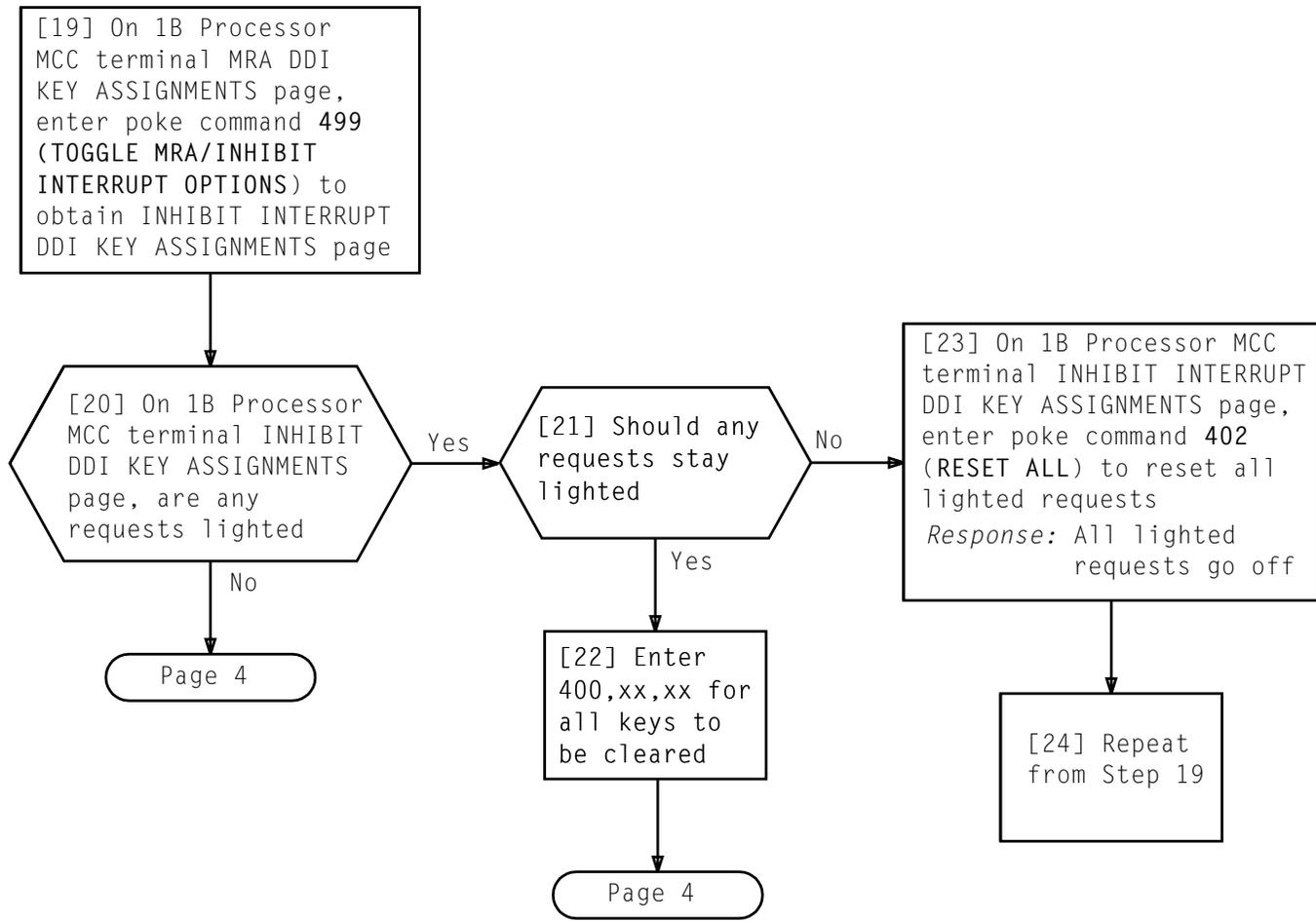
CLEAR ALL 1B PROCESSOR MCC TERMINAL FORCES AND/OR REQUESTS

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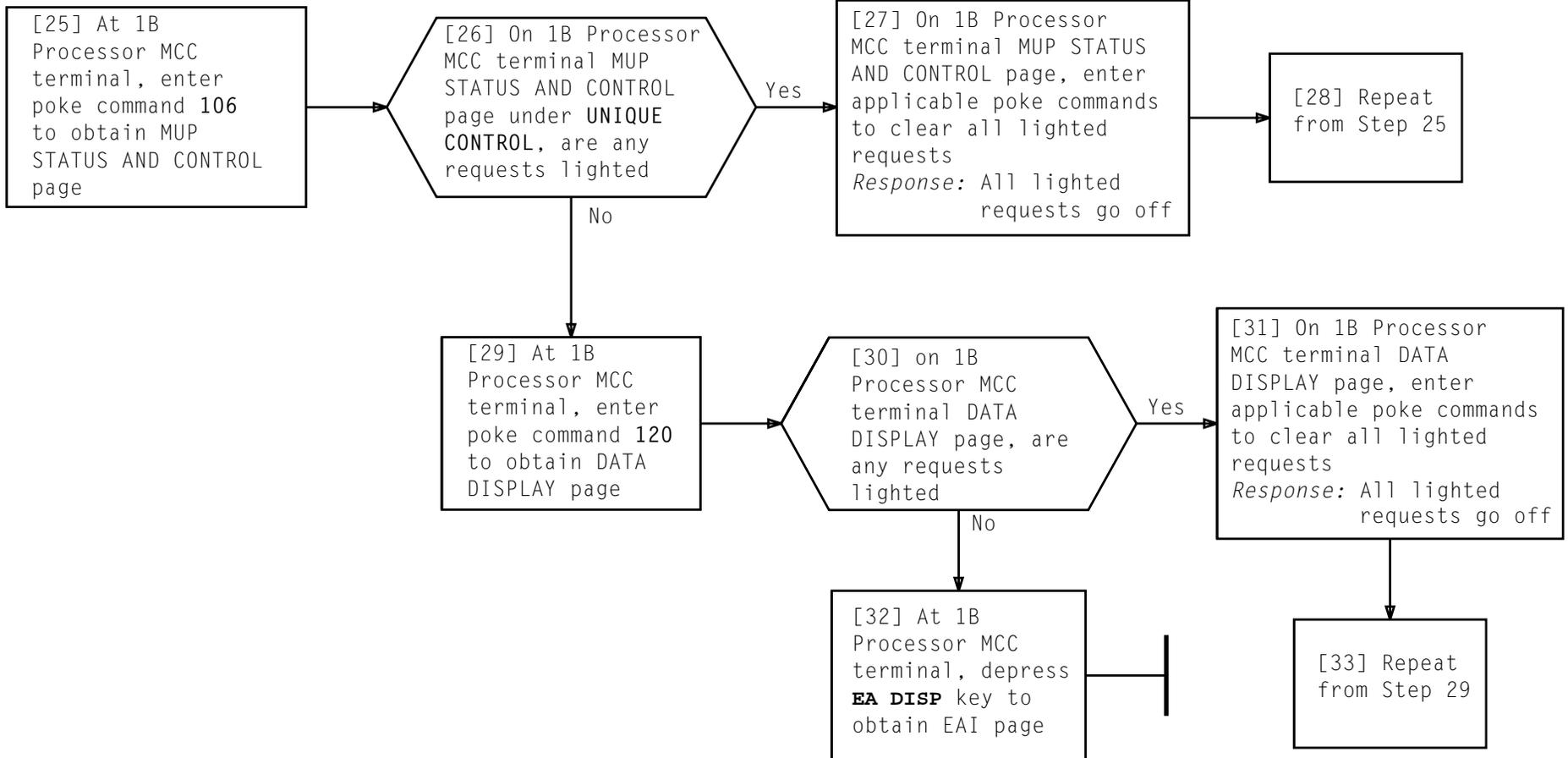
CLEAR ALL 1B PROCESSOR MCC TERMINAL FORCES AND/OR REQUESTS

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CLEAR ALL 1B PROCESSOR MCC TERMINAL FORCES AND/OR REQUESTS

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CLEAR ALL 1B PROCESSOR MCC TERMINAL FORCES AND/OR REQUESTS

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[1] At 1B Processor MCC terminal, depress
EA DISP key to obtain EAI page

[2] On 1B Processor MCC terminal EAI page, enter poke command 70
(DIS AUTO PC) to select function

Under PC SEQUENCER,
DISABLE AUTO PC text
lights BLACK on PURPLE

[3] On 1B Processor MCC terminal EAI page, enter
poke command 99 (CLEAR ALL REQUESTS)

[4] On 1B Processor MCC terminal EAI page, enter
poke commands to select valid processor
configuration [TABLE A]

[5] On 1B Processor MCC terminal EAI page,
enter poke command 49 (MIN)

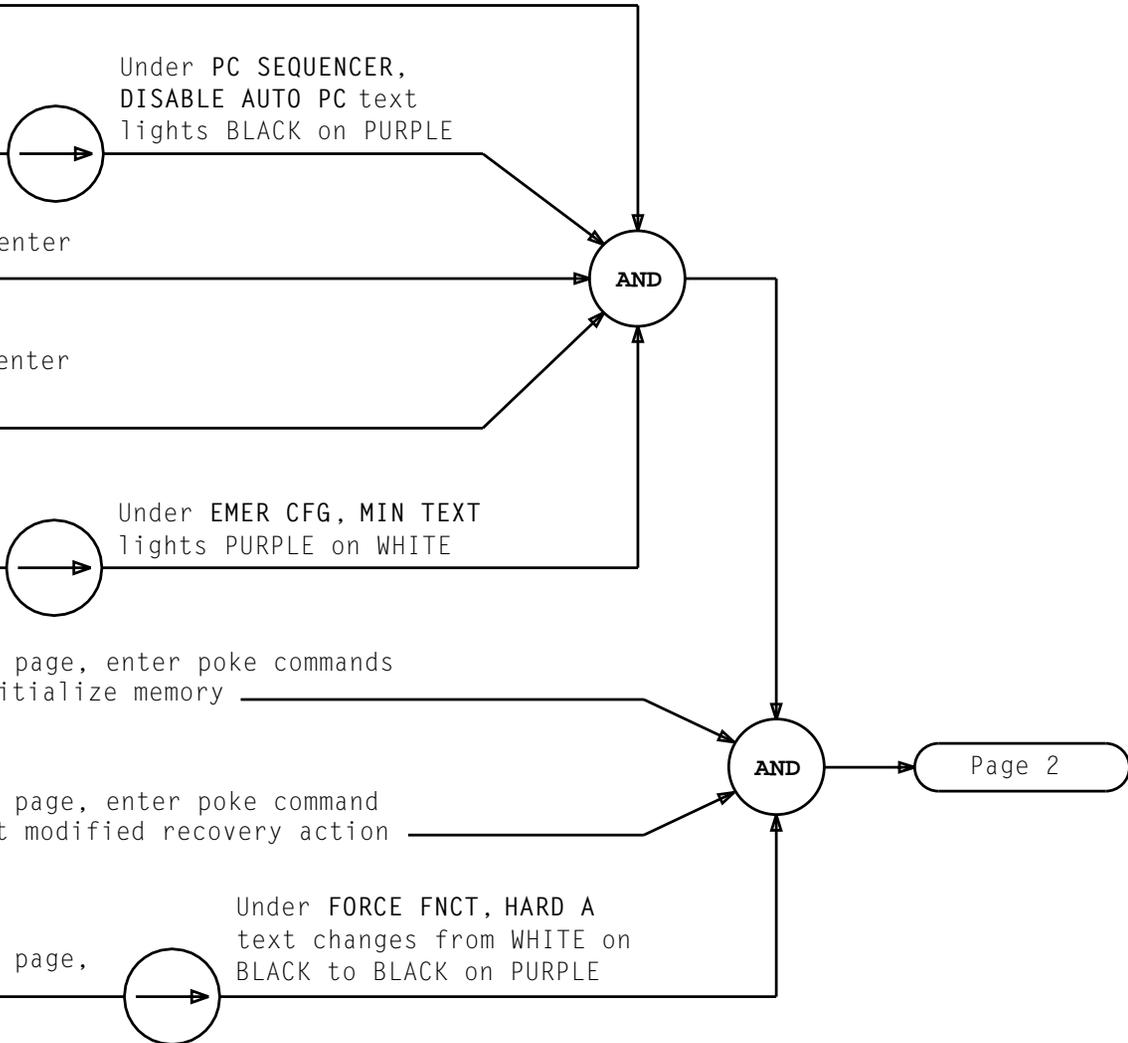
Under EMER CFG, MIN TEXT
lights PURPLE on WHITE

[6] On 1B Processor MCC terminal EAI page, enter poke commands
401, 16, 17 to set DDI keys to initialize memory

[7] On 1B Processor MCC terminal EAI page, enter poke command
84 (MODIFIED RECOVERY) to request modified recovery action

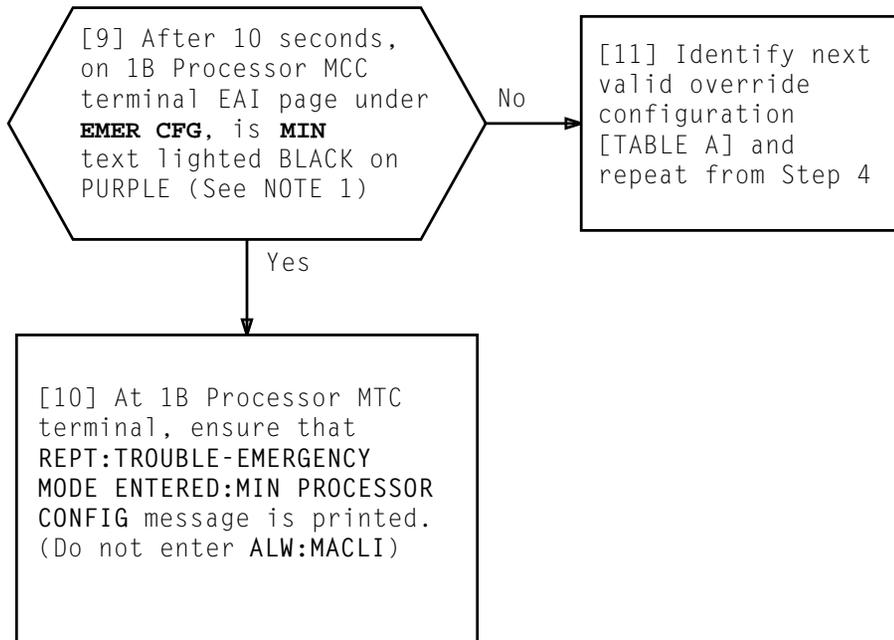
[8] On 1B Processor MCC terminal EAI page,
enter poke command 01 (HARD A)

Under FORCE FNCT, HARD A
text changes from WHITE on
BLACK to BLACK on PURPLE



ENTER 1B PROCESSOR EMERGENCY MODE (MIN CONFIGURATION) BY FORCING AN OVERRIDE CONFIGURATION

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

FIG. 1 - 86-CODE Field Layout

NOTE 1

In EAI DATA DISPLAY section, octal digits "aaa" and "bbbb" [FIG. 1] in 86-CODE field must begin incrementing within 10 seconds after entering poke command 702 (RUN CC) 1B Processor. "bbbb" indicates the 1B Processor is attempting to pump and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until PC

PROGRESSION - CMPL colors BLACK on GREEN and **SAM_01** fires (color WHITE on RED), approximately 2 minutes after entering poke command 702 (RUN CC). If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If 87 and 88 fields are not blank, this is a failure. If these fields are blank, the 1B Processor successfully pumped

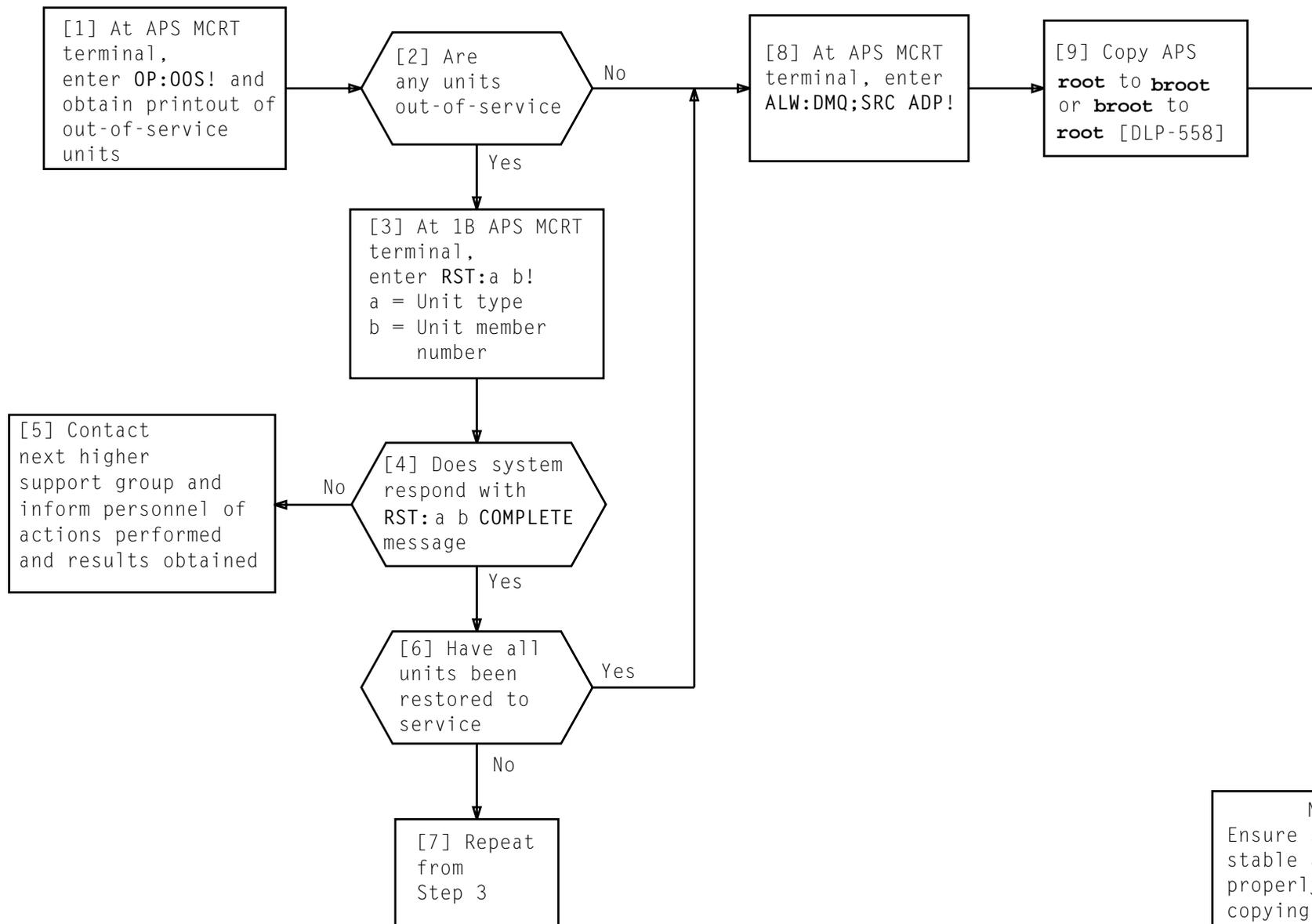
ENTER 1B PROCESSOR EMERGENCY MODE (MIN CONFIGURATION) BY FORCING AN OVERRIDE CONFIGURATION

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TABLE A
1B PROCESSOR MANUAL CONFIGURATIONS AND ASSOCIATED POKE COMMANDS

MANUAL SEQUENCE	OVERRIDE CONTROL SELECTIONS												
	PC STATE	CC0	CC1	PS0	PS1	PSB0	PSB1	CSB0	CSB1	IFB0	IFB1	AUB0	AUB1
1	40	10		20		22		30		40		42	
2	41		11		21		23		31		41		43
3	52		11	20			23	30			41	42	
4	53		11		21	22			31	40			43
5	66		11	20			23		31	40			43
6	50	10		20		22		30			41	42	
7	51	10			21		23		31	40			43
8	65	10			21	22		30			41	42	
9	67	10			21	22		30			41	42	
10	64		11	20		22			31	40			43
11	74		11	20		22			31		41		43
12	77		11		21	22		30		40		42	
13	76	10		20			23		31		41		43
14	75	10			21		23	30		40		42	
15	43	10			21	22			31		41		43
16	42		11	20			23	30		40		42	

**ENTER 1B PROCESSOR EMERGENCY MODE (MIN CONFIGURATION) BY
FORCING AN OVERRIDE CONFIGURATION**



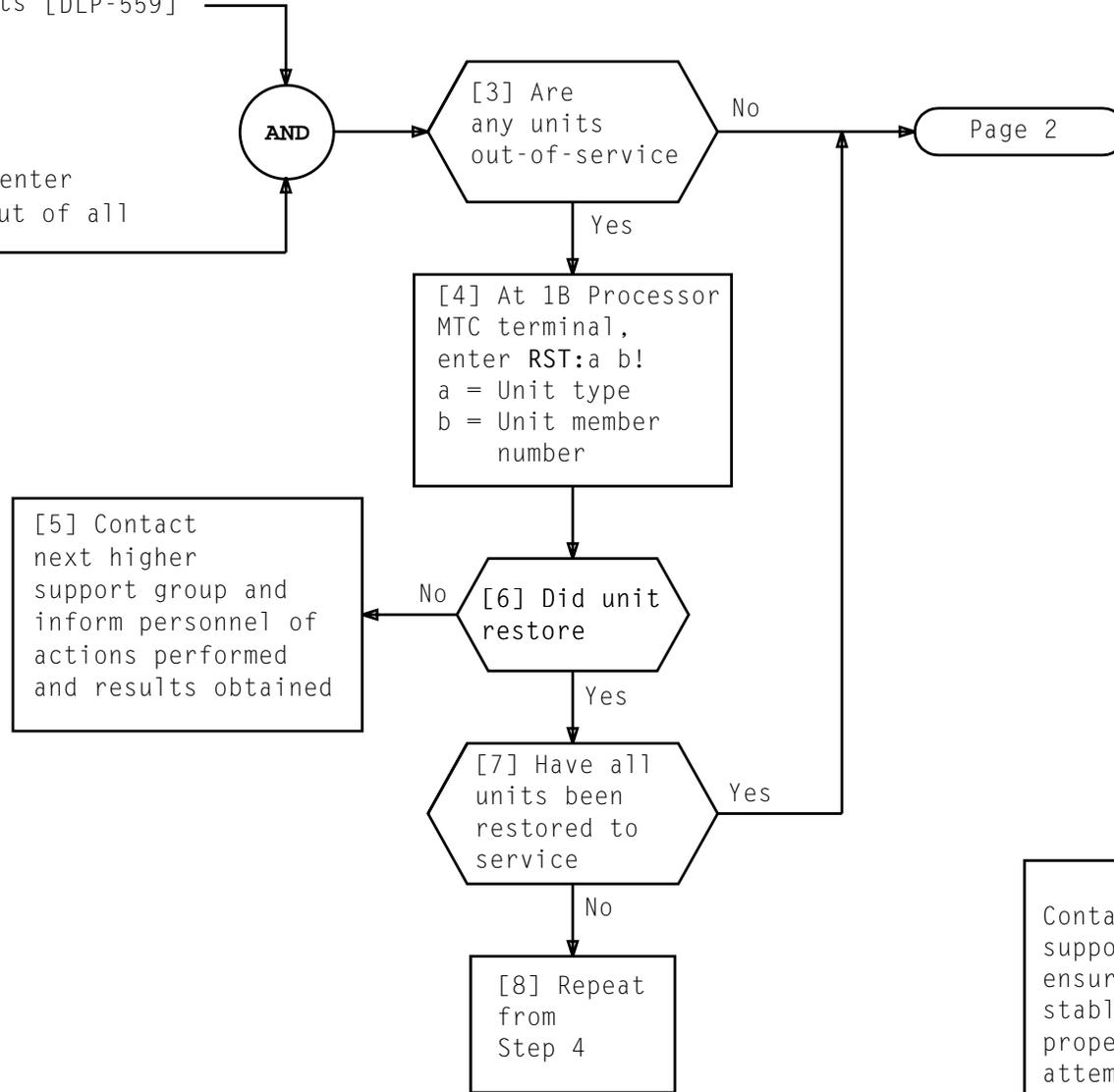
NOTE 1
Ensure system is stable and operating properly before copying APS file system

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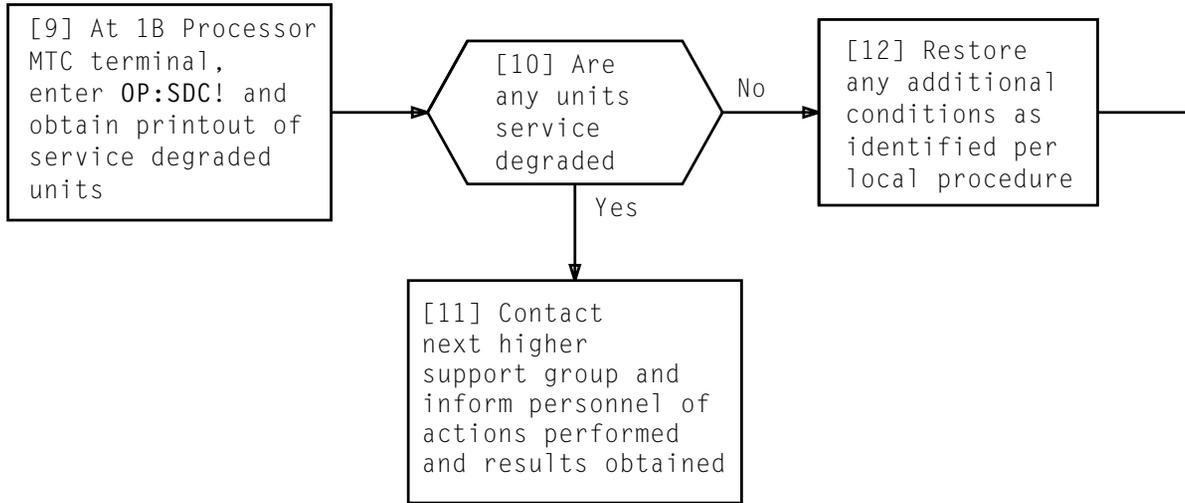
RESTORE ATTACHED PROCESSOR SYSTEM (APS) CONDITIONS FOLLOWING APS SYSTEM REINITIALIZATION (SR)

[1] See NOTE 1. At 1B Processor MCC terminal, clear all forces and/or requests [DLP-559]

[2] At 1B Processor MTC terminal, enter **OP:OOSUNITS!** and obtain printout of all out-of-service units

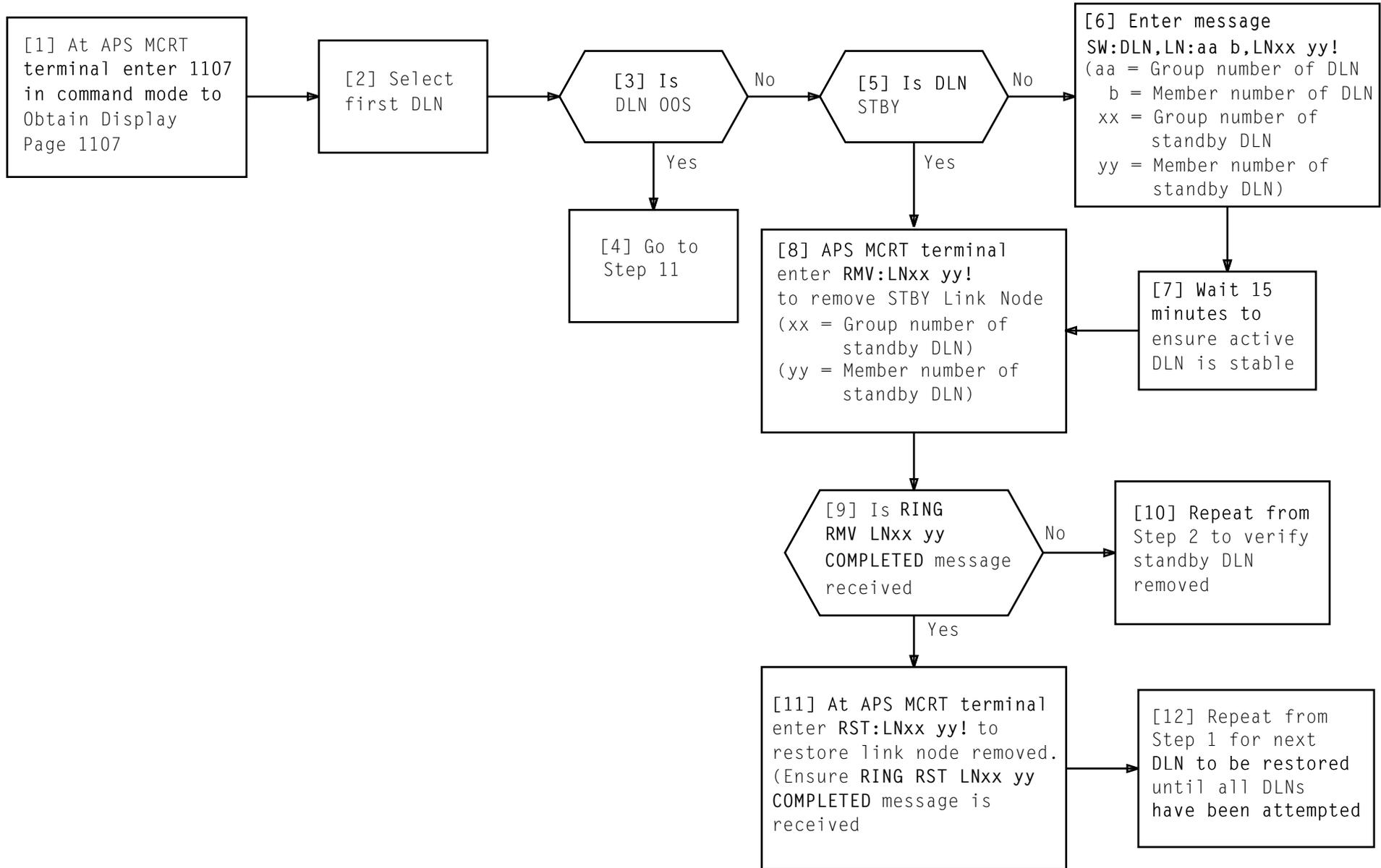


NOTE 1	
Contact technical support group and ensure system is stable and operating properly before attempting to restore conditions following system recovery	
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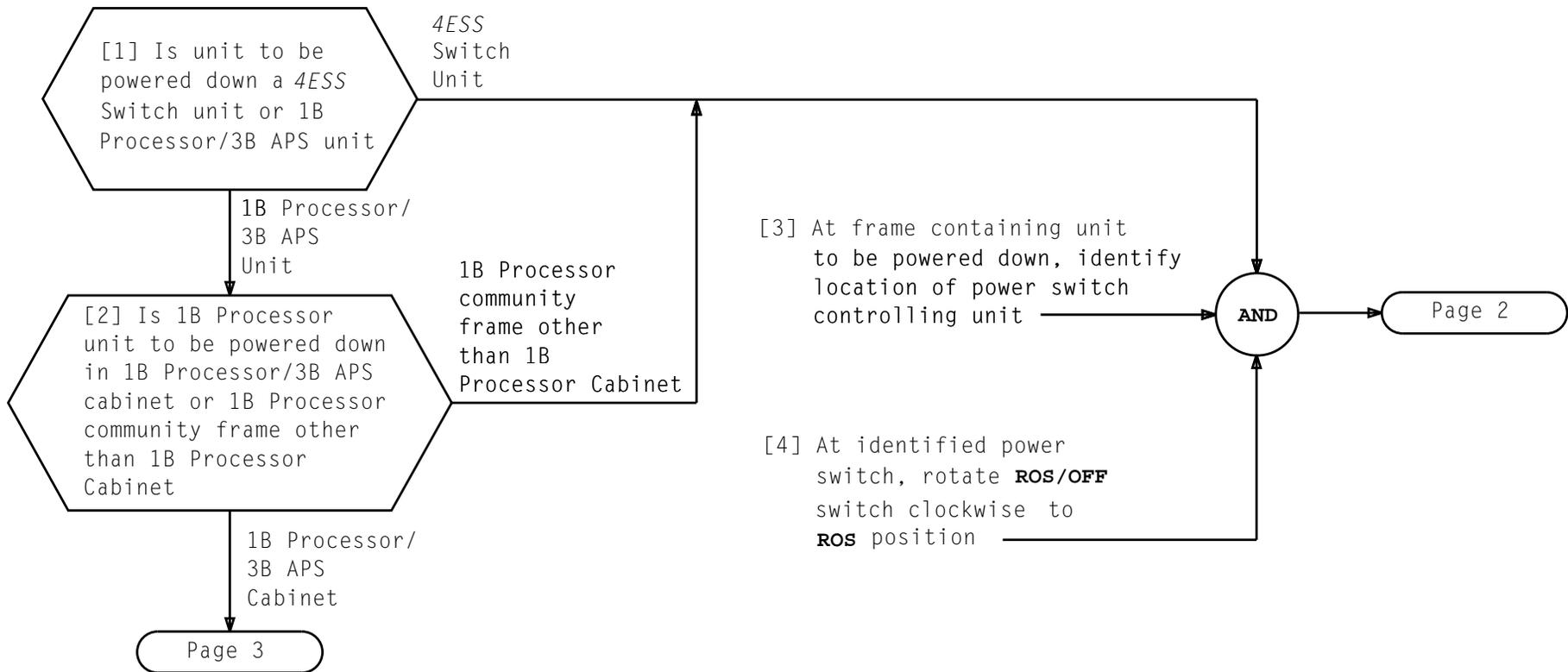


RESTORE CONDITIONS FOLLOWING SYSTEM RECOVERY

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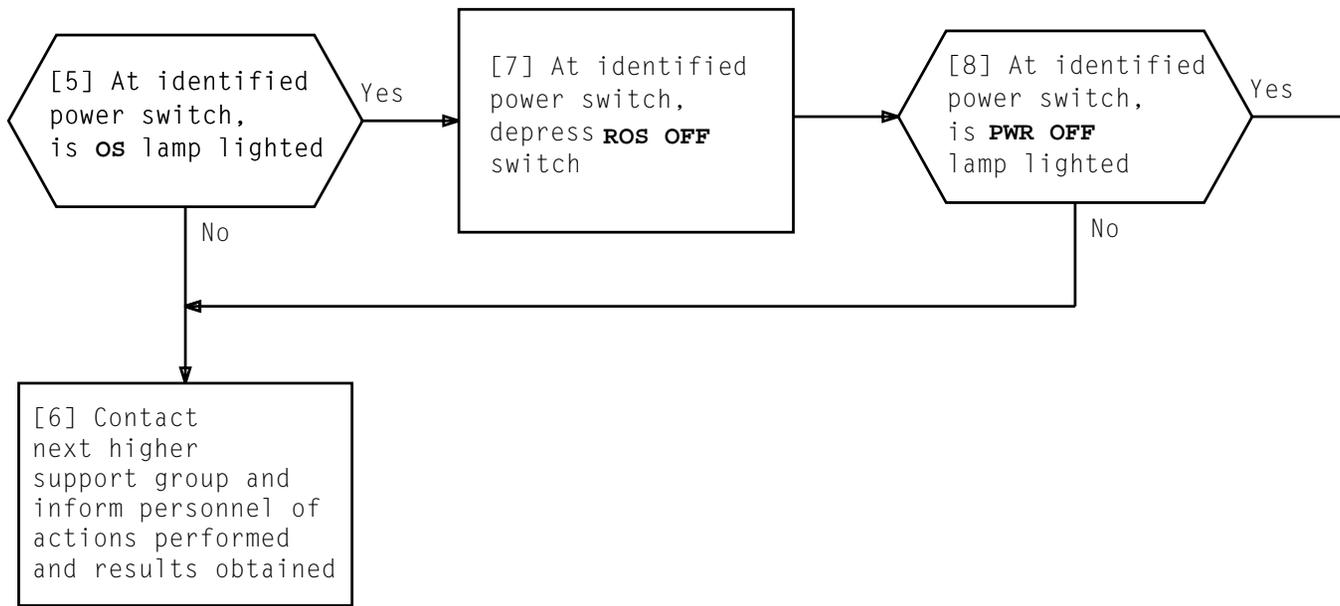


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POWER DOWN 4ESS SWITCH/1B PROCESSOR UNIT

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[9] Identify location of circuit pack containing power switch controlling unit to be powered down [TABLE A]

[10] At identified circuit pack containing power switch, move **ROS/NORM** switch right to **ROS** position

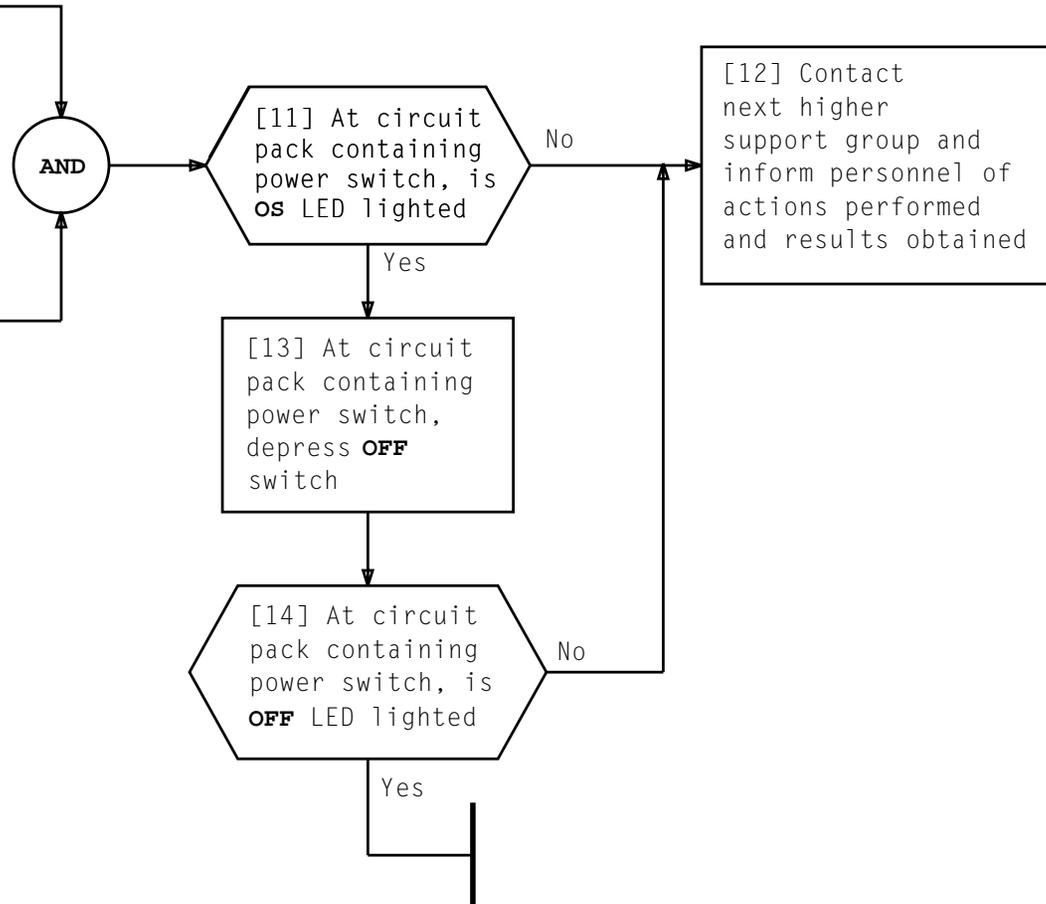
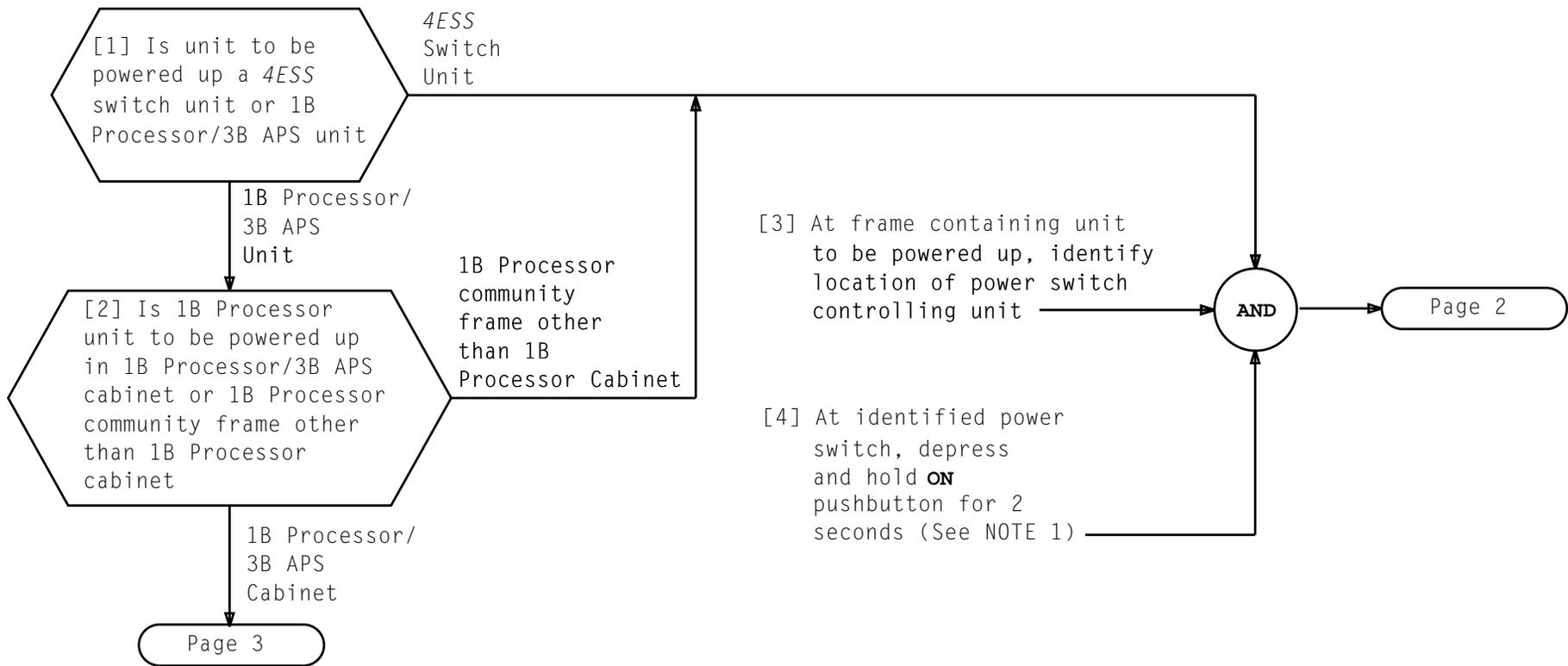


TABLE A					
POWER SWITCH IDENTIFIERS AND LOCATIONS					
UNIT TO BE POWERED DOWN	CIRCUIT PACK CONTAINING POWER SWITCH		UNIT TO BE POWERED DOWN	CIRCUIT PACK CONTAINING POWER SWITCH	
	IDENTIFIER	LOCATION		IDENTIFIER	LOCATION
1B PROCESSOR UNIT					
CC	KLW11	41-014	CS 14	KLW01	24-152
			CS 10	KLW01	24-160
AUI	KLW18	58-120	CS 6	KLW01	24-168
			CS 2	KLW01	24-176
MUP	KLW25	58-086	PS 0	KLW02	41-128
			PS 2	KLW02	41-136
CS 0	KLW01	24-006	PS 4	KLW02	41-144
CS 4	KLW01	24-014	PS 6	KLW02	41-152
CS 8	KLW01	24-022	PS 8	KLW02	41-160
CS 12	KLW01	24-030	PS 10	KLW02	41-168
CS 16	KLW01	24-038	PS 12	KLW02	41-176
CS 20	KLW01	24-046			
CS 24	KLW01	24-054	SSD	KLW15	58-168
CS 28	KLW01	24-062			
CS 32	KLW01	24-070	XPWR	KLW23	58-030
CS 36	KLW01	24-078			
CS 38	KLW01	24-104	CS		
CS 34	KLW01	24-112	BUS 0	KLW26	24-086
CS 30	KLW01	24-120	BUFFER		
CS 26	KLW01	24-128	CS		
CS 22	KLW01	24-136	BUS 1	KLW27	24-096
CS 18	KLW01	24-144	BUFFER		
3B21D PROCESSOR UNIT					
DFC 0	UN580B	58-178	DFC 1	UN580B	28-178

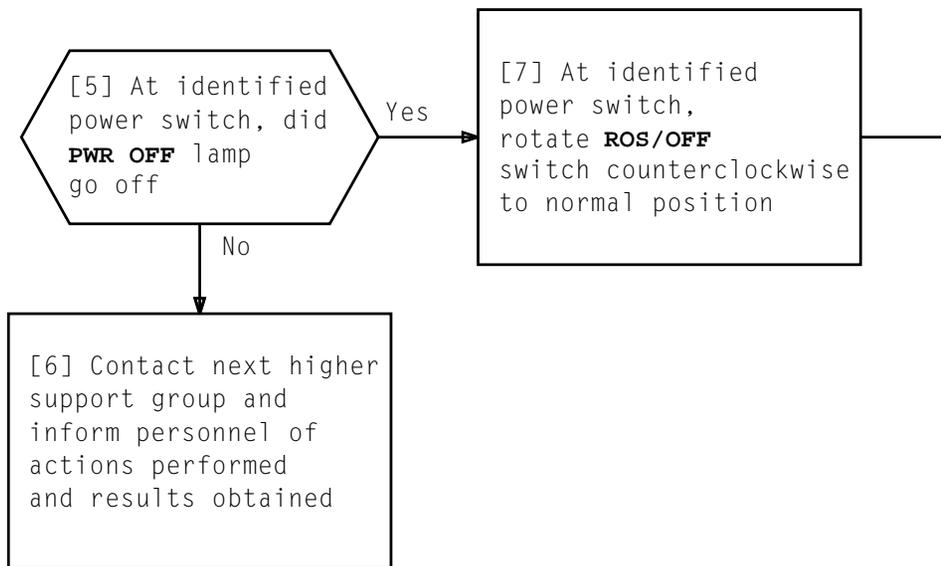
POWER DOWN 4ESS SWITCH/1B PROCESSOR UNIT

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NOTE 1
 Some units have interlocks that may prevent pressing a unit to power it up. There may also be cases when a "known" unit is left in a powered down state

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[8] Identify location of circuit pack containing power switch controlling unit to be powered up [TABLE A]

[9] At identified circuit pack containing power switch, depress **ON** switch

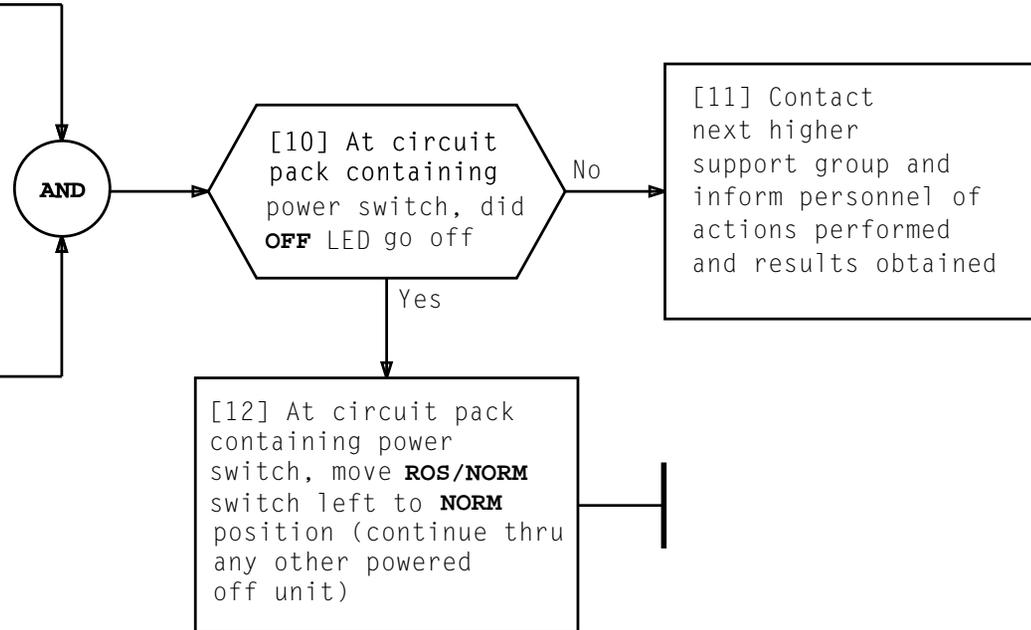
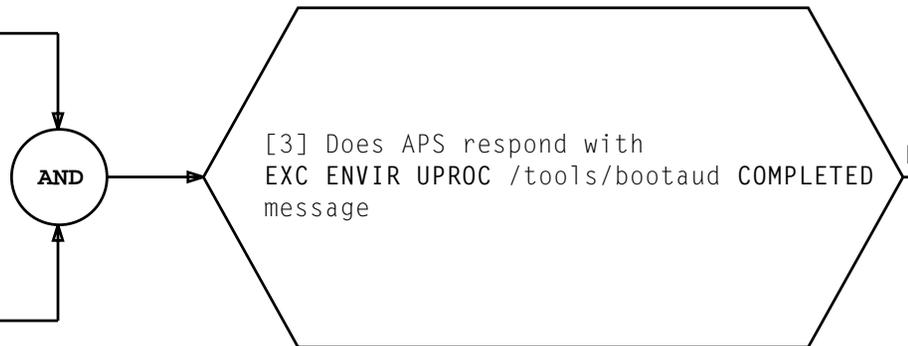


TABLE A POWER SWITCH IDENTIFIERS AND LOCATIONS					
UNIT TO BE POWERED DOWN	CIRCUIT PACK CONTAINING POWER SWITCH		UNIT TO BE POWERED DOWN	CIRCUIT PACK CONTAINING POWER SWITCH	
	IDENTIFIER	LOCATION		IDENTIFIER	LOCATION
1B PROCESSOR UNIT					
CC	KLW11	41-014	CS 14	KLW01	24-152
			CS 10	KLW01	24-160
AUI	KLW18	58-120	CS 6	KLW01	24-168
			CS 2	KLW01	24-176
MUP	KLW25	58-086	PS 0	KLW02	41-128
			PS 2	KLW02	41-136
CS 0	KLW01	24-006	PS 4	KLW02	41-144
CS 4	KLW01	24-014	PS 6	KLW02	41-152
CS 8	KLW01	24-022	PS 8	KLW02	41-160
CS 12	KLW01	24-030	PS 10	KLW02	41-168
CS 16	KLW01	24-038	PS 12	KLW02	41-176
CS 20	KLW01	24-046	SSD	KLW15	58-168
CS 24	KLW01	24-054			
CS 28	KLW01	24-062	XPWR	KLW23	58-030
CS 32	KLW01	24-070			
CS 36	KLW01	24-078	CS BUS 0 BUFFER	KLW26	24-086
CS 38	KLW01	24-104			
CS 34	KLW01	24-112			
CS 30	KLW01	24-120	CS BUS 1 BUFFER	KLW27	24-096
CS 26	KLW01	24-128			
CS 22	KLW01	24-136			
CS 18	KLW01	24-144			
3B21D PROCESSOR UNIT					
DFC 0	UN580B	58-178	DFC 1	UN580B	28-178

[1] At APS MCRT terminal, enter
 EXC:ENVIR:UPROC, FN "/tools/bootaud", ARGS ("sa", "xxx")!
 in message mode to
 switch FULL CONFIG boot image
 with one saved after last retrofit
 xxx = SID parameter supplied by
 support group

[2] Allow sufficient time
 (15 seconds) for boot
 image to switch



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

[5] At APS MCRT terminal, depress **EA DISP** key to obtain EAI page

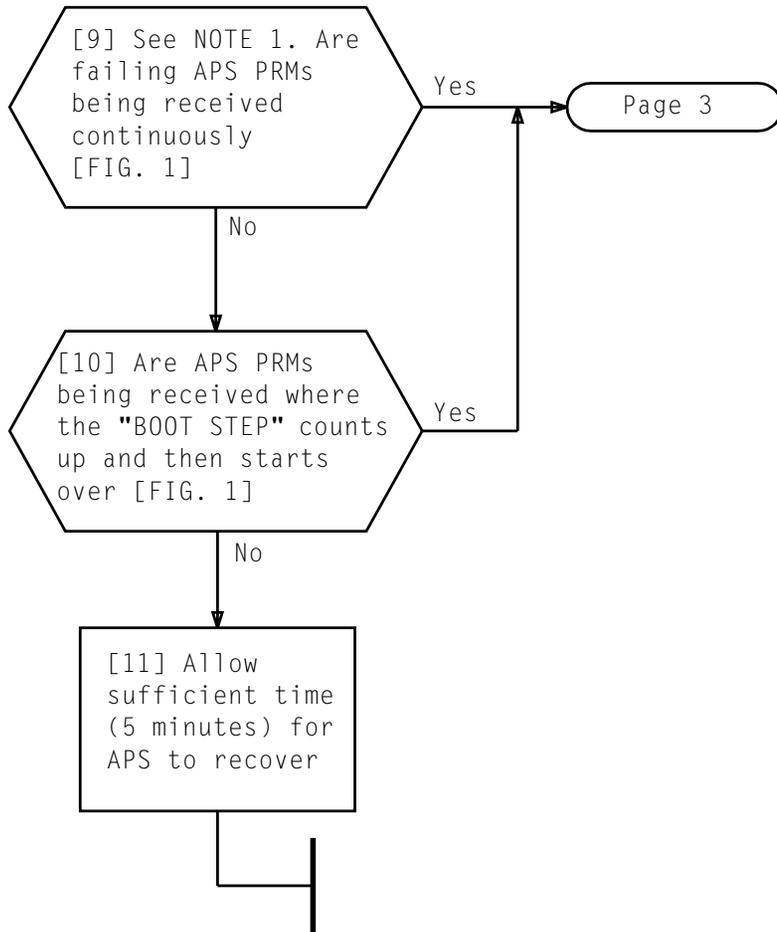
[6] On APS MCRT terminal EAI page, enter poke command 33 in command mode to select full configuration

[7] On APS MCRT terminal EAI page, enter poke command 54 in command mode to request phase 4 boot

[8] If 3B21D, enter **Y** to confirm

PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY — MINIMUM CONFIGURATION

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PRM SUCCESSFUL (E) OR FAILING (F) INDICATOR
 BOOT STEP IDENTIFIER
 PRM_X YZAA AAAA AAAA AAAA

FIG. 1 – Sample Layout of Attached Processor System (APS) Processor Recovery Message (PRM)

NOTE 1	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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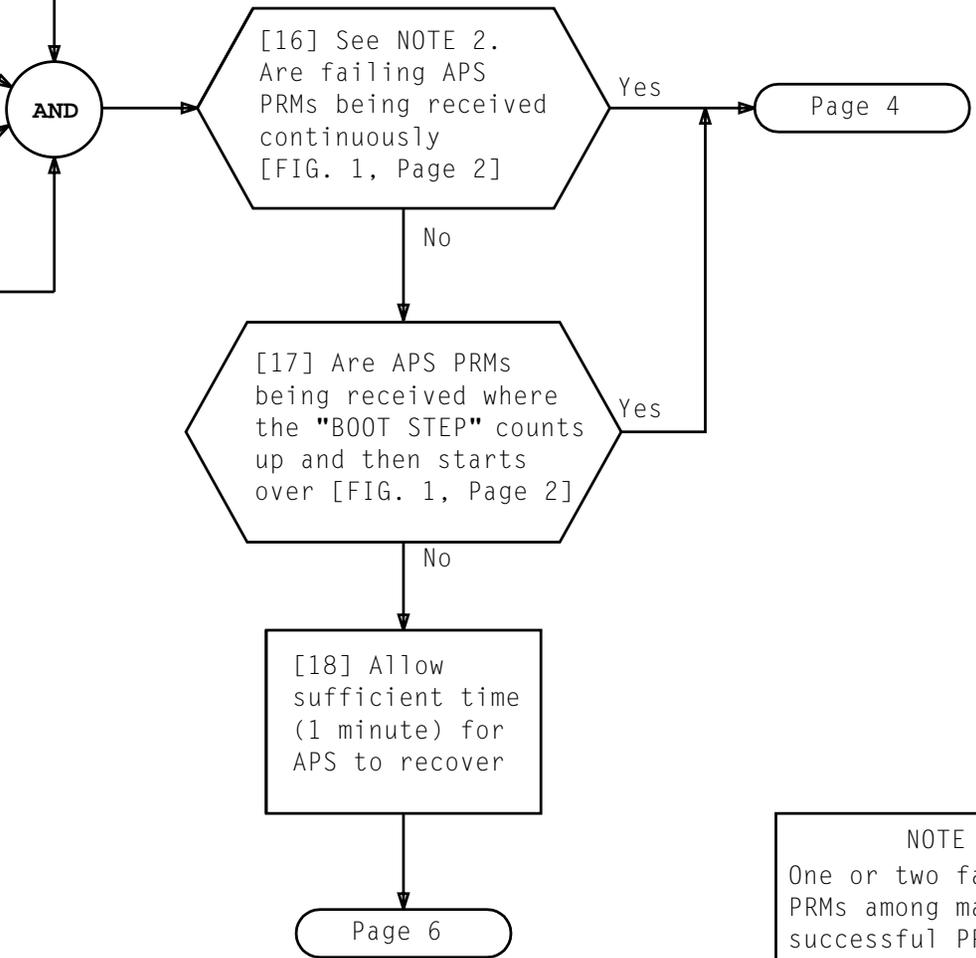
PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY – MINIMUM CONFIGURATION

[12] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[13] On APS MCRT terminal EAI page, enter
poke command 32 in command mode to
select minimum configuration

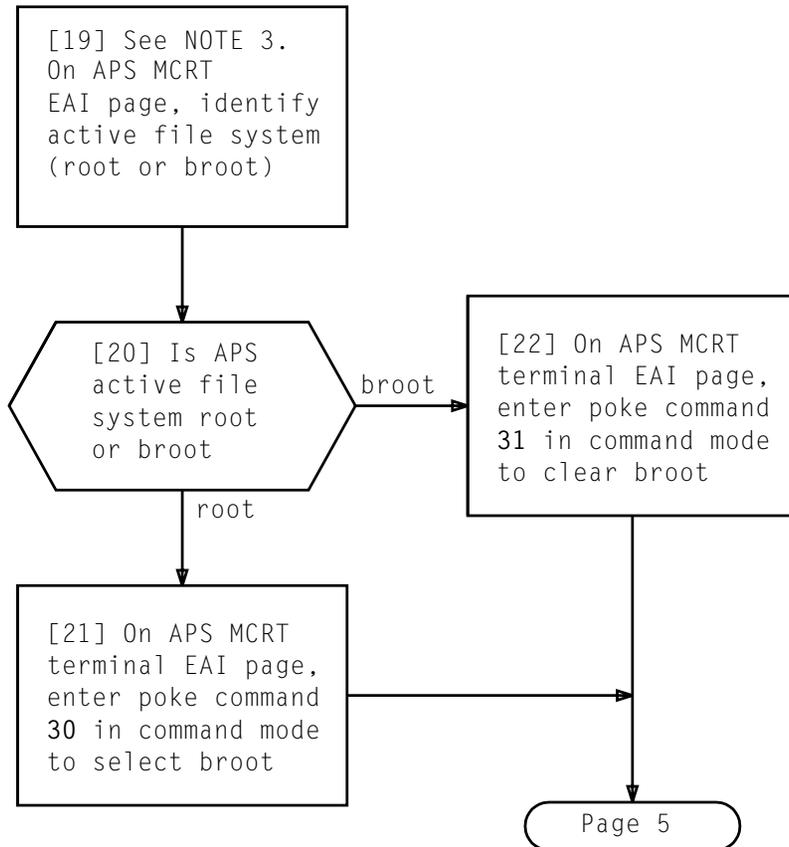
[14] On APS MCRT terminal EAI page,
enter poke command 54 in command
mode to request phase 4 boot

[15] If 3B21D, enter **Y** to confirm

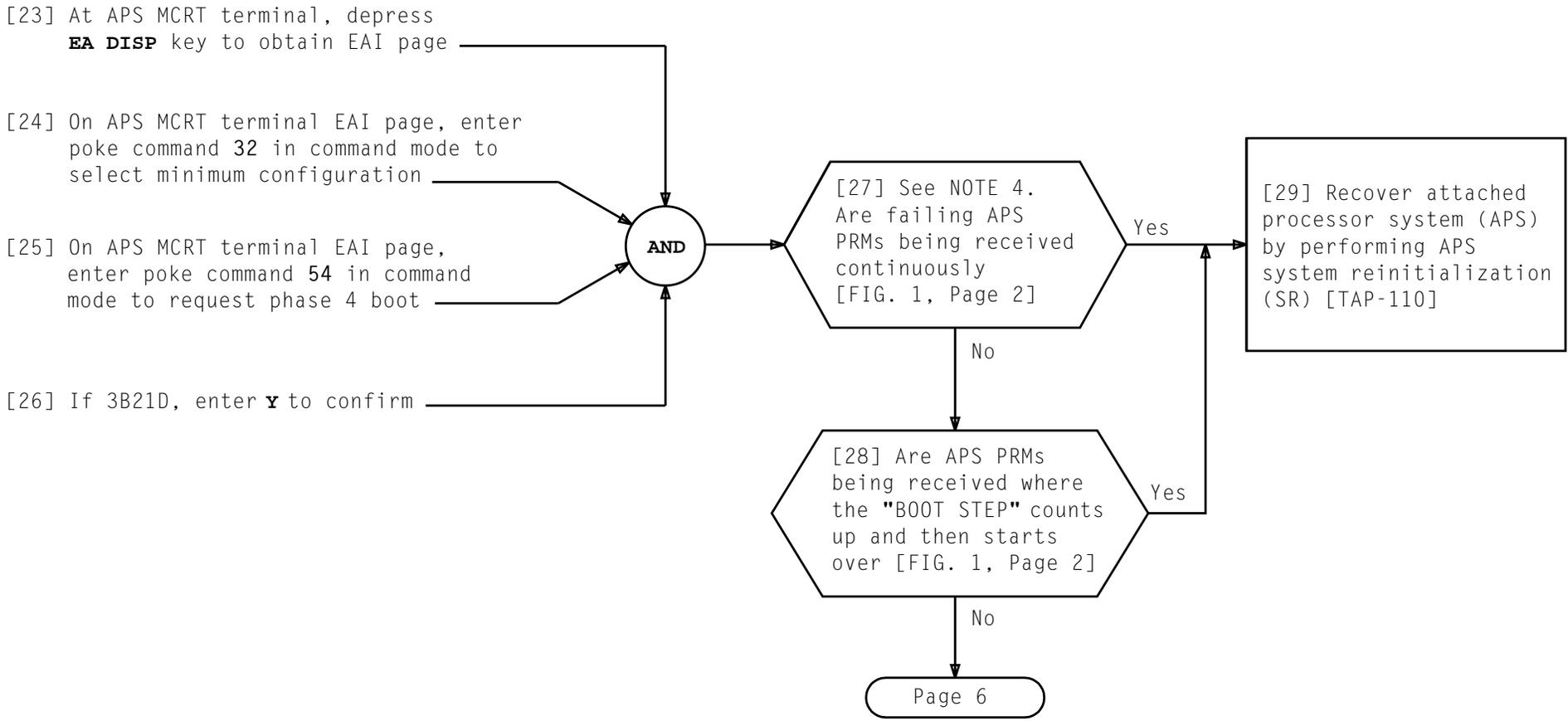


NOTE 2	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY – MINIMUM CONFIGURATION



NOTE 3	
The active file system is determined if SET is lighted on the Backup Root line, then the active file system is broot. If not the file system is "root"	
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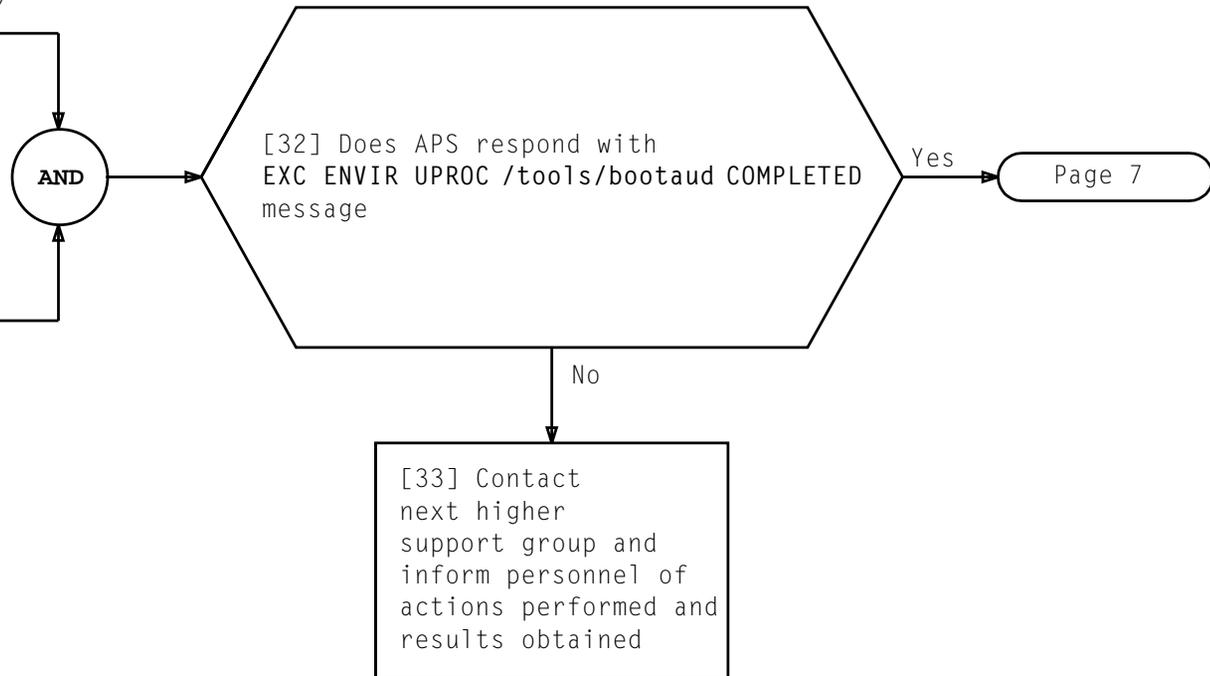


PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY — MINIMUM CONFIGURATION

NOTE 4	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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[30] At APS MCRT terminal, enter
 EXC:ENVIR:UPROC, FN "/tools/bootaud", ARGV ("se2", "xxx")!
 in message mode to
 switch FULL CONFIG ECD with one
 saved most recently
 xxx = SID parameter supplied by
 support group

[31] Allow sufficient time
 (5 minutes) for data
 to switch

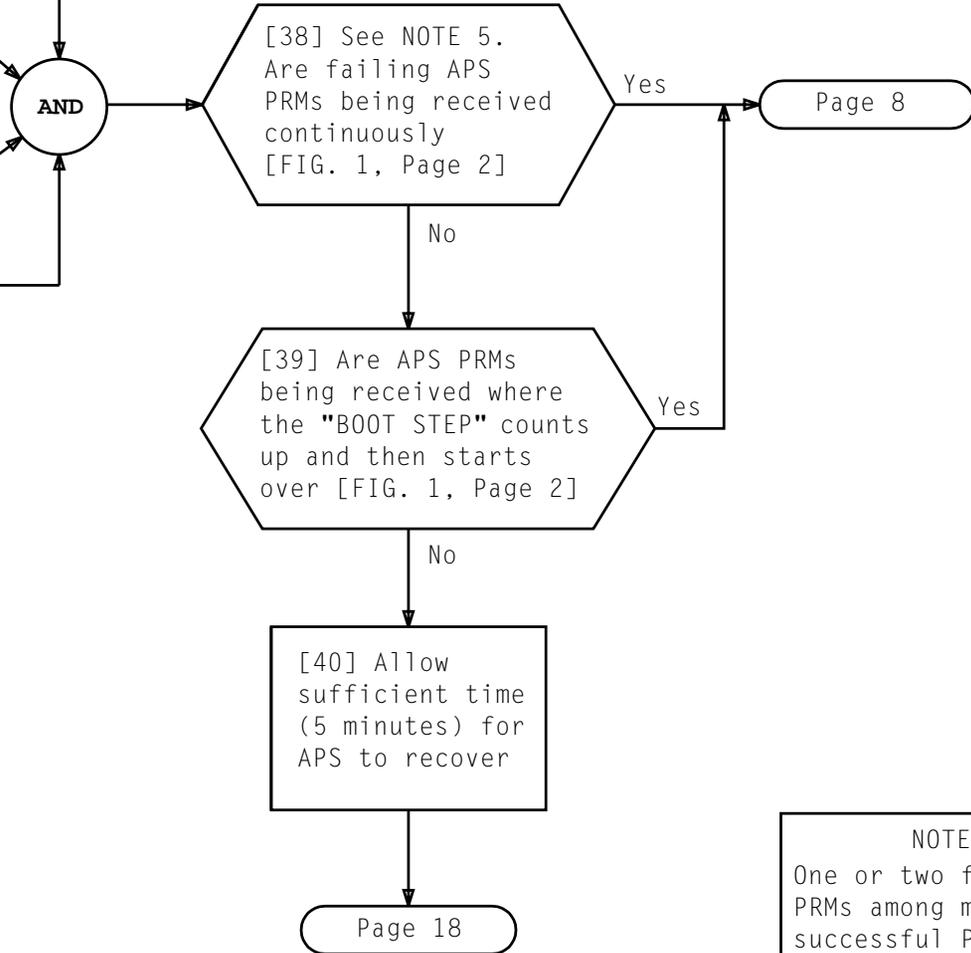


[34] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[35] On APS MCRT terminal EAI page,
enter poke command **33** in command
mode to select full configuration

[36] On APS MCRT terminal EAI page,
enter poke command **54** in command
mode to request phase 4 boot

[37] If 3B21D, enter **Y** to confirm



NOTE 5	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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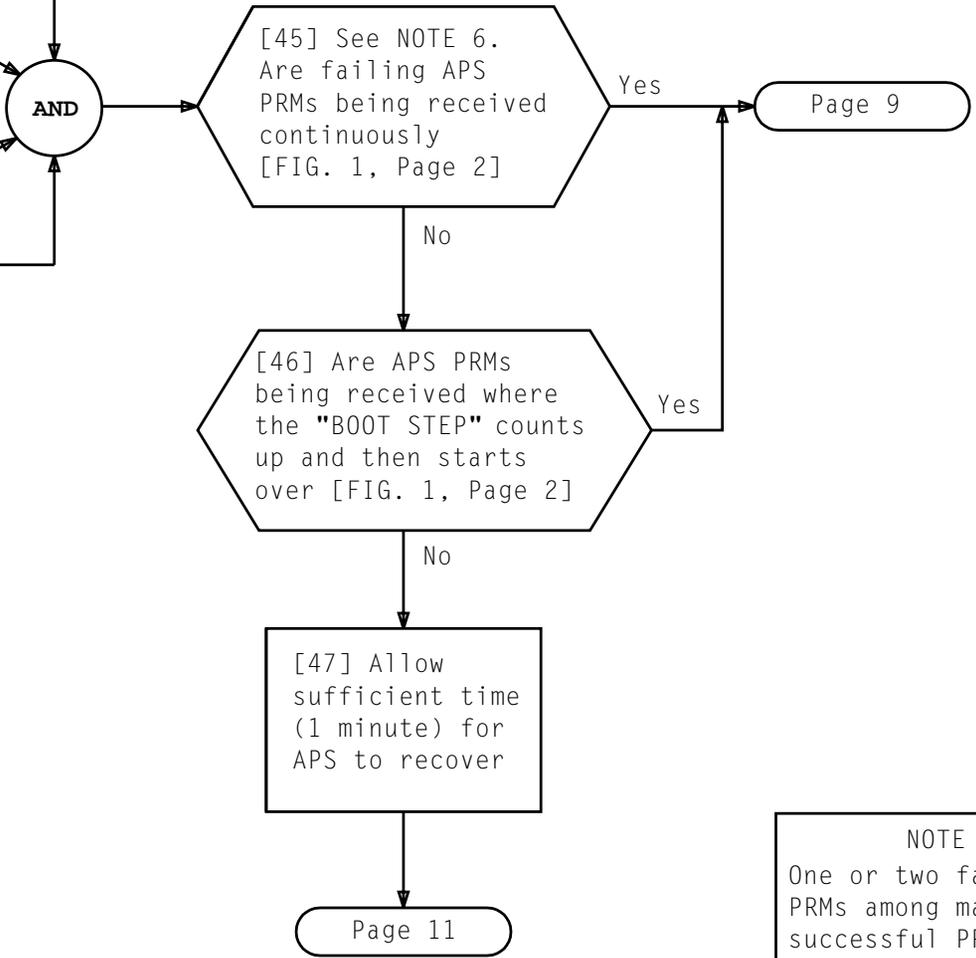
PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY — MINIMUM CONFIGURATION

[41] At APS MCRT terminal, depress **EA DISP** key to obtain EAI page

[42] On APS MCRT terminal EAI page, enter poke command 32 in command mode to select minimum configuration

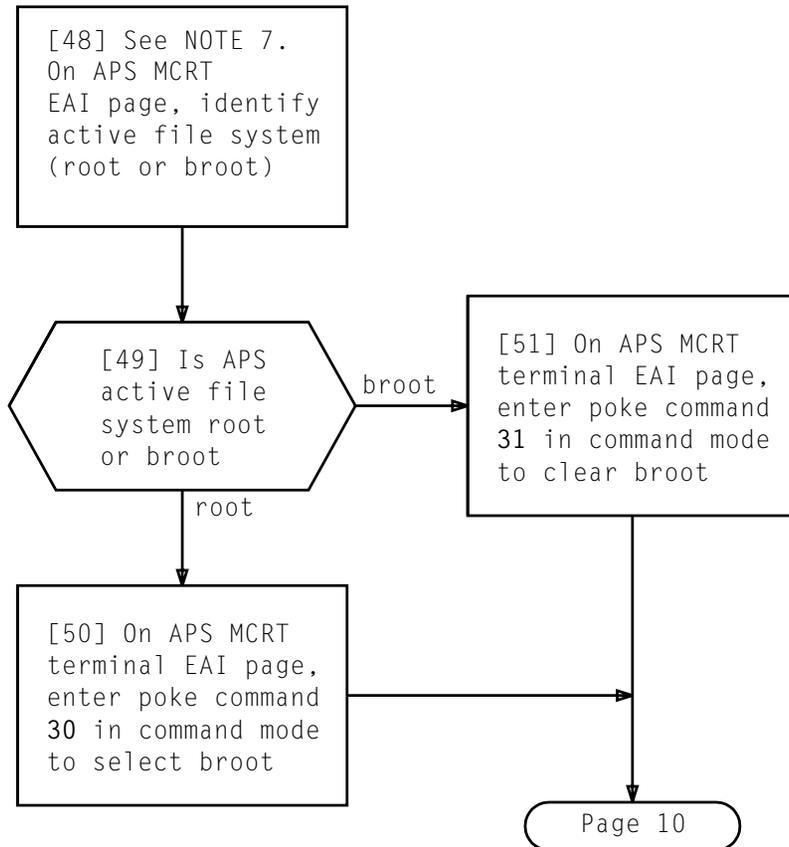
[43] On APS MCRT terminal EAI page, enter poke command 54 in command mode to request phase 4 boot

[44] If 3B21D, enter **Y** to confirm



NOTE 6	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY – MINIMUM CONFIGURATION



NOTE 7	
The active file system is determined if SET is lighted on the Backup Root line, then the active file system is broot. If not the file system is "root"	
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[52] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[53] On APS MCRT terminal EAI page, enter
poke command **32** in command mode to
select minimum configuration

[54] On APS MCRT terminal EAI page,
enter poke command **54** in command
mode to request phase 4 boot

[55] If 3B21D, enter **Y** to confirm

AND

[56] See NOTE 8.
Are failing APS
PRMs being received
continuously
[FIG. 1, Page 2]

Yes

No

[57] Are APS PRMs
being received where
the "BOOT STEP" counts
up and then starts
over [FIG. 1, Page 2]

Yes

No

Page 11

[58] Recover attached
processor system (APS)
by performing APS
system reinitialization
(SR) [TAP-110]

NOTE 8

One or two failing
PRMs among many
successful PRMs does
not indicate system
sanity is in jeopardy

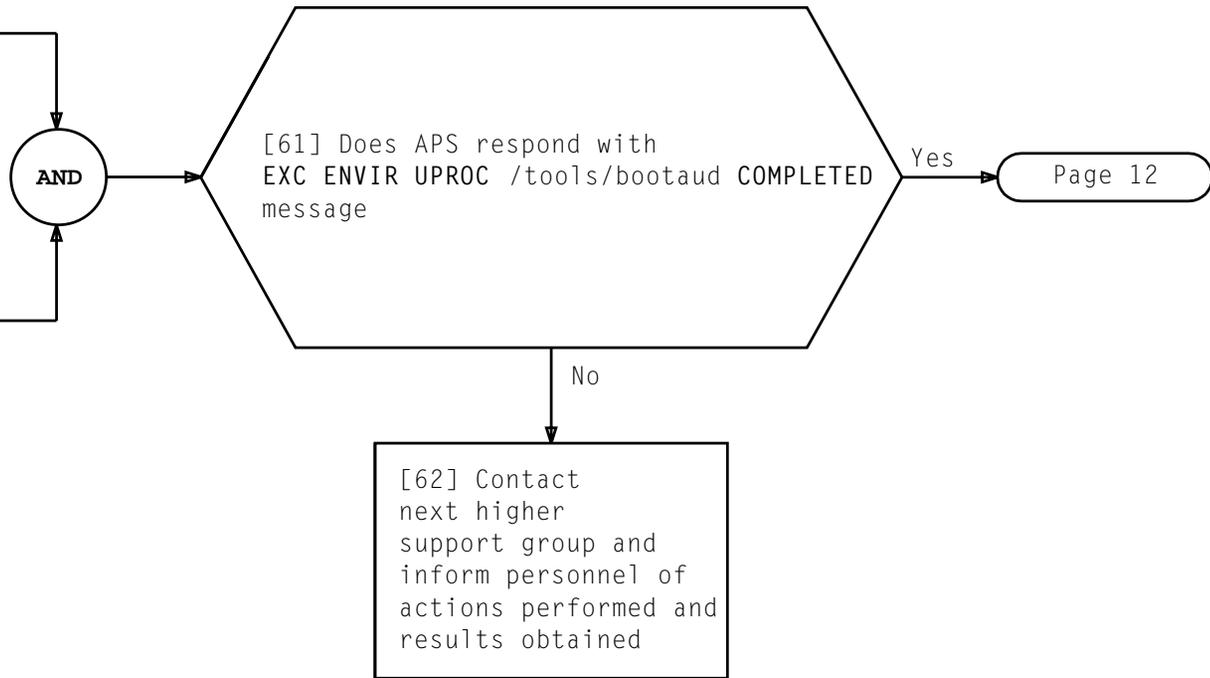
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[59] At APS MCRT terminal, enter
 EXC:ENVIR:UPROC, FN "/tools/bootaud", ARGS ("se1","xxx")!
 in message mode to
 switch FULL CONFIG ECD with one
 saved most recently
 xxx = SID parameter supplied by
 support group

[60] Allow sufficient time
 (5 minutes) for data
 to switch



[63] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[64] On APS MCRT terminal EAI page,
enter poke command **33** in command
mode to select full configuration

[65] On APS MCRT terminal EAI page,
enter poke command **54** in command
mode to request phase 4 boot

[66] If 3B21D, enter **Y** to confirm

AND

[67] See NOTE 9.
Are failing APS
PRMs being received
continuously
[FIG. 1, Page 2]

Yes

Page 13

No

[68] Are APS PRMs
being received where
the "BOOT STEP" counts
up and then starts
over [FIG. 1, Page 2]

Yes

No

[69] Allow
sufficient time
(5 minutes) for
APS to recover

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NOTE 9

One or two failing
PRMs among many
successful PRMs does
not indicate system
sanity is in jeopardy

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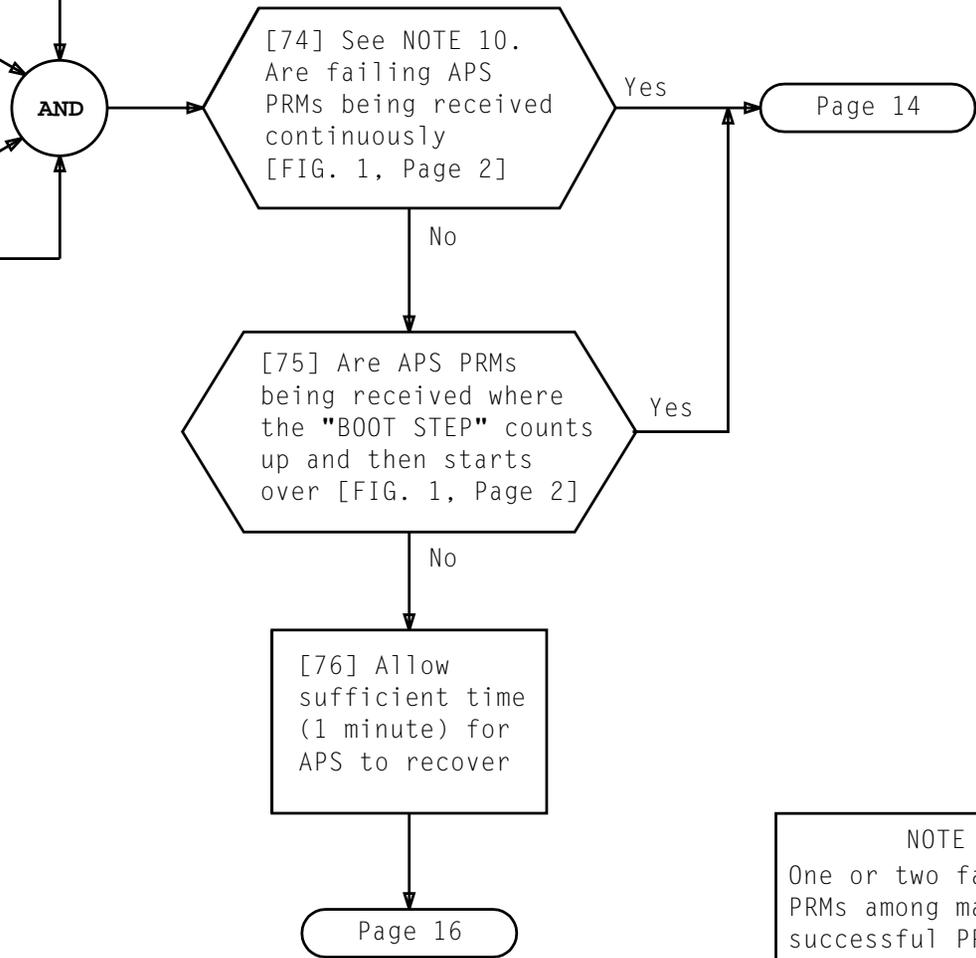
PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY — MINIMUM CONFIGURATION

[70] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[71] On APS MCRT terminal EAI page, enter
poke command **32** in command mode to
select minimum configuration

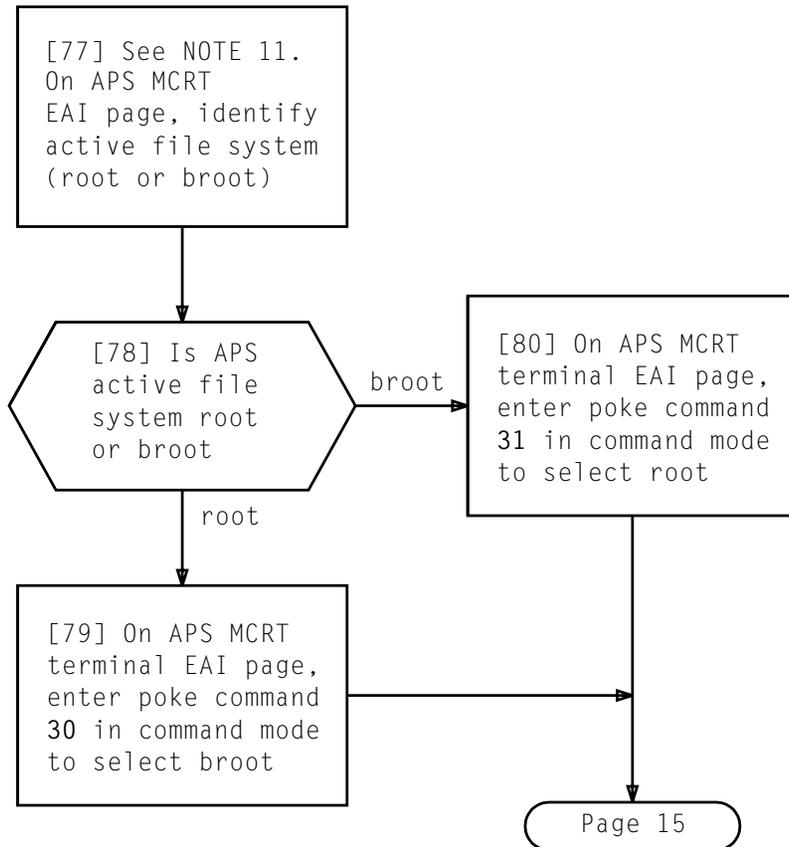
[72] On APS MCRT terminal EAI page,
enter poke command **54** in command
mode to request phase 4 boot

[73] If 3B21D, enter **Y** to confirm



NOTE 10	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY – MINIMUM CONFIGURATION



NOTE 11	
The active file system is determined if SET is lighted on the Backup Root line, then the active file system is broot. If not the file system is "root"	
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[81] At APS MCRT terminal, depress
EA DISP key to obtain EAI page

[82] On APS MCRT terminal EAI page, enter
poke command **32** in command mode to
select minimum configuration

[83] On APS MCRT terminal EAI page,
enter poke command **54** in command
mode to request phase 4 boot

[84] If 3B21D, enter **Y** to confirm

AND

[85] See NOTE 12.
Are failing APS
PRMs being received
continuously
[FIG. 1, Page 2]

Yes

[87] Recover attached
processor system (APS)
by performing APS
system reinitialization
(SR) [TAP-110]

No

[86] Are APS PRMs
being received where
the "BOOT STEP" counts
up and then starts
over [FIG. 1, Page 2]

Yes

No

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NOTE 12

One or two failing
PRMs among many
successful PRMs does
not indicate system
sanity is in jeopardy

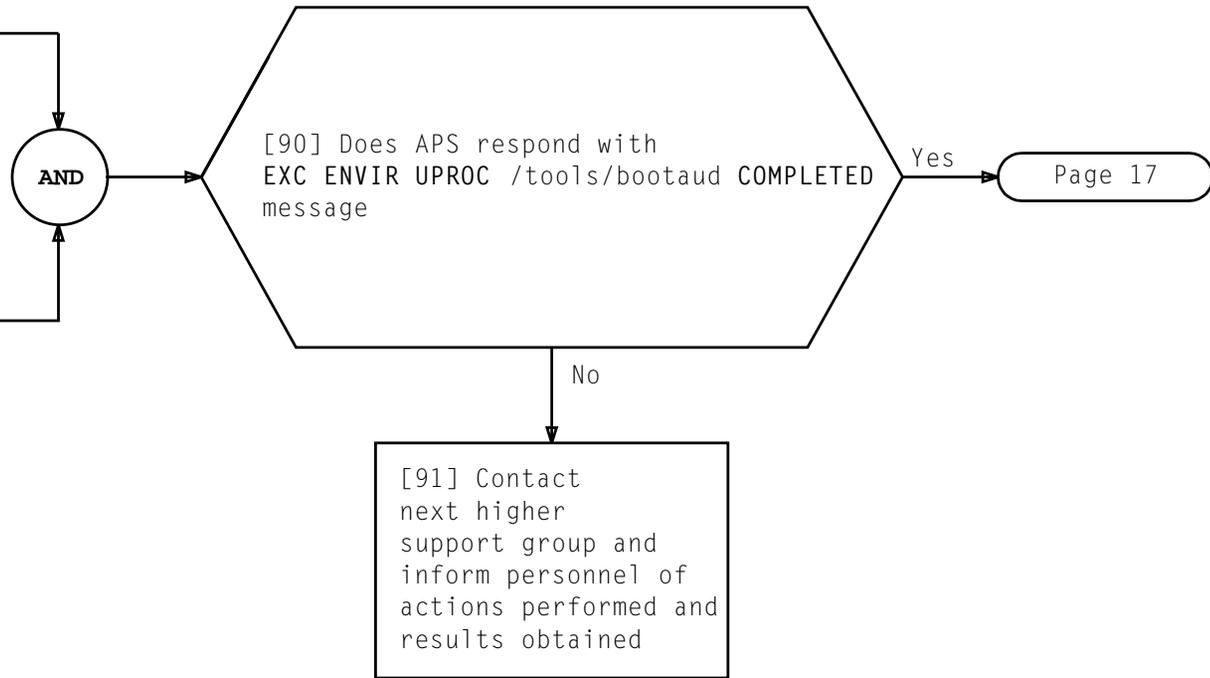
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[88] At APS MCRT terminal, enter
 EXC:ENVIR:UPROC, FN "/tools/bootaud", ARGS ("se0","xxx")!
 in message mode to
 switch FULL CONFIG ECD with one
 saved most recently
 xxx = SID parameter supplied by
 support group

[89] Allow sufficient time
 (5 minutes) for data
 to switch

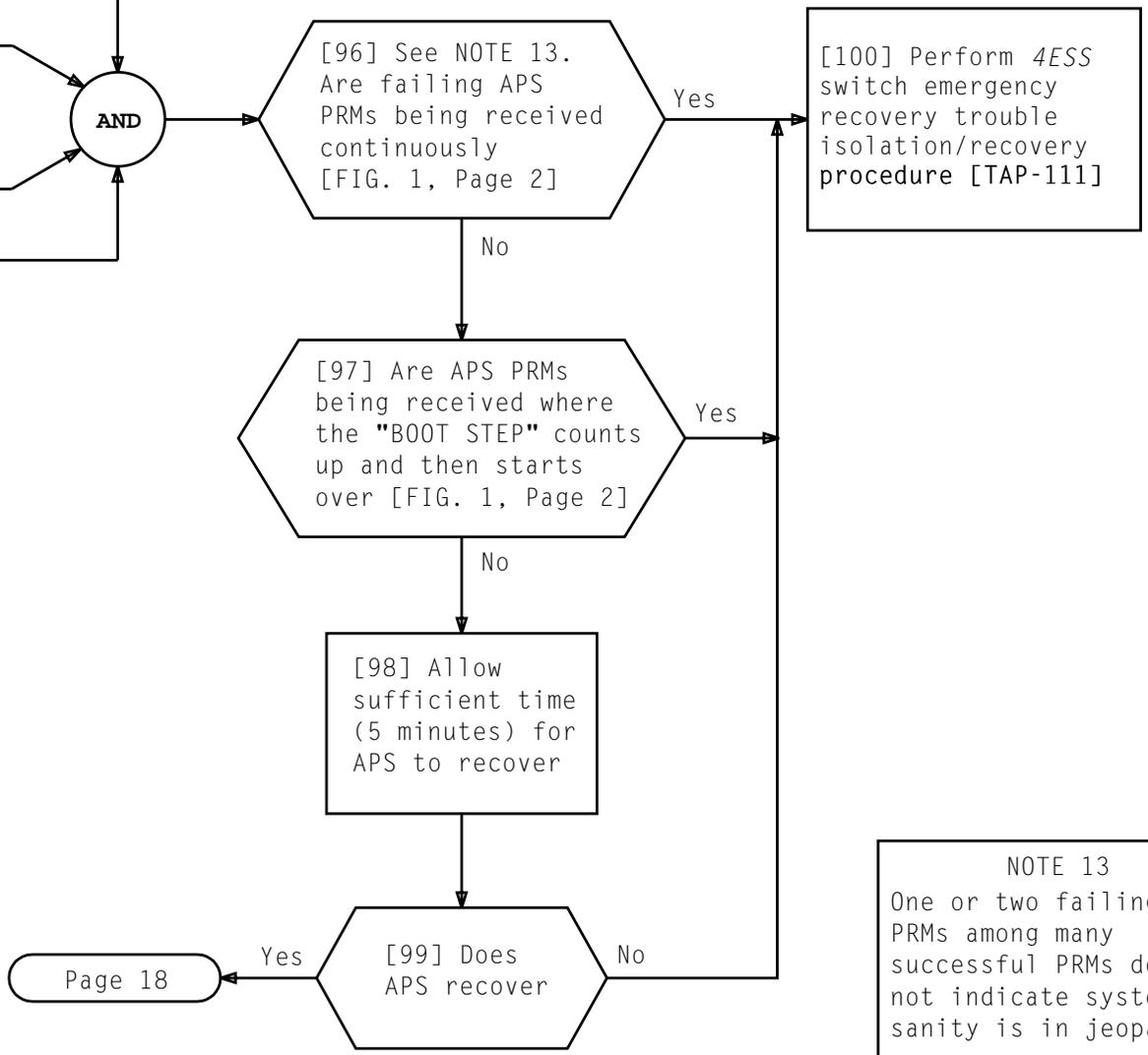


[92] At APS MCRT terminal, depress **EA DISP** key to obtain EAI page

[93] On APS MCRT terminal EAI page, enter poke command **32** in command mode to select full configuration

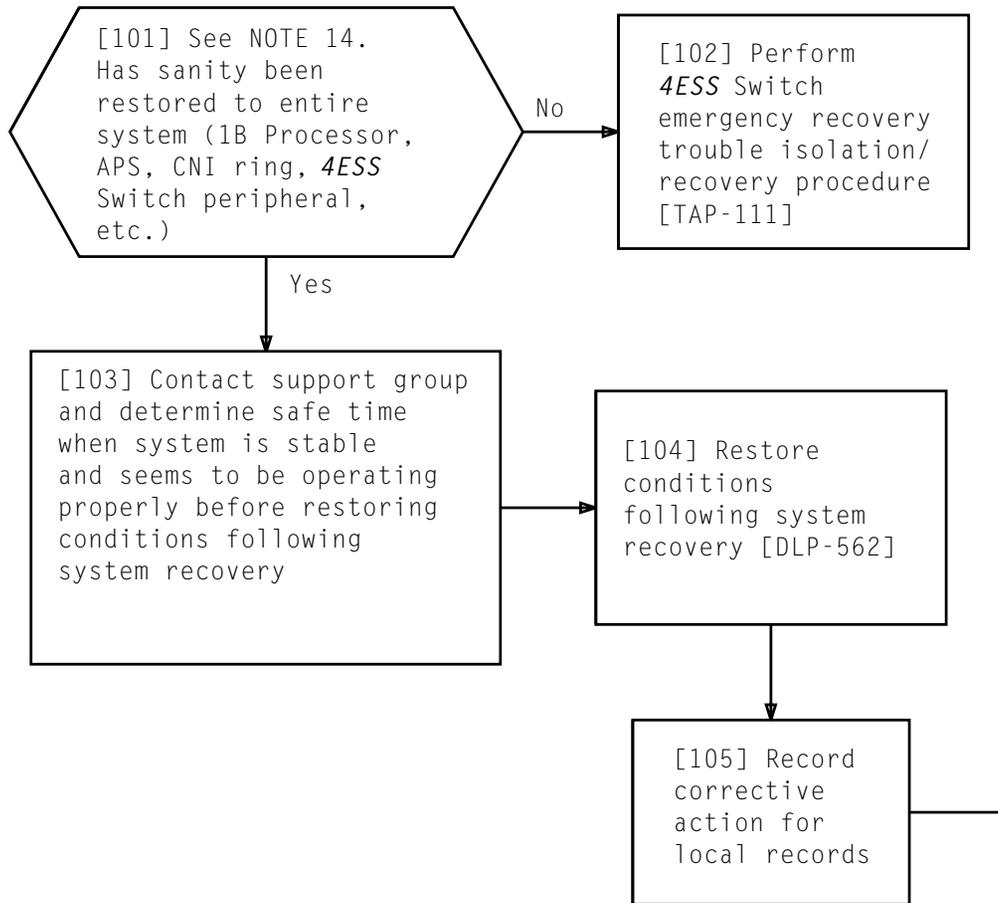
[94] On APS MCRT terminal EAI page, enter poke command **54** in command mode to request phase 4 boot

[95] If 3B21D, enter **Y** to confirm

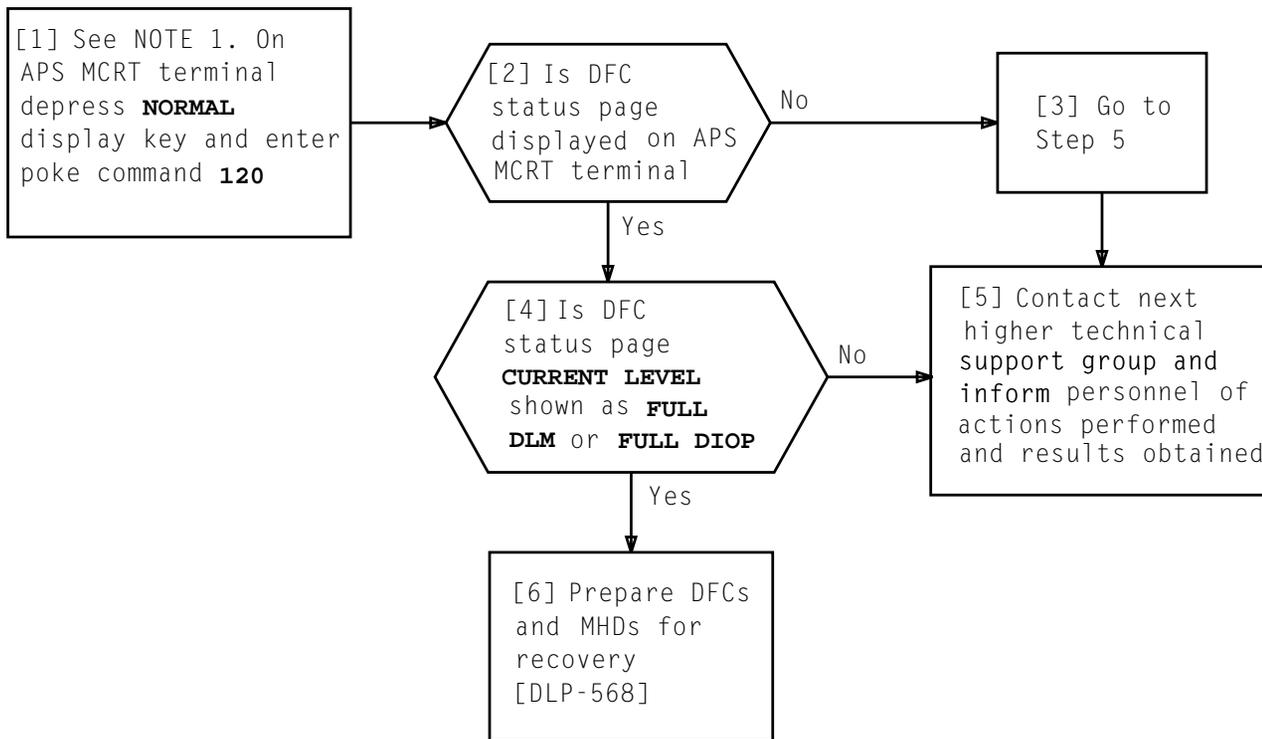


NOTE 13	
One or two failing PRMs among many successful PRMs does not indicate system sanity is in jeopardy	
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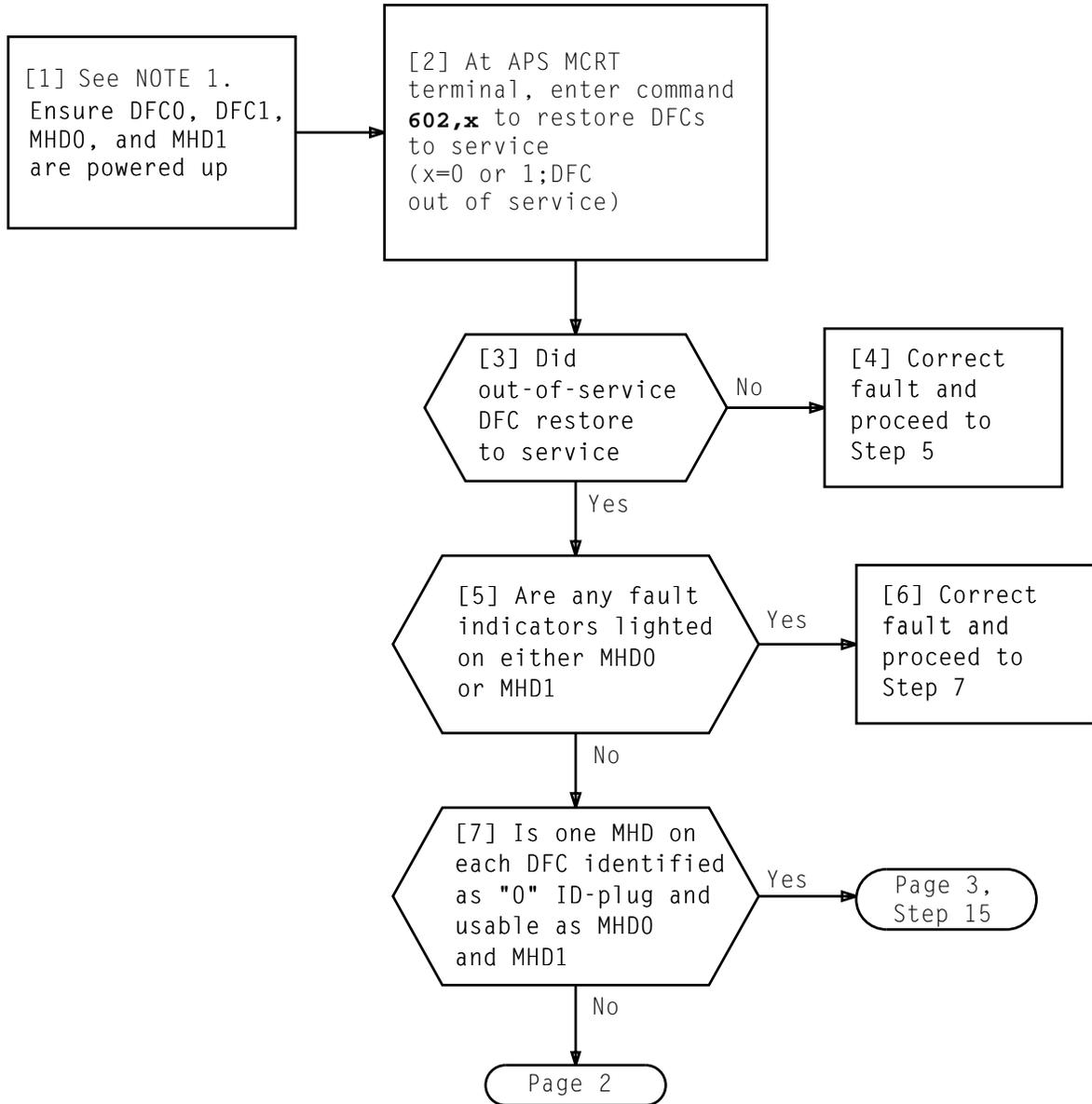
PERFORM ATTACHED PROCESSOR SYSTEM (APS) RECOVERY – MINIMUM CONFIGURATION



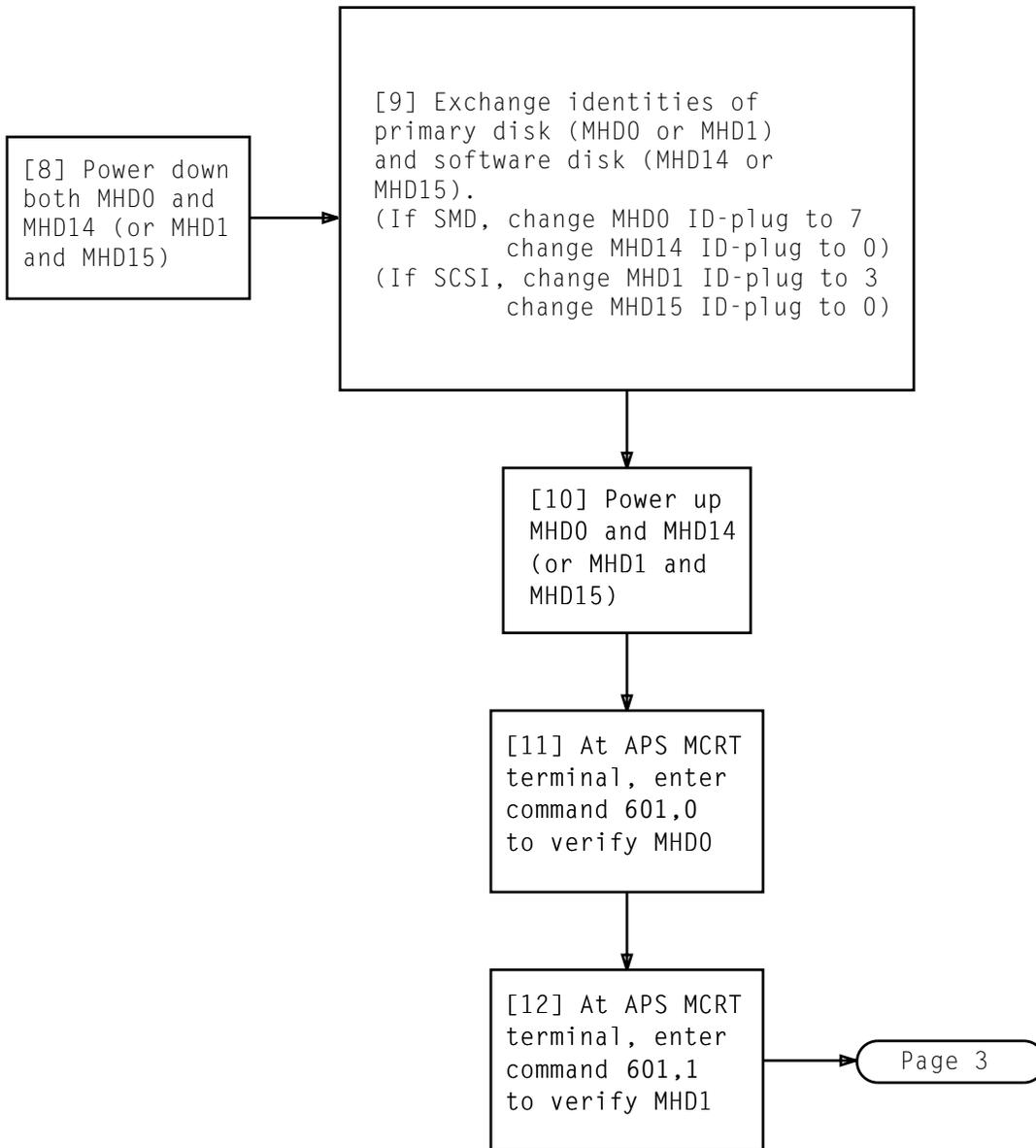
NOTE 14	
System has recovered if following conditions have been met:	
A. On 1B Processor MCC terminal EAI Page under PC PROGRESSION, CMPL text is lighted BLACK on GREEN	
B. On 1B Processor MCC terminal EAI Page, PHASE IN PROG text has not lighted in last few minutes	
C. On 1B Processor MCC terminal SYSTEM STATUS page under SYSTEM ACTIVITY, displayed data is normal for time of day (takes 3 minutes for data to be updated)	
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NOTE 1	
This procedure assumes the switch is performing all essential activities (call processing, etc.). If essential activities are not working, this procedure SHOULD NOT be used	
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NOTE 1	
The strategy for recovery from DIOP is to maximize the potential for a successful and quick boot. This is done by preparing each system MHD (and software backup disk, if equipped) for the boot attempt	
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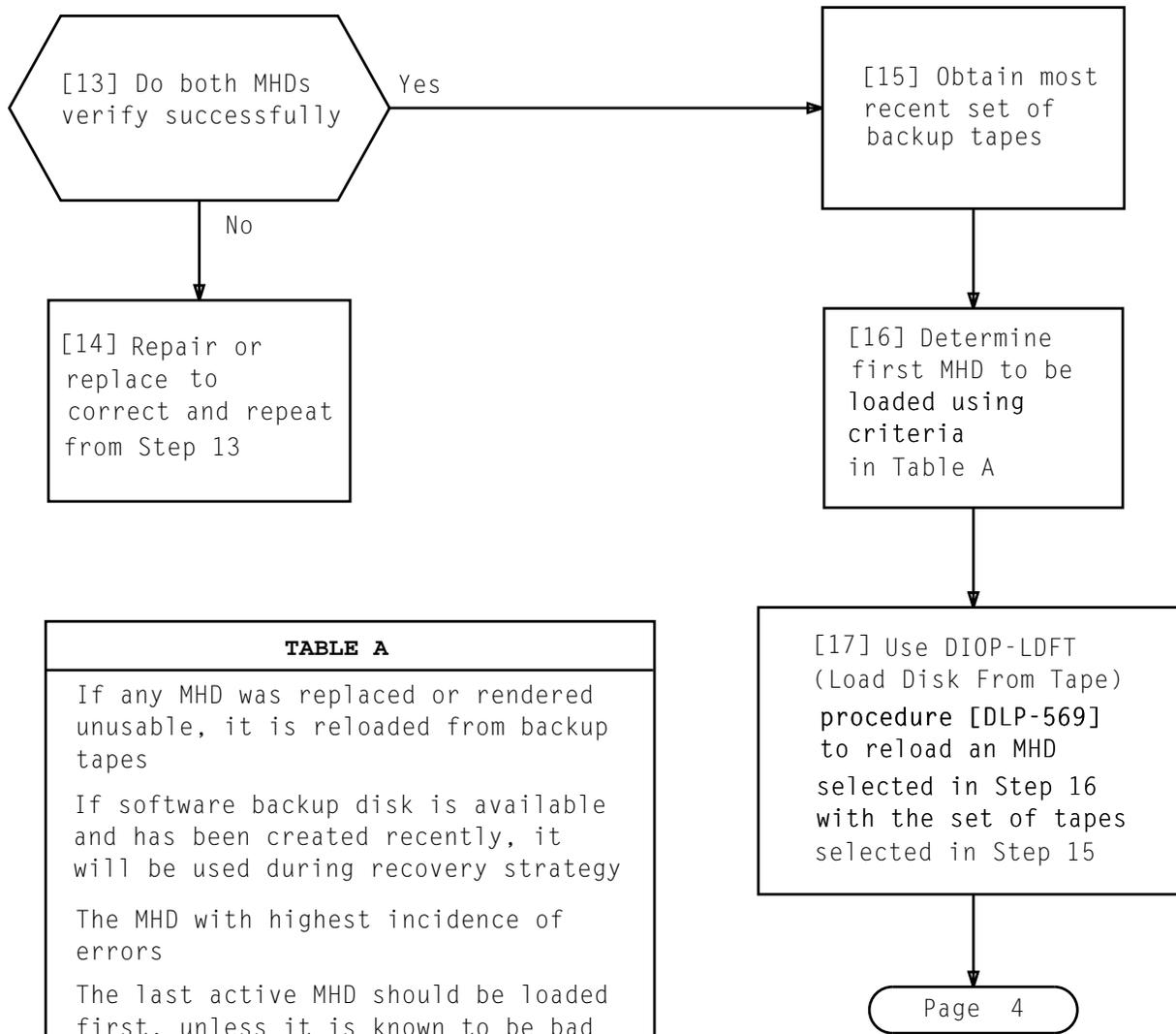
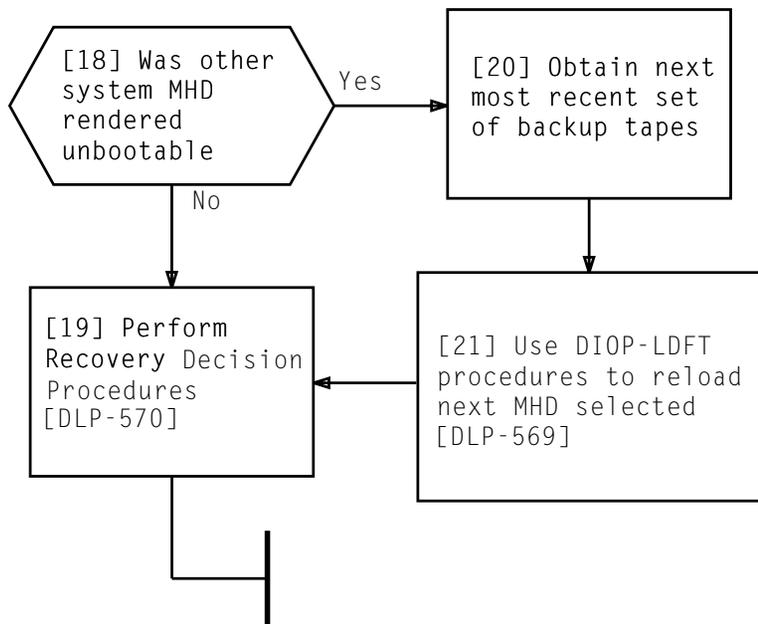
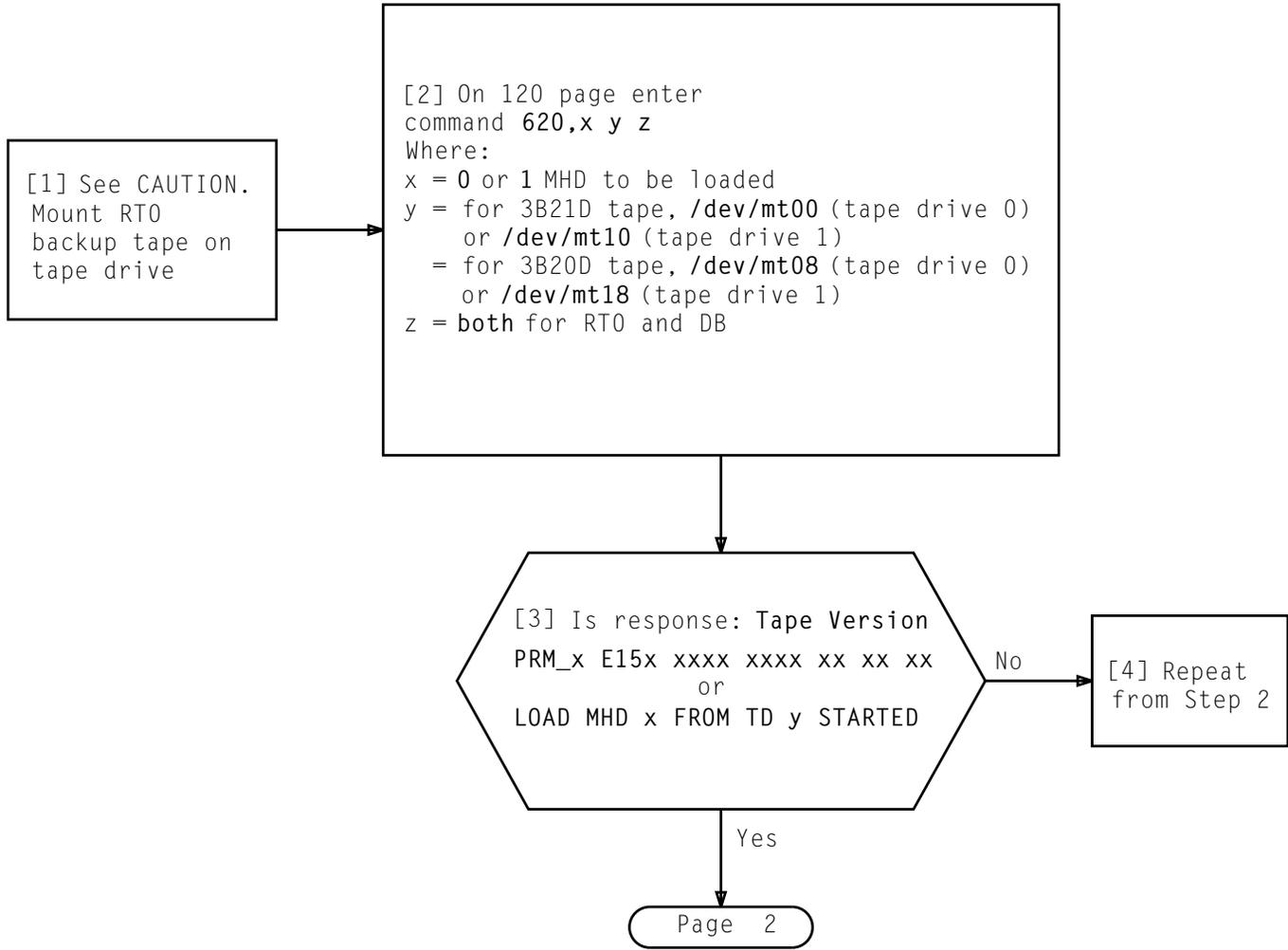


TABLE A
If any MHD was replaced or rendered unusable, it is reloaded from backup tapes
If software backup disk is available and has been created recently, it will be used during recovery strategy
The MHD with highest incidence of errors
The last active MHD should be loaded first, unless it is known to be bad
Seek technical assistance

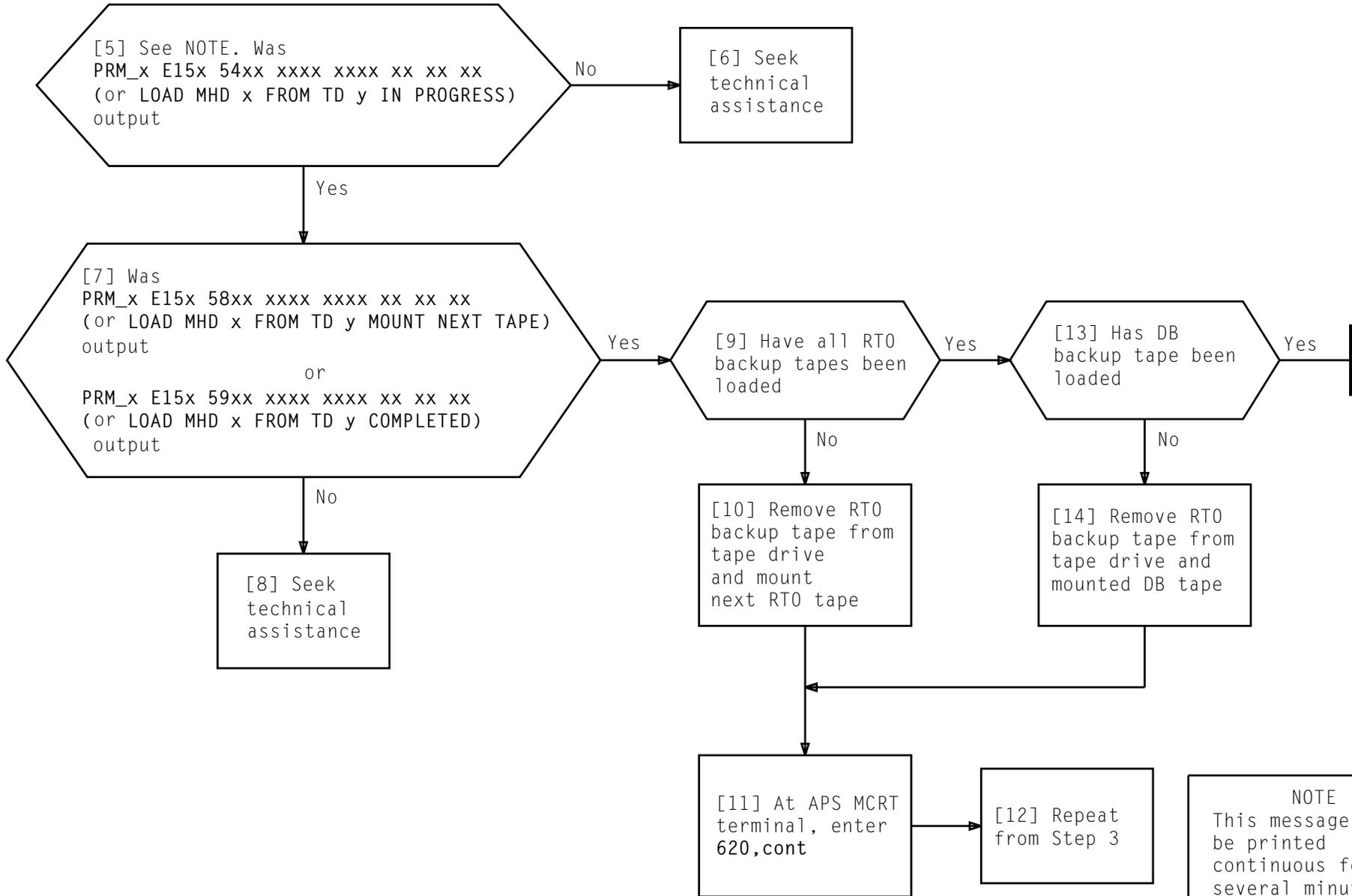
Page 4





CAUTION
Maintain a record of which backup tapes are loaded on each drive so that post-recovery steps to resolve problems using "old" application data will be easier to resolve

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NOTE	
This message will be printed continuous for several minutes	
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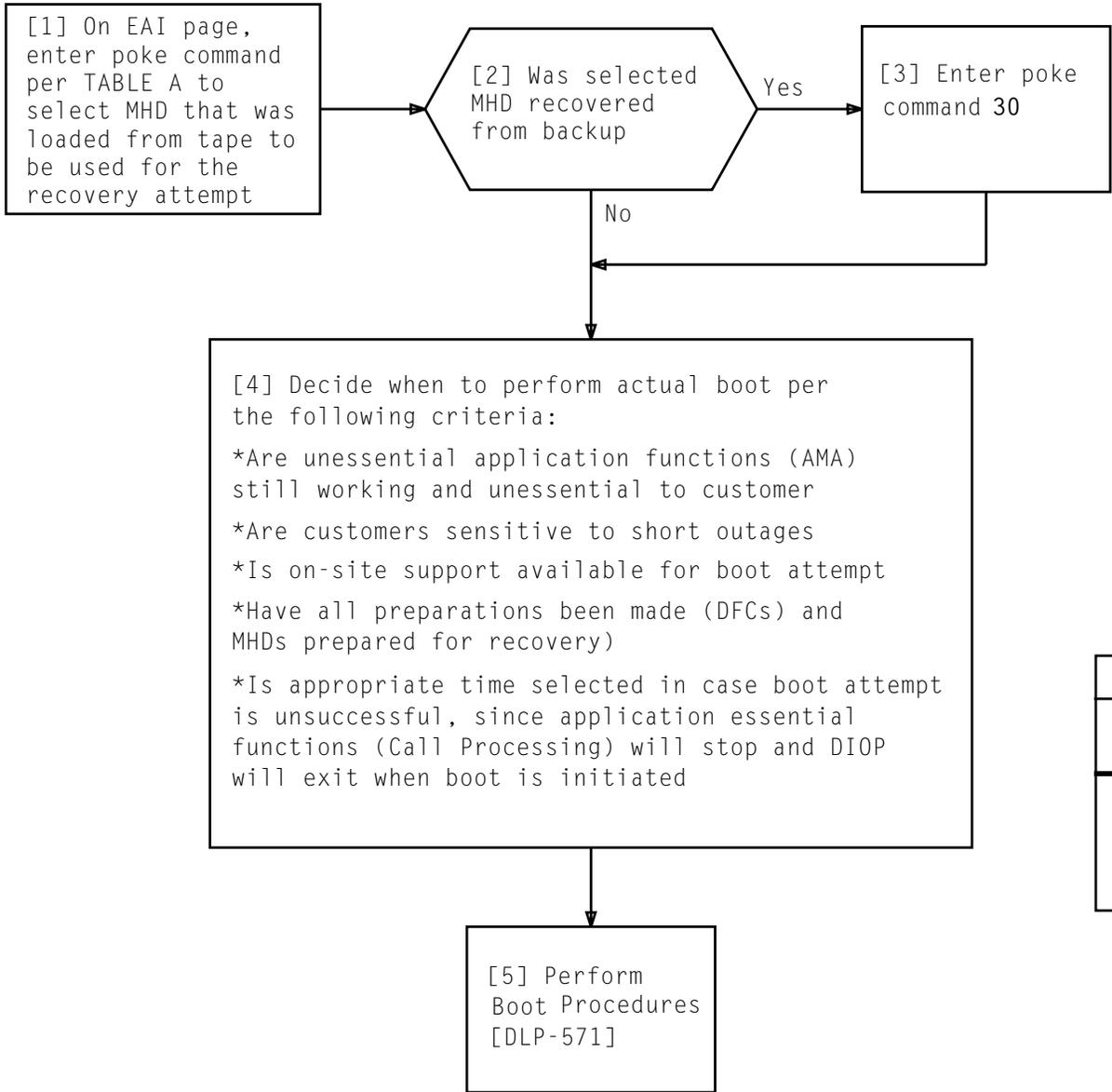
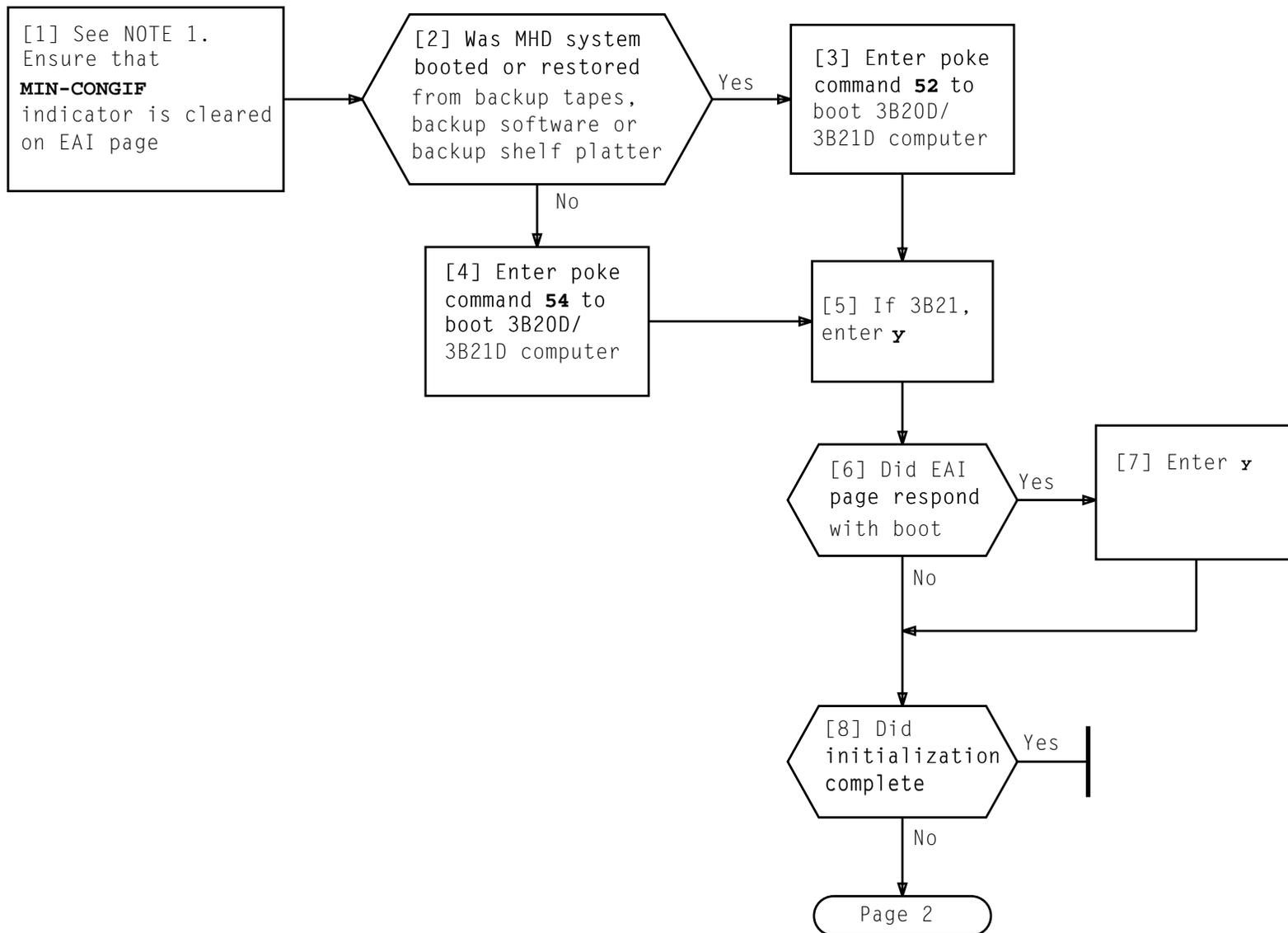
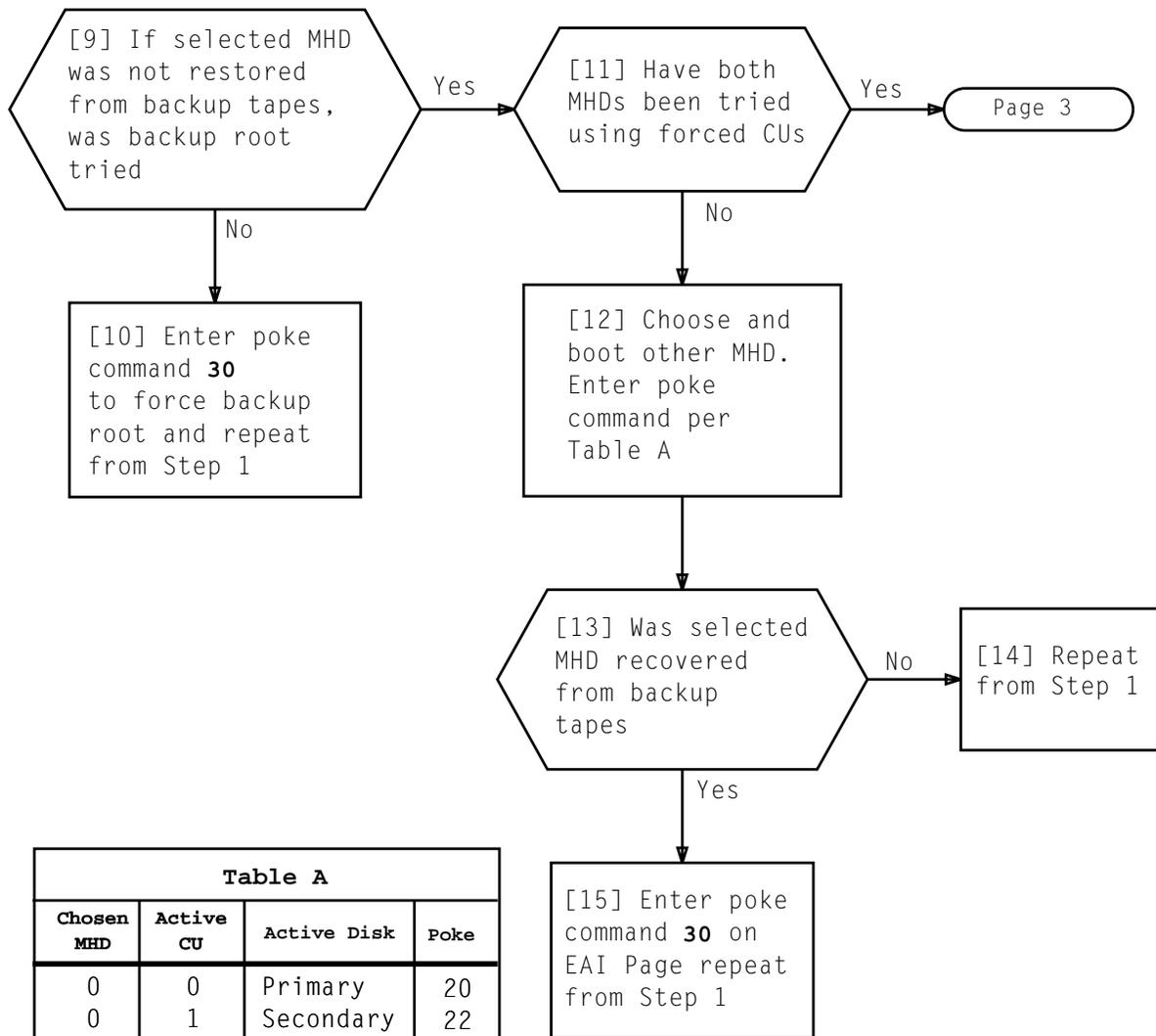


TABLE A			
Chosen MHD	Active CU	Active Disk	Poke
0	0	Primary	20
0	0	Secondary	22
1	0	Secondary	22
1	1	Primary	20

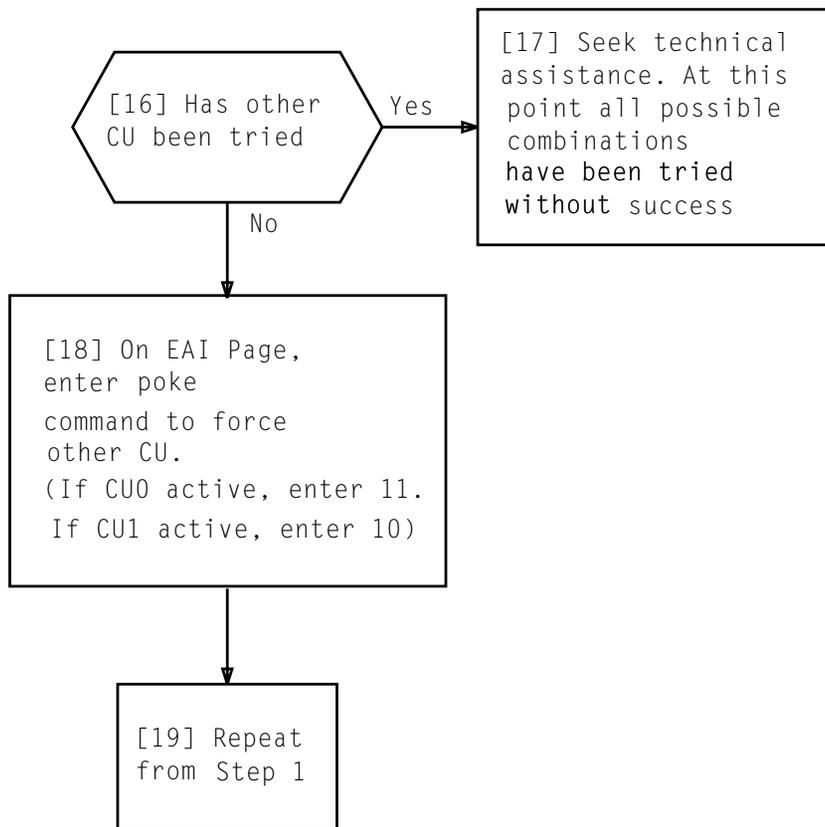
PERFORM RECOVERY DECISION

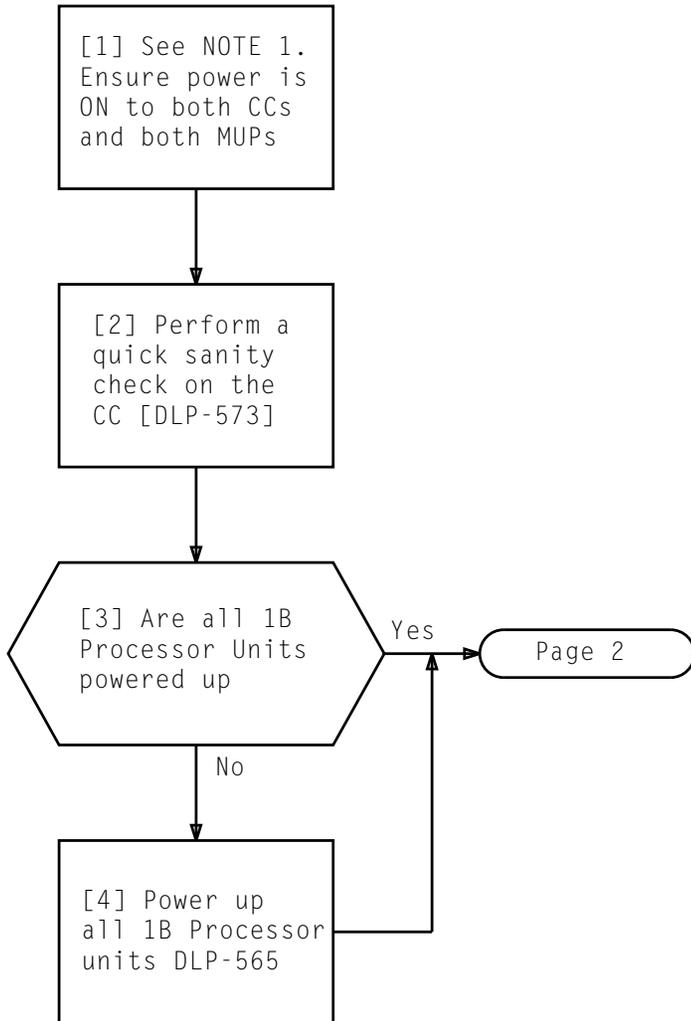


NOTE 1	
The object of this procedure is to successfully boot the 3B20D/3B21D computer with the most recent disk possible. This procedure also assumes that craft has prepared the system for recovery	
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Chosen MHD	Active CU	Active Disk	Poke
0	0	Primary	20
0	1	Secondary	22
1	0	Secondary	22
1	1	Primary	20





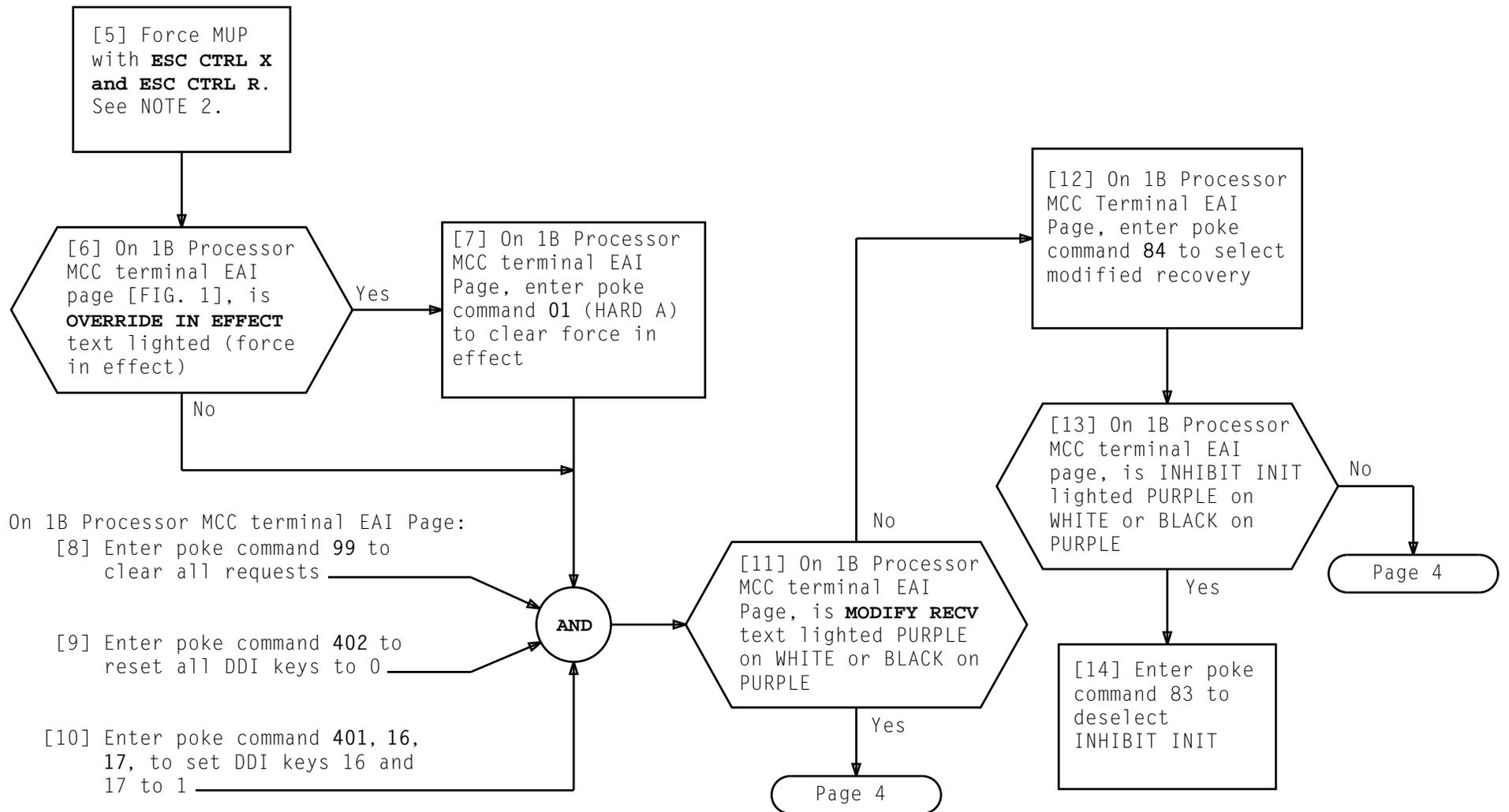
NOTE 1

The 1B Processor is in deadstart if the following conditions occur:

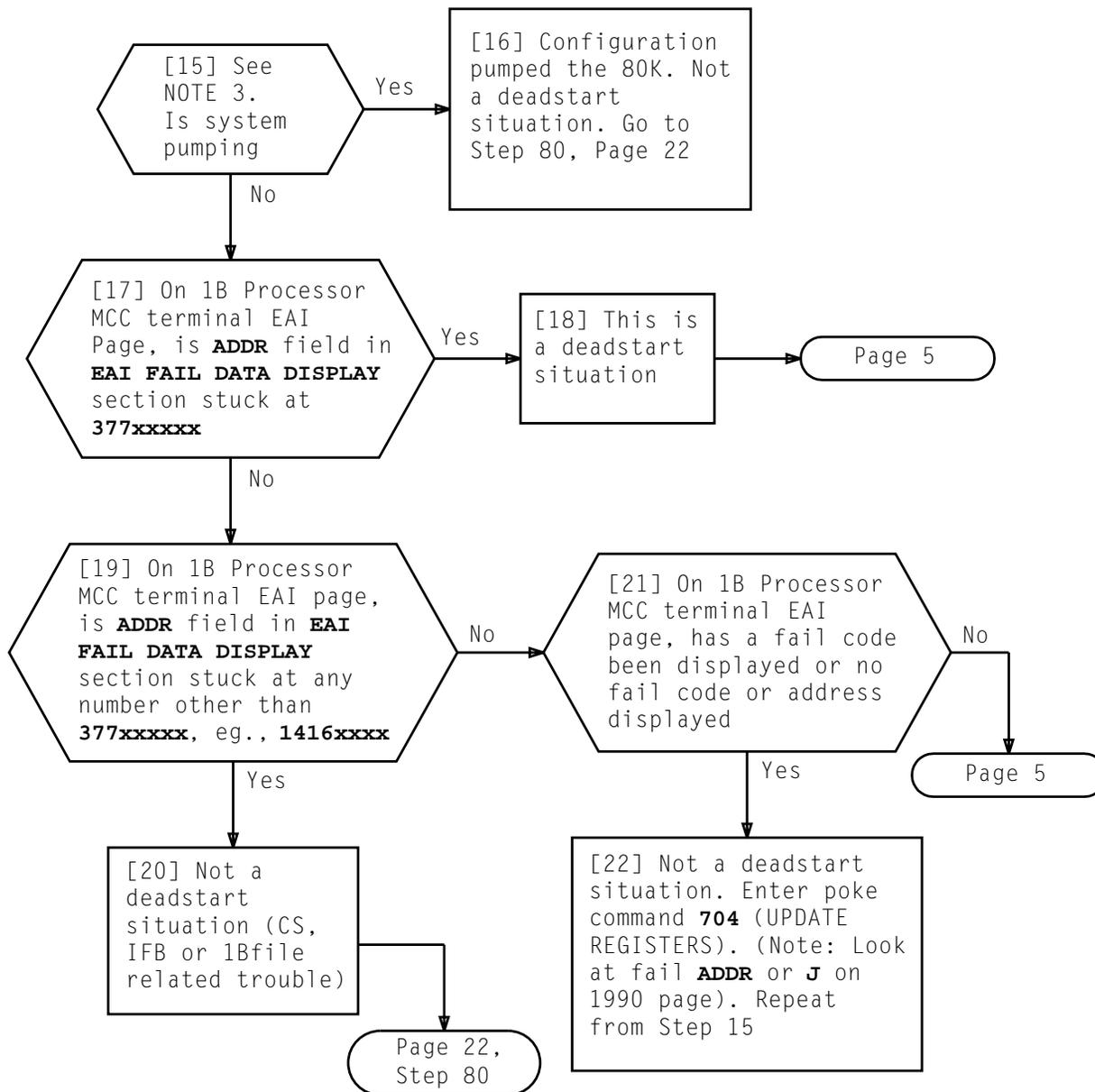
- A. Critical alarms have gone off and field support contacted
- B. No calls are being processed (MCC display page 108 and System Status indicate no calls are being processed)
- C. MCC is duplex failed (flashing in RED on MCC EAI Page)
- D. Entering **OP:OOSUNITS!** on Maintenance Channel gets no response
- E. A Soft A entry (02) with RST:IO is ignored
- F. A Soft A entry (02) with a Phase 1 (51) is ignored
- G. **PC STATE** indicator on MCC EAI Page is rolling through Repeated PCs
- H. PCRV Failed or PCRVB00T when Hard A (01) tried to pump 1B Processor or Hard A (01) with both configurations (0 and 1) failed to get 80k memory pumped

Contact next higher technical support group and inform personnel of actions performed and results obtained. Deadstart will lose all transient and stable calls. It can destroy all call store and program store

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NOTE 2	
MUP should come up on EAI Page. If not, reset MUP with ESC CTRL R	
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NOTE 3

In EAI DATA DISPLAY section, octal digits "aaa" and "bbbb" [FIG. 1] in **86-CODE** field must begin incrementing within 10 seconds after entering poke command **702** (RUN CC) 1B Processor. "bbbb" indicates that 1B Processor is attempting to pump and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors BLACK on GREEN and **SAM_01** fires (color WHITE on RED), approximately 2 minutes after entering poke command **702** (RUN CC). If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If 87 and 88 fields are not blank, this is a failure. If these fields are blank, the 1B Processor successfully pumped

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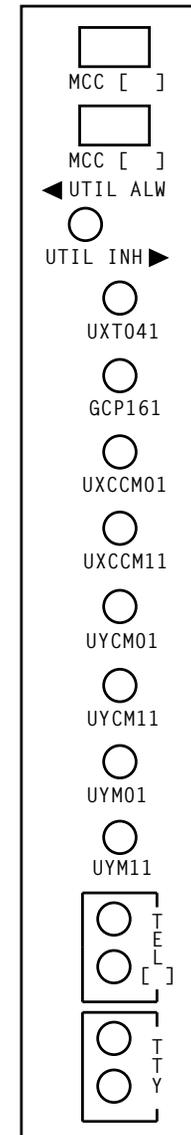
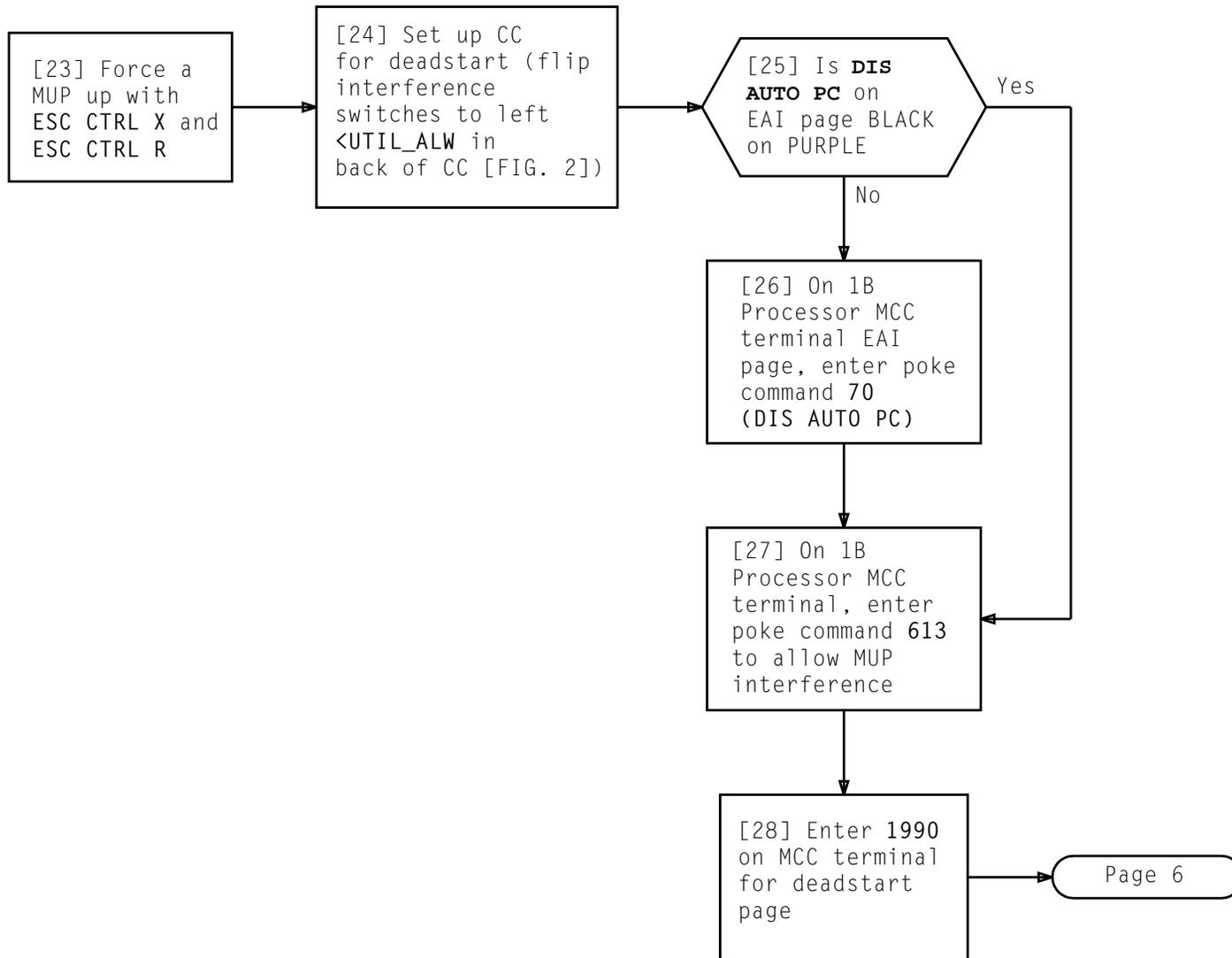


FIG. 2 - 1B Processor Cabinet Utility Access Panel

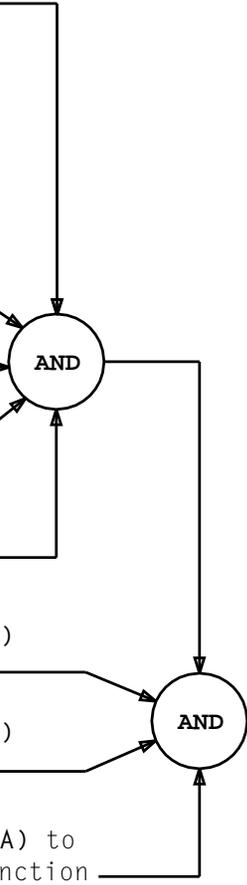
[29] On 1990 Page, enter poke command 701 to suspend 1B Processor

[30] On 1B Processor MCC terminal EAI page, enter poke command 01 (HARD A) to clear force in effect

On 1B Processor MCC terminal EAI Page [FIG. 1]:

- [31] Enter poke command 10 (CC 0) to select function
- [32] Enter poke command 20 (PS 0) to select function
- [33] Enter poke command 22 (PSB 0) to select function
- [34] Enter poke command 30 (CSB 0) to select function

- [35] Enter poke command 40 (IFB 0) to select function
- [36] Enter poke command 42 (AUB 0) to select function
- [37] Enter poke command 01 (HARD A) to select override in effect function



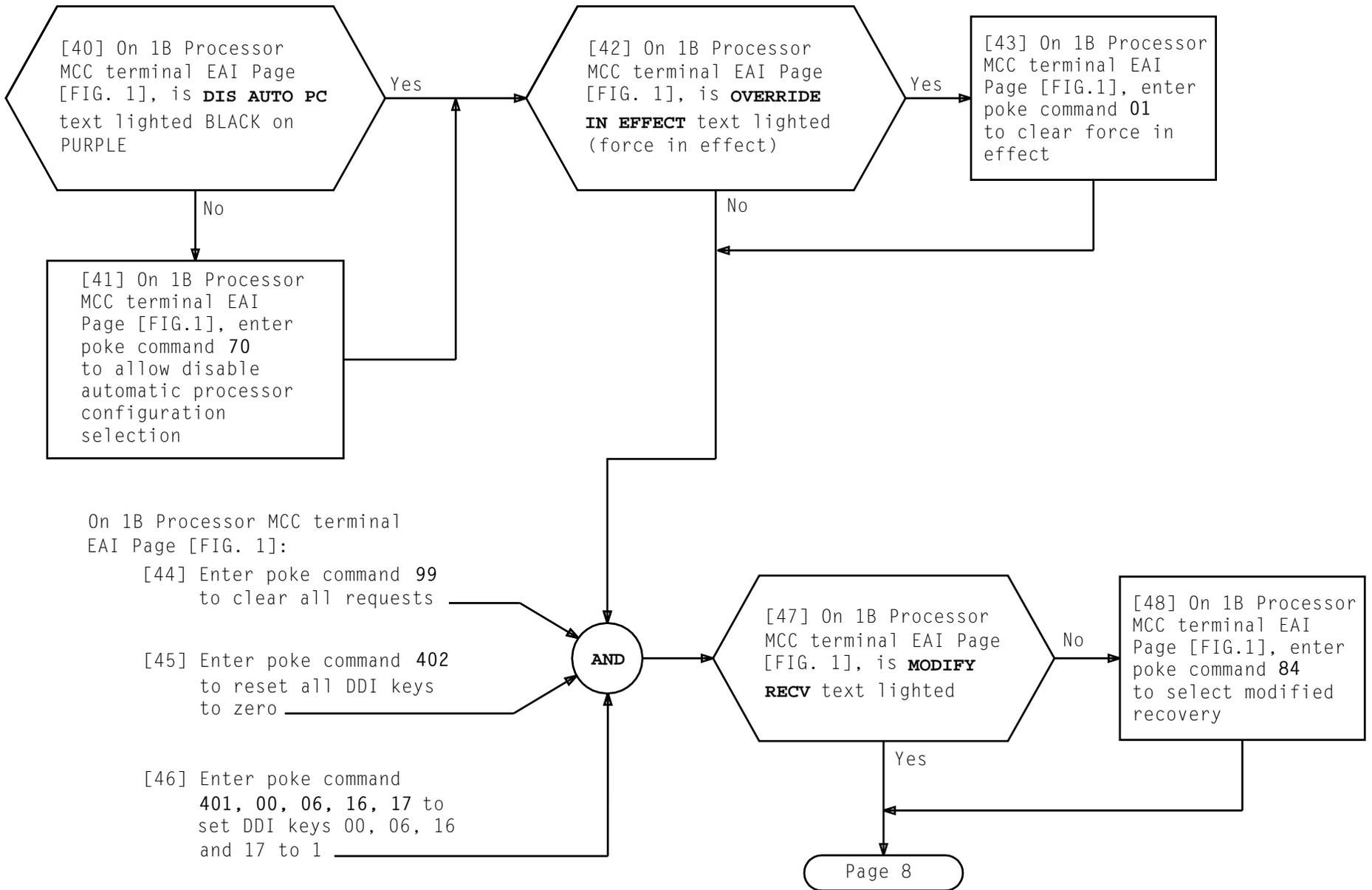
[38] Enter poke command 702 (RUN) to run 1B Processor

[39] Allow sufficient time (3 minutes) for system to recover

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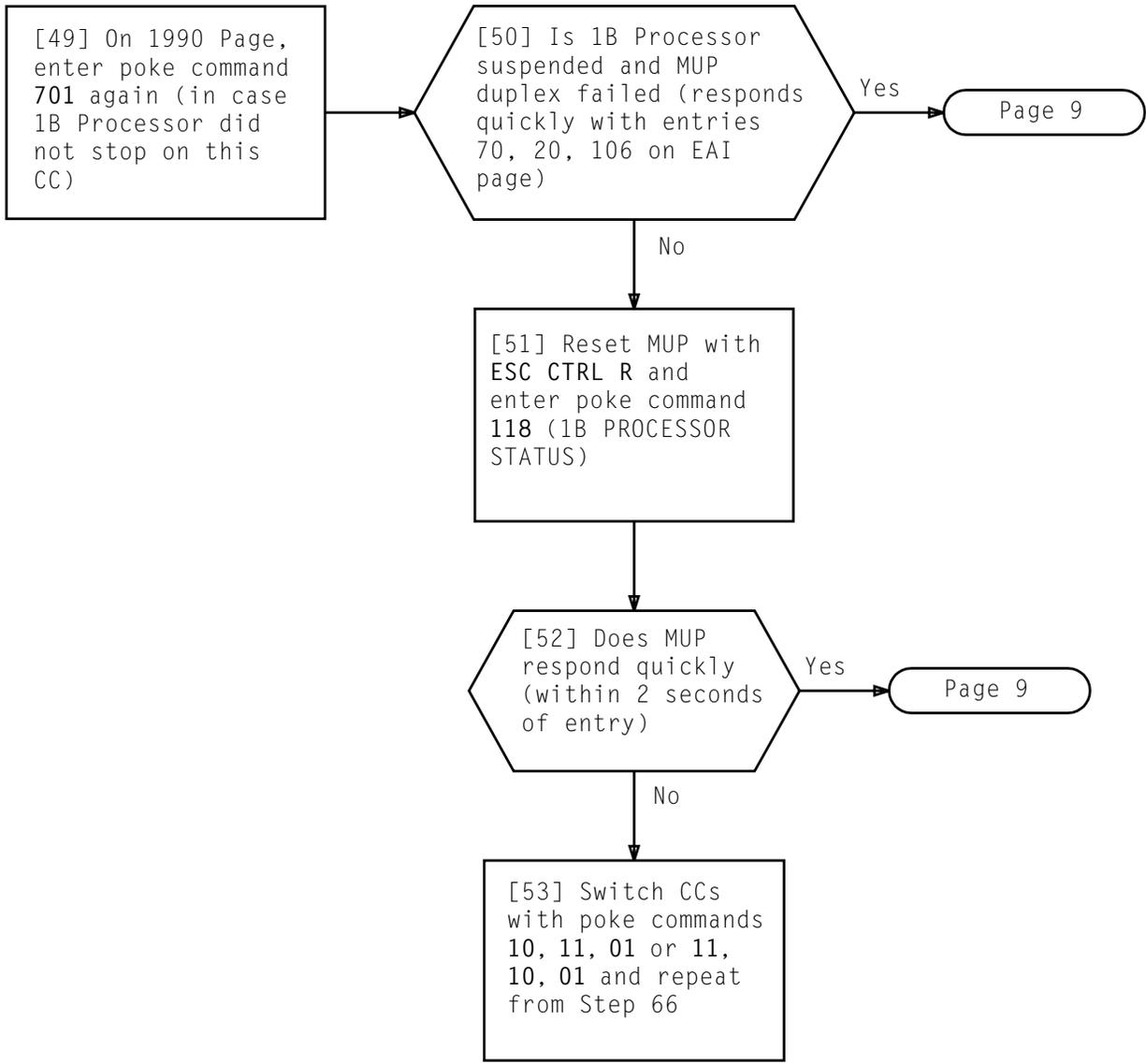
PERFORM 1B PROCESSOR DEADSTART

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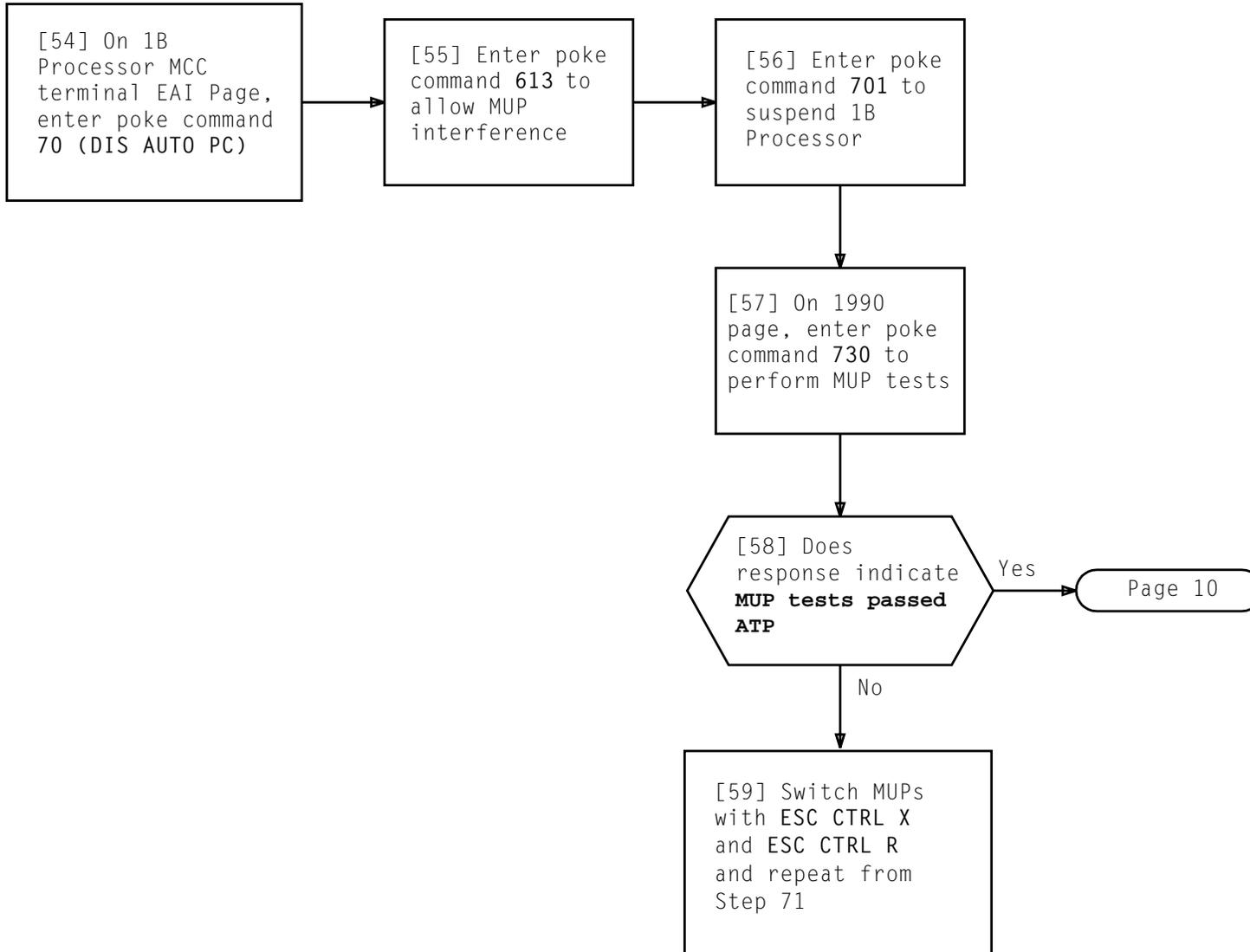
PERFORM 1B PROCESSOR DEADSTART

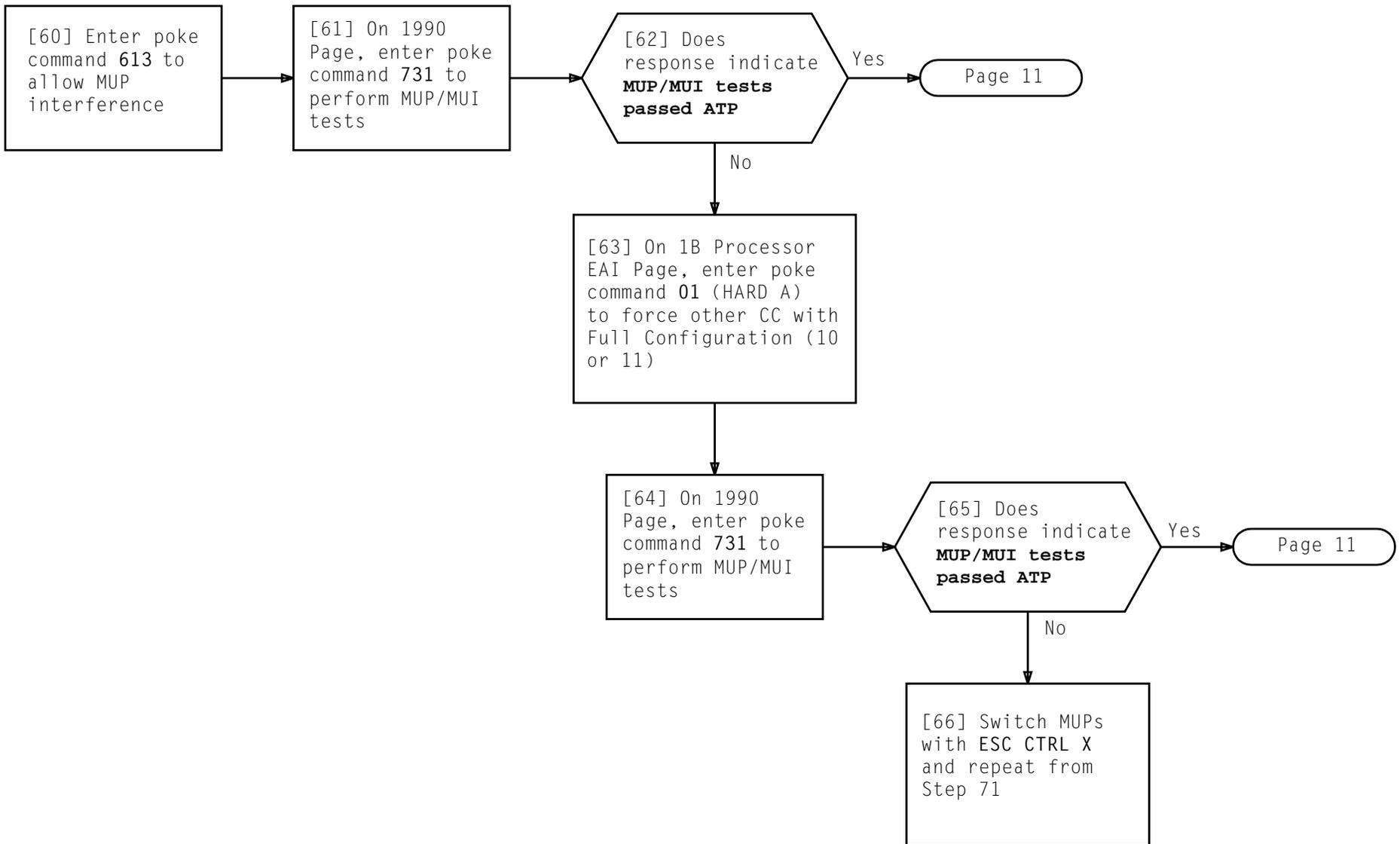
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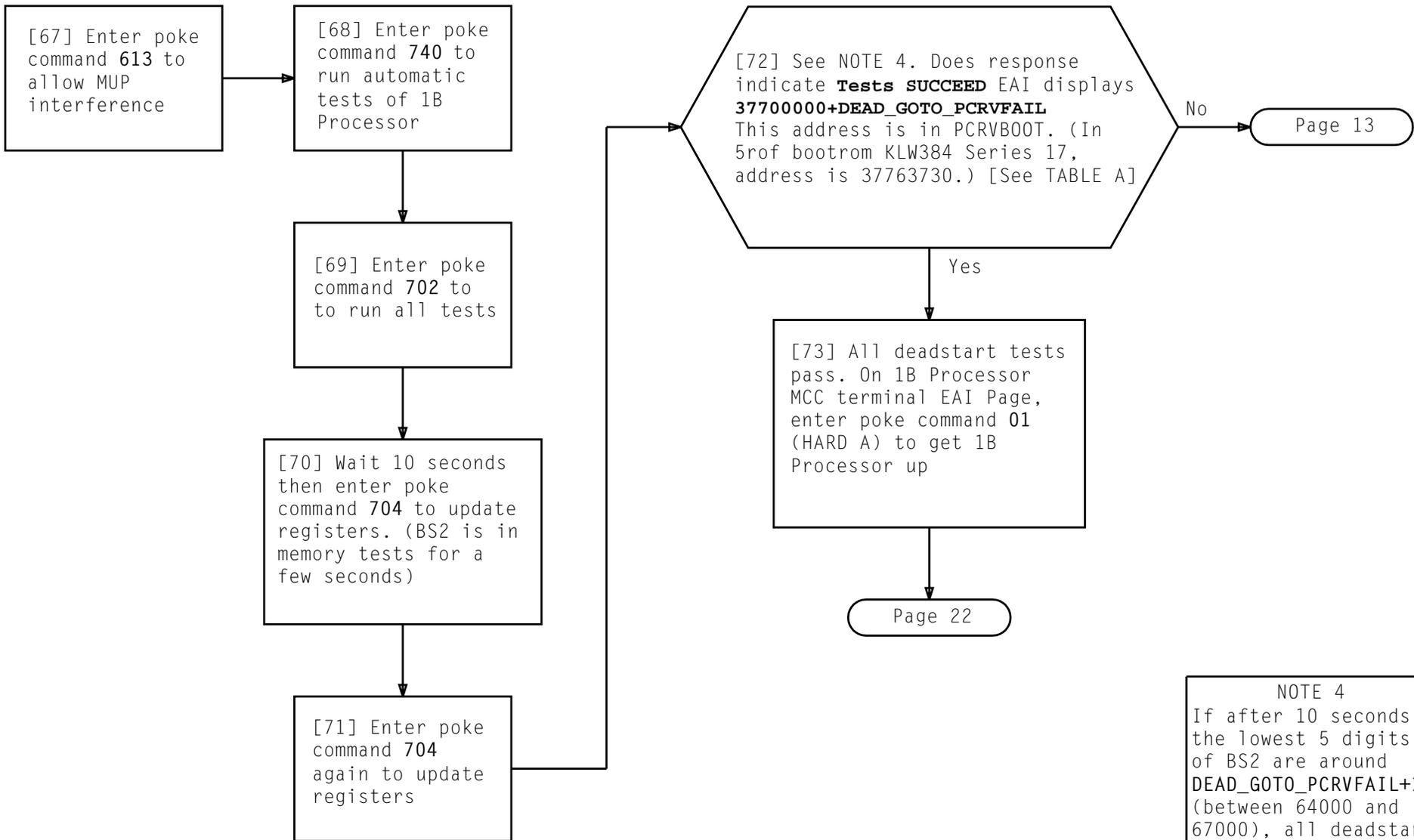


PERFORM 1B PROCESSOR DEADSTART

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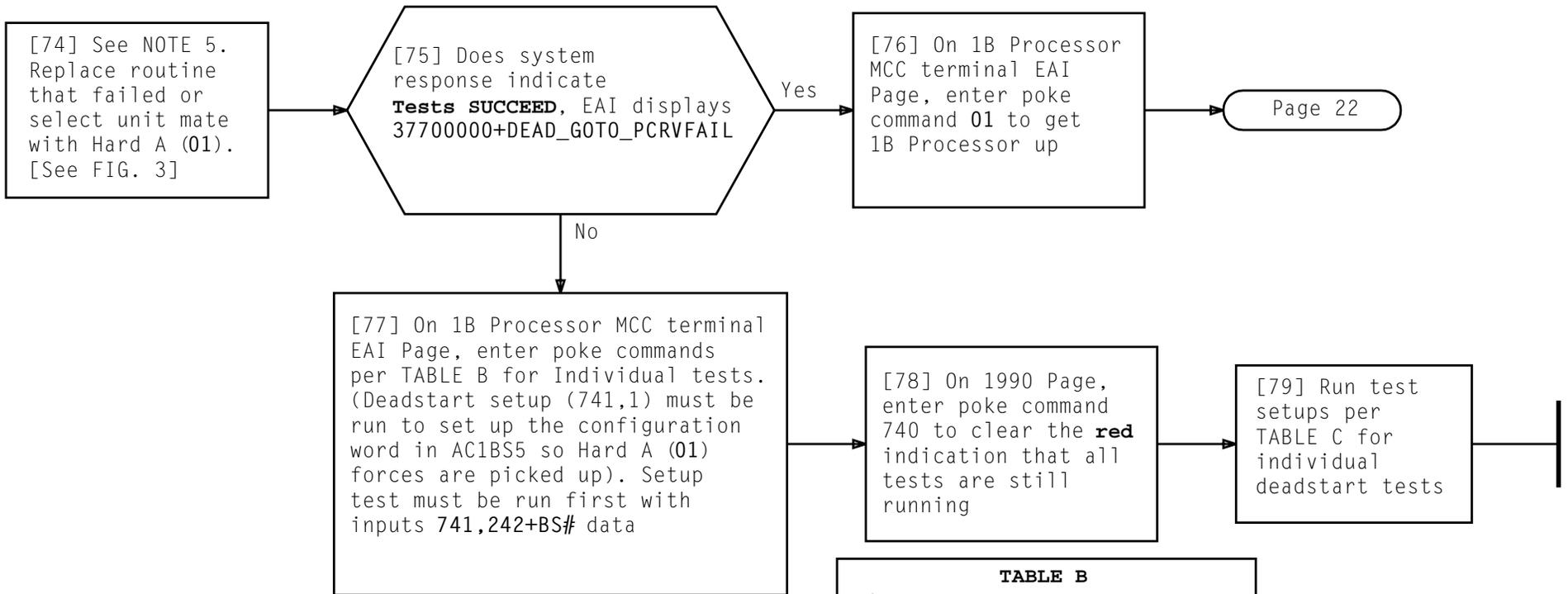


NOTE 4
 If after 10 seconds the lowest 5 digits of BS2 are around DEAD_GOTO_PCRVFAIL+1 (between 64000 and 67000), all deadstart tests passed. Try HARD A (01) to get 1B Processor up

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PERFORM 1B PROCESSOR DEADSTART

TABLE A				
MCC PAGE 1990 DISPLAY-INTERPRETING RESULTS WITH AC1BS2				
?????????				
critical cc				
CMD: 740! OK				
-CC CONTROL-		- CC REG ACCESS -		
701 - SUSPEND		720,X - READ CC REG		730 - DIAG MUP
702 - RUN		721,X,Y - WRITE CC REG		731 - DIAG MUP MUI INT
703 - SINGLE STEP		722,X,Y - WRITE BOL BOR		732,X - READ MUP MEMORY
704 - UPDATE REGS		ADDR:		ADDR:
		DATA:		DATA:
- MISCELLANEOUS -		- STATUS -		- 1B PROCESSOR TEST -
710 - INIT US		= INTF HW ENABLED =		740 - ALL TESTS
711 - AUTO HARD A		= UAS NORMAL UTIL =		741,X - SINGLE TEST
712 - BOL/BOR LOCK				
713 - BASE: OCTAL				
BR=	FR=	GR=	JR=	KR=
LR=	XR=	YR=	ZR=	TR=
CAR=	DAR=	SH= SC=	BOL=	BOR=
FLA=	FLD=	FLT=	BS0=	BS1=
BS2= xxx ADDRS	BS3=	BS4=	BS5=	CSC=



**TABLE B
1B PROCESSOR MCC ENTRIES FOR
INDIVIDUAL TESTS IN DEADSTART**

70	DISABLE AUTO PC
613	ALLOW MUP INTERFERENCE
741,1	SETUP
742,2	PSB AND PS
741,10	IFB
741,11	AUI
741,12	AUB AND API
(THESE ENTRIES SET UP PUMP PATH TO THE APS VIA PSB,PS,IFB,AUI, AUB,API)	

NOTE 5

If tests did not get to **PCRVFAIL (BS2)** then a test failed. A look at BS2 last 5 digits and the PCRVB00T deadstart vector table (67000) [FIG. 3] identifies the last test run. This is the probable cause of deadstart. Replace routine or switch to unit mate with Hard A (01)

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PERFORM 1B PROCESSOR DEADSTART

bootrom deadstart table has:

0067000		-002- 04 DEAD_SETUP_MUP_LOOPBACK EQU *
		-002- 05 # 'SETUPS- NONE'
		-002- 06 # 'RESULT IS F = - G'
067000	3330001077763527R 52530L	-002- 07 T DEAD_MUP_LOOPBACK # TEST 0
	0067002	-002- 08 DEAD_NEXT_MUP_LOOPBACK EQU *
0067002		-002- 12 DEAD_SETUP_DEAD_SETUP EQU *
		-002- 13 # 'SETUPS- NONE'
		-002- 14 # 'INHIBITS = BS1 (X)'
067002	3330001077763707R 52712L	-002- 15 T DEAD_DEAD_SETUP # TEST 1
	0067004	-002- 16 DEAD_NEXT_DEAD_SETUP EQU *
0067004		-002- 20 DEAD_SETUP_CONFIG_PSB_PS EQU *
		-002- 21 # 'SETUPS-1
		-002- 22 # ' '
067004	3330001077764073R 53100L	-002- 23 T DEAD_CONFIG_PSB_PS # TEST 2
	0067006	-002- 24 DEAD_NEXT_CONFIG_PSB_PS EQU *
0067006		-002- 28 DEAD_SETUP_TEST_CC EQU *
		-002- 29 # 'SETUPS- 1 2'
		-002- 30 # ' '
067006	3330001077764251R 53260L	-002- 31 T DEAD_TEST_CC # TEST 3
	0067010	-002- 32 DEAD_NEXT_TEST_CC EQU *
0067010		-002- 36 DEAD_SETUP_HASH_PCRVBOOT EQU *
		-002- 37 # 'SETUPS- NONE'
		-002- 38 # ' '
067010	3330001077764433R 53444L	-002- 39 T DEAD_HASH_PCRVBOOT # TEST 4
	0067012	-002- 40 DEAD_NEXT_HASH_PCRVBOOT EQU *

FIG. 3 – Deadstart Test Address Table Listing From PCRVBOOT (5r0f)

**TABLE C
DEADSTART TEST SETUPS**

SETUP	TEST REQUIREMENT	EXPLANATION
Test 1 - SETUP	No setup Input:BS1=pest_inh	DEAD_SETUP must be run (once) before individual tests are run. Sets up configuration word from Hard A forces on MCC via AC1MCO into AC1BS5 and shadow Z register
Test 2 - PS_CONF	Setup:1 No inputs	CONFIG_PSB_PS configures the Program Store Bus and the Program Store (MCODE 773). Needed for all tests to run. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 3 - CC_TESTS	Setup:1 and 2 No inputs	TEST_CC runs CC tests, including memory access tests. Same routine is used in normal Boot. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 4 - HASH_ROM	No setup No inputs	HASH_PCRVBOOT is a self-hashing test of Bootrom validity. Does NOT need memory. Same routine is used in normal Boot. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 5 - MEMORY	Setup:1 and 2 Input:BS0=start_addr BS1=end_addr	MEMORY_TESTS runs memory access tests (24 bits). Verifies uniqueness of each address and that each bit in every location can be written to both 1 and 0. CANNOT be run without PS_CONFIG. Same routine is used in SR Boot, but will run without either SR selected for deadstart. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 6 - WRITEMEM	Setup:1and 2 Input:BS0=start_addr BS1=end_addr BS3=pattern0 BS4=pattern1 (also C,M,W,R and 32 bit)	MEMORY_TEST_EXTEND can be used to write memory
Test 7 - ZERO	Setup:1 and 2 Input:BS0=start BS1=end	ZERO_PS_LOOP zeroes memory. CANNOT be run without PS_CONFIG. Same routine used in SR Boot, but will run without either SR selected for deadstart. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 8 - COPY	Setup:1 and 2 Input:BS0=source BS1=destination Bs3=length	Copies a block of memory. CANNOT be run without PS_CONFIG Deadstart only routine. Fails go to PCRVFAIL at PCRVBOOT+20000

**TABLE C
DEADSTART TEST SETUPS (CONTD)**

SETUP	TEST REQUIREMENT	EXPLANATION
Test 9 - CSB_CONF	Setup:1 No inputs	CONFIG_CSB configures the Call Store Bus. Same routine is used in normal Boot. Does not check for failure
Test 10 - IFB_CONF	Setup:1 and 2 No inputs	CONFIG_IFB configures the Interface Bus. Same routine is used in normal Boot. Does not check for failure
Test 11 - AUI_CONF	Setup:1,2 and 10 No inputs	CONFIG_AUI configures the Auxiliary Interface Unit. Same routine is used in normal Boot. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 12 - API_CONF	Setup:1,2,10 and 11 No inputs	CONFIG_API configures the Auxiliary Unit Bus and Attached Processor Interface Unit. Same routine is used in normal Boot. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 13 - SEL_FILE	Setup:1,2,10,11 and 12 Input:BS3=api_kcode BS4=aiu_base	SEL_FILE selects NORM or UPDATE file (NORM is default) and sends that information to APS. Same routine is used in normal Boot. Does not check for failure
Test 14 - PUMP_80K	Setup:1,2,10,11 and 12 Input:BS3=api_kcode BS4=aiu_base	Pumps the 80K from the APS with 516 "Quadrants" starting at quadrant 2: 2,3,4,5,1 are pumped; each quadrant can time out. Same routine is used in normal Boot. Does not check for failure
Test 15 - DISPLAY	Setup:1,2 and 10 Input:BS3=mup77602000 BS4=cmd0720310 k=data	SEND_TO_MUP sends data to the MUP. Default is a command to write BS2 to the display code on the MCC EAI Page. Same routine is used in normal Boot. Does not check for failure
Test 16 - MUP_CONF	Setup:1,2 and 19 No inputs (UTIL SR)	CONFIG_MUP configures the Maintenance and Utility Processor Unit. Same routine is used in UTIL SR. This routine only runs if UTIL SR is selected on the MCC EAI Page. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 17 - SRIOINIT	Setup:1,2,10, and 16 No inputs (SR)	SR_IO_BUFFER_INIT sets up the buffers used by SR. It clears out buffers 2-8 and sets up buffer 1 for single buffer use. Same routine is used in SR. This routine only runs if NORM or UTIL SR is selected on MCC EAI Page. Does not check for failure

**TABLE C
DEADSTART TEST SETUPS (CONTD)**

SETUP	TEST REQUIREMENT	EXPLANATION
Test 18 - UTILHAND	Setup:1,2,10 and 16 No inputs (UTIL SR)	INFORM_UTL informs the Maintenance and Utility Processor Unit that a UTIL SR is starting. Same routine is used in UTIL SR. This routine only runs if UTIL SR is selected on the MCC EAI Page. Fails go to PCRVFAIL at PCRVBOOT+2000
Test 19 - DUS_CONF	Setup:1,2,10 and 11 No inputs (aui_base) (NORM SR)	CONFIG_DUS_TUC configures the Device Unit Selector, Device Unit Controller and Tape Unit Controller. It does a call to READ_HDR_TUC to start reading the SR Tape Header and returns the address of the responding TUC. Same routine is used in NORM SR. This routine only runs if NORM SR is selected on the MCC EAI Page. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 20 - READ_HDR	Setup:1,2,10,11 and 19 No inputs (NORM SR)	READ_HDR_TUC reads the Header (682 words long) from the TUC into 14020000. It is automatically run by CONFIG_DUS_TUC
Test 21 - VERIFYSR	Setup:1,2,10 and 16/17/18 or 19 No inputs (SR)	VERIFY_HEADER verifies the data in the header of lot 1 used by SR. The last 2 bytes of the first word of the header should be ascii SR, or 51522 in octal. Same routine is used in SR, this routine only runs if NORM or UTIL SR is selected on the MCC EAI Page. Fails go to PCRVFAIL at PCRVBOOT+20000
Test 22 - PUMP_SR	Setup:1,2,10 and 16/17/18/21 or 19/21, No inputs (SR)	BRING_IN_SYSR reads in all remaining portion of SYSR after the header block
Test 23 - READ_515	Setup:1,2,10 and 16/17/18/21 or 19/21, Input:BS0=buf0 BS1=req1 base_tuc sr1buf_num (SR)	READ_SR_515 reads a block of 515 words from either tape of the utility system. Same routine is used in SR. This routine only runs if NORM or UTIL SR is selected on the MCC EAI Page. Does not check for failure

**TABLE C
DEADSTART TEST SETUPS (CONTD)**

SETUP	TEST REQUIREMENT	EXPLANATION
Test 24 - IFFRTIBC	Setup:1,2,10 and 11 No inputs	IFFRTIBC tests the IFB Controller in the CC. This is a deadstart only routine. Fails lock up in a tight deadstart loop, with started and finished bits both set in AC1BS2
Test 25 - AUFRTIFC	Setup:1,2,10 and 11 No inputs	AUFRTIFC tests AUI Client Access via CC MMIO Operations. This is a deadstart only routine. Fails lock up in a tight deadstart loop, with started and finished bits both set in AC1BS2. This test should be run with defaults
Test 26 - DMA_CORE	Setup:1,2,10 and 11 Input:BS0=client 77624000 BS1=source14000000 BS3=dest16000000 BS4=length	WORD_DMA_C2C tests core-to-core word dma via AUI or MUP. This is a deadstart only routine. Fails lock up in a tight deadstart loop with started and finished bits both set in AC1BS2
Test 27 - DMA_CLI	Setup:1,2,10,11 and 12 or 19 Input:BS0=client BS1=quadrant BS3=dest BS4=subclient	WORD_DMA_CLI tests client source to core word dma via AUI. If APS pump, BS1 and 3 are set to the 5th quadrant of the 80K pump, or BS1=01305000 for API and BS3=14200000, BS0=77624000 or 77626000 is the AUI, BS4=17600000 for the API base address
Test 28 - AUI_READ	Setup:1,10 and 11 Input:BS1=auiregister (offset)	AUI_READ_REG reads registers in the AUI. It adds an offset from the AUI base address for the register location. This is a deadstart only routine. No failure branch
Test 29 - API_READ	Setup:1,10,11 and 12 Input:BS0=cmd(read=0) BS1=api_reg(esr=65) BS3=auiregister BS4=api17604000	API_READ_REG reads registers in the API. Executes command from BS0 via F, with register offset from BS1 and returns the register contents in Z
Test 30 - DUS_WRIT	Setup:1,2,10,11 and 19 No inputs (NORM SR)	DUS_WRITE_REG writes registers in the DUS. This is a deadstart only routine. It only runs when NORM SR is set up on the MCC EAI Page. No failure branch
Test 31 - DUS_READ	Setup:1,2,10,11 and 19 No inputs (NORM SR)	DUS_READ_REG reads registers in the DUS. BS1 is the register offset in the DUS, response is returned in K. This is a deadstart only routine. It only runs when NORM SR is set up on the MCC EAI Page. No failure branch

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**TABLE C
DEADSTART TEST SETUPS (CONTD)**

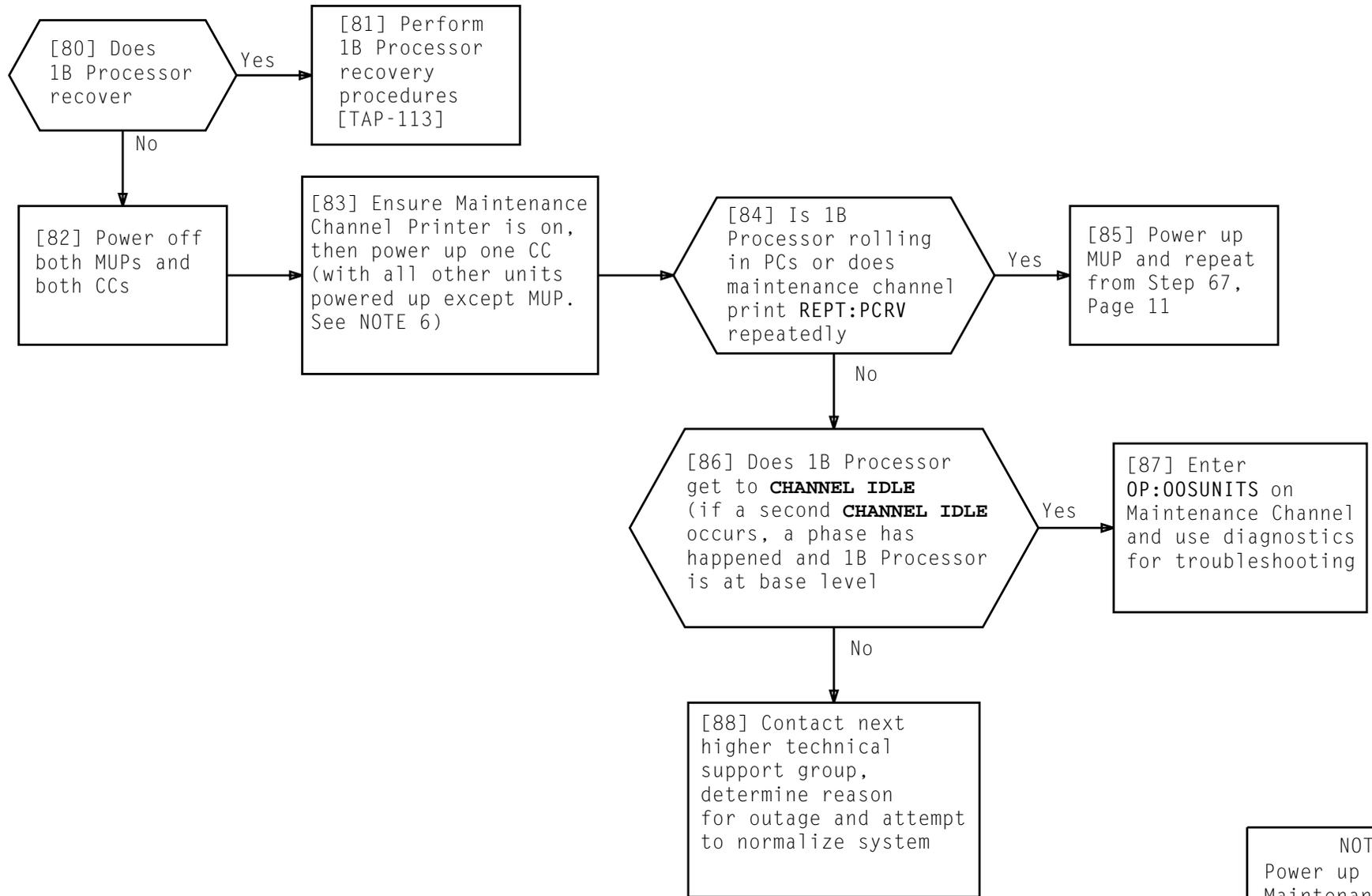
SETUP	TEST REQUIREMENT	EXPLANATION
Test 32 - TUC_WRIT	Setup:1,2,10,11 and 19 No inputs (NORM SR)	TUC_WRITE_REG reads registers in the DUC/TUC. This is a deadstart only routine. It is only run when NORM SR is set up on the MCC EAI page. No failure branch
Test 33 - TUC_READ	Setup:1,2,10 and 11 No inputs	TUC_READ_REG reads registers in the DUC/TUC. This is a deadstart only routine. It is only run when NORM SR is set up on the MCC EAI Page. No failure branch
Test 34 - AUFRTDMA	Setup:1,2,10,11 and 19 No inputs (NORM SR)	AUFRTDMA tests AUI DMA into Stores (Program). This test should be run with defaults. This is a deadstart only routine. Fails lock up in a tight deadstart loop, with started and finished bits both set in AC1BS2
Test 35 - AUFRAUIL	Setup:1,2,10 and 11 No inputs	AUFRAUIL tests AUI logic to the AUB. It puts the AUs in a troubled state and expects no replies. This test should be run with defaults. This is a deadstart only routine. Fails lock up in a tight deadstart loop with started and finished bits set in AC1BS2
Test 36 - AUFRAUIC	Setup:1,10,11 and 12 Input:BS3=api_base	AUFRAUIC tests AUI Control to the AUs. This test should be run with defaults. This is a deadstart only routine. Fails lock up in a tight deadstart loop with started and finished bits both set in AC1BS2
Test 37 - STATUS	No setup No inputs	LOOK_AT_STATUS reads status of error source registers. This is a deadstart only routine. No failure branch
Test 38 - PC_DISP	Setup:1,2 and 10 No inputs	PC_DISP does a one time page 120 display. The page 120 entries MUST be done BEFORE running the test if any page 120 output is needed. Same routine is used in normal Boot. No failure branch
Test 39 - PCRVFAIL	Setup:1 No inputs	PCRVFAIL displays failure data on the MCC EAI page. This is the last test automatically run with "All Tests." Same routine is used in normal Boot. No failure branch
Test 40 - 2K_PUMP	Setup:1,2,10,11 and 12 No inputs	GCP_BOOT2K_PUMP pumps in the PCRVPUMP file to 14020000 via a hardware GCP to the API. This is a deadstart only routine. No failure branch

**TABLE C
DEADSTART TEST SETUPS (CONTD)**

SETUP	TEST REQUIREMENT	EXPLANATION
Test 41 - SETBREAK	Setup:2 Input: BS0 = Breakpoint Address	Intended for use when memory is available. CANNOT work on Bootrom. Only the last breakpoint set can be cleared by CLEAR_BREAKPOINT. Multiple single address breakpoints can be set up with this test failure (This is usually used for Returns on J, J+1 and J+2.) The success leg is saved for last, so the breakpoint can be cleared. This is a deadstart only routine. There is no failure branch
Test 42 - CLRBREAK	Setup:2 and 41 No inputs	CLEAR_BREAKPOINT clears a breakpoint in memory. This only clears the last breakpoint set up with SET_BREAKPOINT. If no breakpoint is set up, it will destroy the memory location pointed to by AC1ASA. This is a deadstart only routine. There is no failure branch
Test 43 - READ_MEM	Setup:2 Input:BS0 = Start Address	READ_MEM_TO_REG reads memory into registers. Four locations are read starting from AC1BS0. Display is in F, G, J and K. This is a deadstart only routine
Test 44 - READ_MEM+	Setup:2 and 43 No inputs	READ_MEM_TO_REG_INCR reads memory into registers and increments the start pointer by 4. Reads 4 locations in memory starting at location from READ_MEM, then increments so the next read will be 4 locations higher. This is a deadstart only routine. There is no failure branch
Test 45 - AUIWRITE	Setup:1,10 and 11 Input: BS1=auiregister (offset) BS3=auidata (via map)	AUI_WRITE_REG writes registers in the AUI. It adds an offset from the AUI base address for the register location. This is a deadstart only routine. No failure branch
Test 46 - APIWRITE	Setup:1,10,11 and 12 Input: BS0=cmd(write=0) BS1=api_reg(esr=65) BS3=api_data BS4=api17604000	API_WRITE_REG writes registers in the API. Executes command from BS0 via F, with register Offset from BS1 (typically 65 for esr), and returns the register contents in Z. BS3=data for API register (via auireg), BS4=17600000 or API client. This is a deadstart only routine. No failure branch

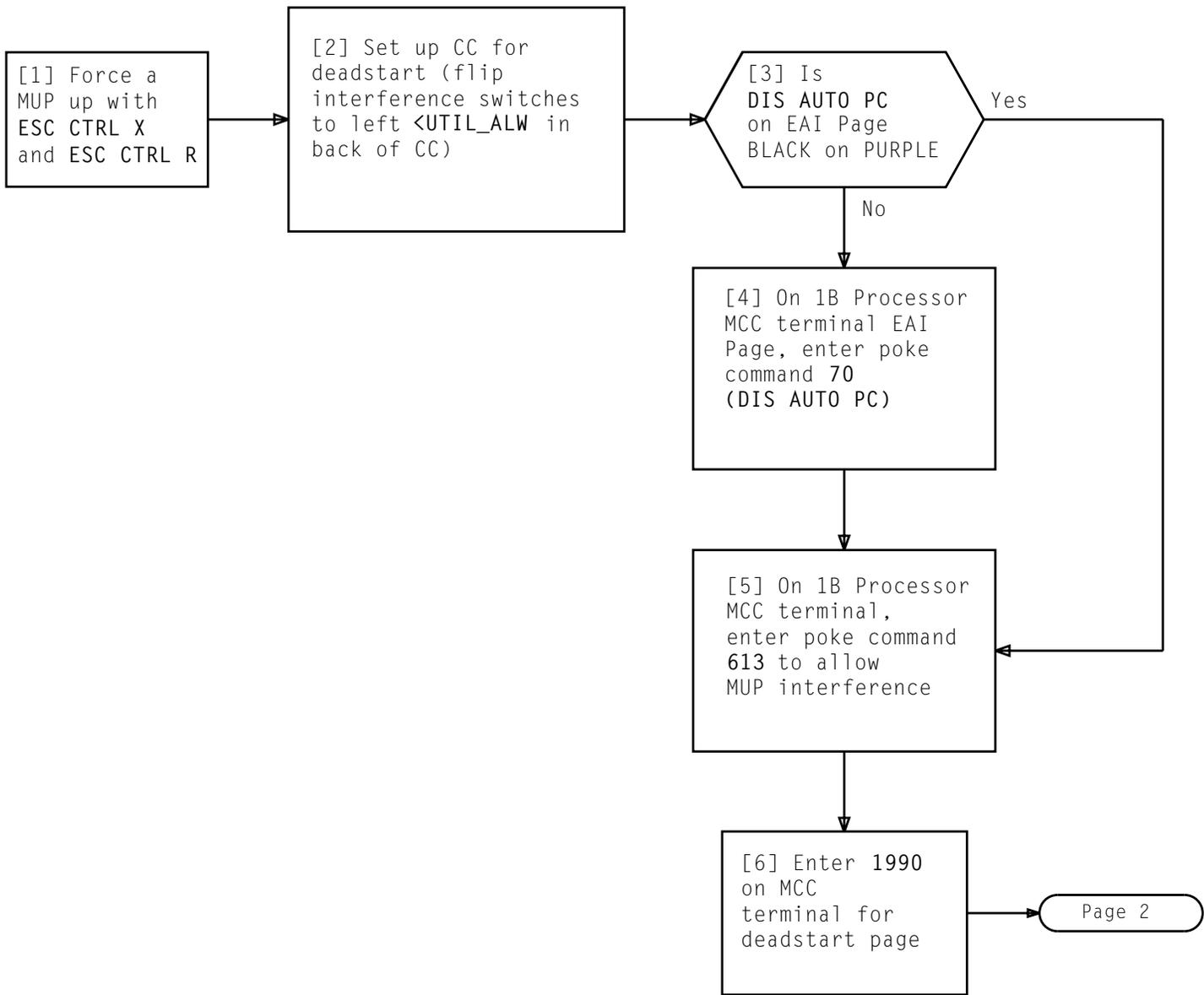
**TABLE C
DEADSTART TEST SETUPS (CONTD)**

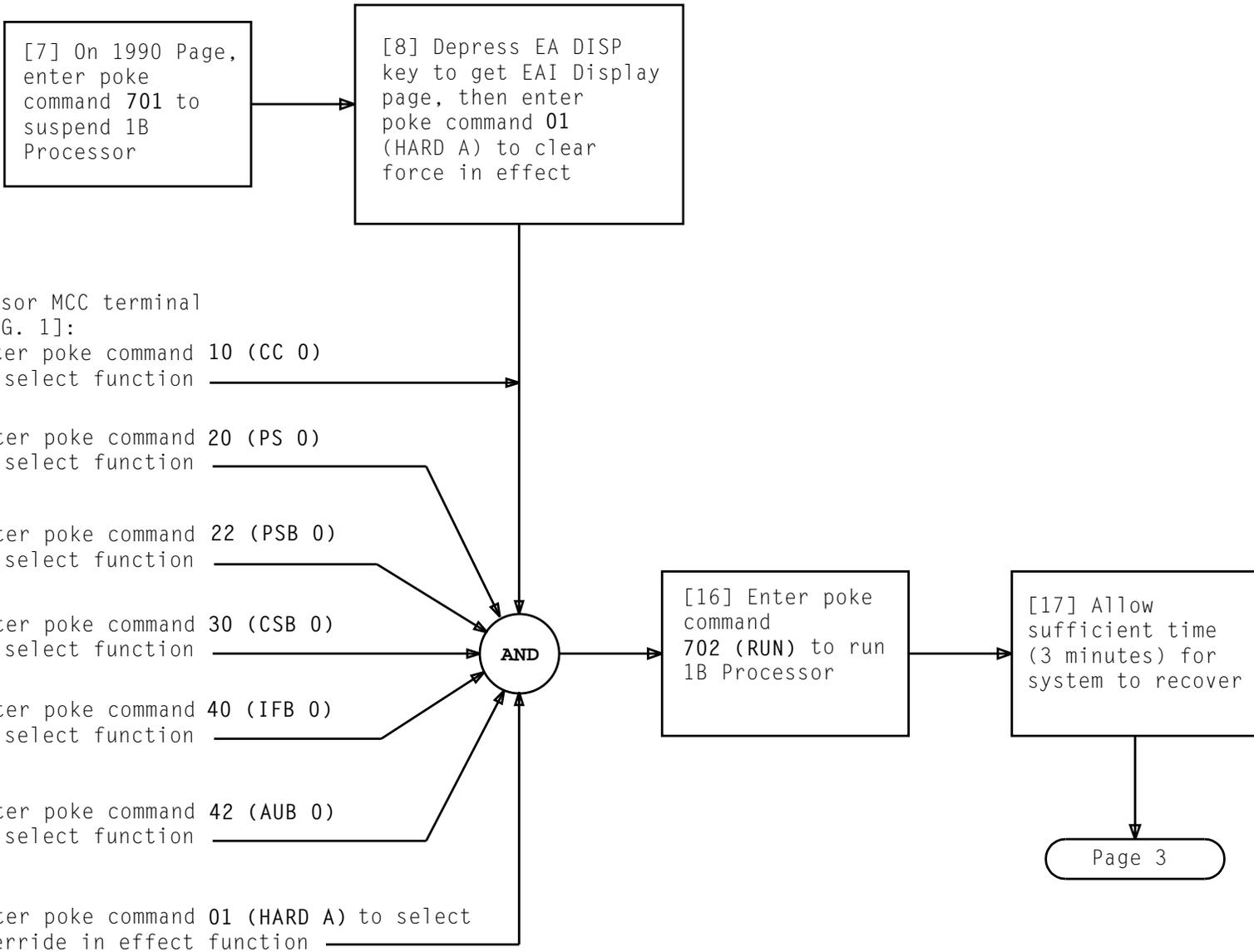
SETUP	TEST REQUIREMENT	EXPLANATION
Test 47 - IEPIFB	Setup:1 Input: BS3=FRL(command BS4=Y(device)	This is an infinite monitor loop (IEP or IEPIFB). It is recommended to rerun Test 1 after this test to assure the configuration setup in AC1BS5 is correct. IEPIFB is a program to test IFB clients and memory. It initializes the IFBC and IFB clients. It reads the FRL register in the IFBC to determine what test to run. This is a deadstart only routine. No failure branch
Test 48 - MUPREAD0	Setup:1,2 No inputs(ifbsetup 0)	IFBSETUP0 sets up MUP 0 to read and write 1B Processor memory. It works even if the other IFB is selected for the configuration. Use only after testing has proceeded to a fail point. This is a deadstart only routine. No failure branch
Test 49 - MUPREAD1	Setup:1 and 2 No inputs (ifbsetup 1)	IFBSETUP1 sets up the MUP to read and write 1B Processor memory. It works even if the other IFB is selected for the configuration. Use only after testing has proceeded to a fail point. This is a deadstart only routine. No failure branch
Test 50 - MABS CONTROL	Setup:1 Inputs: BS3=MABS_bit (1=set, 0=reset)	Setting MABS allows a Call Store address to be sent over the Program Store Bus (in case a PS was accidentally set to a CS address, for example, 0)



NOTE 6	
Power up MUP if Maintenance Channel Printer does not print	
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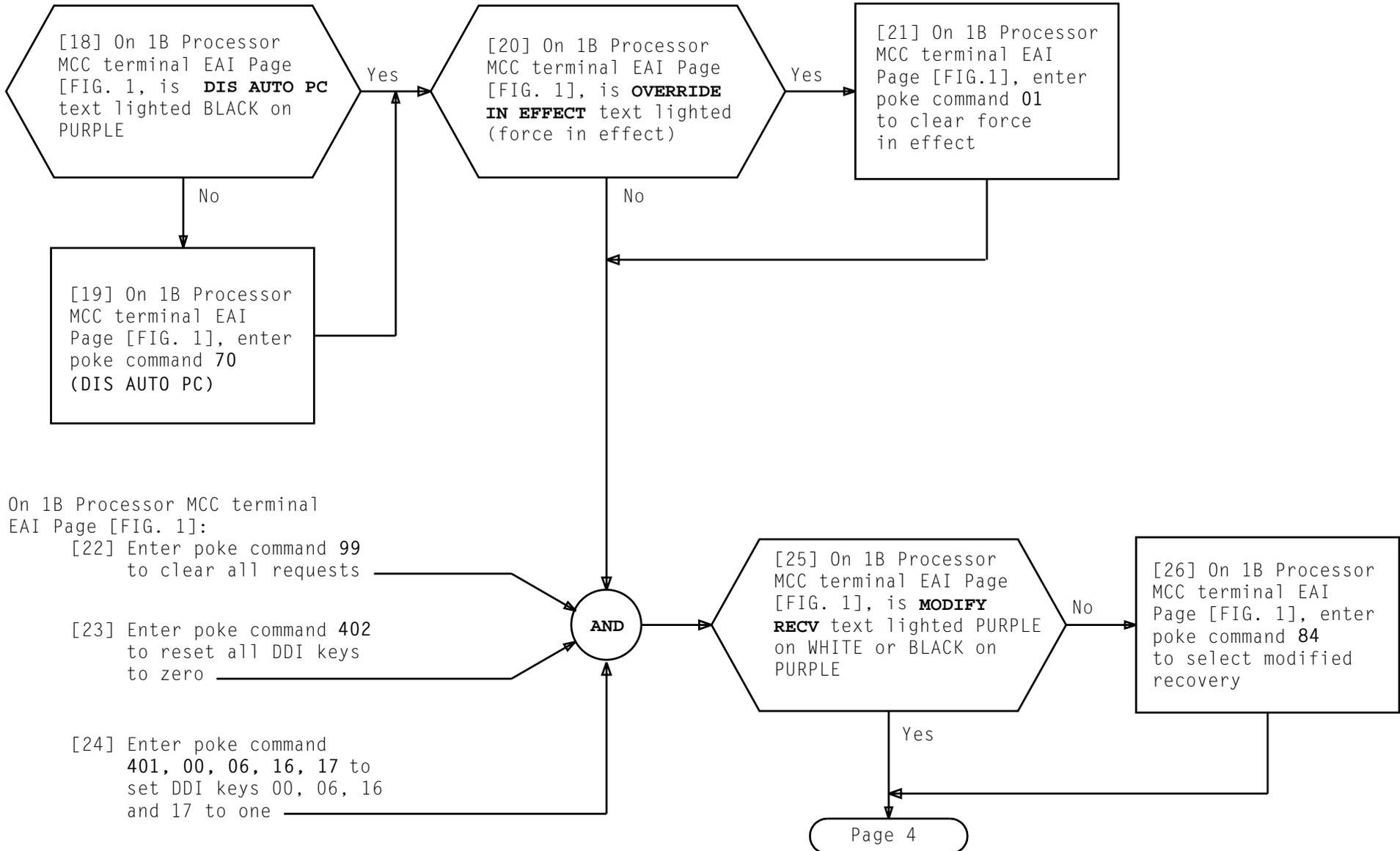
PERFORM 1B PROCESSOR DEADSTART





PERFORM CC SANITY CHECK

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PERFORM CC SANITY CHECK

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On 1B Processor MCC terminal

EAI Page [FIG. 1]:

[27] Enter poke command 11 (CC 1)
to select function

[28] Enter poke command 21 (PS 1)
to select function

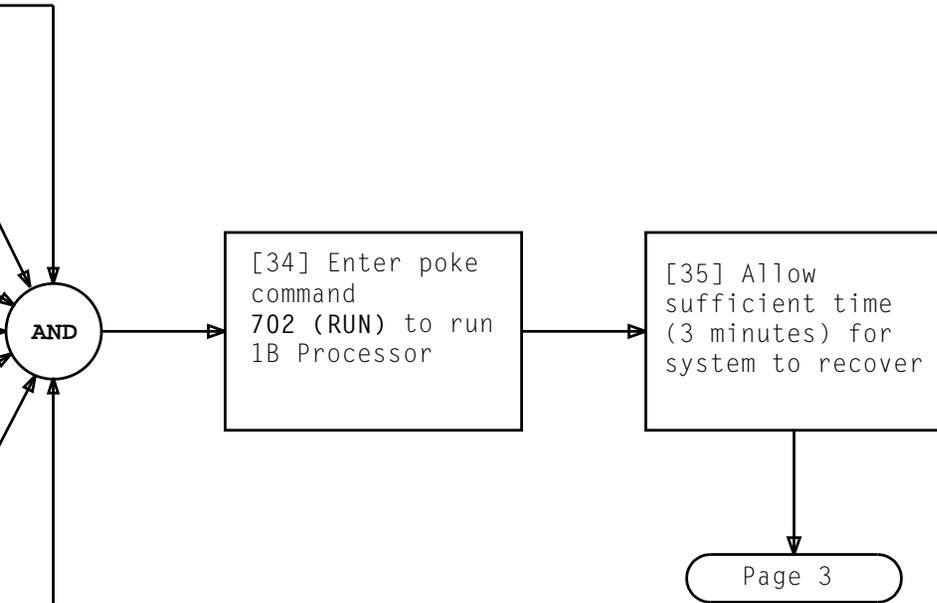
[29] Enter poke command 23 (PSB 1)
to select function

[30] Enter poke command 31 (CSB 1)
to select function

[31] Enter poke command 41 (IFB 1)
to select function

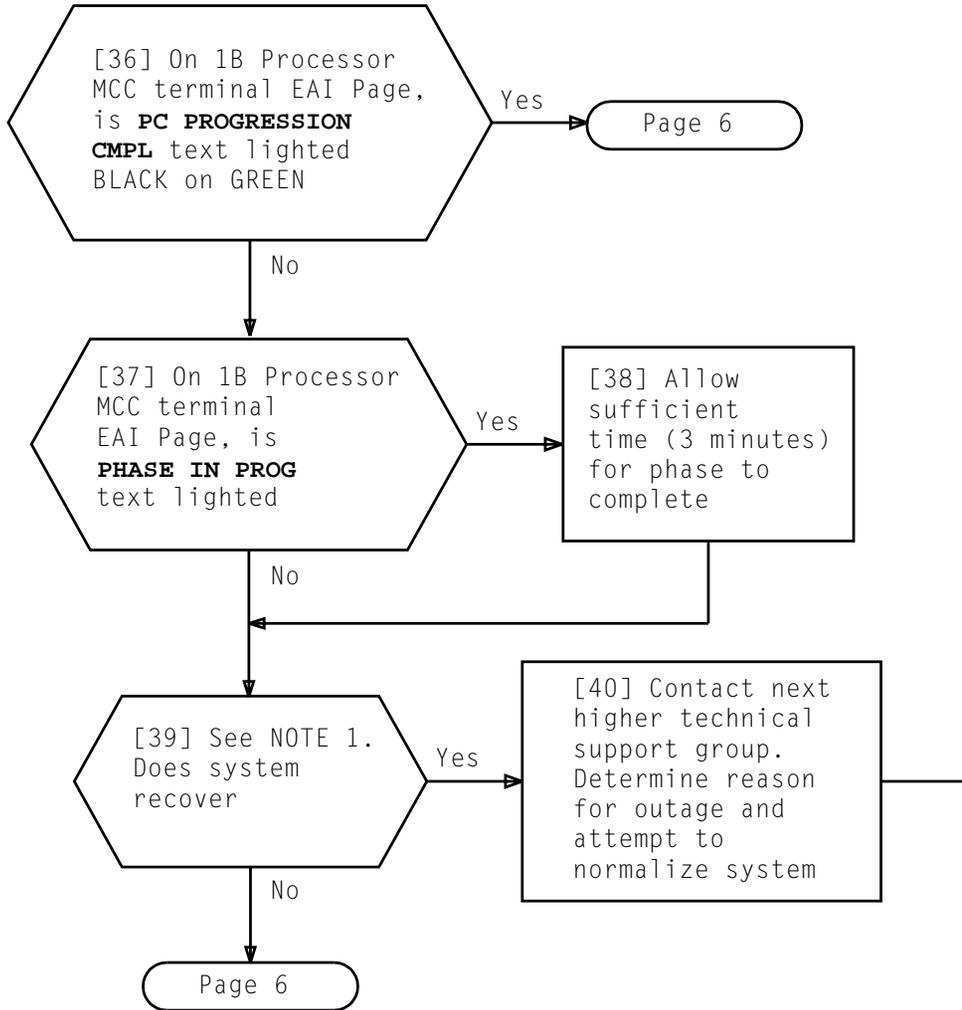
[32] Enter poke command 43 (AUB 1)
to select function

[33] Enter poke command 01 (HARD A) to select
override in effect function



PERFORM CC SANITY CHECK

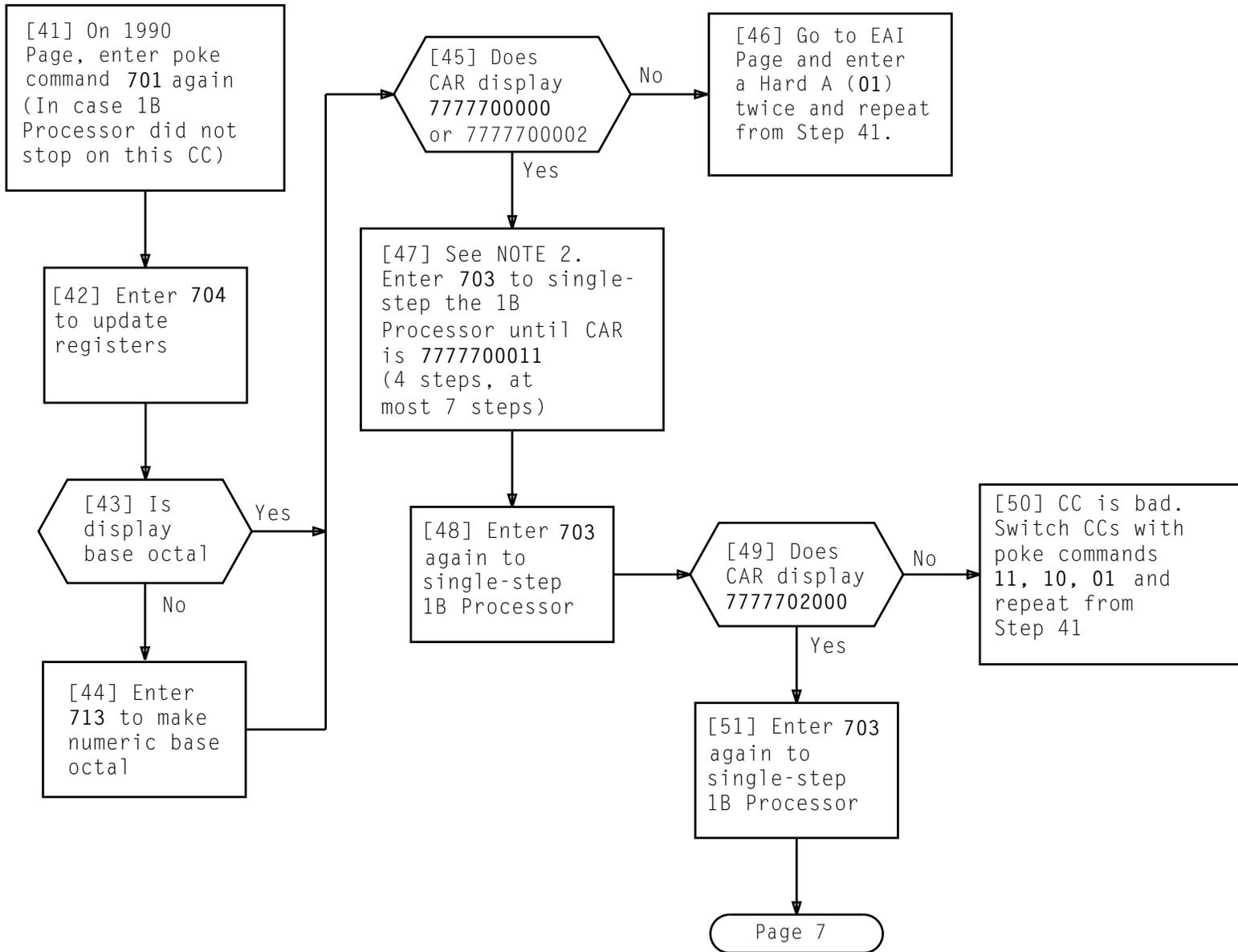
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NOTE 1
System has recovered if following conditions have been met:

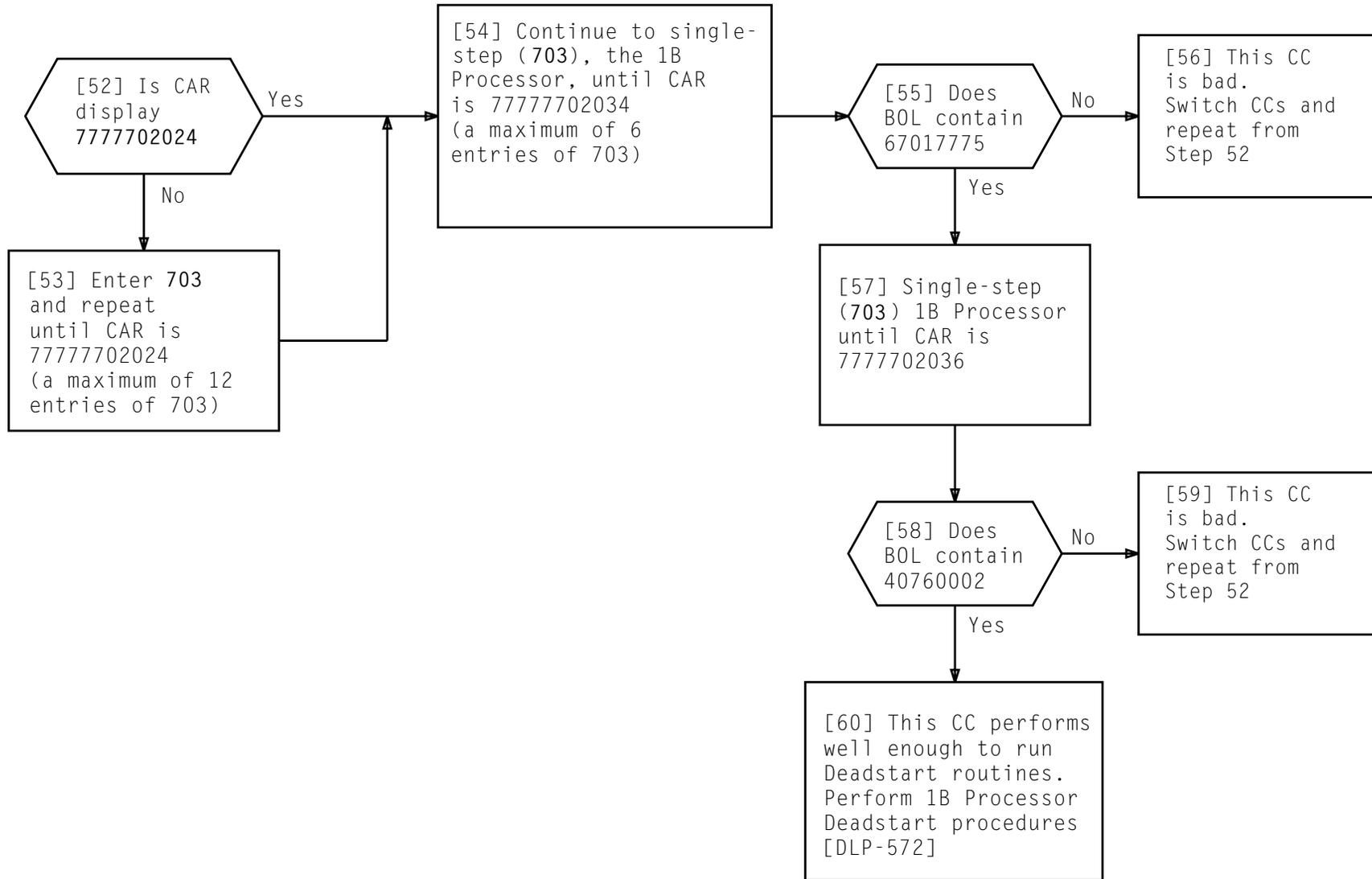
- A. On 1B Processor MCC terminal EAI Page under **PC PROGRESSION, CMPL** text is lighted BLACK on GREEN
- B. On 1B Processor MCC terminal EAI Page **PHASE IN PROG** text has not lighted in last few minutes
- C. On 1B Processor MCC terminal SYSTEM STATUS page under **SYSTEM ACTIVITY**, displayed data is normal for time of day (takes 3 minutes for data to be updated)
- D. Calls are being processed

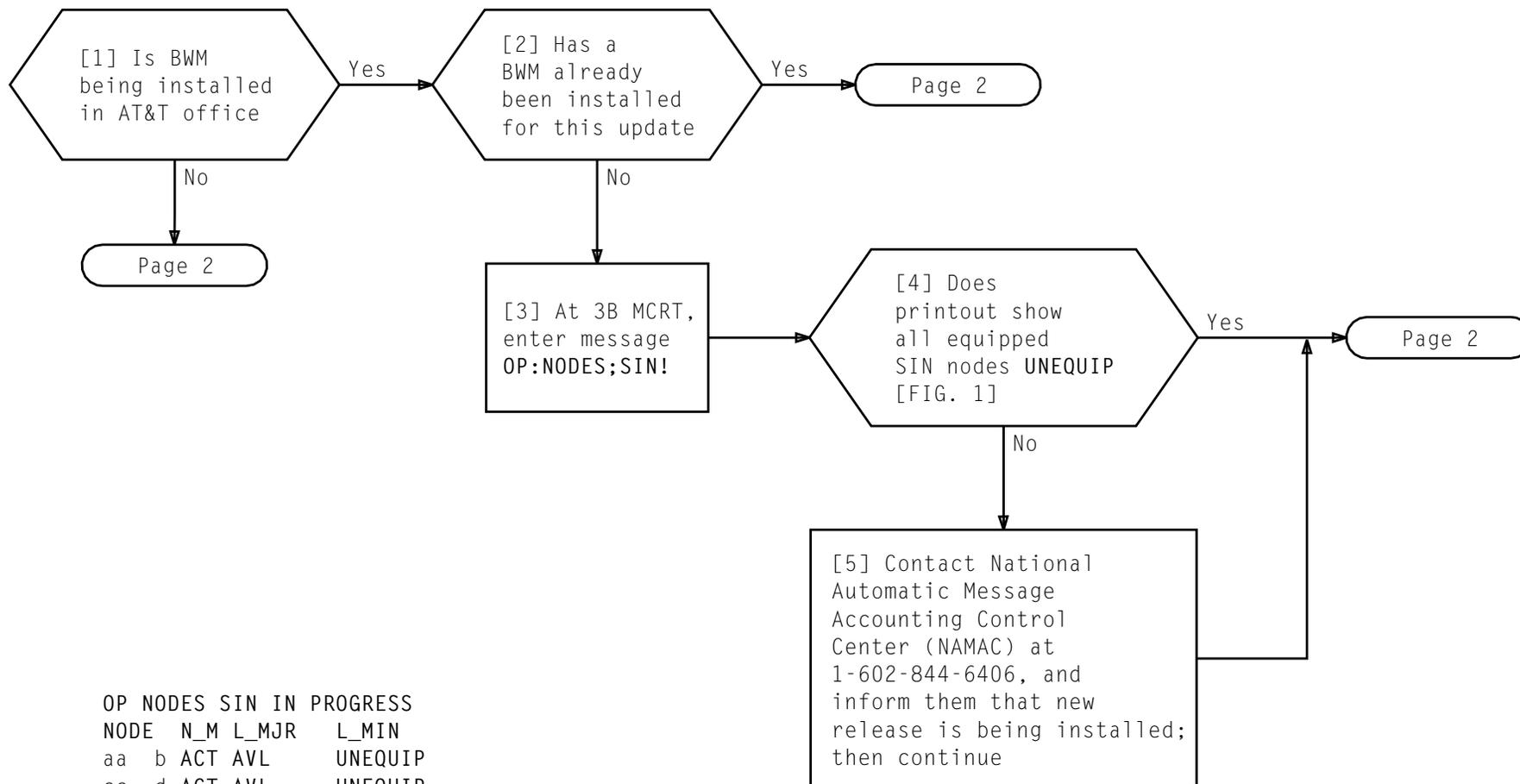
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NOTE 2
 After single-stepping (703), the 1B Processor CAR should be 1 or 2 above the previous CAR (0000 to 0002). If it jumps more than 2 (23), the CC is bad. Switch CCs and repeat procedure with full configuration (10 or 11). If CC is able to execute and fetch BOL, start using regular Deadstart procedures after doing Steps 41-60 in this procedure

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```

OP NODES SIN IN PROGRESS
NODE  N_M L_MJR  L_MIN
aa  b ACT AVL   UNEQUIP
cc  d ACT AVL   UNEQUIP
  
```

FIG. 1 - SIN Node Status Printout

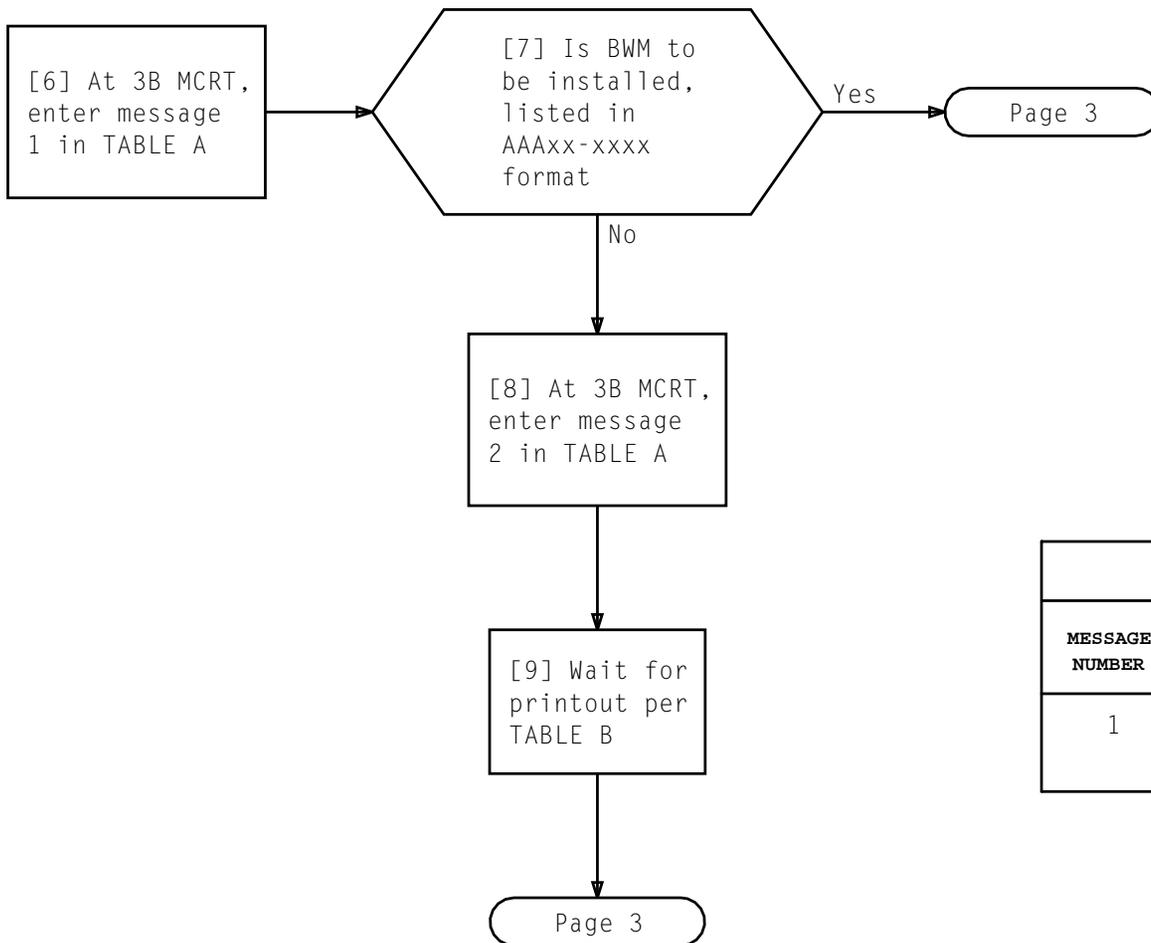


TABLE A	
MESSAGE NUMBER	INPUT MESSAGES
1	OP:STATUS:LISTDIR, FN"/etc/bwm"!
2	COPY:BWM xxxxxx!
xxxxxx = BWM, CFT, or DMT number to be installed	

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	MOVING /etc/bwm/xxxxxx TO /etc/bwm/AAAxx-xxxx COPY BWM COMPLETED

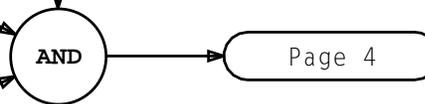
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[10] At 3B MCRT, press **NORM DISP (PF2)** key
and enter **1960** in command mode to obtain
display page 1960

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

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

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



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

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

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

AND

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

Yes

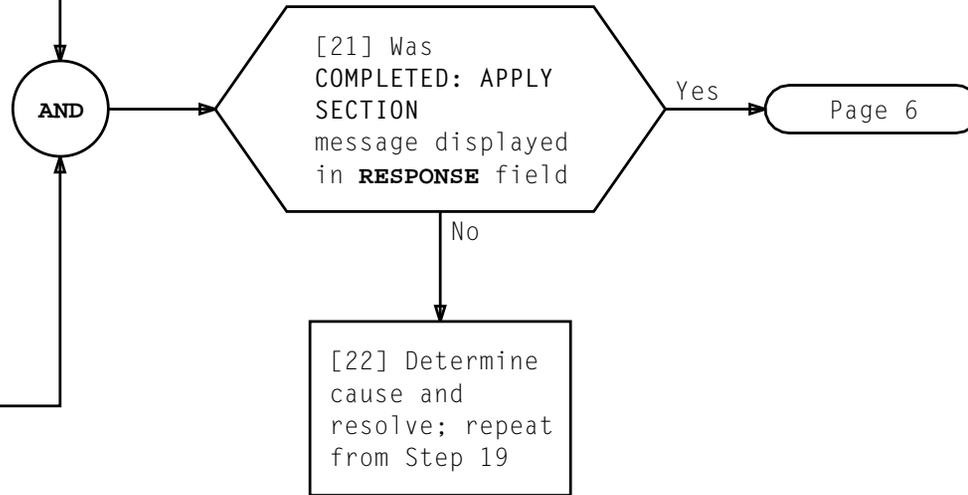
Page 5

No

[18] Determine cause and resolve; repeat from Step 14

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

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



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

[24] Wait for printout per FIG. 2, Page 7 to be received before continuing

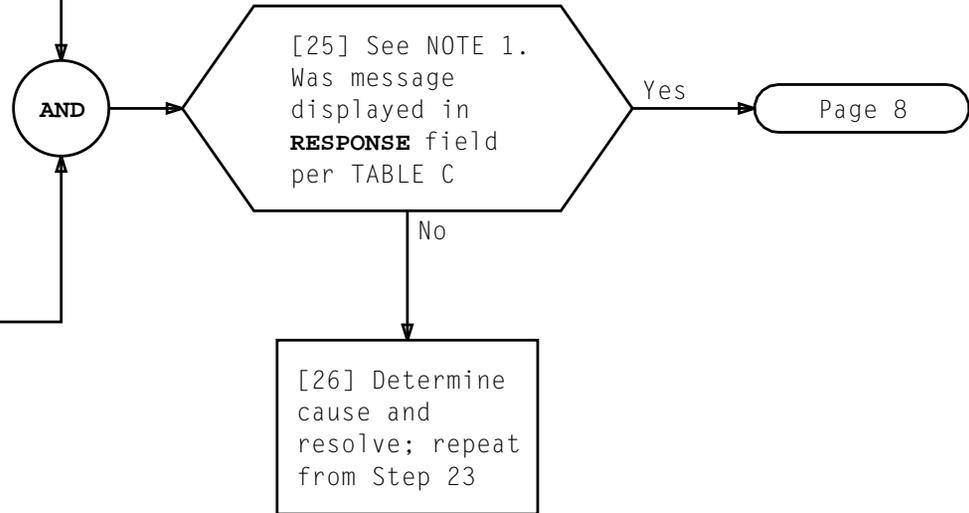


TABLE C	
MESSAGE NUMBER	OUTPUT MESSAGE
1	SOAK PERIOD COMPLETED: SOAK SECTION

NOTE 1	
The END field under CURRENT SOAK TIMER section (FIG. 2, Page 7) indicates the time response should be received	
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```

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

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

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

```

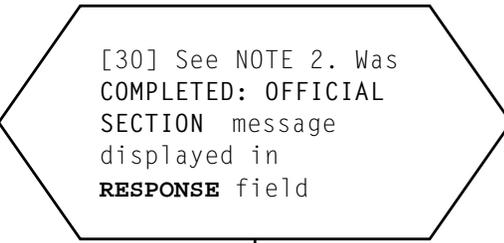
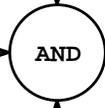
FIG. 2 – System Update Soak Printout

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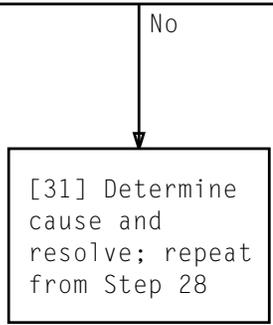
[27] Obtain printout saved in Step 12, Page 3 and determine if special instructions are required to be performed before executing OFC section

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

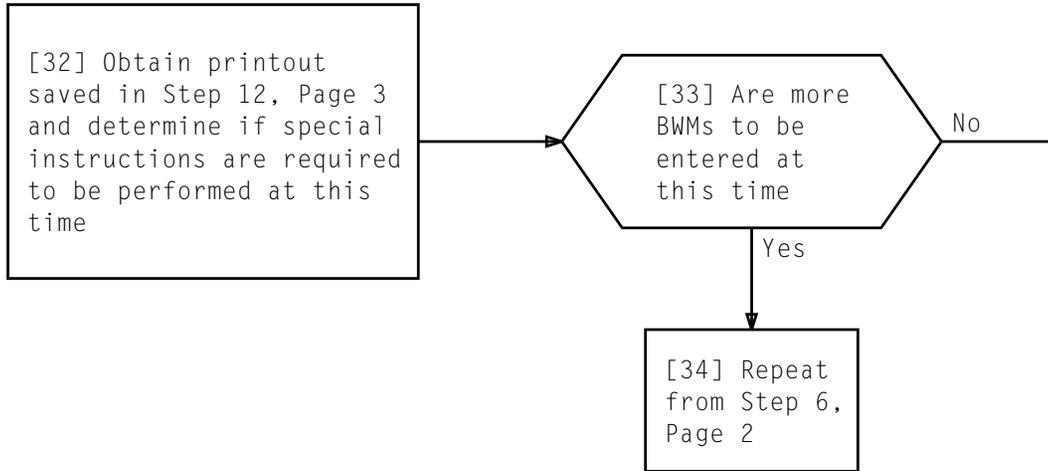
[29] Wait for COMPLETED message to be received in **RESPONSE** field



Yes → Page 9



NOTE 2	
Time to finish OFC section is dependent on BWM size	
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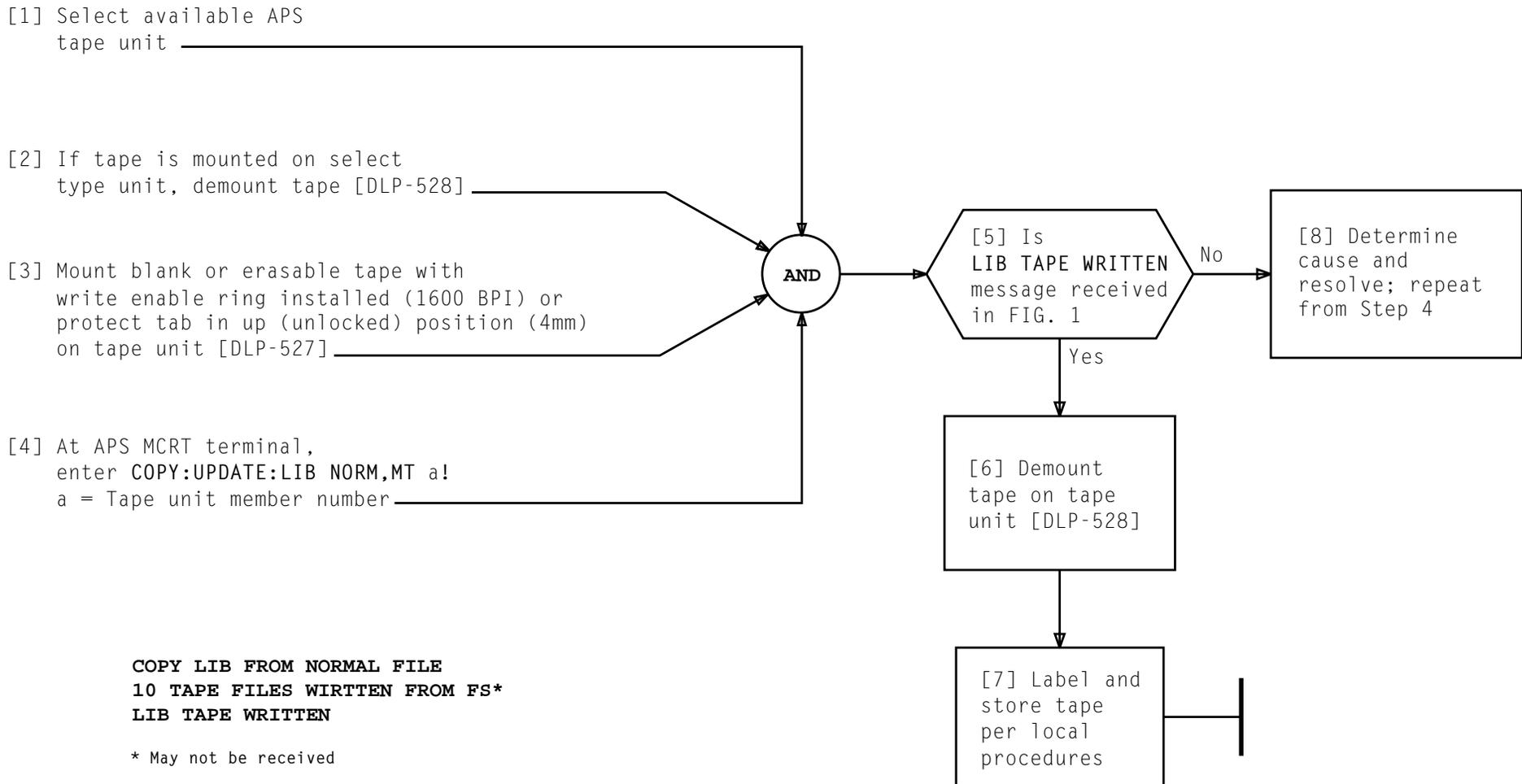
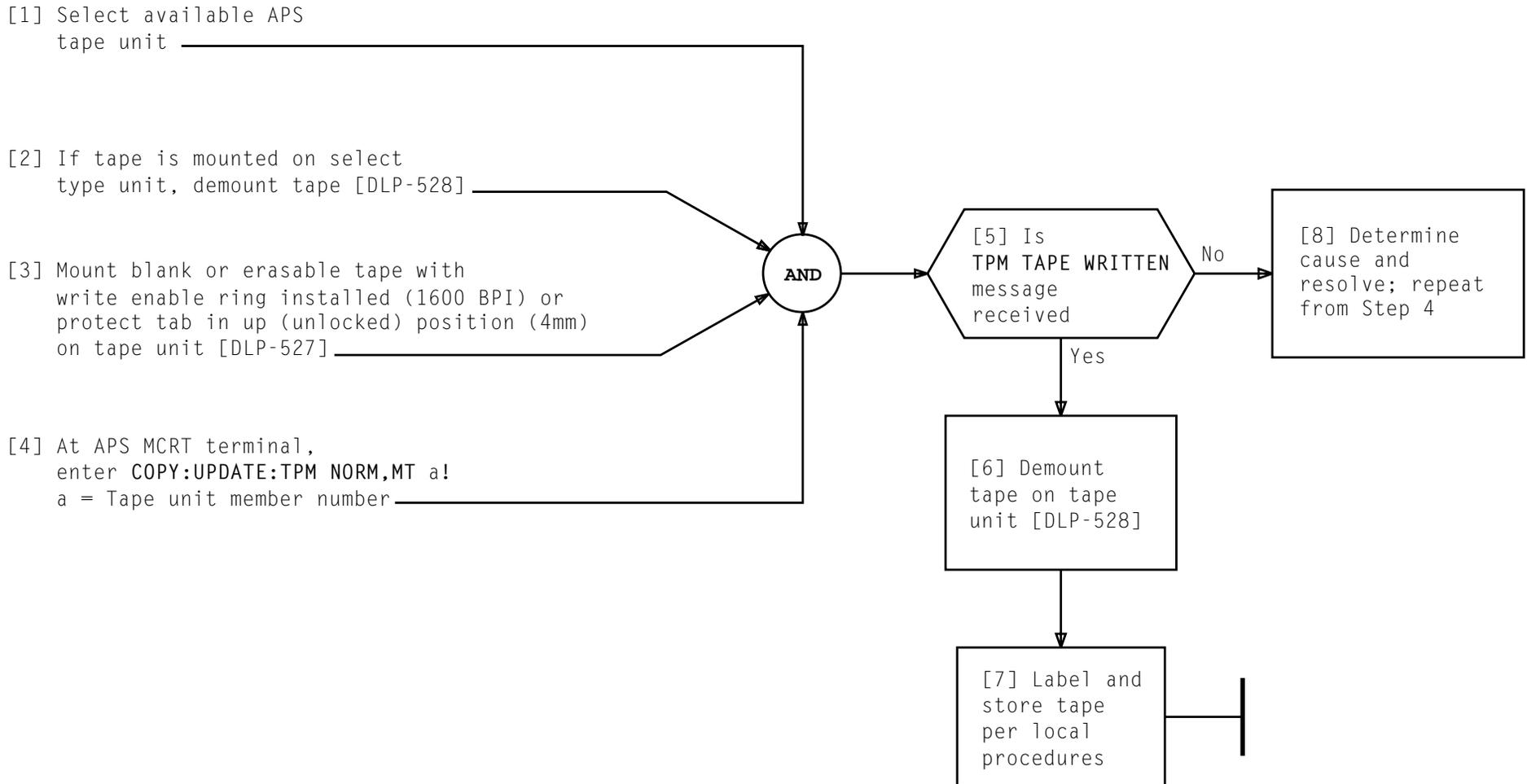


FIG. 1 - Sample of Library Tape Message



WRITE 1B PROCESSOR TRAFFIC AND PLANT MEASUREMENTS (TPM) TAPE

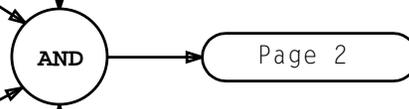
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[1] Select available
APS tape unit

[2] If tape is mounted on
selected tape unit,
demount tape [DLP-528]

[3] Mount blank or erasable tape with
write enable ring installed (1600 BPI) or
protect tab in up (locked) position (4mm)
on tape unit [DLP-527]

[4] At APS MCRT terminal, enter
COPY:APPTAPE:ERAP,MT a!
a = Tape unit member number



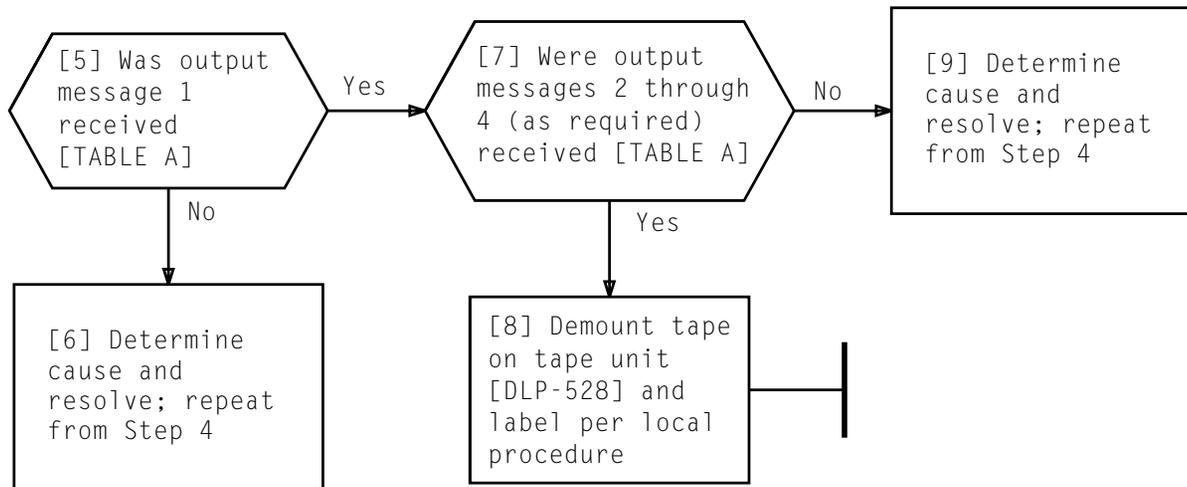


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE:ERAP,WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
aaaaaaaaa = Starting ERAP address bbbbbbbb = Ending ERAP address mm/dd/yy hh:mm = Month/day/year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

[1] If tape is mounted on available tape unit, demount tape [DLP-528]

[2] Mount ERAP tape on available APS tape unit [DLP-527]

[3] See NOTE 1. At APS MCRT terminal, enter
LOAD:APPTAPE:ERAP,MT a!
a = Tape unit member number with ERAP tape mounted

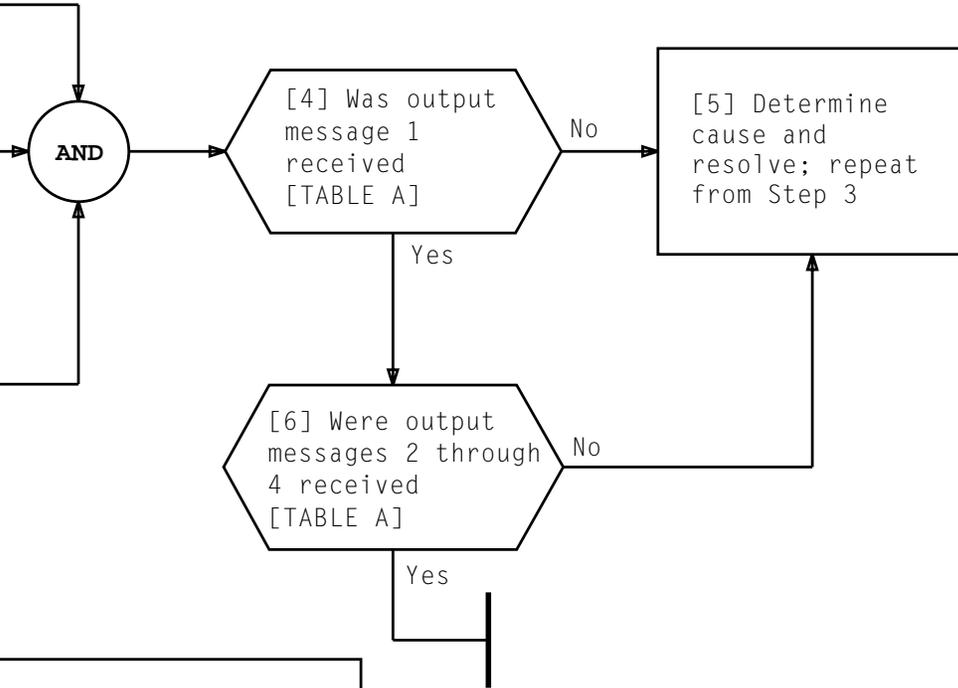


TABLE A LTS TAPE LOADING OUTPUT MESSAGES	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: ERAP, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = Month/day/year hour:minute tape was written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

NOTE 1 Loading of ERAP tape must be initiated during 7-minute window beginning 4 minutes past any quarter hour. If LOAD message is not entered during this window, a repeat later (RL) response will be received	
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[1] If tape is mounted on
idle tape unit, demount
tape [DLP-528]

[2] Mount TLP tape on
tape unit [DLP-527]

[3] At 3B MCRT, enter message
VER;UPDATE:TAPE,MT a
a = Tape unit number

[4] Record Generic
information

[5] At 3B MCRT, enter message
LOAD:TLP;GEN a;MT b!
a = Generic number
b = Magnetic tape number

AND

[6] Was
TLP JOB COMPLETED
message received

No

[7] At 3B MCRT, note
error printout,
determine cause
and resolve;
repeat from Step 1

Yes

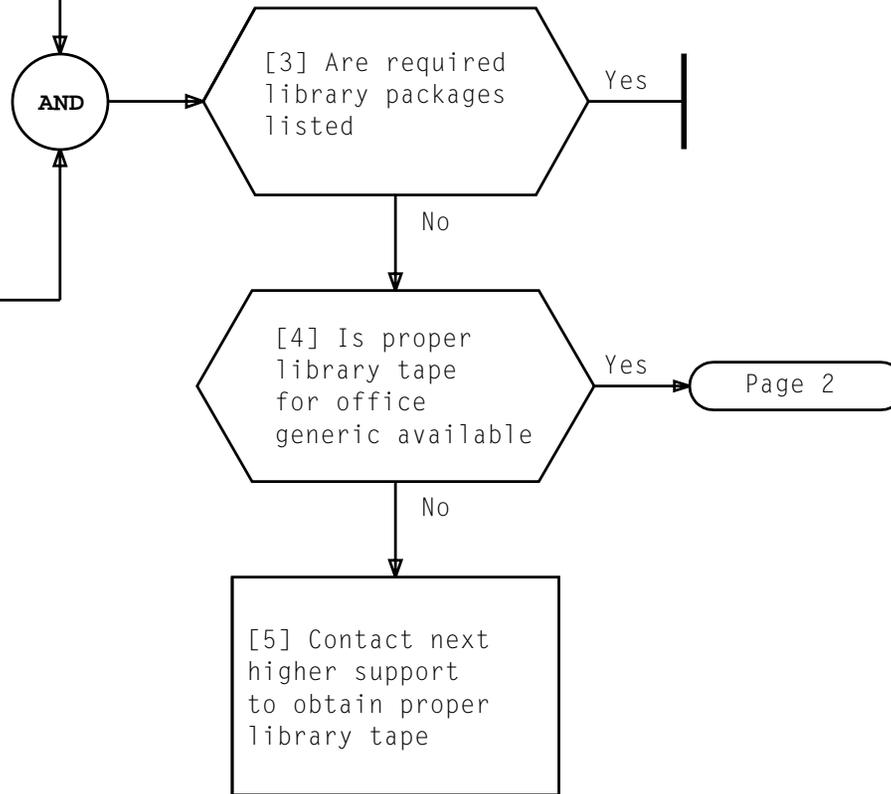
[8] Demount tape
from tape unit
[DLP-528] and
store per local
practice

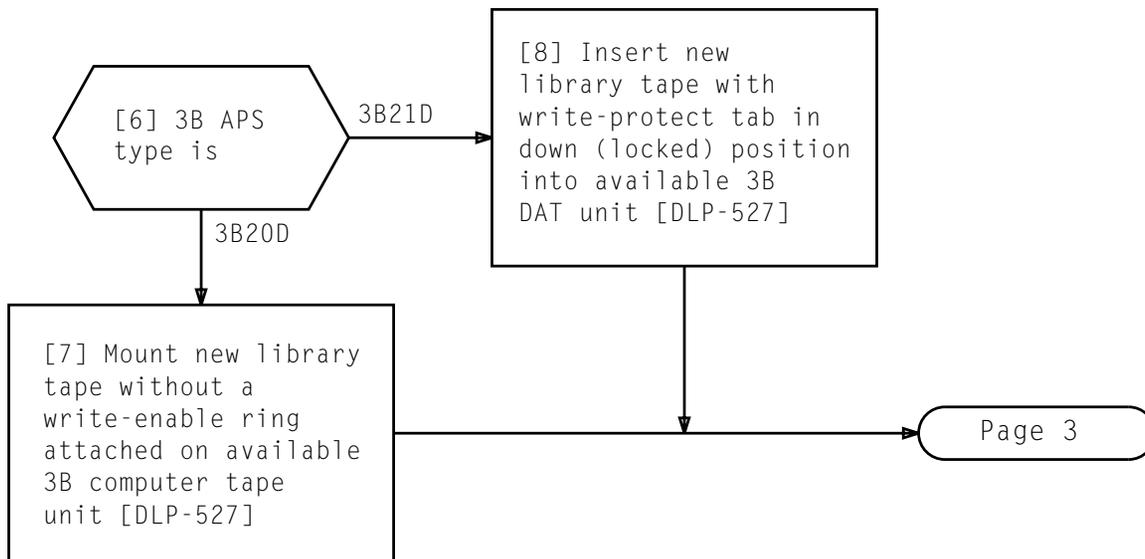
LOAD NEW TLP FROM TAPE ONTO DISK

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

[2] Using printout,
determine if
required library
packages are
listed





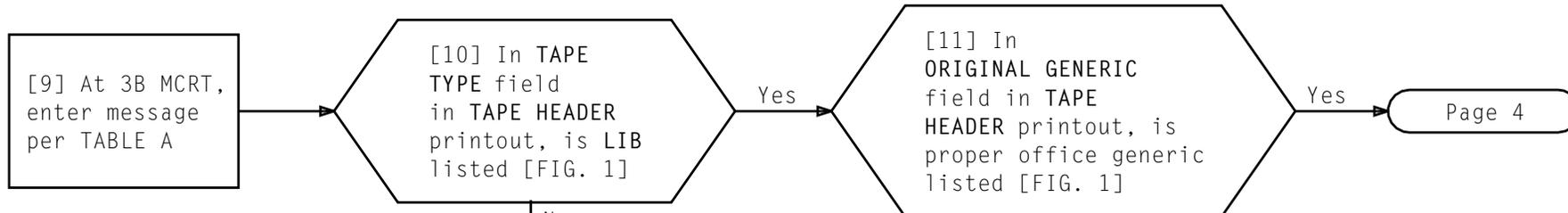


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	VER:UPDATE:TAPE,MT a
a = Tape unit number that library tape is mounted	

[12] Demount tape [DLP-528] and mount proper library tape [DLP-527] repeat from Step 9

THIS VALUE MUST BE SAME AS GENERIC OFFICE IS RUNNING ON

TAPE HEADER

TAPE TYPE: LIB

ORIGINAL GENERIC 4E<(xx)>5A.00 R1

MOST RECENT OFL GENERATION:

THIS TAPE WRITTEN:

FS IDS:

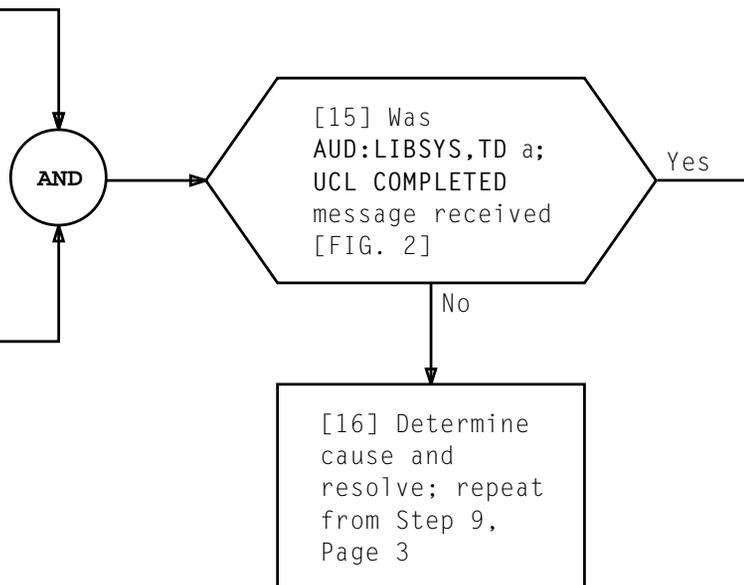
PARTL UPD FLG:

FIG. 1 - Example of TAPE HEADER Printout

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[13] At 1B MTC terminal,
 enter message
 AUD:LIBSYS,TD a;UCL!
 a = Tape unit number
 that library tape
 is mounted

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



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

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

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

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

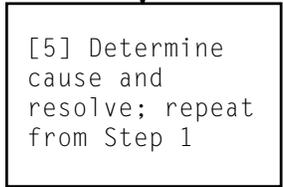
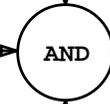
AUD:LIBSYS,TD a;UCL COMPLETED

FIG. 2 - Load Library Printout

[1] Mount original library tape
on available APS tape unit
[DLP-527]

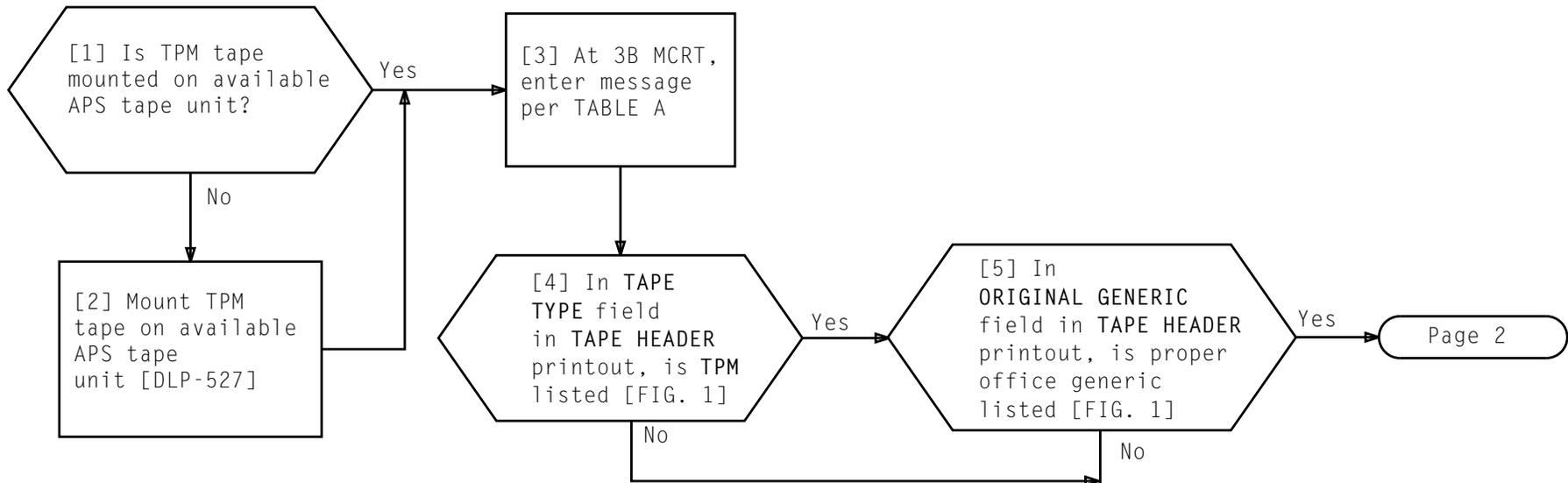
[2] At 1B MTC terminal, enter message
LOAD:LIBSYS,FS;TAPE:TD a!
(a = tape unit with library tape
mounted)

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



LOAD LIBRARY PROGRAM PACKAGES FROM ORIGINAL TAPE ONTO DISK

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THIS VALUE MUST BE SAME AS GENERIC OFFICE IS RUNNING ON

```

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

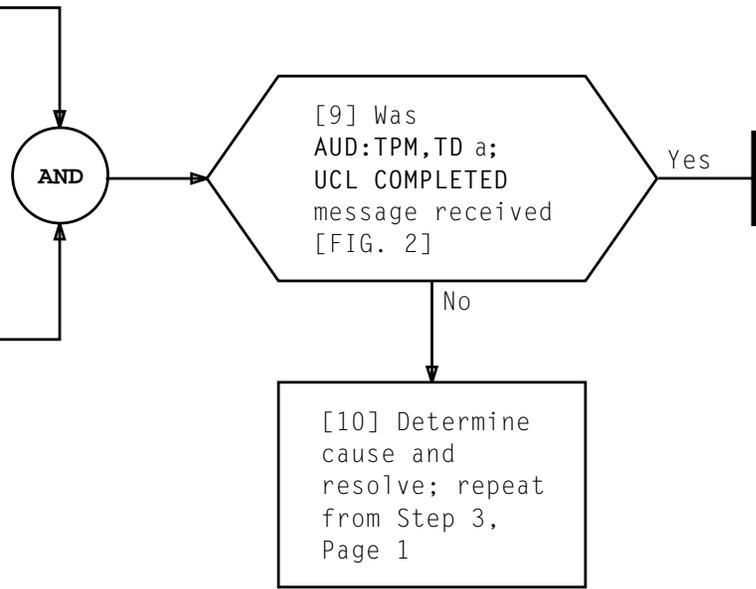
FIG. 1 - Example of TAPE HEADER Printout

[6] Demount tape [DLP-528] and mount proper TPM tape [DLP-527]; repeat from Step 3

TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	VER:UPDATE:TAPE,MT a
a = Tape unit number that TPM tape is mounted	

[7] At 1B MTC terminal,
 enter message
AUD:TPM,TD a;UCL!
 a = Tape unit number
 where TPM tape
 is mounted

[8] At 1B MTC terminal,
 follow loading
 process per FIG. 2



```

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

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

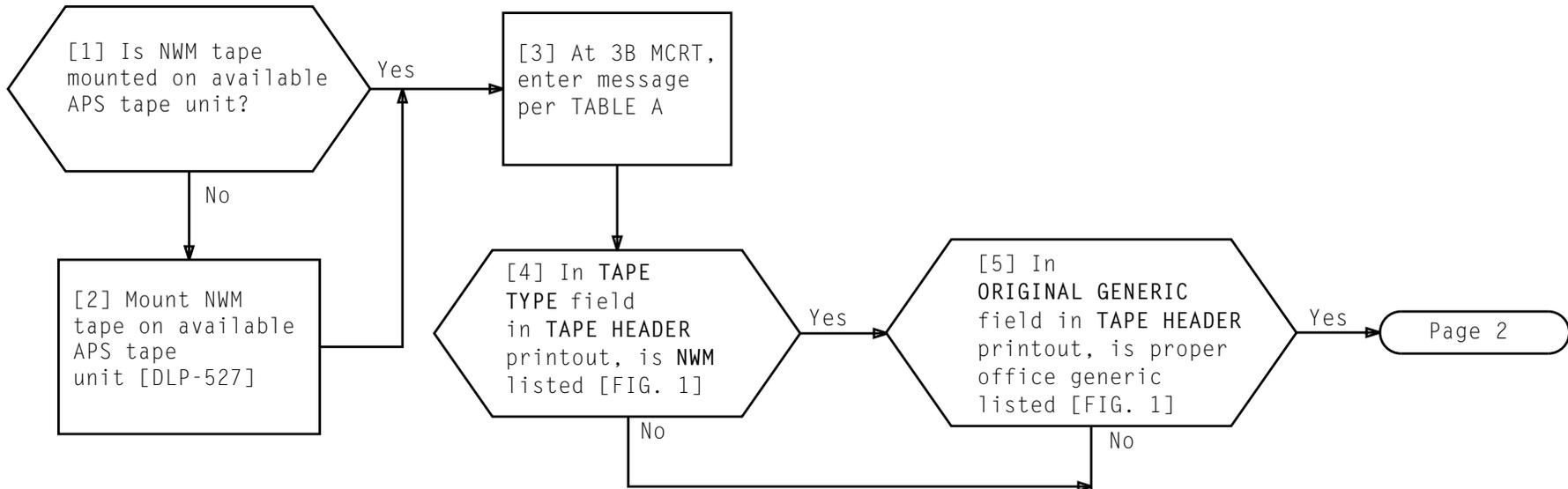
  AUD:TPM,TD a;UCL IN PROGRESS
  0 ERROR(S) IN SEGPRTS MAP DETECTED

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

  AUD:TPM,TD a;UCL COMPLETED
  
```

FIG. 2 - Load TPM Printout

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THIS VALUE MUST BE SAME AS GENERIC OFFICE IS RUNNING ON

```

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

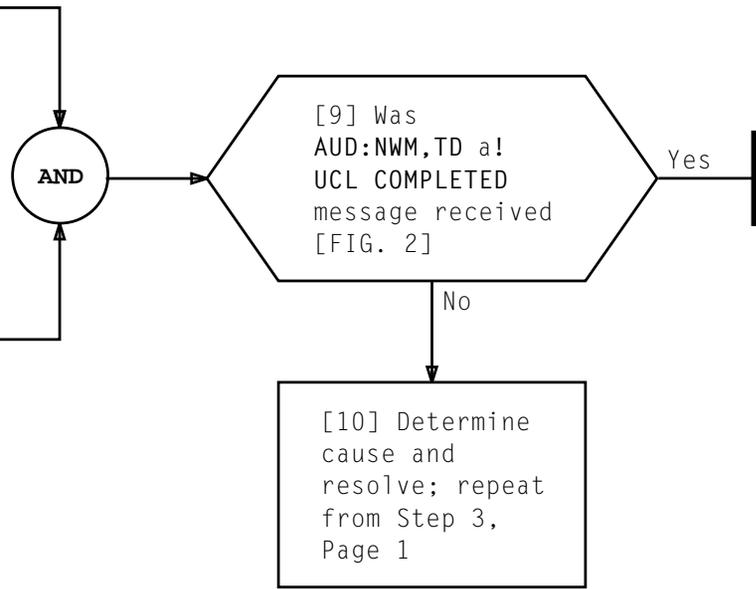
FIG. 1 - Example of TAPE HEADER Printout

[6] Demount tape [DLP-528] and mount proper Network Management tape [DLP-527]; repeat from Step 3

TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	VER:UPDATE:TAPE,MT a
a = Tape unit number where Network Management tape is mounted	

[7] At 1B MTC terminal,
 enter message
AUD:NWM,TD a;UCL!
 a = Tape unit number
 where NWM tape
 is mounted

[8] At 1B MTC terminal,
 follow loading
 process per FIG. 2



```

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

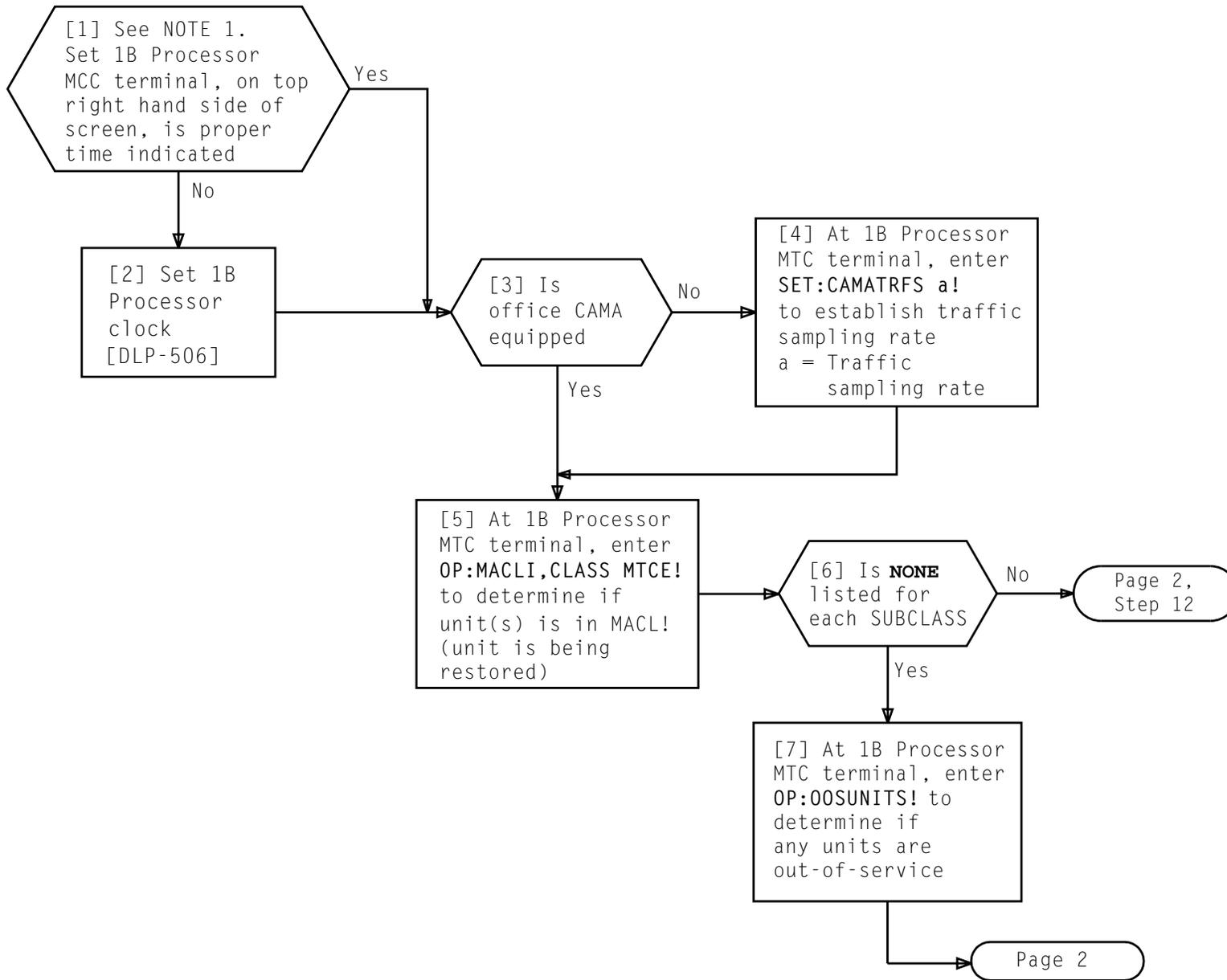
  AUD:NWM,TD a;UCL IN PROGRESS
  0 ERROR(S) IN ID2SEG MAP DETECTED

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

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

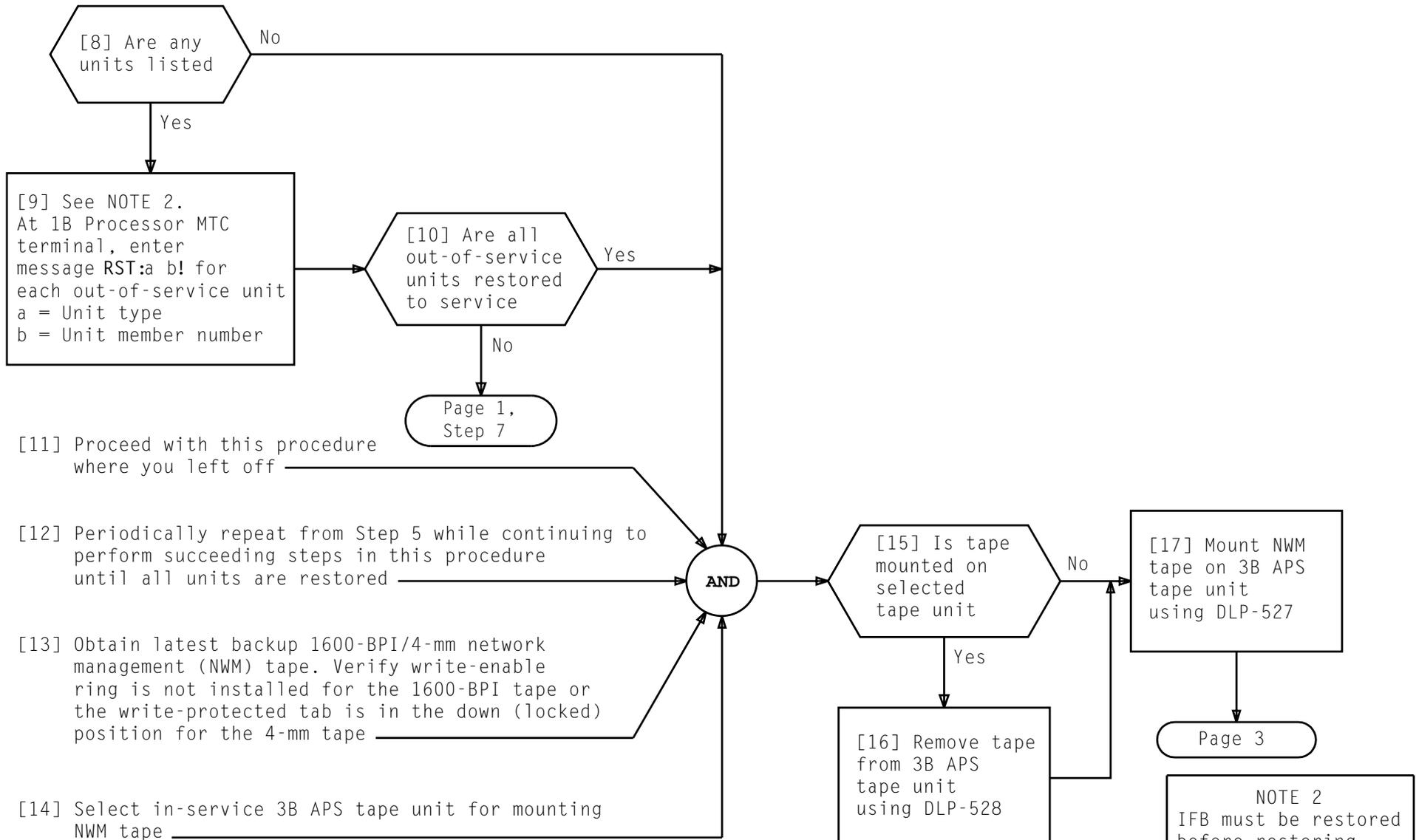
  AUD:NWM,TD a;UCL COMPLETED
  
```

FIG. 2 - Sample of NWM Printout



NOTE 1	
Notify technical support and ensure system sanity is at a safe point where system conditions can be restored	
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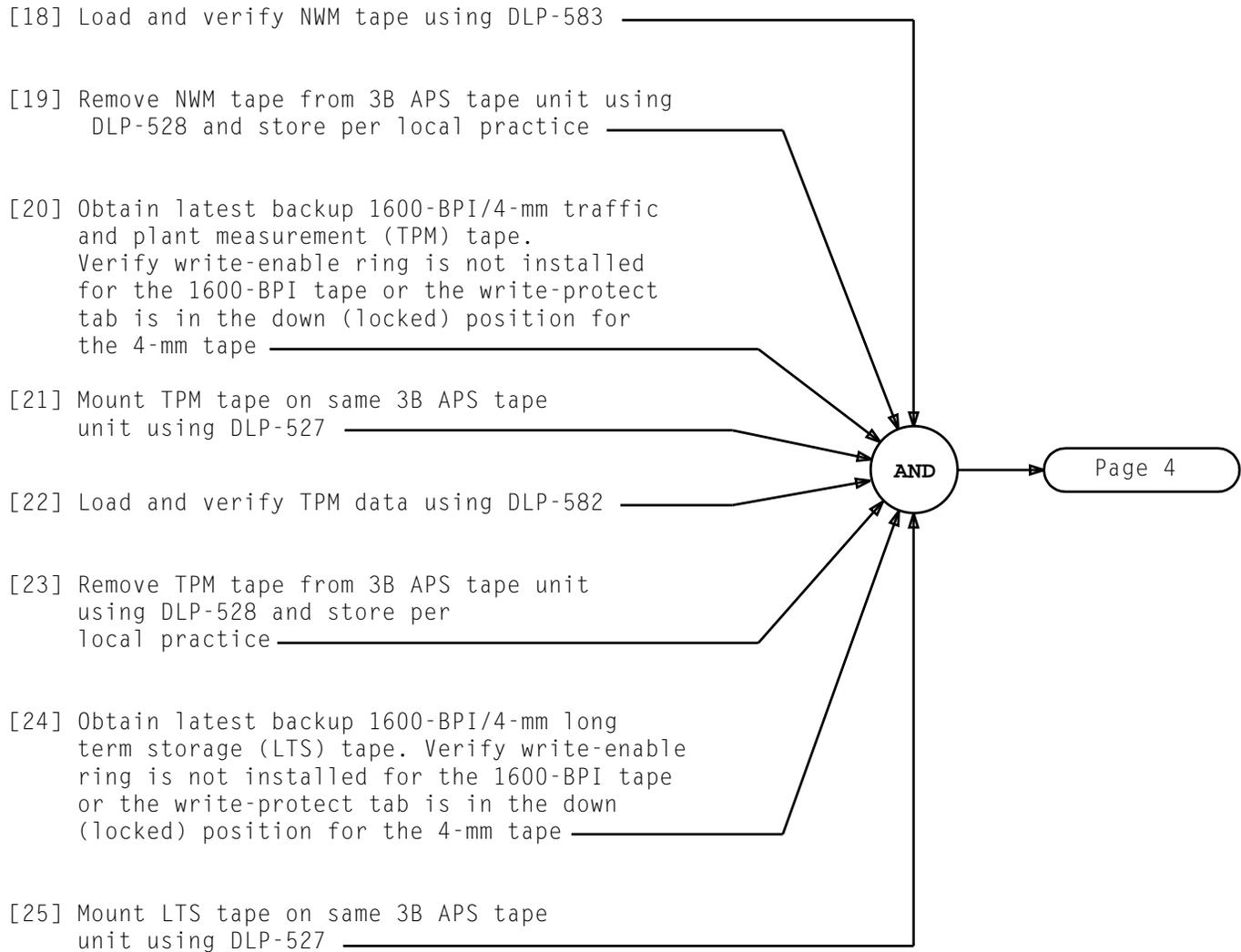
RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR) USING TAPES



NOTE 2
 IFB must be restored before restoring MUP, AUI, or SSD units

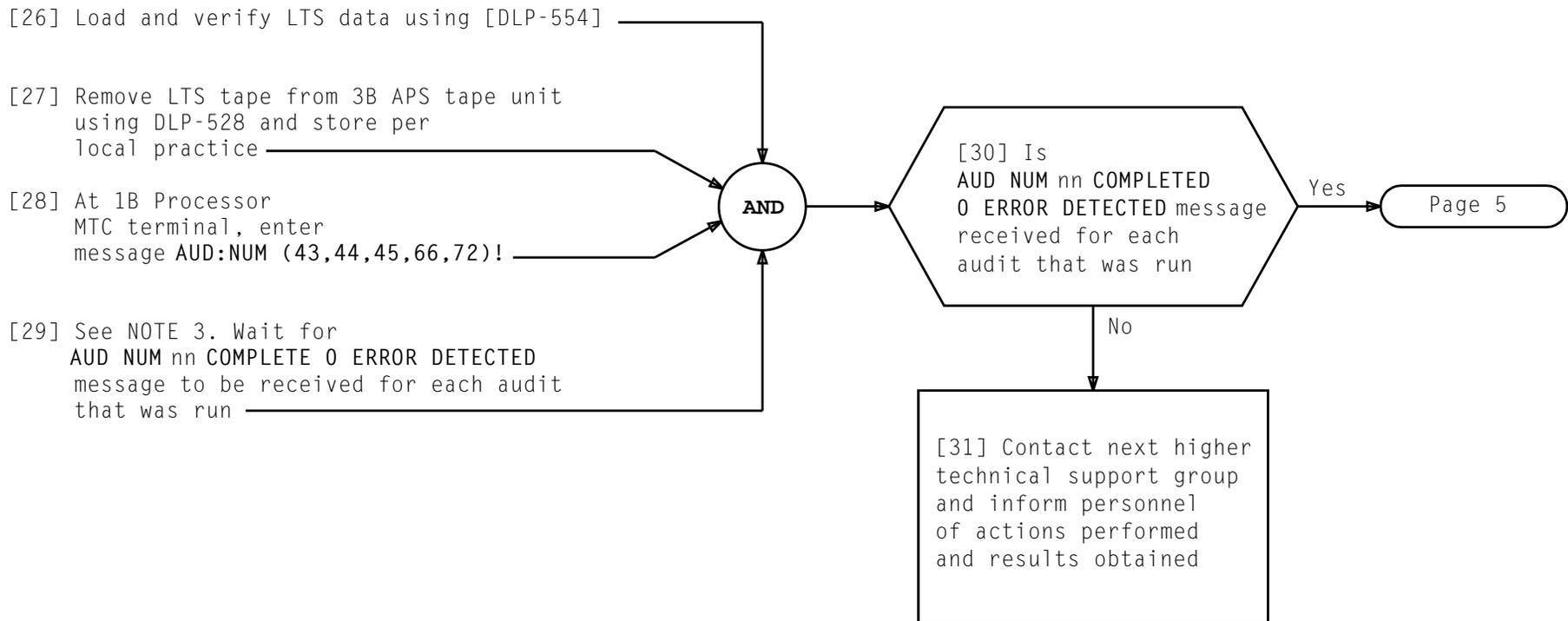
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RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR) USING TAPES



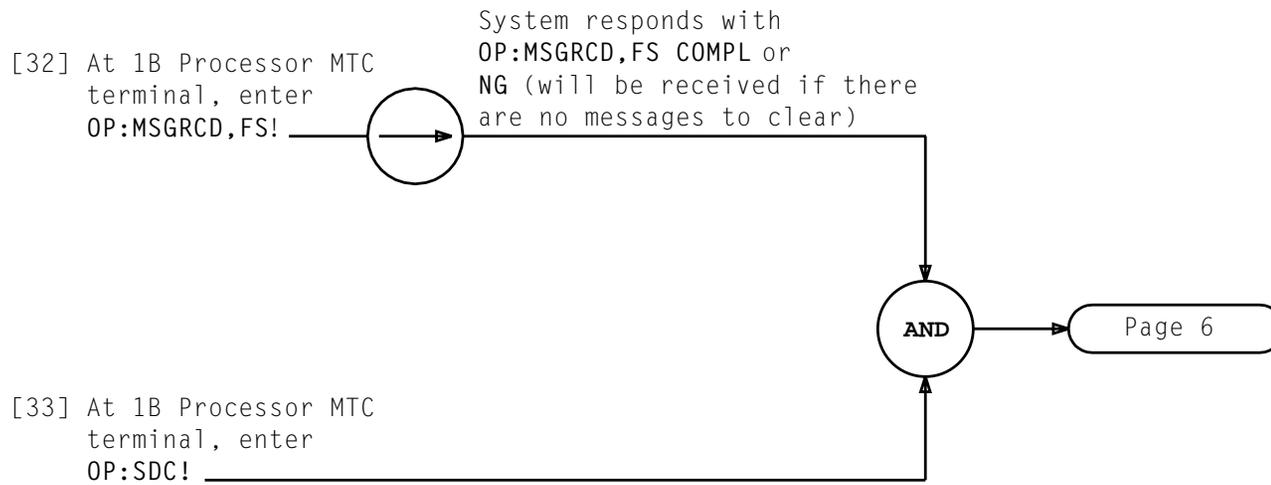
RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR) USING TAPES

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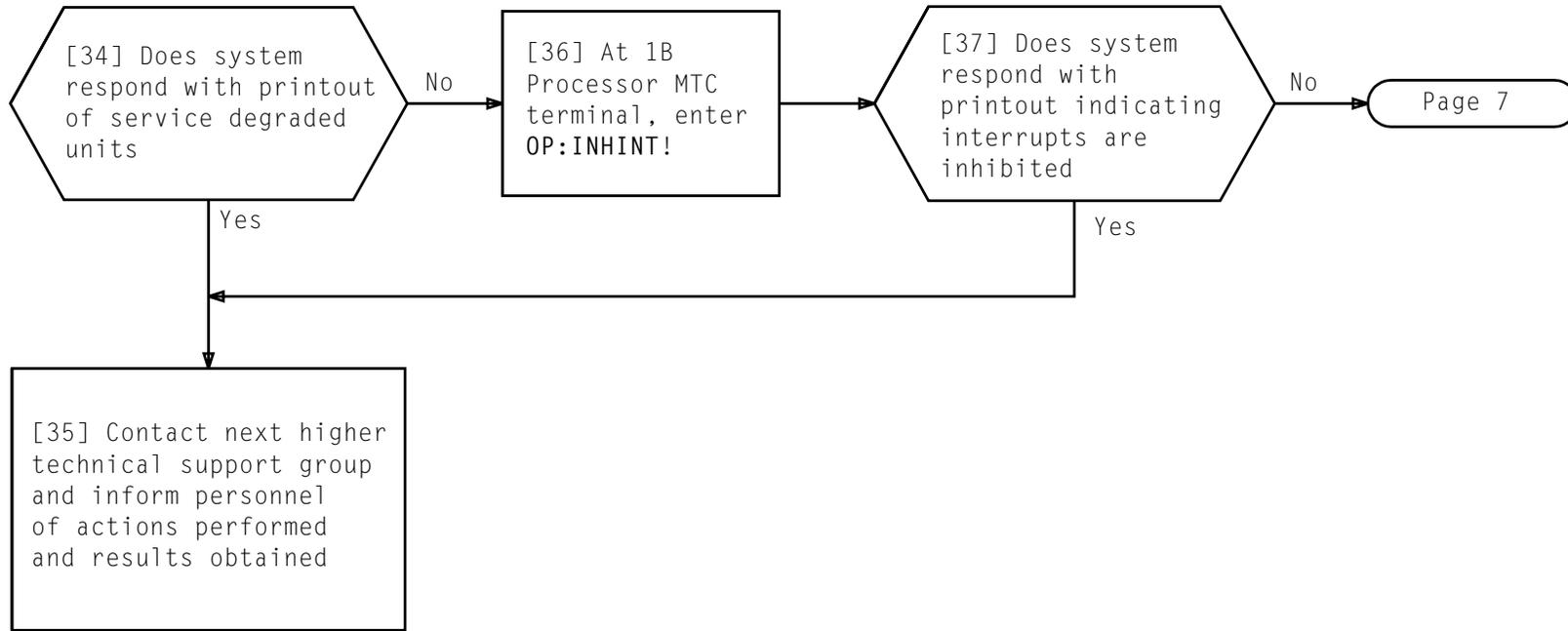
NOTE 3	
Audit 43 and 66 takes approximately 20 to 40 minutes to complete, depending on office size	
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RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR) USING TAPES



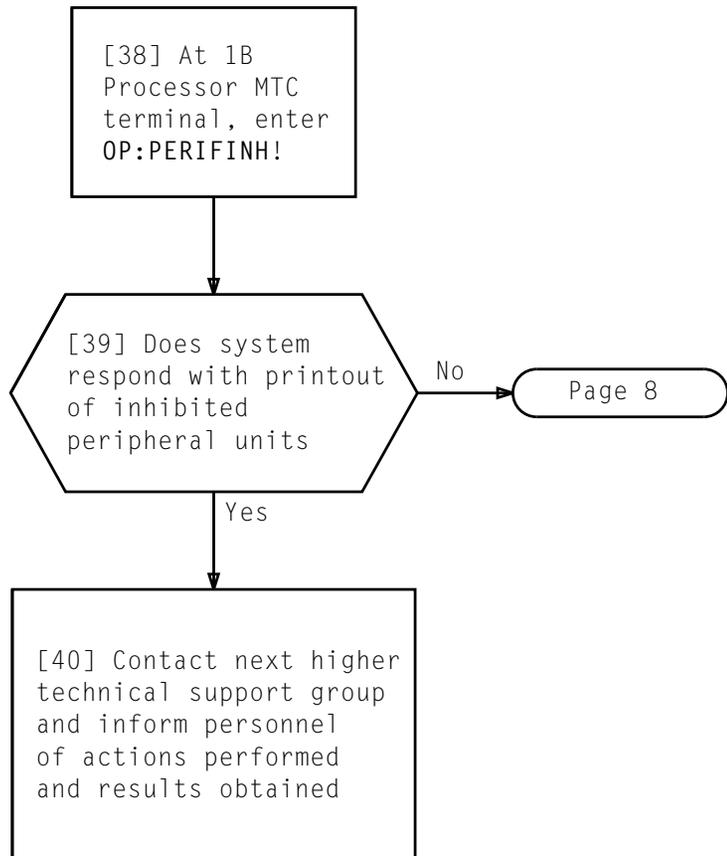
**RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM
 REINITIALIZATION (SR) USING TAPES**

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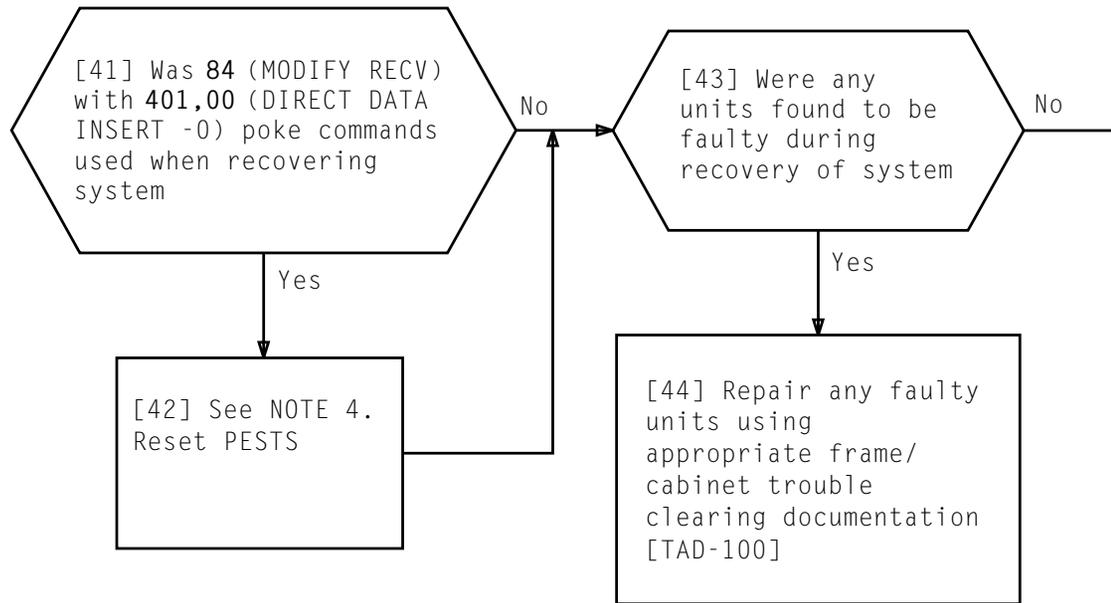
RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM REINITIALIZATION (SR) USING TAPES

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**RESTORE 1B PROCESSOR CONDITIONS FOLLOWING SYSTEM
REINITIALIZATION (SR) USING TAPES**

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NOTE 4	
If MODIFY RECOVERY ACTIONS function and DIRECT DATA INSERT bit 0 were used during recovery, all prevent error source transmissions (PESTs) should be reset only after consulting with appropriate support organization	
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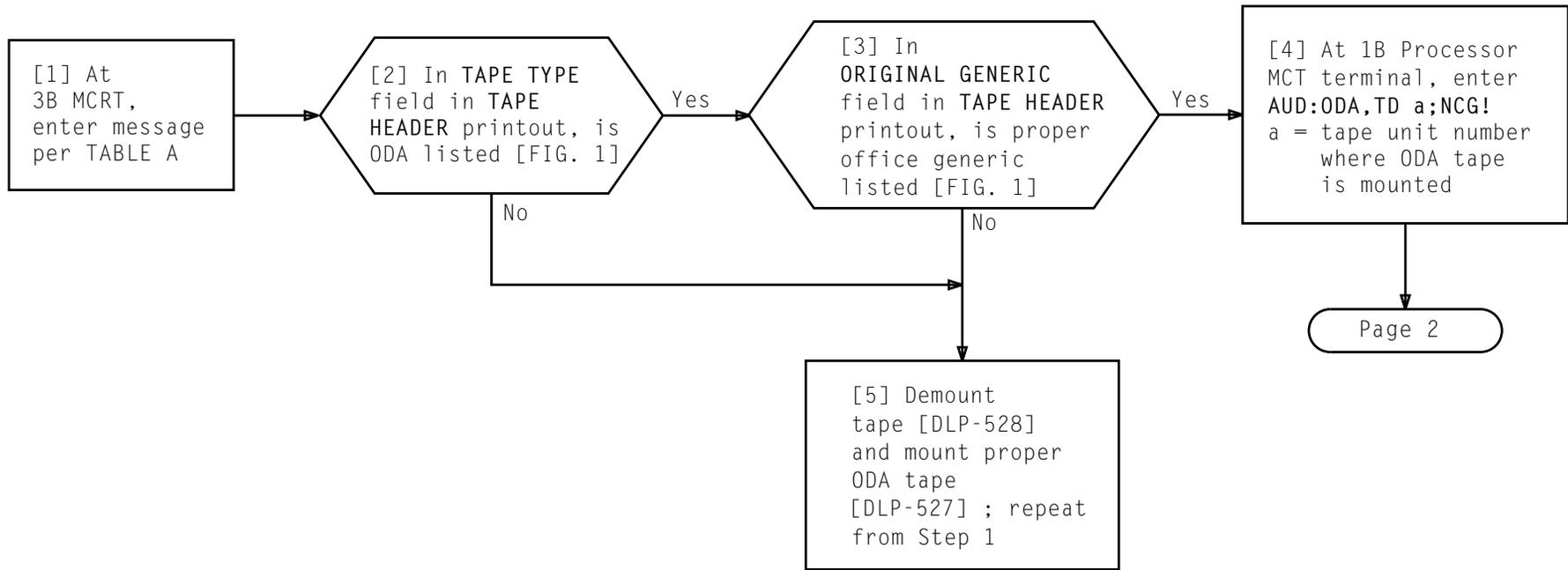


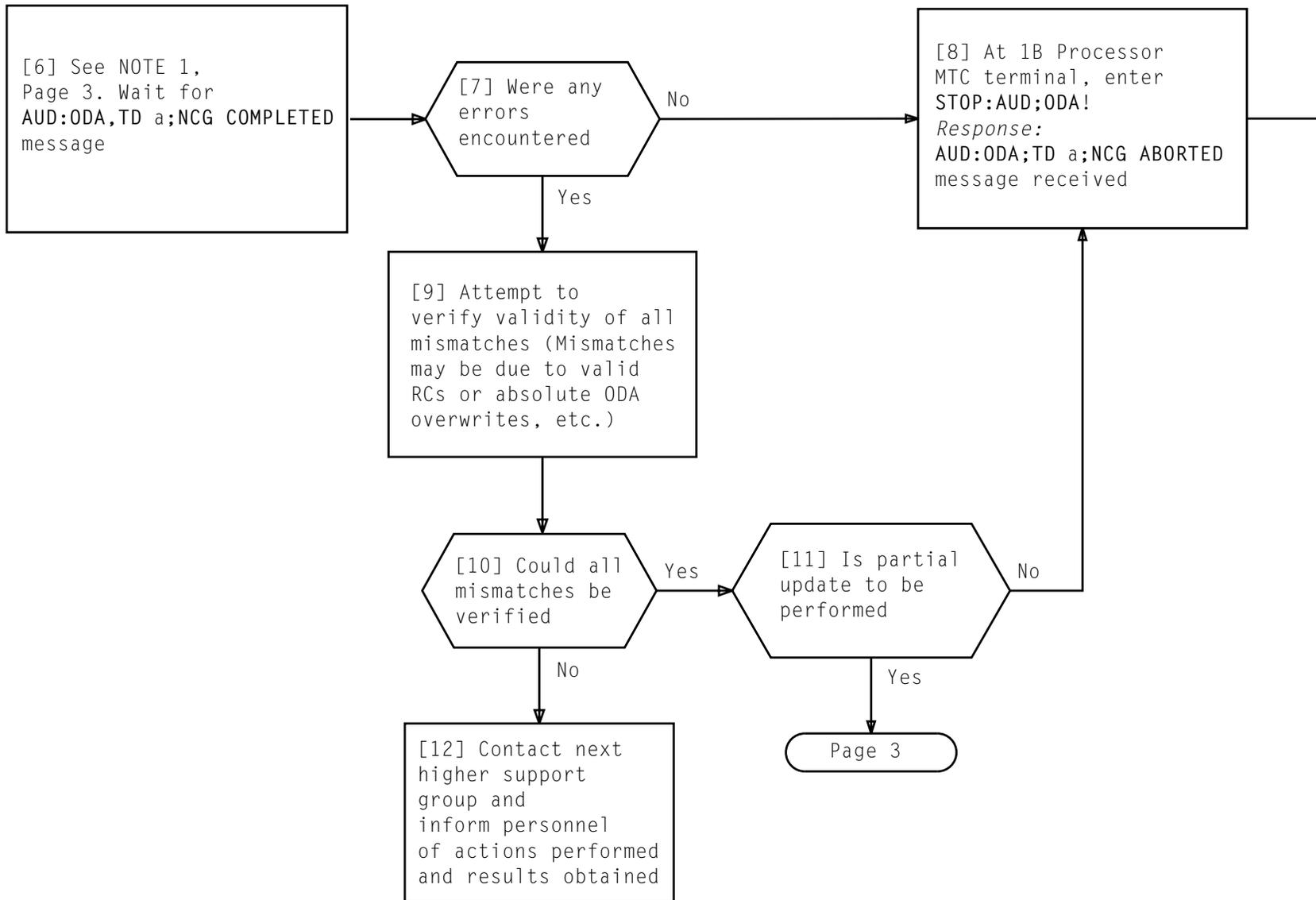
TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	VER:UPDATE:TAPE,MT a
a = Tape unit number that ODA tape is mounted	

```

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

THIS VALUE MUST BE SAME AS GENERIC OFFICE IS RUNNING ON

FIG. 1 - Example of TAPE HEADER Printout



[13] At 1B
Processor MTC
terminal, enter
AUD:ODA,TD a;CORR!

[14] Wait for
AUD:ODA,TD a;CORR COMPLETED
message

NOTE 1

SAST will time out 30 minutes after noncorrecting audit completes. As audit is being run, the following messages will be printed if no errors are encountered:

AUD:ODA,TD a;NCG IN PROGRESS
0 ERROR(S) IN CS2FS MAP DETECTED
AUD:ODA,TD a;NCG IN PROGRESS
0 ERROR(S) IN ID2SEG MAP DETECTED
AUD:ODA,TD a;NCG IN PROGRESS
0 ERROR(S) IN SEGPTRS MAP DETECTED
AUD:ODA,TD a;NCG IN PROGRESS
0 ERROR(S) IN ID2FS MAP DETECTED
AUD:ODA,TD a;NCG IN PROGRESS
0 ERROR(S) IN HASH TABLES DETECTED
AUD:ODA,TD a;NCG IN PROGRESS TAPE DONE
AWAITING INSTRUCTIONS
REPT:DEMOUNT TAPE FROM TD a

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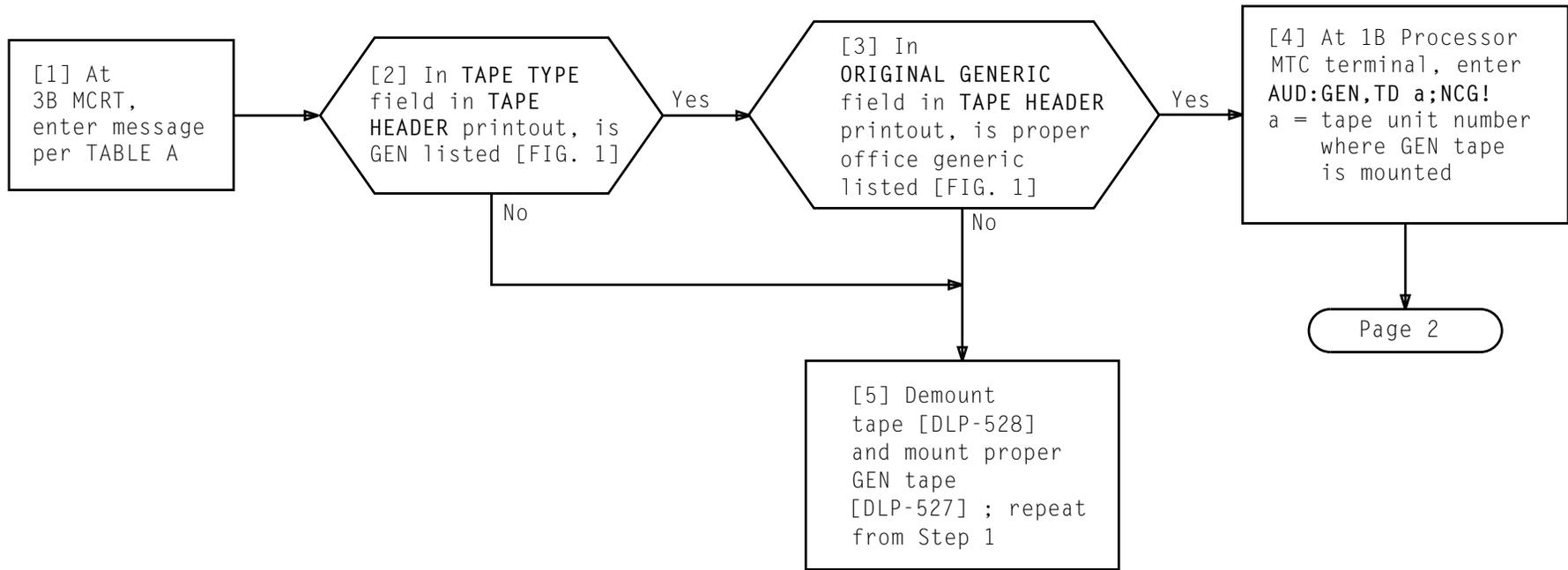


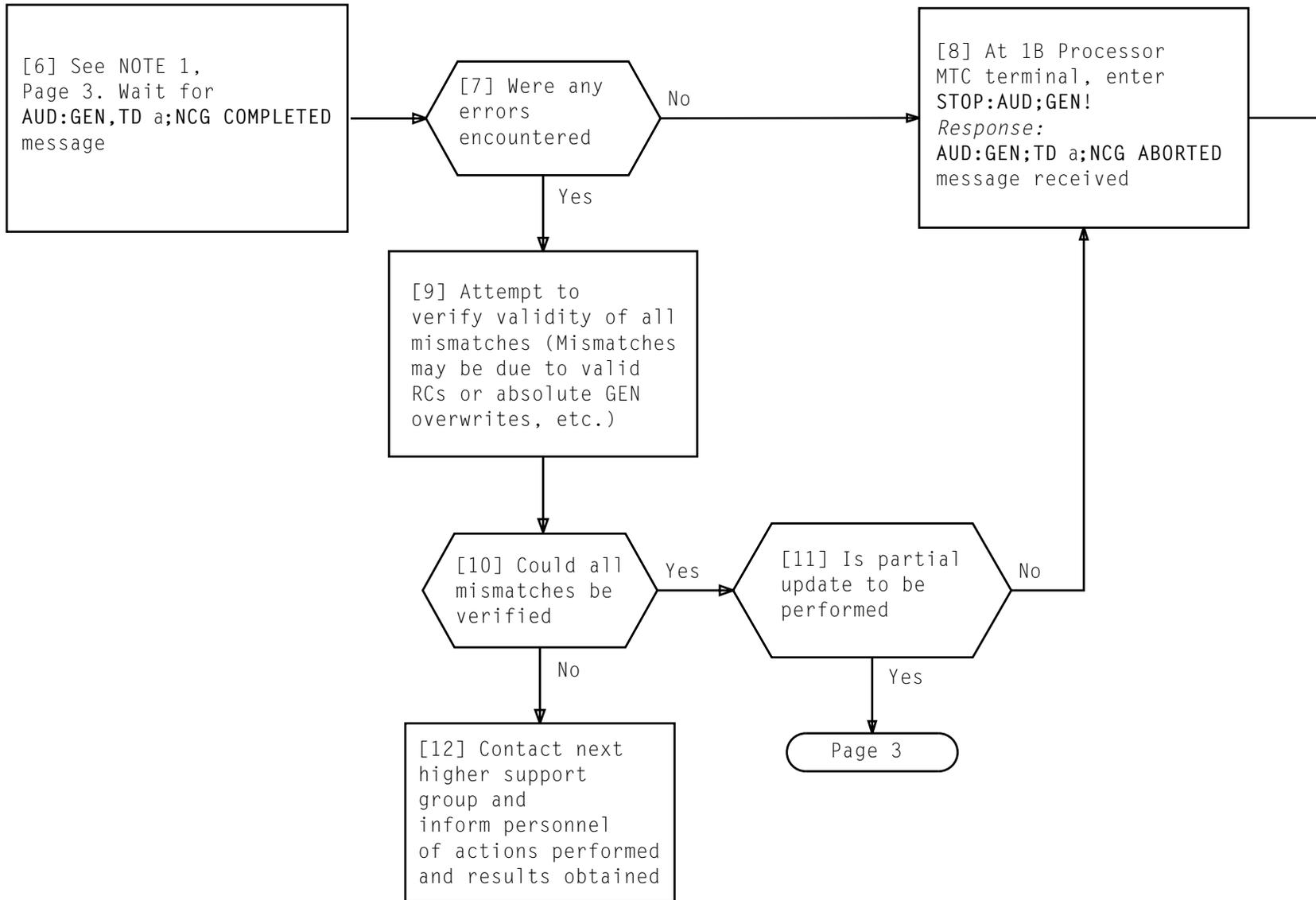
TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	VER:UPDATE:TAPE,MT a
a = Tape unit number that GEN tape is mounted	

THIS VALUE MUST BE SAME AS GENERIC OFFICE IS RUNNING ON

```

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

FIG. 1 - Example of TAPE HEADER Printout



[13] At 1B
Processor MTC
terminal, enter
AUD:GEN,TD a;CORR!



[14] Wait for
AUD:GEN,TD a;CORR COMPLETED
message



NOTE 1

SAST will time out 30 minutes after noncorrecting audit completes. As audit is being run, the following messages will be printed if no errors are encountered:

```
AUD:GEN,TD a;NCG IN PROGRESS
  0 ERROR(S) IN CS2FS MAP DETECTED
AUD:GEN,TD a;NCG IN PROGRESS
  0 ERROR(S) IN ID2SEG MAP DETECTED
AUD:GEN,TD a;NCG IN PROGRESS
  0 ERROR(S) IN SEGPTRS MAP DETECTED
AUD:GEN,TD a;NCG IN PROGRESS
  0 ERROR(S) IN ID2FS MAP DETECTED
AUD:GEN,TD a;NCG IN PROGRESS
  0 ERROR(S) IN HASH TABLES DETECTED
AUD:GEN,TD a;NCG IN PROGRESS TAPE DONE
AWAITING INSTRUCTIONS
REPT:DEMOUNT TAPE FROM TD a
```

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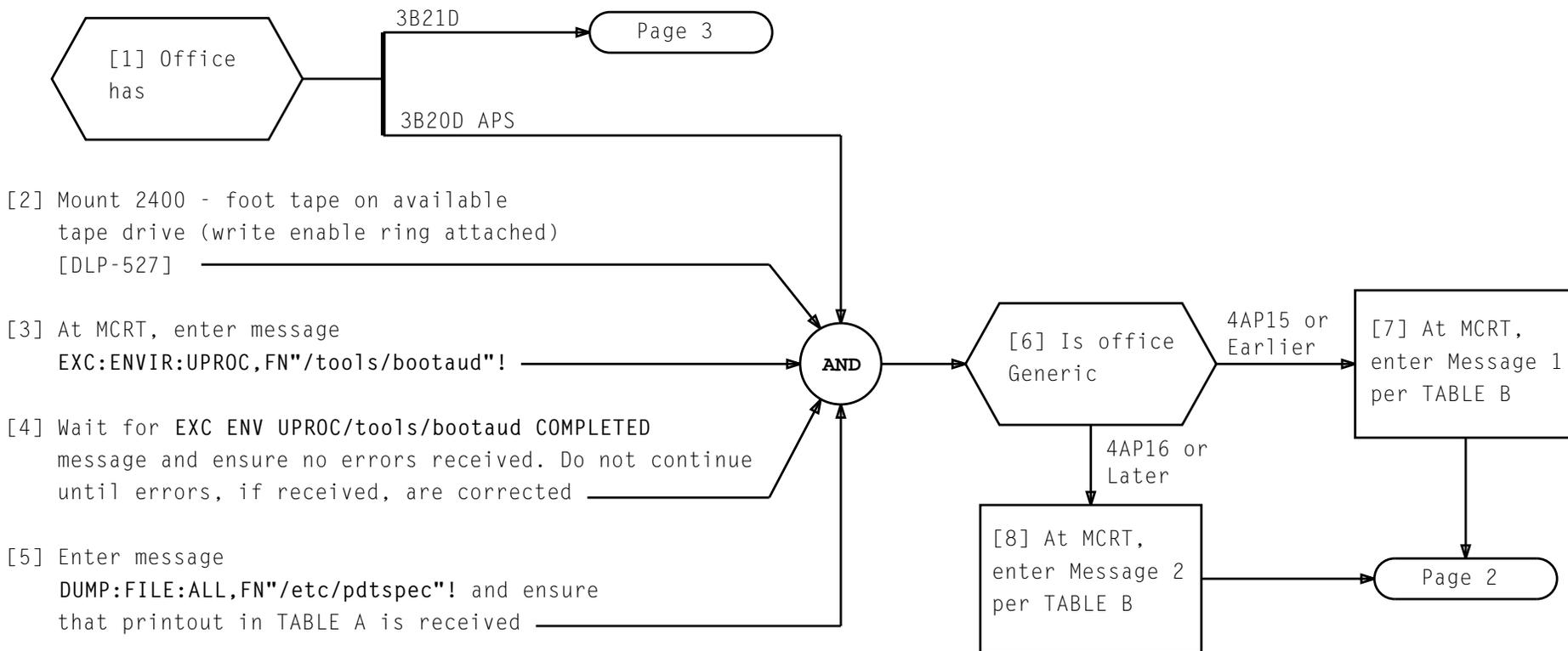


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	DUMP FILE ALL COMPLETED /dev/lboot21 /dev/lboot /dev/vtoc /dev/boot /dev/bboot /dev/root /dev/etc /dev/db /dev/amabfiles /dev/amabfiles

TABLE B	
MESSAGE NUMBER	INPUT MESSAGES
1	COPY:BKDISK;START:SRC"/dev/vtoc",TD"/dev/mtX8",TPSIZE 2200!
2	COPY:BKDISK;START:SRC"/dev/vtoc",TD"/dev/mtX8",TPSIZE 2200,COM!
X = tape drive number used in Step 2	

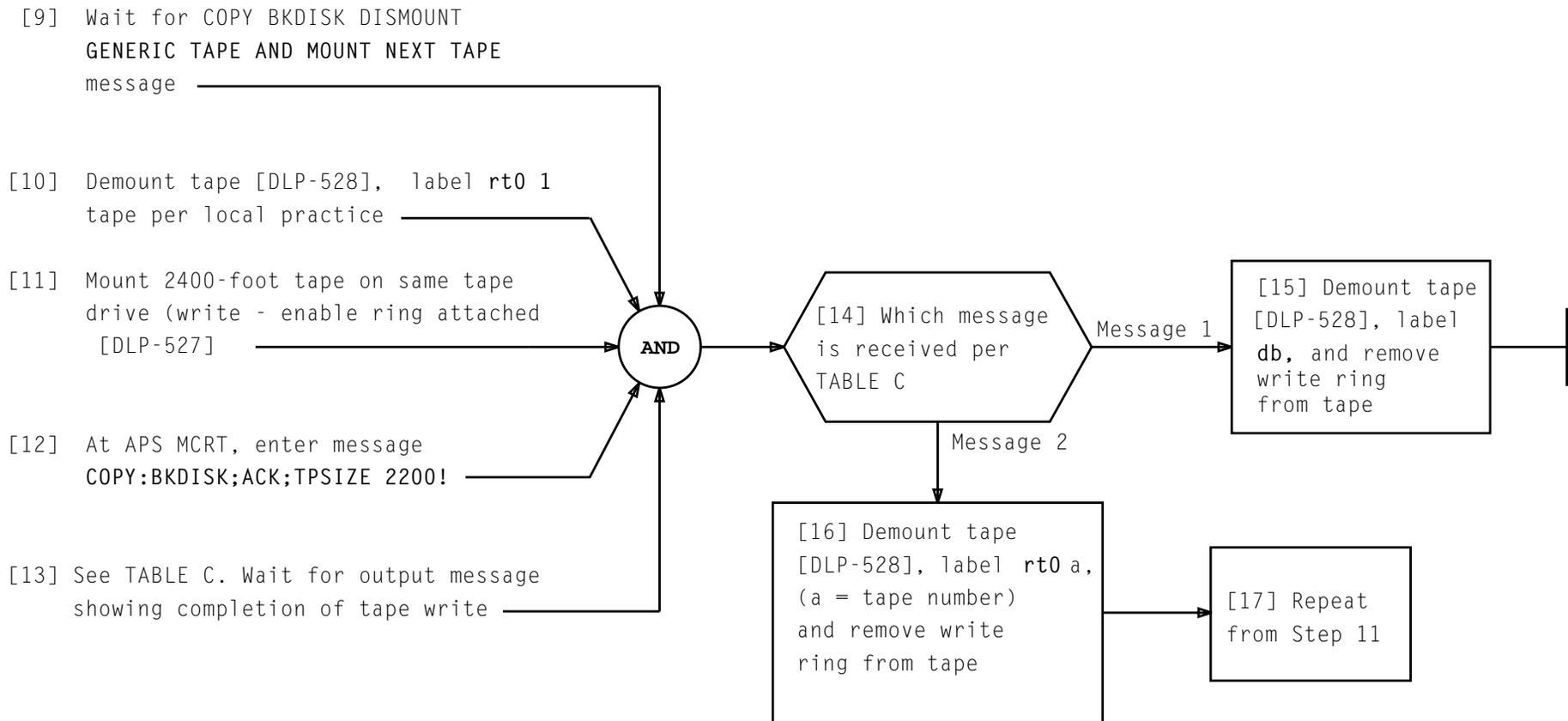


TABLE C	
MESSAGE NUMBER	OUTPUT MESSAGE
1	COPY BKDISK COMPLETED DISMOUNT DATABASE TAPE AND LABEL
2	COPY DISMOUNT GENERIC TAPE LABEL AND MOUNT NEXT TAPE

- [18] Insert blank or erasable 4-mm tape with write-protect tab is up (unlocked) position into available APS DAT unit [DLP-527]
- [19] At APS MCRT, enter message `DUMP:FILE:ALL, FN"/etc/pdtspec"!` to dump the /etc/pdtspec file
- [20] Wait for `DUMP FILE ALL COMPLETED` message and ensure that printout in TABLE D is received
- [21] At APS MCRT, enter message `COPY:BKDISK;START:SRC"/dev/vtoc",TD"/dev/mtX0",TPSIZE 90,COM!` [Where X = DAT unit number with backup tape inserted (0 or 1)]
- [22] Wait for `COPY BKDISK DISMOUNT GENERIC TAPE LABEL AND MOUNT NEXT TAPE` message
- [23] Remove tape from DAT unit [DLP-528], label the tape `rt0 1`, and put write-protect tab in down (locked) position

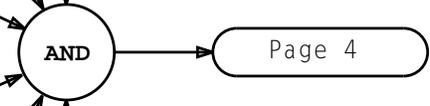
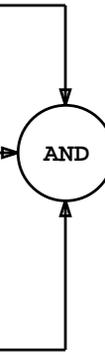


TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGE
1	DUMP FILE ALL COMPLETED /dev/lboot21 /dev/lboot /dev/vtoc /dev/boot /dev/bboot /dev/root /dev/etc /dev/db /dev/amabfiles /dev/amabfiles /dev/update (4AP18 and later) /dev/appdb0 (4AP18 and later)

[24] Insert blank or erasable 4-mm tape with write-protect tab in up (unlocked) position into same available APS DAT unit [DLP-527]

[25] At APS MCRT, enter message COPY:BKDISK;ACK:TPSIZE 90!

[26] See TABLE E. Wait for output message showing completion of tape write



[27] Which message is received per TABLE E

Message 1

[28] Demount tape [DLP-528], label db, and put write-protect tab in the down (locked) position

Message 2

[29] Demount tape [DLP-528], label rt0 a, (a = tape number) and put write-protect tab in the down (locked) position

[30] Repeat from Step 24

TABLE E	
MESSAGE NUMBER	OUTPUT MESSAGE
1	COPY BKDISK COMPLETED DISMOUNT DATABASE TAPE AND LABEL
2	COPY DISMOUNT GENERIC TAPE LABEL AND MOUNT NEXT TAPE

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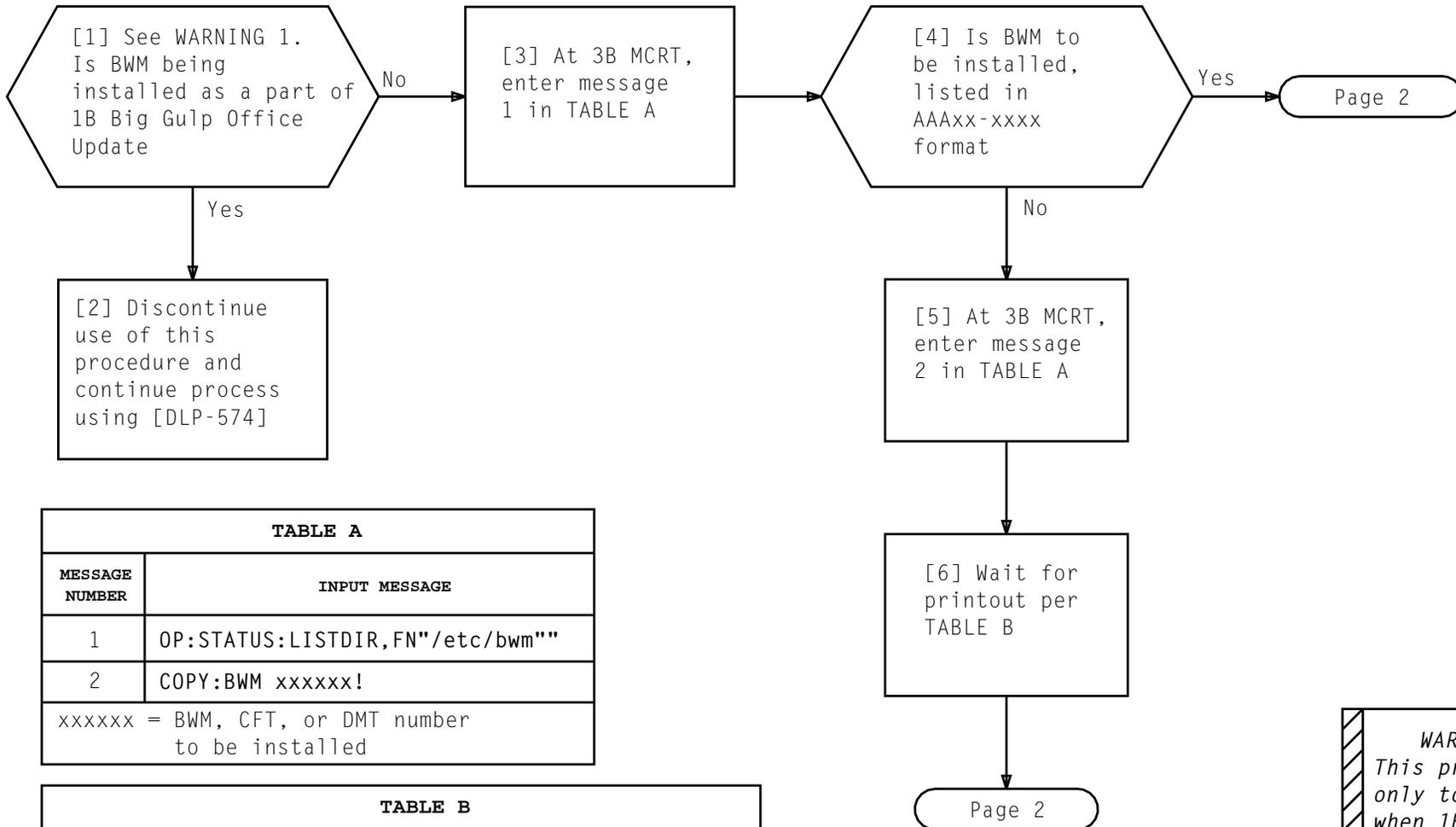


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	OP:STATUS:LISTDIR,FN"/etc/bwm""
2	COPY:BWM xxxxxx!
xxxxxx = BWM, CFT, or DMT number to be installed	

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	MOVING /etc/bwm/xxxxxx TO /etc/bwm/AAxx-xxxx COPY BWM COMPLETED

WARNING 1
This procedure is only to be used when 1B Big Gulp Office Updates are not being used. Certain constraints must be followed when Big Gulp updates are being made

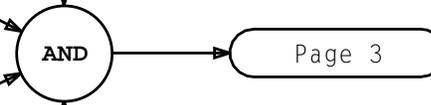
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[7] At 3B MCRT, press **NORM DISP (PF2)** key
and enter **1960** in command mode to obtain
display page 1960

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

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

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



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

[12] At 3B MCRT, enter 9010 in command mode to verify BMW

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

AND

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

Yes

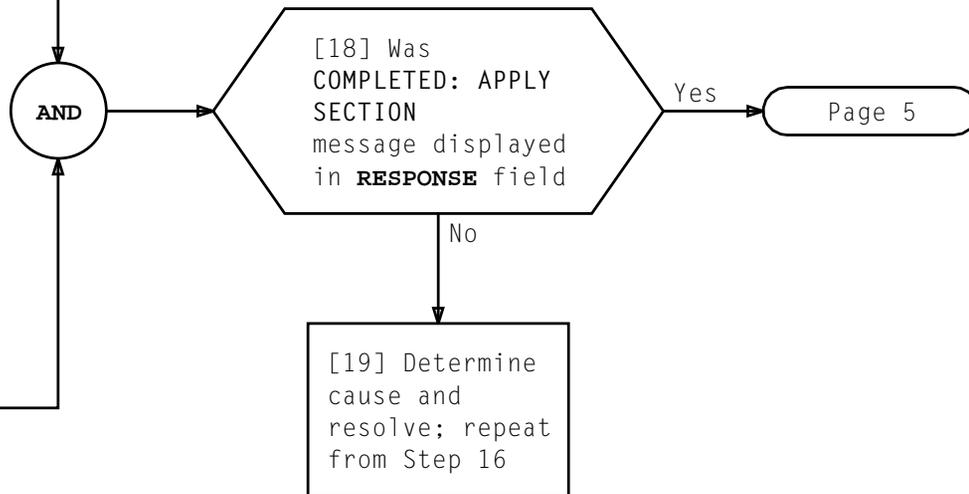
Page 4

No

[15] Determine cause and resolve; repeat from Step 14

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

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



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

[21] Wait for printout per FIG. 2, Page 6 to be received before continuing

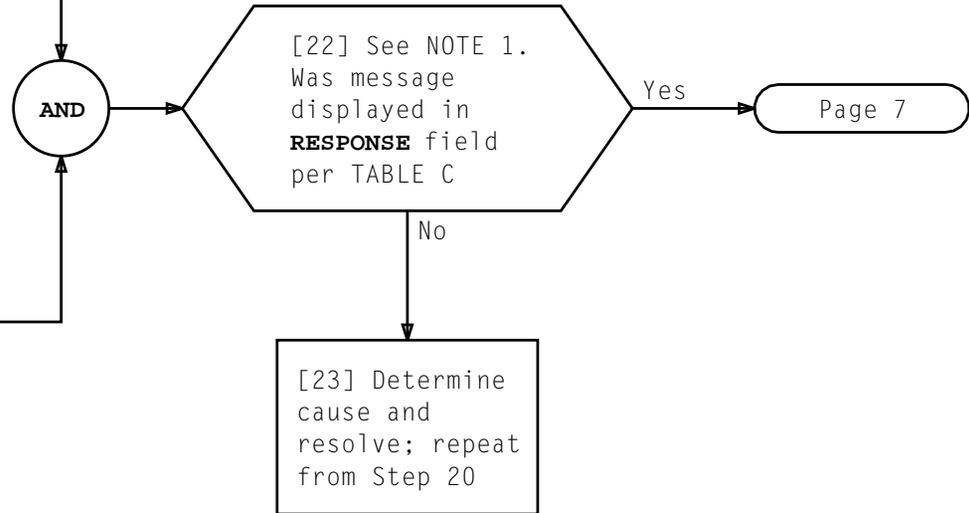


TABLE C	
MESSAGE NUMBER	OUTPUT MESSAGE
1	SOAK PERIOD COMPLETED: SOAK SECTION

NOTE 1	
The END field under CURRENT SOAK TIMER section (FIG. 2, Page 6) indicates the time response should be received	
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```

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

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

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

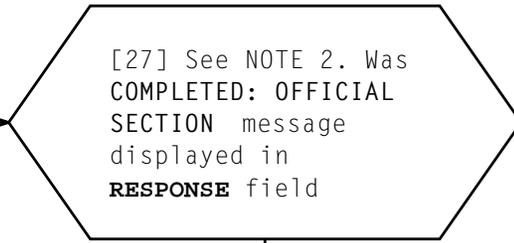
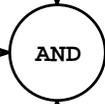
```

FIG. 2 – System Update Soak Printout

[24] Obtain printout saved in Step 9, Page 2 and determine if special instructions are required to be performed before executing OFC section

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

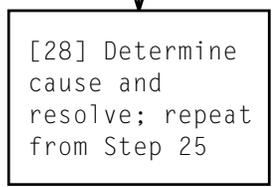
[26] Wait for COMPLETED message to be received in **RESPONSE** field



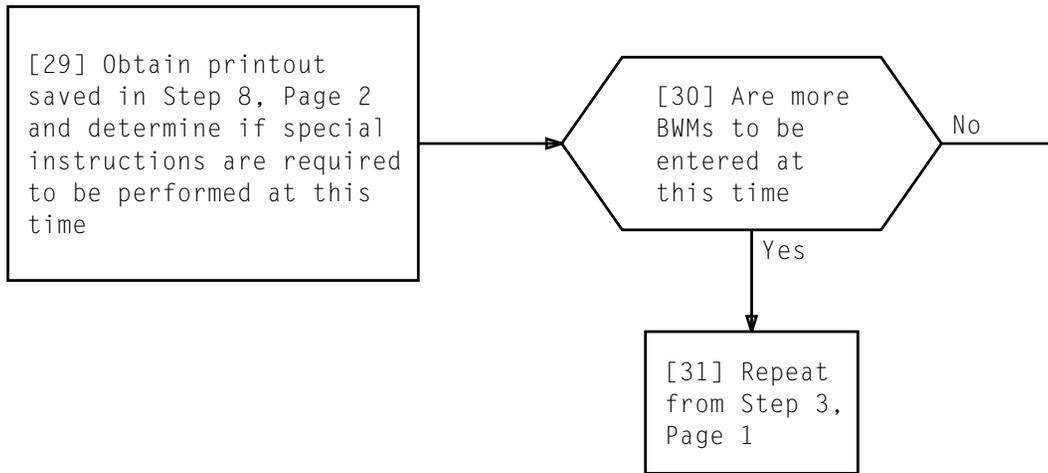
Yes



No



NOTE 2	
Time to finish OFC section is dependent on BWM size	
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1. Remove this procedure and Reproduce page each time a Big GULP BWM is done
2. See Figure 1, Page 2 (For Reference Only). At 1B Processor MCC Terminal, depress **EAI** page key to display EAI page
3. See Figure 2, Page 3. Enter Poke Command **118** to display Active Units
4. Using TABLE A, record ACTIVE CC, PSB, CSB
5. Using TABLE A, record ACTIVE IFB, by using ACTIVE MUP value
6. Using TABLE A, record ACTIVE AUB, by using ACTIVE API value
7. See Figure 3, Page 4, PS0 or PS1 are only PS's that contain generic program. Enter Poke Command **109** to display Program Store Status
8. Using TABLE A, record ACTIVE PS

TABLE A		
Active	Unit	Poke Value
	CC 0	10
	CC 1	11
	PS 0	20
	PS 1	21
	PSB 0	22
	PSB 1	23
	CSB 0	30
	CSB 1	31
	IFB 0	40
	IFB 1	41
	AUB 0	42
	AUB 1	43

**RECORD ACTIVE UNITS AND VERIFY POKE VALUES FOR
BIG GULP BWM UPDATE**

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TOWNSTBLSUB	4E<NN>4B.nn	MUP	<input type="checkbox"/>	PORT	<input type="checkbox"/>	PAGE EAI	mm/dd/yy	hh:mm:ss
CRITICAL	MAJOR	MINOR	SDC	PGM CTRL	PWR/BLDG	MCC	SYS NORM	
CC	PS	CS	IF/AU	PU	MISC	MCC DPFL	SPP	
CMD:								
99 - CLEAR ALL REQUESTS			100 - PAGE INDEX					
-FORCE FNCT-	- MANUAL PROG REQ-			-PC SEQUENCER-		-REPEATED PC- -PC ATTEMPT-		
01 - HARD A	02 - SOFT A			03,xx - SET PC STATE: <input type="checkbox"/>				
10 - CC 0	51 - PHASE 1			04 - INCREMENT PC		-PC PROGRESSION-		
11 - CC 1	52 - PHASE 2			70 - DIS AUTO PC		CC CS IF AU PS Cmpl		
20 - PS 0	53 - PHASE 3							
21 - PS 1	54 - PHASE 4							
22 - PSB 0	81 - CLEAR UTIL			-DIRECT DATA INSERT-				
23 - PSB 1	82 - RESTORE I/O			401/400,xx - SET/RESET xx; 402 - RESET ALL				
30 - CSB 0	83 - INHIBIT INT			CONTENTS: <input type="checkbox"/>				
31 - CSB 1	84 - MODIFY RECV			-EAI FAIL DATA DISPLAY-				
40 - IFB 0				86 - CODE: B' <input type="checkbox"/>				
41 - IFB 1				87 - DATA: B' <input type="checkbox"/>				
42 - AUB 0				88 - ADDR: B' <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
43 - AUB 1				89 - CLEAR DISPLAY				
				-INTF HW ENABLED-		-ERRORS ON SR-		
						-INVALID SELECTION-		
						-OVERRIDE IN EFFECT-		
						-UPDATE IN PROG-		
						-PHASE IN PROG-		
-EMER CFG-	-SYSTEM REINIT-							
48 - FULL	63 -							
49 - MIN	64 - UTILITY SR							

Figure 1 - 1B Processor MCC Terminal EAI Page

RECORD ACTIVE UNITS AND VERIFY POKE VALUES FOR
BIG GULP BWM UPDATE

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TOWNSTBLSUB	4E<NN>4B.nn	MUP	<input type="checkbox"/>	PORT	<input type="checkbox"/>	PAGE 118	mm/dd/yy	hh:mm:ss
CRITICAL	MAJOR	MINOR	SDC	PGM CTRL	PWR/BLDG	MCC	SYS NORM	
CC	PS	CS	IF/AU	PU	MISC	MCC DPFL	SPP	
CMD:								
-1B PROCESSOR STATUS-								
-PROCESSOR-	-BUSES-		-IFB BOOT CLIENTS-			-AUXILIARY- -UNITS-		
		-CC-						
		0 1						
	PFAMTHD	ARAR			AFT			TT
CC 0 ACTIVE	<input type="checkbox"/>	PSB 0 ACT	<input type="checkbox"/>	MUP 0 ACT	<input type="checkbox"/>	AUB 0 ACT	<input type="checkbox"/>	
CC 1 STOP	<input type="checkbox"/>	PSB 1 STBY	<input type="checkbox"/>	MUP 1 STBY	<input type="checkbox"/>	AUB 1 ACT	<input type="checkbox"/>	
PC STATE:	<input type="checkbox"/>	CSB 0 ACT	<input type="checkbox"/>					T
		CSB 1 STBY	<input type="checkbox"/>	AUI 0 ACT	<input type="checkbox"/>	API 0 ACT	<input type="checkbox"/>	
		PUB 0 ACT	<input type="checkbox"/>	AUI 1 UNK	<input type="checkbox"/>	API 1 STBY	<input type="checkbox"/>	
		PUB 1 STBY	<input type="checkbox"/>					
		IFB 0 ACT	<input type="checkbox"/>					
		IFB 1 ACT	<input type="checkbox"/>					
								=DGN IN PROG=

Figure 2 - 1B Processor Status Display Page

RECORD ACTIVE UNITS AND VERIFY POKE VALUES FOR
BIG GULP BWM UPDATE

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TOWNSTBLSUB		4E<NN>4B.nn	MUP <input type="checkbox"/>	PORT <input type="checkbox"/>	PAGE 109	mm/dd/yy	hh:mm:ss
CRITICAL	MAJOR	MINOR	SDC	PGM CTRL	PWR/BLDG	MCC	SYS NORM
CC	PS	CS	IF/AU	PU	MISC	MCC DPFL	SPP
CMD:							
- PROGRAM STORE STATUS AND CONTROL PAGE -							
-BUS STATUS-		-STORE STATUS-					
-CC-		MRSS					
0 1		10					
ARAR		PS00 ACT	M				
PSB 0 ACT		PS01 ACT	M				
PSB 1 STBY		PS02 ACT	M				
-STORE CONTROL-		PS03 STBY	M				
200,xx - RMV:PSB xx		PS04 UPD	M				
201,xx - RMV:PS xx		PS05 STBY	M				
300,xx - RST:PSB xx		PS06 OOS	M				
301,xx - RST:PS xx		PS07 ACT	M				
500,xx - DGN:PSB xx		PS08 UNK	M				
501,xx - DGN:PS xx		PS09 UNEQ					
723 -OP:PSSSTATUS		PS10 UNEQ					
821 -OP:OOSUNITS:PSB		PS11 UNEQ	M				
823 -OP:OOSUNITS:PS		PS12 UNEQ					
		PS13 UNEQ					
						=DGN IN PROG=	

Figure 3 - Program Store Status and Control Page

RECORD ACTIVE UNITS AND VERIFY POKE VALUES FOR
BIG GULP BWM UPDATE

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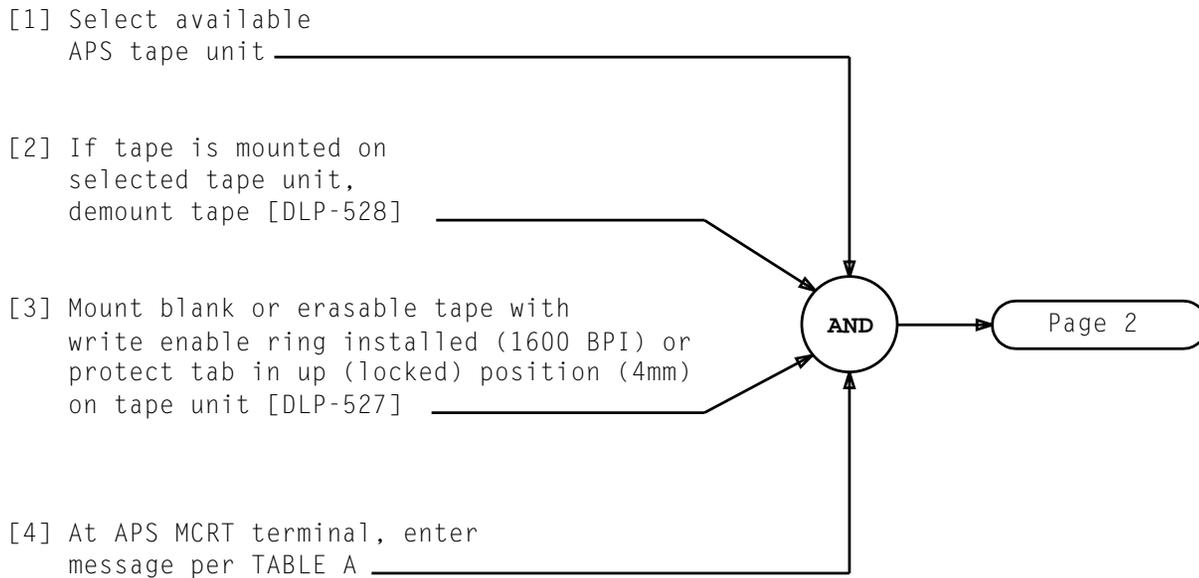


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	EXC:ENVIR:UPROC, FN"/bin/dd", ARGS("if=etc/topfile21", "of=/dev/mtx0")!
x = DAT unit number where backup tape is inserted (0 or 1)	

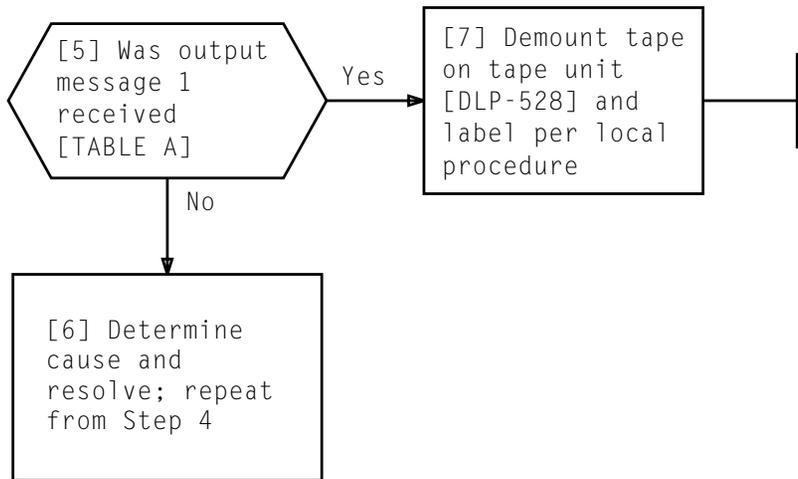


TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGES
1	EXC ENVIR UPROC /bin/dd STOPPED x+y record in x+y record out
x+y = whole and partial number of input and output blocks	

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
• IXL-001 NTP-002 NTP-003 NTP-004 NTP-005		DLP-511 DLP-512 DLP-513 DLP-514 DLP-515		DLP-546 DLP-547 DLP-548 DLP-549 • DLP-550		DLP-581 • DLP-582 • DLP-583 DLP-584 DLP-585					
NTP-006 NTP-007 NTP-008 NTP-009 NTP-010		DLP-516 DLP-517 DLP-518 DLP-519 DLP-520		DLP-551 DLP-552 • DLP-553 • DLP-554 • DLP-555		DLP-586 DLP-587 DLP-588 DLP-589 • DLP-590					
TAD-100 TAP-101 TAP-102 • TAP-103 TAP-104		DLP-521 DLP-522 DLP-523 DLP-524 DLP-525		DLP-556 DLP-557 • DLP-558 DLP-559 DLP-560		• CKL-891 TNG-893					
TAP-105 TAP-106 TAP-107 TAP-108 TAP-109		DLP-526 • DLP-527 DLP-528 DLP-529 DLP-530		• DLP-561 • DLP-562 DLP-563 DLP-564 • DLP-565							
TAP-110 • TAP-111 • TAP-112 • TAP-113 DLP-500		DLP-531 DLP-532 DLP-533 DLP-534 DLP-535		• DLP-566 DLP-567 • DLP-568 • DLP-569 DLP-570							
DLP-501 DLP-502 DLP-503 DLP-504 DLP-505		DLP-536 DLP-537 DLP-538 DLP-539 • DLP-540		• DLP-571 DLP-572 DLP-573 DLP-574 • DLP-575							
DLP-506 DLP-507 DLP-508 DLP-509 DLP-510		• DLP-541 • DLP-542 • DLP-543 DLP-544 DLP-545		• DLP-576 • DLP-577 • DLP-578 DLP-579 DLP-580							

• REVISED OR ADDED ITEM

CANCELED ITEM

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CHECKLIST

This book is called a Task Oriented Practice or "TOP." It is a programmed document that gives step-by-step instructions to enable you to do a job (or task). If used correctly, a TOP can be a very useful aid when completing everyday tasks.

Since TOP instructions are given in the order that they must be done, you cannot enter a procedure except at the beginning. You *must* do the step-by-step instructions in the order given. Failure to follow the instructions in the proper order may cause service interruptions.

Remember, a TOP contains all the instructions needed to do a task. If you are doing the job for the first time, you are given step-by-step instructions with all detail that enables you to complete the job. Remember, TOP can provide you the information you need regardless of your experience in doing a job.

The work that you do can be classified into two broad job categories – *Trouble Clearing* and *Non-Trouble Clearing*. The following are the TOP definitions for these two job categories:

Trouble Clearing

Trouble clearing may be done in answering a customer complaint or in responding to an office alarm, a trouble report, or an abnormal printout, etc.

Non-Trouble Clearing

Non-trouble clearing procedures are performed to accept a system after a system has been installed, turn up a system for service, maintain a system according to a controlled maintenance plan, etc.

Glance briefly at the front cover. In the upper right corner is a 9-digit number which identifies the volume. Near the center is the title of the volume which tells you something about the contents, such as the system (or subsystem) name and perhaps what kind of jobs are included in the volume. Next is the decision-action-logic diagram which directs you either to this training package or to 001 depending on your ability to use TOP.

Turn to Figure 1 which shows a typical page of 001. In the lower left is the title, "TASK INDEX LIST" which tells it is a listing of tasks arranged in alphabetical order. The tasks are also permuted on key words to simplify locating a task. On the right side of the page is a column of reference numbers under the heading "THEN GO TO." To use this list, locate the job to be done and turn to the reference number in the "THEN GO TO" column.

Assume that you have been assigned the task of performing a system test on a system covered by a TOP. On 001 in Figure 1, locate the job "System Test." Notice that this entry tells you to go to NTP-016 (Non-Trouble Procedure) under the "THEN GO TO" column. Next you locate the procedure, NTP-016. All procedures in a TOP are arranged in numerical sequence. In actual use of TOP, you would simply turn to the procedure.

FIND YOUR JOB IN THE LIST BELOW THEN GO TO	
Alert; External – Horn, Ringer, Etc. – Remove	NTP-028
Amplifiers; Channel – Recorded Announcement Frame – Test	NTP-009
AR03 PWR ALM RA bb – bb = 16-30	TAP-105
BRDG LED – Does Not Light – Correct	TAP-117
Bridging Controller; Trunk – J1C015MB – Replace	DLP-572
Channel Amplifiers – Recorded Announcement Frame – Test	NTP-009
Drum Wiper – Common Systems Recorded Announcement Frame – Inspect	NTP-010
Extended Station Capability – Nonkey Set Only – Reported Failure	TAP-123
External Alert – Horn, Ringer, Etc. – Remove	NTP-028
Interchange Two Working Station Numbers	NTP-081
LED; BRDG – Does Not Light – Correct	TAP-117
Loudspeaker Paging – Add	NTP-059
Loudspeaker; – Remove	NTP-006
Station Capability; Extended – Nonkey Set Only – Reported Failure	TAP-123
System Test – Perform	NTP-016
Trunk Bridging Controller – J1C015MB – Replace	DLP-572
TTY Printout – AR03 PWR ALM RA bb – bb = 16-30	TAP-105
Wiper; Drum – Common Systems Recorded Announcement Frame – Inspect	NTP-010
TASK INDEX LIST (Contd)	Issue 1 DEC 1980
	123-456-789 IXL
	PAGE 2 of 2 001

Figure 1

Look over the following example which shows a typical page of NTP-016. Note that the items are numbered in the left column. They *must* be completed in that order. In item 2 there are some lettered (A, B, C) items. These lettered items are optional ways to do an item; that is, you only have to do one of the lettered items.

Remember that this procedure gives all the items that must be done and the order in which they must be done to complete the job. If you know how to do a task, you should proceed without going to the referenced details

in the "FOR DETAILS, GO TO" column. If, on the other hand, you need additional details on how to do the task, turn to the procedure listed in the "FOR DETAILS, GO TO" column. In either case, after completing a task continue with the next task.

A TOP is designed so that you have to read only what is necessary to get your job done. If you know how to do a task, look no further for the "how to" information – just do the task and go on to the next task. This idea is called "bypassing" in TOP. In addition to not having to

DO THE ITEMS BELOW IN THE ORDER LISTED FOR DETAILS, GO TO								
1	Obtain Support Apparatus Listed Below: <ul style="list-style-type: none"> • Hewlett-Packard 3531A Transmission Measuring Set • 2P4C Patching Cord 	–						
2	Place SEC/SEB in Off-Line Mode	–						
	A. If in On-Line Mode, Change System From On-Line to Off-Line	DLP-509						
	B. If Powered Down, Condition System for Off-Line Operation as Follows:	–						
	1. Power up Minicomputer	DLP-503						
	2. Power up Line Printer	DLP-528						
	3. Power up Maintenance Terminal	DLP-510						
7	Run Computer Display Terminal Test for All Positions	DLP-513						
8	Mount Tape	DLP-500						
PERFORM SYSTEM TEST		<table border="1"> <tr> <td>Issue 1</td> <td>DEC 1980</td> </tr> <tr> <td>123-456-789</td> <td>NTP</td> </tr> <tr> <td>PAGE 1 of 4</td> <td>016</td> </tr> </table>	Issue 1	DEC 1980	123-456-789	NTP	PAGE 1 of 4	016
Issue 1	DEC 1980							
123-456-789	NTP							
PAGE 1 of 4	016							

HOW TO USE TOP

	TNG
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look further for details, three other ways of "bypassing" are provided in TOP to help you bypass information you already know (see Figure 2):

Summary Statement

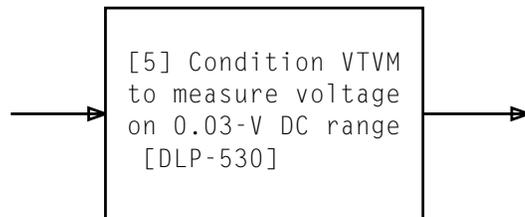
A summary statement is used with a procedure to tell you briefly how to do the procedure and what type measurement or result can be observed. If you can do the procedure after reading the summary, perform the procedure without reading any further. Simple procedures may not have summaries.

Result Statement

A result statement may be used in a flow-charted procedure along with the AND symbol. If, after reading the results statement, you know how to do the action indicated, perform the procedure without reading the steps associated with the AND symbol.

Support Procedures

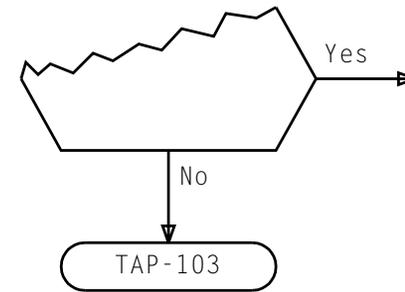
The following reference in TOP refers to a support procedure:
 The support procedure [DLP-530] (Detailed Level Procedure) provides the information on how to



operate the VTVM. Here again, if you already know how to operate the VTVM, perform the procedure without looking up any further information.

Assume that you are doing a system test on a system covered by a TOP. In the process of doing this test, you are instructed to mount a tape. For the purposes of this example, assume that you do not know how to mount the tape and must look up additional details. Figure 2 on Page 5 shows you examples of bypassing that can be used. Take a few moments to examine this figure and make sure you understand the techniques of bypassing.

While using a TOP, you will probably run across a reference similar to the following:



This reference to TAP-103 (Trouble Analysis Procedure) indicates that the equipment is not operating correctly, and that you should refer to TAP-103 and clear this trouble condition. After clearing the trouble, you should re-enter the flowchart at the beginning (Step 1).

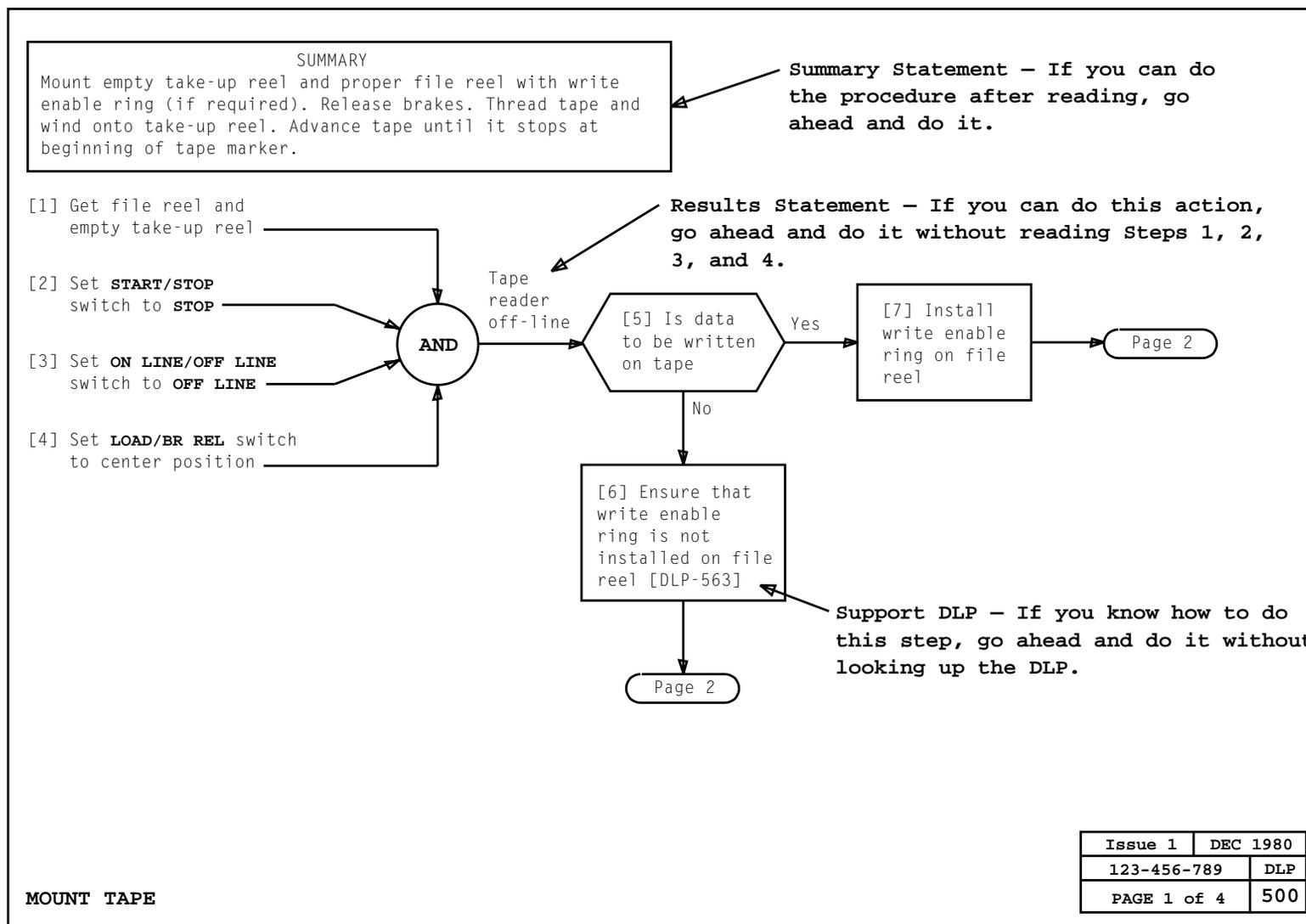
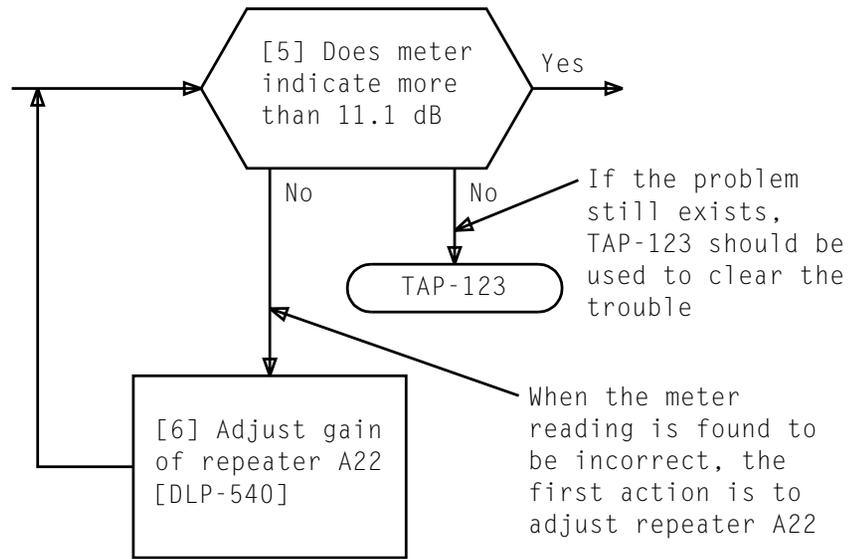


Figure 2

This idea can be carried further. In some cases, a decision block may have more than one abnormal output. This means that you should try more than one solution to the problem. See the following example.

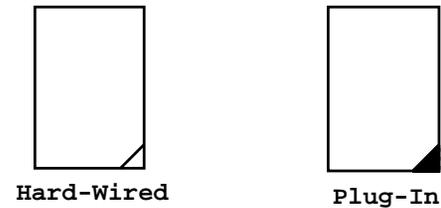


Trouble-clearing information in TOP is used basically the same way as non-trouble-clearing information. When an alarm or trouble report requires you to troubleshoot a system covered by a TOP, the TASK INDEX LIST (IXL-001) is the place to start. After locating your task on IXL-001, you are referenced to a Trouble Analysis Procedure (TAP) to find the information to aid in the location of the trouble. The TAP may reference to other information, such as Trouble Analysis Data (TAD) or Isolation Diagram (ISD) as an aid in the trouble-clearing process.

Now assume that you have to clear a major alarm on a terminal in a system covered by a TOP. Figure 3 on Page 7 shows how to access and how to use trouble-clearing information.

HOW TO USE TOP

A TOP shows hard-wired and plug-in units on Isolation Diagrams (ISD) in the following manner:



Always do a job safely. Below are three things you should heed in TOP:

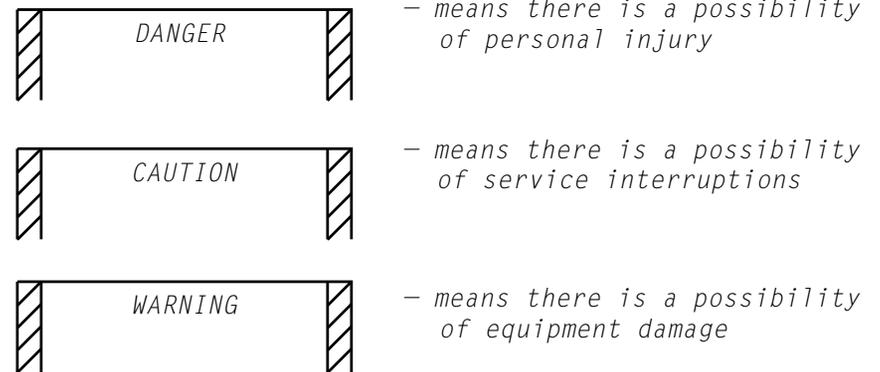


TABLE A on Page 8 shows some of the more important symbols and definitions.

While using TOP, if you find errors, or if a procedure is inadequate or missing, call the TOP HOTLINE number shown on the front cover and title page. Your comments are greatly needed to help prepare better documentation. Comments may also be forwarded using the form provided in the front of this TOP.

Now that you know how to use TOP, return to IXL-001 and find the task you need to do.

	TNG
PAGE 6 of 8	893

FIND YOUR JOB IN THE LIST BELOW THEN GO TO
Alert; External - Horn, Ringer, Etc. - Remove	NTP-028
Alarm - Major - Clear	TAP-109
TTY Printout - AR03 PWR ALM RA bb - bb = 16-30	TAP-05
Wiper; Drum - Common Systems Recorded Announcement Frame	NTP-010
	Issue 1 DEC 1980
	123-456-789 IXL
TASK INDEX LIST (Contd)	PAGE 2 of 2 001

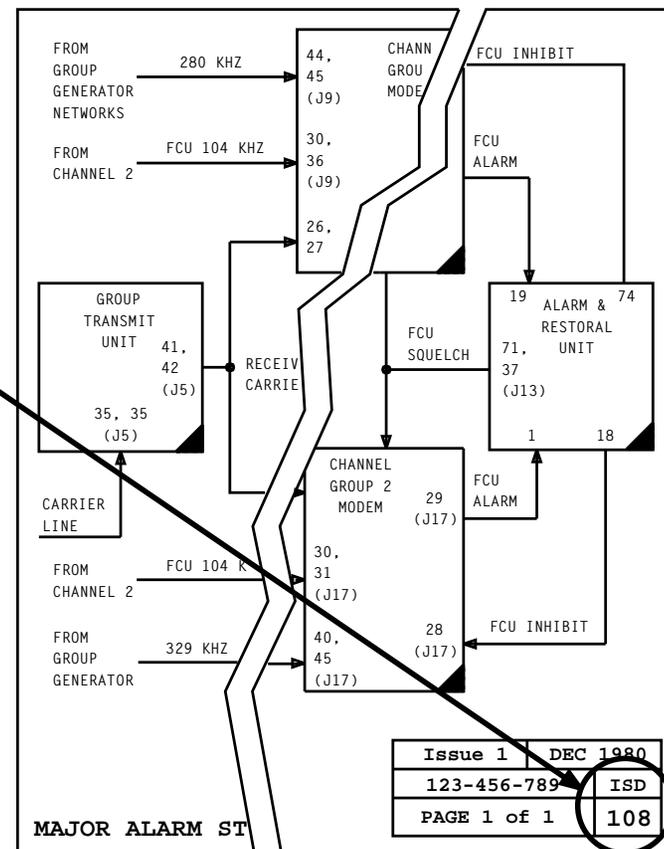
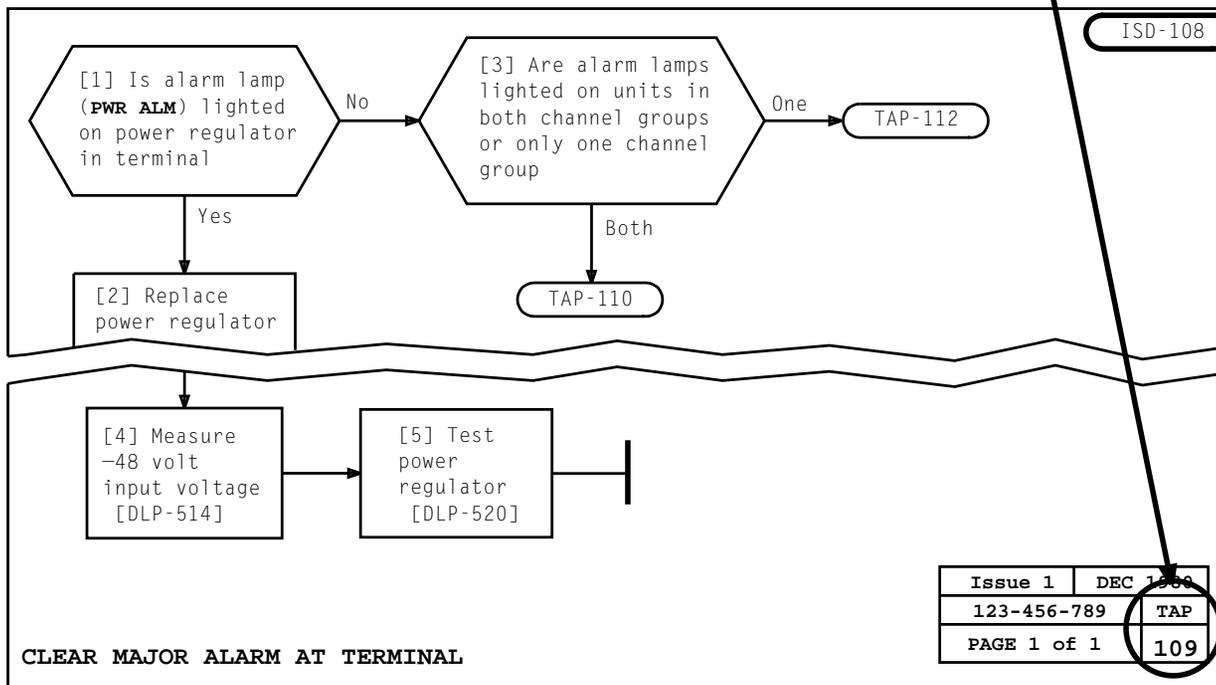
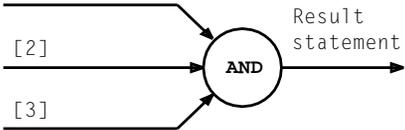
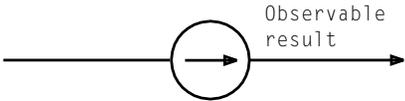
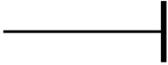


Figure 3

**TABLE A
IMPORTANT TOP SYMBOLS AND DEFINITIONS**

SYMBOL	DEFINITION
	<p>The AND operation symbol is used where the successful completion of a group of instructions accomplishes a meaningful result that can be defined. The symbol indicates that each input instruction must be performed in the order given to accomplish the output (result statement). In instances where results cannot be defined, results statements are not provided.</p>
	<p>The flow-through symbol relates graphically a single instruction to the expected observable result(s).</p>
	<p>The end-of-procedure symbol denotes that the procedure has been completed.</p>
	<p>The reference bubble symbol indicates an exit from a page (either to a continuation page or to trouble-clearing data) or indicates the starting point of a procedure.</p>
<p>Acceptance (NTP-002)</p>	<p>Acceptance gives an overview of the acceptance techniques and facilities.</p>
<p>Maintenance Philosophy (TAD-100)</p>	<p>The maintenance philosophy, when provided, gives an overview of the considerations designed into the trouble-clearing procedures.</p>
<p>Checklist (CKL-891)</p>	<p>The checklist reflects the volume content (inventory) at any given time, the issue identifier of each data element therein, those data elements revised and/or added, and those data elements deleted from a previous issue.</p>