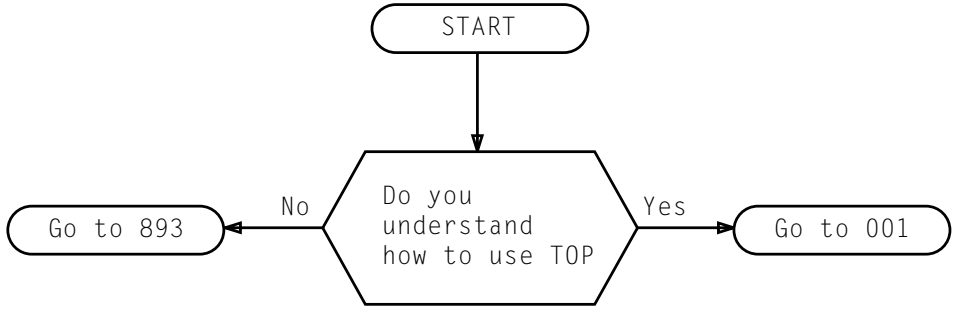
Lucent Technologies
Bell Labs Innovations

Task Oriented Practice (TOP)

4ESS™ Switch
Attached Processor System Growth



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

Acceptance NTP-002

Extended Main Memory; Main Store Memory to - Convert NTP-015

ICDR; Enhanced Teleprocessing — Permanent Virtual Circuit (PVC) — Add NTP-014

Main Store Memory — Add NTP-011

Main Store Memory Packs — 1 MB (TN28) to 2 MB (TN56) — Convert NTP-013

Moving Head Disk (MHD) Pair — Tape/Disk Cabinet — Add (Support to Installer) NTP-010

Network Management Operations Support (NEMOS) Interface — Start Up NTP-009

ODA Data-Link (ODAD); Synchronous Data Link (SDL) — Add (Support to Installer). NTP-020

On-Line Call Detailed Data (OCDD) Service — Add NTP-016

Small Computer Standard Interface (SCSI) Disk System to 340MB MHDs — Convert (Support to Installer) NTP-018

SCSI — Disk Drive Pair To 3B20D — Add NTP-019

Synchronous Data Link (SDL) — Input/Output Processor (IOP) — Add NTP-004

Synchronous Data Link Controller (SDLC) — Input/Output Processor (IOP) — Add NTP-003

Teleprocessing; AMA — 56K bps Operation — Set Up NTP-012

Teleprocessing; 3B Computer AMA — From 3B Computer AMA Tape to — Convert NTP-005

Teleprocessing; 3B Computer AMA — 4800 bps to 9600 bps Operation — Convert NTP-008

TTY — Input/Output Processor (IOP) — Add NTP-007

TTYC — Input/Output Processor (IOP) — Add NTP-006

UN61 to CU 0 and CU 1 — Add NTP-017

Acceptance tests are not required for verification of the growth procedures contained in this volume. The readiness of a frame or unit to become part of the operating system is established by the successful completion of the particular growth procedure in its entirety.

ACCEPTANCE

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 2. AMA data shound be transferred (tape and/or teleprocessing) prior to start of growth activity 3. This procedure contains a soak interval for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.	
1	Verify System Status	DLP-559
2	Obtain Growth Synchronous Data Link Controller (SDLC) Unit Name and Number From SD-4A125-01 (for Model 1), SD-4A125-02 (for Model 2), or SD-4A125-03 (for Model 3)	—
3	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 3 through 6 are being performed to ensure clean file system before starting growth	
4	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
5	Run File System Audits To Ensure No File System Errors	DLP-569
6	Update Backup Data Base	DLP-532
7	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 115 in Command Mode To Obtain Display Page 115	—
8	Verify That Display Page 115 Shows Growth SDLC UNEQ	—
9	Verify Unit Control Block (UCB) Data for Growth SDLC	DLP-500
10	Notify Users That Are On Growth Associated IOP That IOP Will Be Temporarily Powered Down	—
11	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message OP:AMA;CONTROLFILE! and Ensure TELEPROCESSING SESSION IS NOT IN PROGRESS Received	—
12	If AMA Option for Office Is Teleprocessing, Enter Message INH:AMA;SESSION!	—
13	Remove From Service and Power Down IOP Associated With Growth SDLC	DLP-503
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
14	Insert Growth SDLC Circuit Pack in IOP	–
15	Insert Main and Indicator Fuses Associated With Growth SDLC in Controller Fuse Array	–
16	Power Up and Restore to Service IOP Associated With Growth SDLC	DLP-504
17	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **ALW:AMA;SESSION!** and Ensure **DATA TRANSFER IS NOT MANUALLY INHIBITED** Received	–
18	Notify Users That Are On Growth Associated IOP To Resume Their Activities	–
19	Recent Change Growth SDLC From UNEQIP to GROW	DLP-505
20	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **115** in Command Mode To Obtain Display Page 115	–
21	Verify Display Page 115 Shows Growth SDLC **GROW**	–
22	Enter Message **DGN:SDLC a;RAW!** To Diagnose Growth SDLC; ATP Required	–
23	Recent Change Growth SDLC From GROW to OOS	DLP-506
24	At MCRT, Verify Display Page 115 Shows Growth SDLC **OOS**	–
25	Enter Message **RST:SDLC a!** To Restore Growth SDLC to Service	–
26	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
27	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	–
28	Soak Growth SDLC for 12 Hours To Ensure No Problems Exist With System Operation After Growth	–
29	Run File System Audits To Ensure No File System Errors	DLP-569
30	Update Backup Data Base	DLP-532
31	Write 3B Computer Backup Tapes	DLP-556
32	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 3. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified	
1	Ensure That Data Set and Transmission Facility Associated With Growth Synchronous Data Link (SDL) Are Installed and Tested	—
2	Verify System Status	DLP-559
3	Obtain Growth SDL Unit Name and Number From SD-4A125-01 (for Model 1), SD-4A125-02 (for Model 2), or SD-4A125-03 (for Model 3)	—
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 114 in Command Mode To Obtain Display Page 114	—
9	Verify That Display Page 114 Shows Growth SDL UNEQ	—
10	Verify Unit Control Block (UCB) Data for Growth SDL (Do Not Exit Recent Change After Verification)	DLP-500
11	Verify Communication Protocol Option Block Data for Growth SDL	DLP-501
12	At MCRT, Enter Message DGN:SDLC a;RAW! To Diagnose Synchronous Data Link Controller (SDLC) Associated With Growth SDL; ATP Required	—
13	Notify Users That Are On Growth Associated IOP That IOP Will Be Temporarily Powered Down	—
	(Continued on Page 2)	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
14	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **OP:AMA;CONTROLFILE!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	–
15	If AMA Option for Office Is Teleprocessing, Enter Message **INH:AMA;SESSION!**	–
16	Remove From Service and Power Down IOP Associated With Growth SDL	DLP-503
17	Remove Power From Data Set	–
18	Connect Cables Between Data Set and Growth SDL	–
19	Power Up and Restore to Service IOP Associated With Growth SDL	DLP-504
20	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **ALW:AMA;SESSION!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	–
21	Notify Users That Are On Growth Associated IOP To Resume Their Activities	–
22	At MCRT, Enter Message **RMV:SDLC** a! To Remove SDLC Associated With Growth SDL From Service	–
23	Recent Change Growth SDL From UNEQIP to GROW	DLP-505
24	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **114** in Command Mode To Obtain Display Page 114	–
25	Verify Display Page 114 Shows Growth SDL **GROW**	–
26	Restore Power to Data Set	–
27	At MCRT, Enter Message **DGN:SDLC** a;**RAW!** To Diagnose SDLC Associated With Growth SDL; ATP Required	–
28	Recent Change Growth SDL From GROW to OOS	DLP-506
29	At MCRT, Verify Display Page 114 Shows Growth SDL **OOS**	–
30	NOTE: Growth SDL will be restored to service	
	Enter Message **RST:SDLC** a! To Restore SDLC Associated With Growth SDL to Service	–
31	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
32	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	–
33	Soak Growth SDL for 12 Hours To Ensure No Problems Exist With System Operation After Growth	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
34	Run File System Audits To Ensure No File System Errors	DLP-569
35	Update Backup Data Base	DLP-532
36	Write 3B Computer Backup Tapes	DLP-556
37	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTE: AMA data should be transferred prior to start of growth activity	
1	Ensure That Synchronous Data Link Controller (SDLC) Is Grown per NTP-003	—
2	Ensure That Synchronous Data Link (SDL) Is Grown per NTP-004	—
3	At MCRT, Enter Message **RST:SDLC 10!** To Diagnose SDLC and SDL; ATP Required for SDLC 10 and SDL 20	—
4	If IC AMA Data Is To Be Collected:	
	1. Define Office-Dependent Data for IC Stream on 3B Computer	DLP-508
	2. Verify AMA Processes for IC Stream Are Running	DLP-509
	NOTE: If problems occur during polling and problems cannot be corrected before old scheduled AMA tape write, AMA must be switched back to 3B Computer tape	
	3. Request Host Collector (HOC) To Poll for 100 Test Files. Wait for Normal Termination Output Message Approximately 9 Minutes if 4800 bps or 5 Minutes if 9600 bps After Polling Starts	DLP-513
5	If OC AMA Data Is To Be Collected:	
	1. Define Office-Dependent Data for OC Stream on 3B Computer	DLP-508
	2. Verify AMA Processes for OC Stream Are Running	DLP-509
	NOTE: If problems occur during polling and problems cannot be corrected before old scheduled AMA tape write, AMA must be switched back to 3B Computer tape	
	3. Request HOC To Poll for 100 Test Files. Wait for Normal Termination Output Message Approximately 9 Minutes if 4800 bps or 5 Minutes if 9600 bps After Polling Starts	DLP-513
6	If IC AMA Data Is To Be Collected, Request Demand Poll From HOC for IC AMA Data and Wait for Normal Termination Output Message After AMA Session. Ensure That Normal Termination Output Message Indicates 0% Disk Occupancy and One or More AMA Blocks Were Transmitted	DLP-516
7	If OC AMA Data Is To Be Collected, Request Demand Poll From HOC for OC AMA Data and Wait for Normal Termination Output Message After AMA Session. Ensure That Normal Termination Output Message Indicates 0% Disk Occupancy and One or More AMA Blocks Were Transmitted	DLP-516

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 3. This procedure contains soak interval for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified	
1	Verify System Status	DLP-559
2	Obtain Growth SDL Unit Name and Number From SD-4A125-01 (for Model 1), SD-4A125-02 (for Model 2), or SD-4A125-03 (for Model 3)	_
3	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	_
	NOTE: Items 4 through 6 are being performed to ensure clean file system before starting growth	
4	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
5	Run File System Audits To Ensure No File System Errors	DLP-569
6	Update Backup Data Base	DLP-532
7	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 116 in Command Mode To Obtain Display Page 116	—
8	Verify That Display Page 116 Shows Growth TTYC UNEQ	—
9	Verify Unit Control Block (UCB) Data for Growth TTYC	DLP-500
10	Notify Users That Are On Growth Associated IOP That IOP Will Be Temporarily Powered Down	—
11	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message OP:AMA;CONTROLFILE! and Ensure TELEPROCESSING SESSION IS NOT IN PROGRESS Received	_
12	If AMA Option for Office Is Teleprocessing, Enter Message INH:AMA;SESSION!	—
13	Remove From Service and Power Down IOP Associated With Growth TTYC	DLP-503
	WARNING: An antistatic wrist strap must be worm to prevent electrostatic discharge and possible damage to circuit packs while handling	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
14	Insert Growth TTYC Circuit Pack in IOP	—
15	Insert Main and Indicator Fuses Associated With Growth TTYC in Controller Fuse Array	—
16	Power Up and Restore to Service IOP Associated With Growth TTYC	DLP-504
17	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **ALW:AMA;SESSION!** and Ensure **DATA TRANSFER IS NOT MANUALLY INHIBITED** Received	—
18	Notify Users That Are On Growth Associated IOP To Resume Their Activities	—
19	Recent Change Growth TTYC From UNEQUIP to GROW	DLP-505
20	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **116** in Command Mode To Obtain Display Page 116	—
21	Verify Display Page 116 Shows Growth TTYC **GROW**	—
22	Enter Message **DGN:TTYC** a;**RAW!** To Diagnose Growth TTYC; ATP Required	—
23	Recent Change Growth TTYC From GROW to OOS	DLP-506
24	At MCRT, Verify Display Page 116 Shows Growth TTYC **OOS**	—
25	Enter Message **RST:TTYC** a! To Restore Growth TTYC to Service	—
26	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
27	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
28	Soak Growth TTYC for 12 Hours To Ensure No Problems Exist With System Operation After Growth	—
29	Run File System Audits To Ensure No File System Errors	DLP-569
30	Update Backup Data Base	DLP-532
31	Write 3B Computer Backup Tapes	DLP-556
32	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 3. This procedure contains soak interval for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified	
1	If Data Set Required, Ensure That Data Set and Transmission Facility Associated With Growth TTY Are Installed and Tested	—
2	Verify System Status	DLP-559
3	Obtain Growth TTY Unit Name and Number From SD-4A125-01 (for Model 1), SD-4A125-02 (for Model 2), or SD-4A125-03 (for Model 3)	—
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 114 in Command Mode To Obtain Display Page 114	—
9	Verify That Display Page 114 Shows Growth TTY UNEQ	—
10	Verify Unit Control Block (UCB) Data for Growth TTY (Do Not Exit Recent Change After Verification)	DLP-500
11	Verify Option Block Data for Growth TTY	DLP-514
12	At MCRT, Enter Message DGN:TTYC a;RAW! To Diagnose TTYC Associated With Growth TTY; ATP Required	—
13	Notify Users That Are On Growth Associated IOP That IOP Will Be Temporarily Powered Down	—
14	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message OP:AMA;CONTROLFILE! and Ensure TELEPROCESSING SESSION IS NOT IN PROGRESS Received	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
15	If AMA Option for Office Is Teleprocessing, Enter Message **INH:AMA;SESSION!**	–
16	Remove From Service and Power Down IOP Associated With Growth TTY	DLP-503
17	If Data Set Required, Remove Power From Data Set	–
18	If Data Set Required, Connect Cables Between Data Set and Growth TTY	–
19	Power Up and Restore to Service IOP Associated With Growth TTY	DLP-504
20	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **ALW:AMA;SESSION!** and Ensure **DATA TRANSFER IS NOT MANUALLY INHIBITED** Received	–
21	Notify Users That Are On Growth Associated IOP To Resume Their Activities	–
22	At MCRT, Enter Message **RMV:TTYC** a! To Remove TTYC Associated With Growth TTY From Service	–
23	Recent Change Growth TTY From UNEQIP to GROW	DLP-505
24	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **114** in Command Mode To Obtain Display Page 114	–
25	Verify Display Page 114 Shows Growth TTY **GROW**	–
26	If Data Set Required, Restore Power to Data Set	–
27	At MCRT, Enter Message **DGN:TTYC** a**;RAW!** To Diagnose TTYC Associated With Growth TTY; ATP Required	–
28	Recent Change Growth TTY From GROW to OOS	DLP-506
29	At MCRT, Verify Display Page 114 Shows Growth TTY **OOS**	–
30	NOTE: Growth TTY will be restored to service	
	Enter Message **RST:TTYC** a! To Restore TTYC Associated With Growth TTY to Service	–
31	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
32	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	–
33	Soak Growth TTY for 12 Hours To Ensure No Problems Exist With System Operation After Growth	–
34	Run File System Audits To Ensure No File System Errors	DLP-569
35	Update Backup Data Base	DLP-532

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

36	Write 3B Computer Backup Tapes	DLP-556
37	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
	NOTES: 1. If teleprocessing is scheduled while this procedure is to be performed, the teleprocessing start and stop times must be redefined or AMA session must be inhibited 2. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 3. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 4. SDLC 10 and SDL 20 are associated with OC stream. SDLC 11 and SDL 22 are associated with IC stream	
1	Ensure That Host Collector (HOC) Has Made Necessary Changes To Poll the Office at 9600 bps	—
2	Ensure That Data Set and Transmission Facility Associated With 9600 bps 3B Computer AMA Teleprocessing Conversion Are Installed and Tested	—
3	Verify System Status	DLP-559
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	Enter Message **OP:AMA;CONTROLFILE!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	—
9	Enter Message **INH:AMA;SESSION!**	—
10	Change Communication Protocol Option Block To Convert Synchronous Data Link (SDL) 20 or 22 to 9600 bps Operation	DLP-517
11	Notify Users on IOP Associated With SDL 20 or 22 That IOP Will Be Temporarily Powered Down	—
12	Remove From Service and Power Down IOP Associated With SDL 20 or 22	DLP-503
13	Remove Power From Data Sets Associated With 4800 bps and 9600 bps AMA Teleprocessing	—
14	Disconnect Cables From 4800 bps AMA Teleprocessing Data Set and Connect to 9600 bps AMA Teleprocessing Data Set	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
15	Restore Power to 9600 bps AMA Teleprocessing Data Set	—
16	Power Up and Restore to Service IOP Associated With SDL 20 or 22	DLP-504
17	Notify Users That Are on IOP Associated With SDL 20 To Resume Their Activities	—
18	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
19	Run File System Audits To Ensure No File System Errors	DLP-569
20	Update Backup Data Base	DLP-532
21	Write 3B Computer Backup Tapes	DLP-556
22	Verify Backup Tapes	DLP-557
23	Request From HOC, Start and Stop Times for IC or OC Streams When Polling to Office Can Be Performed To Test Conversion	—
24	At MCRT, Enter Message **OP:AMA;CONTROLFILE:**a! (a = **IC** or **OC**) for Stream To Be Equipped and Determine if Start and Stop Times (Item 23) Are Within Start and Stop Times Defined for Office	DLP-518
25	If Start and Stop Times for Office Need To Be Redefined, Enter Message Using Requested HOC Times for IC or OC Streams **SET:AMA;CONTROL;**a**:START** b**,STOP** c! (a = **IC** or **OC**, b = Start Time — Hour and Minute, c = Stop Times — Hour and Minute)	DLP-519
26	Enter Message **ALW:AMA;SESSION:**a! (a = **IC** or **OC**) for Stream To Be Equipped and Verify From Printout That Data Transfer IS NOT Manually Inhibited	—
27	If IC AMA Data Is To Be Collected, Request Demand Poll From HOC for IC AMA Data and Wait for Normal Termination Output Message After AMA Session. Ensure That Normal Termination Output Message Indicates 0% Disk Occupancy and One or More AMA Blocks Were Transmitted	DLP-516
28	If OC AMA Data Is To Be Collected, Request Demand Poll From HOC for OC AMA Data and Wait for Normal Termination Output Message After AMA Session. Ensure That Normal Termination Output Message Indicates 0% Disk Occupancy and One or More AMA Blocks Were Transmitted	DLP-516
29	If Start and Stop Times Were Redefined (Item 25), Enter Message Using Original Office Times for Stream Redefined **SET:AMA;CONTROL;**a**:START** b**,STOP** c! (a = **IC** or **OC**, b = Start Time — Hour and Minute, c = Stop Time — Hour and Minute)	DLP-519
	(Continued on Page 3)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
30	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	Ensure That Synchronous Data Link Controller(s) [SDLC(s)] Is Grown per NTP-003	—
2	Ensure That Synchronous Data Link(s) [SDL(s)] Is Grown per NTP-004	—
3	Initialize NEMOS Feature and Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-534
4	At MCRT, Depress **EA DISP** (**PF1**) Key	—
5	Perform Items 6 Through 12 To Start NEMOS Processes	—
6	Enter **42** in Command Mode	—
7	Enter **G** in Command Mode	—
8	Enter **50** in Command Mode To Start Up NEMOS Processes; Wait for Printout Indicating Successful Completion	—
9	Verify That NEMOS Processes Are Started Up	DLP-520
10	At MCRT, Enter **15** in Command Mode on EAI Page To Reinitialize Craft Interface Processes	—
11	Wait for **REPT CFTSHL TERMINAL IN SERVICE** Message	—
12	Request NEMOS System Administrator in Network Operations Center (NOC) at Bedminster, NJ, to Activate and Verify NEMOS Interface	—

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

		RESPONSIBILITY	
	NOTES: 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of each night's growth activity 3. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified		
1	Verify System Status	TELCO	DLP-559
2	Install Power Converter and Power Control Board for Each Growth Moving Head Disk (MHD) in Tape/Disk (T/D) Cabinet	INST	—
3	Connect and Test Power Feeders From Power Distribution (PD) Frame to T/D Cabinet for Each Growth MHD	INST	—
4	Verify Power Intrawiring in T/D Cabinet for Each Growth MHD	INST	—
5	Install Fuses in T/D Cabinet for Each Growth MHD	INST	—
6	Install Growth MHDs in T/D Cabinet	INST	—
7	Verify Proper Logic Address Plug Is Installed on Each Growth MHD	INST	—
	NOTE: Disk control and data cables must not be connected at this time		
8	Ensure That **START** Switch on Growth MHD Is in OUT Position	INST	—
9	At PD Frame, Install Fuses for One Growth MHD	INST	—
10	On Power Converter (KS-22997) for Growth MHD, Set **MAIN** Switch to **OFF**	INST	—
11	On Power Converter (KS-22997) for Growth MHD, Depress +**24V** and **—24V** Switches In	INST	—
12	On Power Control Board for Growth MHD, Depress **ON** Key	INST	—
13	Verify That MHD Powered Up With No Alarms	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
14	On Growth MHD, Depress **START** Switch in To Spin Up Disk. **READY** Lamp Will Flash and When Power Up Is Complete, **READY** Lamp Lights Continuously	INST	—
15	Ensure That **WRITE PROTECT** Key On Growth MHD Is in IN Position and LED Is Lighted	INST	—
16	Repeat Items 8 Through 15 for Other Growth MHD	INST	—
17	Verify Unit Control Block (UCB) Data for Both Growth MHDs	TELCO	DLP-521
18	Verify MHD logdev Data	TELCO	DLP-524
	NOTE: Items 19 through 70 must be performed for one growth MHD only		
19	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
	NOTE: Items 20 through 22 are being performed to ensure clean file system before starting growth		
20	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
21	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
22	Update Backup Data Base	TELCO	DLP-532
23	Verify Each Operational MHD in DFC 1 Community. Enter Message **VFY:MHD** a! and Ensure That **VFY MHD** a **COMPLETED** Message Received Before Verifying Next MHD	TELCO	—
24	Diagnose DFC 0 Using **ROS**/**RST** Switch on DFC Power Switch; ATP Required	TELCO	DLP-523
25	Verify Each Operational MHD in DFC 0 Community. Enter Message **VFY:MHD** a! and Ensure That **VFY MHD** a **COMPLETED** Message Received Before Verifying Next MHD	TELCO	—
26	Diagnose DFC 1 Using **ROS**/**RST** Switch on DFC Power Switch; ATP Required	TELCO	DLP-523
27	Remove From Service and Power Down DFC 0 Using Power Switch	TELCO	DLP-503
28	Depress **WRITE PROTECT** Key on Each Operational MHD in DFC 0 Community (LEDs Lighted)	TELCO	—
29	Spin Down and Remove Power From Growth MHD in DFC 0 Community	INST	—
30	At Out-of-Service DFC, Connect Data Cables	INST	—
31	Remove Bus Terminating Resistor (BTR) From Control Cable Connector at End of Daisy Chain	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
32	Connect End of Daisy Chain (Where BTR Was Removed) to Extension Cable Supplied for Growth MHD	INST	—
33	Connect Extension Cable to J3 on Growth MHD	INST	—
34	Install BTR to Connector at End of Control Cable Daisy Chain	INST	—
35	At Out-of-Service DFC Power Switch, Depress **ON** Switch To Restore Power (**OOS** and **ROS** LEDs Lighted)	TELCO/INST	—
36	Depress **WRITE PROTECT** Key on Each Operational MHD in DFC 0 Community (LEDs Off)	TELCO	—
37	Recent Change Growth MHD From UNEQIP to GROW	TELCO	DLP-527
38	Notify Users on IOP 0 That IOP Will Be Temporarily Powered Down	TELCO	—
39	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **OP:AMA;CONTROLFILE!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	TELCO	—
40	If AMA Option for Office Is Teleprocessing, Enter Message **INH:AMA;SESSION!**	TELCO	—
41	Enter Message **RMV:IOP 0!**	TELCO	—
42	Remove From Service and Power Down IOP 0 Using Power Switch	TELCO	DLP-503
43	Connect SCSD Cables for Growth MHD	INST	—
44	Connect Alarm Cable for Growth MHD	INST	—
45	Power Up and Restore to Service IOP 0 Using Power Switch	TELCO/INST	DLP-504
46	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **ALW:AMA;SESSION!** and Ensure **DATA TRANSFER IS NOT MANUALLY INHIBITED** Received	TELCO	—
47	Notify Users That Are on IOP 0 To Resume Their Activities	TELCO	—
48	On Power Converter, Set **MAIN** Switch ON for Growth MHD	INST	—
49	On Power Control Board for Growth MHD, Operate **ROS/RST** Switch to **RST**	INST	—
50	On Power Control Board for Growth MHD, Depress **ON** Key	INST	—
51	On Power Control Board for Growth MHD, Depress **OFF** Key	INST	—
52	Ensure That **OFF** LED Is Lighted and **REPT POWER DOWN MHD** a Message Received	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
53	On Power Control Board for Growth MHD, Depress **ON** Key	INST	—
54	Ensure That **OOS** LED Is Lighted, **OFF** LED Off, and **REPT POWER UP MHD** a Message Received	INST	—
55	Ensure No Alarms Received for Growth MHD	INST	—
56	On Growth MHD, Depress **START** Switch in To Spin Up Disk. **READY** Lamp Will Flash and When Power Up Is Complete, **READY** Lamp Lights Continuously	INST	—
57	Restore DFC, Associated With Growth MHD (**RST:DFC** a**:CONT!**); ATP Required	TELCO/INST	—
58	At Growth MHD, Depress **WRITE PROTECT** Key (LED Off)	INST	—
59	At MCRT, Enter Message **INIT:MHD** a**:NEW!** (a = Growth MHD Member Number)	TELCO	—
60	Ensure That **INIT MHD** a **COMPLETED** Output Message Is Received	INST	—
61	Verify Growth MHD. Enter Message **VFY:MHD** a! and Ensure That **VFY MHD** a **COMPLETED** Message Received (a = Growth MHD Member Number)	TELCO/INST	—
62	Enter Message **DUMP:MHD** a**;DEFECT:ALL!** (a = Growth MHD Member Number)	TELCO	—
63	Compare Defect Table in Printout With Manufacturer Defect Table Sheet That Was Shipped With Growth MHD for Mismatches	INST	—
64	At MCRT, Enter Message **DGN:MHD** a**;RAW!** (a = Growth MHD Member Number); ATP Required for Phases 1 Through 8	TELCO/INST	—
65	Recent Change Growth MHD From GROW to OOS	TELCO	DLP-506
66	Apply VTOC to Growth MHD	TELCO/INST	DLP-530
67	Initially Restore Growth MHD to Service Using DFC 0 Power Switch	TELCO/INST	DLP-531
68	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO/INST	DLP-507
69	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: •**INH:DMQ;SRC REX!** •**INH:DMQ;SRC ADP!**	TELCO	—
70	Soak Growth MHD for 12 Hours To Ensure No Problems Exist With System Operation After MHD Growth	TELCO	—
71	Verify System Status	TELCO	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
72	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
73	Verify Each Operational MHD in DFC 0 Community. Enter Message **VFY:MHD** a! and Ensure That **VFY MHD** a **COMPLETED** Message Received Before Verifying Next MHD	TELCO	—
74	Diagnose DFC 1 (**DGN:DFC 1!**); ATP Required	TELCO	DLP-525
75	Remove From Service and Power Down DFC 1 Using Power Switch	TELCO	DLP-503
76	Depress **WRITE PROTECT** Key on Each Operational MHD in DFC 1 Community (LEDs Lighted)	TELCO	—
77	Spin Down and Remove Power From Growth MHD in DFC 1 Community	INST	—
78	At Out-of-Service DFC, Connect Data Cables	INST	—
79	Remove Bus Terminating Resistor (BTR) From Control Cable Connector at End of Daisy Chain	INST	—
80	Connect End of Daisy Chain (Where BTR Was Removed) to Extension Cable Supplied for Growth MHD	INST	—
81	Connect Extension Cable to J3 on Growth MHD	INST	—
82	Install BTR to Connector at End of Control Cable Daisy Chain	INST	—
83	At Out-of-Service DFC Power Switch, Depress **ON** Switch To Restore Power (**OOS** and **ROS** LEDs Lighted)	TELCO/INST	—
84	Depress **WRITE PROTECT** Key on Each Operational MHD in DFC 1 Community (LEDs Off)	TELCO	—
85	Recent Change Growth MHD From UNEQIP to GROW	TELCO	DLP-527
86	Notify Users on IOP 1 That IOP Will Be Temporarily Powered Down	TELCO	—
87	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **OP:AMA;CONTROLFILE!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	TELCO	—
88	If AMA Option for Office Is Teleprocessing, Enter Message **INH:AMA;SESSION!**	TELCO	—
89	Enter Message **RMV:IOP 1!**	TELCO	—
90	Remove From Service and Power Down IOP 1 Using Power Switch	TELCO	DLP-503
91	Connect SCSD Cables for Growth MHD	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
92	Connect Alarm Cable for Growth MHD	INST	—
93	Power Up and Restore to Service IOP 1 Using Power Switch	TELCO/INST	DLP-504
94	If AMA Option for Office Is Teleprocessing, at MCRT, Enter Message **ALW:AMA;SESSION!** and Ensure **DATA TRANSFER IS NOT MANUALLY INHIBITED** Received	TELCO	—
95	Notify Users That Are on IOP 1 To Resume Their Activities	TELCO	—
96	On Power Converter, Set **MAIN** Switch ON for Growth MHD	INST	—
97	On Power Control Board for Growth MHD, Operate **ROS/RST** Switch to **RST**	INST	—
98	On Power Control Board for Growth MHD, Depress **ON** Key	INST	—
99	On Power Control Board for Growth MHD, Depress **OFF** Key	INST	—
100	Ensure That **OFF** LED Is Lighted and **REPT POWER DOWN MHD** a Message Received	INST	—
101	On Power Control Board for Growth MHD, Depress **ON** Key	INST	—
102	Ensure That **OOS** LED Is Lighted, **OFF** LED Off, and **REPT POWER UP MHD** a Message Received	INST	—
103	Ensure No Alarms Received for Growth MHD	INST	—
104	On Growth MHD, Depress **START** Switch In To Spin Up Disk. **READY** Lamp Will Flash and When Power Up Is Complete, **READY** Lamp Lights Continuously	INST	—
105	Restore DFC, Associated With Growth MHD (**RST:DFC** a**:CONT!**); ATP Required	TELCO/INST	DLP-528
106	At Growth MHD, Depress **WRITE PROTECT** Key (LED Off)	INST	—
107	At MCRT, Enter Message **INIT:MHD** a**:NEW!** (a = Growth MHD Member Number)	TELCO	—
108	Ensure That **INIT MHD** a **COMPLETED** Output Message Is Received	INST	—
109	Verify Growth MHD. Enter Message **VFY:MHD** a! and Ensure That **VFY MHD** a **COMPLETED** Message Received (a = Growth MHD Member Number)	TELCO/INST	—
110	Enter Message **DUMP:MHD** a**;DEFECT:ALL!** (a = Growth MHD Member Number)	TELCO	—
111	Compare Defect Table in Printout With Manufacturer Defect Table Sheet That Was Shipped With Growth MHD for Mismatches	INST	—
112	At MCRT, Enter Message **DGN:MHD** a**;RAW!** (a = Growth MHD Member Number); ATP Required for Phases 1 Through 8	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
113	Recent Change Growth MHD From GROW to OOS	TELCO	DLP-506
114	Initially Restore Growth MHD to Service Using DFC 1 Power Switch	TELCO/INST	DLP-531
115	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO/INST	DLP-507
116	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	TELCO	—
117	Soak Growth MHD for 12 Hours To Ensure No Problems Exist With System Operation After MHD Growth	TELCO/INST	—
118	Verify System Status	TELCO	DLP-559
119	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!**	TELCO	—
120	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
121	Update Backup Data Base	TELCO	DLP-532
122	Remove Even Numbered Growth MHD From Service (**RMV:MHD** a!) and Wait for **RMV MHD** a **COMPLETED** Output Message	TELCO	—
123	Recent Change Out-of-Service Growth MHD From Nonessential to Essential	TELCO	DLP-533
124	Restore Out-of-Service Growth MHD to Service (**RST:MHD** a!); ATP Required	TELCO/INST	DLP-529
125	Repeat From Item 122 for Odd Numbered Growth MHD	TELCO/INST	—
126	Ensure That Growth MHDs Are Running Duplex	TELCO/INST	—
127	Add Growth MHD Verify Schedules to crontab File	TELCO	DLP-526
128	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	TELCO	—
129	Soak Growth MHD for 12 Hours To Ensure No Problems Exist With System Operation After MHD Growth	TELCO/INST	—
130	Verify System Status	TELCO	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
131	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
132	If AMA Partition(s) Are To Be Equipped on Even Numbered Growth MHD, Equip Partition(s), As Required for Even Numbered Growth MHD	TELCO	DLP-542
133	If AMA Partition(s) Are To Be Equipped on Odd Numbered Growth MHD, Equip Partition(s), As Required for Odd Numbered Growth MHD	TELCO	DLP-542
134	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	TELCO	—
135	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
136	Update Backup Data Base	TELCO	DLP-532
137	Write 3B Computer Backup Tapes	TELCO	DLP-556
138	Verify Backup Tapes	TELCO	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 2. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified	
1	Verify System Status	DLP-559
2	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 3 through 5 are being performed to ensure clean file system before starting growth	
3	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
4	Run File System Audits To Ensure No File System Errors	DLP-569
5	Update Backup Data Base	DLP-532
6	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	—
7	If CU 1 ACT, Enter Message SW:CU! To Make CU 1 STBY	—
8	Depress **EA DISP** (**PF1**) Key	—
9	Enter 12 in Command Mode To Force CU 0 On-Line	—
10	Enter Message RMV:CU 1! To Remove CU 1 From Service	—
11	Remove From Service and Power Down CU 1 Using Power Switch	DLP-503
	WARNING: When installing circuit packs, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs	
12	At CU 1, Insert **TN56** Memory Circuit Packs to Desired Memory Size and if Adding Memory to Model 1 3B Computer, Install Associated Fuses	DLP-539
13	Recent Change Main Store Memory Equipage	DLP-538
14	At CU 1 Power Switch, Operate **ON** Switch	—
15	Wait for REPT POWER RESTORED CU 1 Message To Be Received at MCRT	—
16	Diagnose CU 1 (DGN:CU 1,MASC 0:PH 1-100!); ATP Required on All Phases Run	DLP-540

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
17	At MCRT, If Screen Does Not Display EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	—
18	Enter 13 in Command Mode To Remove Force on CU 0	—
19	At CU 1 Power Switch, Operate **ROS/RST** Switch to **RST**; ATP and RST COMPLETED Required	—
20	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	—
21	Ensure That Unit Label for CU 1 Is STBY	—
22	Soak CU 1 As STBY CU for 30 Minutes	—
23	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	—
24	Enter Message SW:CU! To Make CU 0 STBY	DLP-507
25	Copy Incore Equipment Configuration Data Base (ECD) to Disk	—
26	Soak CU 1 for 12 Hours To Ensure No Problems Exist With System Operation After Growth	DLP-559
27	Verify System Status	—
28	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
29	Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	—
30	If CU 0 ACT, Enter Message SW:CU! To Make CU 0 STBY	—
31	At MCRT, Depress **EA DISP** (**PF1**) Key	—
32	Enter 12 in Command Mode To Force CU 1 On-Line	—
33	Enter Message RMV:CU 0! To Remove CU 0 From Service	—
34	Remove From Service and Power Down CU 0 Using Power Switch	DLP-503
	WARNING: When installing circuit packs, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs	
35	At CU 0, Insert TN56 Memory Circuit Packs to Desired Memory Size and if Adding Memory to Model 1 3B Computer, Install Associated Fuses	DLP-539

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
36	Recent Change Main Store Memory Equipage	DLP-538
37	At CU 0 Power Switch, Operate **ON** Switch	—
38	Wait for **REPT POWER RESTORED CU 0** Message To Be Received at MCRT	—
39	Diagnose CU 0 (**DGN:CU 0,MASC 0:PH 1-100!**); ATP Required on All Phases Run	DLP-540
40	At MCRT, If Screen Does Not Display EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	—
41	Enter **13** in Command Mode To Remove Force on CU 1	—
42	At CU 0 Power Switch, Operate **ROS/RST** Switch to **RST** Position; **ATP** and **RST COMPLETED** Required	—
43	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	—
44	Ensure That Unit Label for CU 0 Is STBY	—
45	Soak CU 0 As STBY CU for 30 Minutes	—
46	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
47	Enter Message **SW:CU!** To Make CU 1 STBY	—
48	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
49	Soak CU 0 for 12 Hours To Ensure No Problems Exist With System Operation After Growth	—
50	Verify System Status	DLP-559
51	Run File System Audits To Ensure No File System Errors	DLP-569
52	Update Backup Data Base	DLP-532
53	Write 3B Computer Backup Tapes	DLP-556
54	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 2. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 3. If problems occur during setup, AMA data collection may have to return to AMA taping (Item 42A) or lower speed (Item 42B). If returning to AMA taping, ensure that RAO supplied AMA tape is available 4. SDLC 10 and SDL 20 are associated with OC stream. SDLC 11 and SDL 22 are associated with IC stream	
1	Ensure That Host Collector (HOC) Has Made Necessary Changes To Poll Office at 56K bps	—
2	Ensure That HOC Has Made Arrangements To Get AMA Data Other Than 56K bps Link if Problems Occur	—
3	Ensure That Data Set and Transmission Facility Associated With 56K bps 3B Computer AMA Teleprocessing Conversion Are Installed and Tested	—
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	Enter Message **OP:AMA;CONTROLFILE:**a! (a = **IC** or **OC**) and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	—
9	Enter Message **INH:AMA;SESSION:**a! (a = **IC** or **OC**) for Stream Being Changed	—
10	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **114** in Command Mode To Obtain Display Page 114	—
11	Determine Equipage State of SDL Associated With AMA Teleprocessing (20 or 22)	—
12	Enter **115** in Command Mode To Obtain Display Page 115	—
13	Determine Equipage State of SDLC Associated With AMA Teleprocessing (10 or 11)	—
14	If Equipage State for SDL (Item 11) and SDLC (Item 13) Is UNEQIP, Go to Item 17; Otherwise, Continue	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
15	Remove SDLC, Associated With AMA Teleprocessing (10 or 11), From Service (**RMV:SDLC** a!)	—
16	Degrow SDL (20 or 22) and SDLC (10 or 11) to UNEQIP	DLP-548
17	Change SDL and SDLC Equipment Configuration Data Base (ECD) Parameters to 56K bps Operation	DLP-549
18	Notify Users on IOP Associated With SDLC 10 or 11 That IOP Will Be Temporarily Powered Down (IOP 0 for SDLC 10 or IOP 1 for SDLC 11)	—
19	Remove From Service and Power Down IOP Associated With SDLC	DLP-503
20	Remove Power From Data Set Associated With 4800 bps or 9600 bps AMA Teleprocessing (if Equipped) and 56K bps Data Set	—
21	Disconnect Old Data Set Cables (if Equipped) and Connect New 56K bps Cables (See SD-4A125)	—
	WARNING: When removing or installing circuit packs, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs	
22	At Powered Down IOP, Slot 11, Remove **TN75** Circuit Pack (if Equipped)	—
23	Install **TN82** Circuit Pack in Slot 11	—
24	Restore Power to 56K bps AMA Teleprocessing Data Set	—
25	Power Up and Restore to Service IOP Associated With SDLC 10 or 11	DLP-504
26	Notify Users on IOP Associated With SDLC 10 or 11 To Resume Their Activities	—
27	Recent Change SDLC (10 or 11) and SDL (20 or 22) From UNEQIP to GROW	DLP-505
28	At MCRT, Enter Message **DGN:SDLC** a;**RAW**! to Diagnose SDLC 10 or 11; ATP Required	—
29	Recent Change SDLC (10 or 11) and SDL (20 or 22) From GROW to OOS	DLP-506
30	At MCRT, Enter Message **RST:SDLC** a! To Restore SDLC 10 or 11 to Service	—
31	If AMA Stream Is Being Changed From 3B Computer AMA Tape:	—
	1. Define Office-Dependent Data	DLP-553
	2. Verify That AMA Processes Are Running	DLP-509
32	Copy Incore ECD to Disk	DLP-507
33	Run File System Audits To Ensure No File System Errors	DLP-569

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
34	Update Backup Data Base	DLP-532
35	Request From HOC, Start and Stop Times for IC or OC Stream When Polling to Office Can Be Performed To Test Conversion	—
36	At MCRT, Enter Message **OP:AMA;CONTROLFILE:**a! (a = **IC** or **OC**) for Stream Being Changed and Determine if Start and Stop Times (Item 35) Are Within Start and Stop Times Defined for Office	DLP-518
37	If Start and Stop Times for the Office Need To Be Redefined, Enter Message Using Requested HOC Times for IC or OC Stream **SET:AMA;CONTROL;**a**:START** b**,STOP** c! (a = **IC** or **OC**, b = Start Time — Hour and Minute, c = Stop Times — Hour and Minute)	DLP-519
38	Enter Message **ALW:AMA;SESSION:**a! (a = **IC** or **OC**) for Stream Being Changed and Verify From Printout That Data Transfer IS NOT Manually Inhibited	—
39	Request Demand Poll From HOC for IC or OC AMA Data and Wait for Normal Termination Output Message After AMA Session. Ensure That Normal Termination Output Message Indicates 0% Disk Occupancy and One or More AMA Blocks Were Transmitted	DLP-516
40	If Start and Stop Times Were Redefined (Item 37), Enter Message Using Original Office Times for Stream Redefined **SET:AMA;CONTROL;**a**:START** b**,STOP** c! (a = **IC** or **OC**, b = Start Time — Hour and Minute, c = Stop Time — Hour and Minute)	DLP-519
41	If Demand Poll From HOC Completed Satisfactorily, At MCRT, Enter Following Messages To Allow Automatic Diagnostic Processes: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
42	If Problems Occurred During Setup and AMA Data Collection Must Be Returned to AMA Taping or Lower Speed Until Resolving:	
	A. If AMA Data Collection Must Be Returned to AMA Taping:	
	1. At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
	2. Define Office-Dependent Data	DLP-510
	3. Collect AMA Data on Tape per Local Practice Until Problems Resolved	—
	(Continued on Page 4)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
42 (Contd)	B. If AMA Data Collection Must Be Returned to Lower Speed:	
	1. At MCRT, Enter Message **OP:AMA;CONTROLFILE:**a! (a = **IC** or **OC**) and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Received	—
	2. Enter Message **INH:AMA;SESSION:**a! (a = **IC** or **OC**)	—
	3. Remove SDLC (10 or 11) From Service (**RMV:SDLC** a!)	—
	4. Degrow SDL (20 or 22) and SDLC (10 or 11) to UNEQIP	DLP-548
	5. Change SDL and SDLC Equipment Configuration Data Base (ECD) Parameters to 4800 bps or 9600 bps Operation	DLP-554
	6. Notify Users on IOP Associated With SDLC 10 or 11 That IOP Will Be Temporarily Powered Down (IOP 0 for SDLC 10 or IOP 1 for SDLC 11)	—
	7. Remove From Service and Power Down IOP Associated With SDLC 10 or 11	DLP-503
	8. Remove Power From Data Set Associated With 56K bps AMA Teleprocessing	—
	9. Disconnect 56K bps Data Set Cables and Connect 4800 bps or 9600 bps Data Set Cables (if Required)	—
	WARNING: When removing or installing circuit packs, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs	
	10. At Powered Down IOP, Slot 11, Remove **TN82** Circuit Pack	—
	11. Install **TN75** Circuit Pack in Slot 11	—
	12. Restore Power to 4800 bps or 9600 bps AMA Teleprocessing Data Set	—
	13. Power Up and Restore to Service IOP Associated With SDLC 10 or 11	DLP-504
	14. Notify Users on IOP Associated With SDLC 10 or 11 To Resume Their Activities	—
	15. Recent Change SDLC (10 or 11) and SDL (20 or 22) From UNEQIP to GROW	DLP-505
	16. At MCRT, Enter Message **DGN:SDLC** a;**RAW**! To Diagnose SDLC 10 or 11; ATP Required	—
	17. Recent Change SDLC (10 or 11) and SDL (20 or 22) From GROW to OOS	DLP-506
	18. At MCRT, Enter Message **RST:SDLC** a! To Restore SDLC 10 or 11 to Service	—
	19. Copy Incore ECD to Disk	DLP-507

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
42 (Contd)	20. Run File System Audits To Ensure No File System Errors	DLP-569
	21. Update Backup Data Base	DLP-532
	22. If Start and Stop Times Need To Be Redefined To Test Backout, Enter Message Using New Times for IC or OC Stream **SET:AMA;CONTROL;**a**:START** b**,STOP** c! (a = IC or OC, b = Start Time — Hour and Minute, c = Stop Time — Hour and Minute)	DLP-519
	23. If Password(s) Needs To Be Changed, Enter Message for **IC** or **OC** Stream, As Required **SET:AMA;CONTROL;**a**:HOCPSWD** b**,BACKUPSWD** c! (a = **IC** or **OC**, b = HOC Password, c = Backup HOC Password)	—
	24. Enter Message **ALW:AMA;SESSION:**a! (a = **IC** or **OC**) and Verify From Printout That Data Transfer IS NOT Manually Inhibited	—
	25. Request Test Link Session From HOC for IC or OC Stream. Ensure That Normal Termination Output Message Received After Test Link Session	—
	26. If Start and Stop Times Need To Be Redefined for Normal Teleprocessing Until Problems Resolved, Enter Message Using New Times for IC or OC Stream **SET:AMA;CONTROL;**a**:START** b**,STOP** c! (a = **IC** or **OC**, b = Start Time — Hour and Minute, c = Stop Time — Hour and Minute)	DLP-519
	27. At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ:SRC ADP!**	—
43	Write 3B Computer Backup Tapes	DLP-556
44	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 2. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified.	
1	Verify System Status	DLP-559
2	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	—
	NOTE: Items 3 through 5 are being performed to ensure clean file system before starting growth	
3	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
4	Run File System Audits To Ensure No File System Errors	DLP-569
5	Update Backup Data Base	DLP-532
6	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	—
7	If CU 1 ACT, Enter Message SW:CU! To Make CU 1 STBY	—
8	Depress **EA DISP** (**PF1**) Key	—
9	Enter 12 in Command Mode To Force CU 0 On-Line	—
10	Enter Message RMV:CU 1! To Remove CU 1 From Service	—
11	Remove From Service and Power Down CU 1 Using Power Switch	DLP-503
	WARNING: When removing or installing circuit packs, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs	
12	At CU 1, Remove All **TN28** Circuit Packs	DLP-550
13	Install **TN56** Circuit Packs to Desired Memory Size	DLP-551
14	If Memory Packs Are Being Changed in Model 1 3B Computer, Replace Fuses Under Vacant **TN28** Circuit Pack Locations With Dummy Fuses	—
	(Continued on Page 2)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
15	Ensure That **UN59B** or **UN59C** Circuit Pack Is Installed in CU 1 (56-166 for Model 1 or 51-112 for Model 2/3)	—
16	Recent Change Main Store Memory Equipage and Member Version	DLP-552
17	At CU 1 Power Switch, Operate **ON** Switch	—
18	Wait for **REPT POWER RESTORED CU 1** Message To Be Received at MCRT	—
19	Diagnose CU 1 (**DGN:CU 1,MASC 0:PH 1-100!**); ATP Required on All Phases Run	DLP-540
20	At MCRT, If Screen Does Not Display EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	—
21	Enter **13** in Command Mode To Remove Force on CU 0	—
22	At CU 1 Power Switch, Operate **ROS/RST** Switch to **RST**; ATP and **RST COMPLETED** Required	—
23	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	—
24	Ensure That Unit Label for CU 1 Is STBY	—
25	Soak CU 1 As STBY CU for 30 Minutes	—
26	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
27	Enter Message **SW:CU!** To Make CU 0 STBY	—
28	Soak CU 1 for 12 Hours To Ensure No Problems Exist With System Operation After Growth	—
29	Verify System Status	DLP-559
30	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!**	—
31	Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	—
32	If CU 0 ACT, Enter Message **SW:CU!** To Make CU 0 STBY	—
33	At MCRT, Depress **EA DISP** (**PF1**) Key	—
34	Enter **12** in Command Mode To Force CU 1 On-Line	—
35	Enter Message **RMV:CU 0!** To Remove CU 0 From Service	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
36	Remove From Service and Power Down CU 0 Using Power Switch	DLP-503
	WARNING: When removing or installing circuit packs, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs	
37	At CU 0, Remove All **TN28** Circuit Packs	DLP-550
38	Install **TN56** Circuit Packs to Desired Memory Size	DLP-551
39	If Memory Packs Are Being Changed in Model 1 3B Computer, Replace Fuses Under Vacant **TN28** Circuit Pack Locations With Dummy Fuses	—
40	Ensure That **UN59B** or **UN59C** Circuit Pack Is Installed in CU 0 (56-166 for Model 1 or 51-112 for Model 2/3)	—
41	Recent Change Main Store Memory Equipage and Member Version	DLP-552
42	At CU 0 Power Switch, Operate **ON** Switch	—
43	Wait for REPT POWER RESTORED CU 0 Message To Be Received at MCRT	—
44	Diagnose CU 0 (DGN:CU 0,MASC 0:PH 1-100!); ATP Required on All Phases Run	DLP-540
45	At MCRT, If Screen Does Not Display EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	—
46	Enter 13 in Command Mode To Remove Force on CU 1	—
47	At CU 0 Power Switch, Operate **ROS**/**RST** Switch to **RST**; ATP and RST COMPLETED Required	—
48	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	—
49	Ensure That Unit Label for CU 0 Is STBY	—
50	Soak CU 0 As STBY CU for 30 Minutes	—
51	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	—
52	Enter Message SW:CU! To Make CU 1 STBY	—
53	Soak Main Store Memory for 12 Hours To Ensure No Problems Exist With System Operation After Growth	—
54	Verify System Status	DLP-559
55	Run File System Audits To Ensure No File System Errors	DLP-569

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
56	Update Backup Data Base	DLP-532
57	Write 3B Computer Backup Tapes	DLP-556
58	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of each night's growth activity 2. This procedure should be performed during light traffic periods 3. Input/output processor (IOP) 0 and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service (including TDAS center if equipped) 4. If office is equipped with TDAS, TDAS will be moved to port 8 (PC20)	
1	Ensure That Data Set and Transmission Facility Associated With Enhanced ICDR Are Installed and Tested	—
2	Request From PINET Administrator, Local Area Network Address (Data Link's Phone Number) Associated With Enhanced ICDR and Record for Later Use	_
3	Verify System Status	DLP-559
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! • INH:DMQ;SRC ART!	_
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	Depress **NORM/DISP** (**PF2**) Key and Enter **114** in Command Mode To Obtain Display Page 114	—
9	Using Display Page 114, Determine if SDL 24 (for TDAS) Is **UNEQ**. Record Each Unit Not in UNEQ State for Later Use	_
10	Enter **115** in Command Mode To Obtain Display Page 115	—
11	Using Display Page 115, Determine if SDLC 12 Is **UNEQ**. Record if Unit Is Not in UNEQ State for Later Use	—
12	If SDLC 12 and/or SDL 24 Is Not UNEQ Perform Items 13 Through 15; Otherwise, Go to Item 16	—
13	Contact TDAS Center To Ensure That No Impairment Will Occur When Data Links on IOP 0, Port 6 (PC12) Are Degrown	_
	(Continued on Page 2)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
14	At MCRT, Enter Appropriate Message(s) To Remove Each Unit Not UNEQ (Item 12) and Ensure That **RMV COMPLETE** Is Received for Each Message Entered: • **RMV:SDL 24!** • **RMV:SDLC 12!**	–
	NOTE: SDL 24 must be degrown before SDLC 12	
15	Degrow SDL 24 and/or SDLC 12 to UNEQ if Not Already UNEQ (Item 12) (Do Not Exit Recent Change)	DLP-548
16	Recent Change UCB and Network Packet Handler Data for SDLC 12 and SDL 24 (Exit Recent Change)	DLP-555
17	At MCRT, Enter Message **OP:AMA;CONTROLFILE:OC!** and Ensure That **TELEPROCESSING SESSION IS NOT IN PROGRESS** Message Is Received	–
18	If **DATA TRANSFER IS NOT MANUALLY INHIBITED** Message Is Received in Printout (Item 17), Enter Message **INH:AMA;SESSION!**	–
19	Notify Users on IOP 0 That IOP Will Be Temporarily Down	–
20	At Power Switch, Remove From Service and Power Down IOP 0	DLP-503
21	Remove Power From Data Set Associated With SDL 24, If Equipped for TDAS	–
22	If Cables Are Connected to SDLC 12 (PC12) in IOP 0 From Data Set (Item 21), Remove Cables	–
23	If TDAS Is Equipped in Office, Perform Items 24 and 25; Otherwise, Go to Item 26	–
24	Connect Cables Removed in Item 22 to SDLC 16 (PC20) in Growth IOP 0	–
25	Ensure **TN75** Circuit Pack Is Installed in PC20 Slot	–
26	If Power Is Applied to Data Set Associated With Enhanced ICDR (Permanent Virtual Circuit) Growth, Remove Power	–
27	Connect PINET RS-449 Cable From Data Set (Item 26) to SDLC 12 (PC12) in IOP 0	–
28	Ensure That **TN75** Circuit Pack Is Installed in PC12 Slot	–
29	At Power Switch, Power Up and Restore IOP 0 to Service	DLP-504
30	Notify Users on IOP 0 To Resume Their Activities	–
31	If TDAS Is Equipped in Office, Perform Items 32 Through 45; Otherwise, Go to Item 46	–
	(Continued on Page 3)	

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
	NOTE: SDLC 16 must be recent changed to grow before SDL 32	
32	Recent Change SDLC 16 and SDL 32 From UNEQ to GROW (Exit Recent Change)	DLP-505
33	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **115** in Command Mode To Obtain Display Page 115	—
34	Ensure That 115 Page Displays SDLC 16 in **GROW**	—
35	Enter **114** in Command Mode To Obtain Display Page 114	—
36	Ensure That 114 Page Displays SDL 32 in **GROW**	—
37	Restore Power to Data Set (Item 21), If Equipped	—
38	Enter Message **DGN:SDLC 16;RAW!** and Ensure That **DGN SDLC 16 ATP COMPLETE** Message Is Received	—
39	Recent Change SDLC 16 and SDL 32 From GROW to OOS (Exit Recent Change)	DLP-506
40	At MCRT, Enter **114** in Command Mode To Obtain Display Page 114	—
41	Ensure That 114 Page Displays SDL 32 in **OOS**	—
42	Enter **115** in Command Mode To Obtain Display Page 115	—
43	Ensure That 115 Page Displays SDLC 16 in **OOS**	—
44	Enter Message **RST:SDLC 16!** and Ensure That **RST SDLC 16 COMPLETED** and **RST SDL 32 COMPLETED** Messages Are Received	—
45	Request TDAS Center To Verify That New TDAS Configuration Works	—
	NOTE: SDLC 12 must be recent changed to grow before SDL 24	
46	Recent Change SDLC 12 and SDL 24 From UNEQ to GROW (Exit Recent Change)	DLP-505
47	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **115** in Command Mode To Obtain Display Page 115	—
48	Ensure That 115 Page Displays SDLC 12 in **GROW**	—
49	Enter **114** in Command Mode To Obtain Display Page 114	—
50	Ensure That 114 Page Displays SDL 24 in **GROW**	—
51	Restore Power to Data Set Associated With Enhanced ICDR	—
52	Enter Message **DGN:SDLC 12;RAW!** and Ensure That **DGN SDLC 12 ATP COMPLETE** Message Is Received	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
53	Recent Change SDLC 12 and SDL 24 From GROW to OOS (Exit Recent Change)	DLP-506
54	At MCRT, Enter **114** in Command Mode To Obtain Display Page 114	—
55	Ensure That 114 Page Displays SDL 24 in OOS	—
56	Enter **115** in Command Mode to Obtain Display Page 115	—
57	Ensure That 115 Page Displays SDLC 12 in **OOS**	—
58	Enter Message **RST:SDLC 12!** and Ensure That **RST SDLC 12 COMPLETED** and **RST SDL 24 COMPLETED** Messages Are Received	_
59	On MCRT Header Line (Top Line on MCRT Display), Verify That an I Is in Third Character Position to Right of OFFICE NAME. If an I Is Not Listed, Perform Items 60 Through 74; Otherwise, Go to Item 75	_
60	Initialize ICDR Feature and Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-535
61	At MCRT, Depress **EA DISP** (**PF1**) Key To Obtain EAI Page	—
62	Enter **42** in Command Mode	—
63	Enter **G** in Command Mode	—
64	Enter **50** in Command Mode To Start Up ICDR Processes; Wait for Following Messages in Printout: • **REPT ICDR DISK WRITER ERROR CODE 27** (If No ICDR Partitions Equipped) • **REPT ICDR DISK WRITER INITIALIZATION COMPLETE** • **REPT ICDR MONITOR CONTROL FILE INITIALIZED** **OFFICE-DEPENDENT VALUES MUST BE RESET** • **REPT ICDR MONITOR ICDR INDICATOR FILE INITIALIZED** **INDICATOR MUST BE RESET** • **REPT ICDR MONITOR INIT COMPLETE**	_
65	Verify That ICDR Processes Are Running	DLP-536
66	At MCRT, Enter **15** in Command Mode on EAI Page To Reinitialization Craft Interface Processes	—
67	Wait for **REPT CFTSHL TERMINAL IN SERVICE** Message	—
68	On MCRT Header Line (Top Line on MCRT Display), Ensure That an I Is in Third Character Position to Right of OFFICE NAME	_

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
69	Equip ICDR Partitions	DLP-537
70	Copy ICDR Files	DLP-541
71	At MCRT, Enter Message **OP:ICDR;DISK!** and Ensure That Output Message Indicates Disk Is 0% Full	DLP-543
72	Enter Message **SET:ICDR;RECORDING:ON!** To Turn On ICDR Recording	—
73	Enter Message **ALW:AMA;SESSION:OC!** To Allow AMA Session	—
74	Set ICDR Control File Parameters	DLP-544
75	At MTC Channel, Enter Message **UPD:CMAP;IC!** To Update CINMAP Files for Teleprocessing	—
76	Verify ICDR Data Is Being Transferred to 3B Computer Disk	DLP-546
77	Request Demand Poll From DPC Through New Permanent Virtual Circuit and Wait for Normal Termination Output Message After Teleprocessing Session. Ensure That Normal Termination Output Message Indicates 0% Disk Occupancy and One or More ICDR Blocks Were Transmitted	DLP-545
78	At MCRT, Enter Following Messages To Allow Diagnostic Processes: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** • **ALW:DMQ;SRC ART!**	—
79	Set DPC Teleprocessing Start and Stop Times	DLP-547
80	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
81	Run File System Audits To Ensure No File System Errors	DLP-569
82	Update Backup Data Base	DLP-532
83	Write 3B Computer Backup Tapes	DLP-556
84	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
		RESPONSIBILITY	
	WARNING: When handling circuit packs or installing wires, an antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs		
	NOTES: 1. Arrangements must be made with users on CNI ring for temporary stoppage when system is booted 2. If converting to Extended Main Memory in 3B Computer Model 2 or 3, IOP Growth Units must already be installed. Associated memory extension cables and bus terminating diodes (BTDs) will be installed during Extended Main Memory conversion. Installation must check to determine if CN CO3040NW is required. If this CN is required, it must be applied during EMM conversion 3. Main Store Memory must already be converted to accept **TN56** circuit packs per NTP-013 4. AMA data should be transferred (tape and/or teleprocessing) prior to each night's growth activity 5. This procedure should be performed during light traffic periods 6. A copy of current generic load must be available either on tape or disk. Local procedures for loading disk from tape and installing backup disk should be reviewed before starting this procedure 7. Items 1 through 47 are preliminary installation activities that can be performed during any light traffic period before Extended Main Memory conversion 8. This procedure contains soak interval for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified		
1	Determine if Extended Main Memory Wires Are Installed (6 Wires for Each CU Plus Memory Extension Cables and BTDs)	TELCO	DLP-565
2	If Backplane Wiring (Not Including Memory Extension Cables and BTDs) Associated With Extended Main Memory Is Not Installed, Perform Items 3 Through 47; Otherwise, Safe Place To Temporarily Stop This Procedure. When Ready To Resume Extended Main Memory Conversion, Go to Item 48	TELCO/INST	—
3	Verify System Status	TELCO	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth		
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
6	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
7	Update Backup Data Base	TELCO	DLP-532
8	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
9	If CU 1 Is ACT, Enter Message SW:CU! To Make CU 1 Standby	TELCO	—
10	Depress **EA DISP** (**PF1**) Key	TELCO	—
11	Enter 12 in Command Mode To Force CU 0 On-Line	TELCO	—
	NOTE: If **UN133C** circuit pack is installed in CU 1 at location 166-160 (for model 1) or 160-146 (for model 2/3), AUD CUSTAT 1 ERROR 18 CORR REPORT COMPLETED message may be received when power is removed		
12	Remove From Service and Power Down CU 1 Using Power Switch	TELCO	DLP-503
13	Verify and Unseat CU 1 Circuit Packs	TELCO/INST	DLP-560
14	At CU 1, Install Backplane Wiring for Extended Main Memory. Do Not Install Enable Wires	INST	—
15	Reseat CU 1 Circuit Packs Unseated in Item 13	TELCO	—
16	At CU 1 Power Switch, Operate **ON** Switch. Do Not Operate **ROS/RST** Switch	TELCO/INST	—
17	Wait for REPT POWER RESTORED CU 1 Message To Be Received on ROP	TELCO/INST	—
18	Diagnose CU 1 (DGN:CU 1;RAW,UCL,DEX!). No Failures Allowed on Tests Run. Expect CC To Pass CATP	TELCO/INST	—
19	At MCRT, if Screen Is Not Displaying EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	TELCO	—
20	Enter 13 in Command Mode To Remove Force on CU 0	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
21	At CU 1 Power Switch, Operate **ROS/RST** Switch to **RST**; ATP and RST COMPLETED Required	TELCO/INST	—
22	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
23	Ensure That Unit Label for CU 1 Is STBY	TELCO	—
24	Soak CU 1 As Standby CU for 30 Minutes	TELCO/INST	—
25	At MCRT, Enter Message SW:CU! To Make CU 1 Active	TELCO	—
26	Soak CU 1 As Active CU for 1 Hour To Verify System Is Stable	TELCO/INST	—
27	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
28	If CU 0 Is ACT, Enter Message SW:CU! To Make CU 0 Standby	TELCO	—
29	Depress **EA DISP** (**PF1**) Key	TELCO	—
30	Enter 12 in Command Mode To Force CU 1 On-Line	TELCO	—
	NOTE: If **UN133C** circuit pack is installed in CU 0 at location 066-160 (for model 1) or 060-146 (for model 2/3), AUD CUSTAT 0 ERROR 18 CORR REPORT COMPLETED message may be received when power is removed		
31	Remove From Service and Power Down CU 0 Using Power Switch	TELCO	DLP-503
32	Verify and Unseat CU 0 Circuit Packs	TELCO/INST	DLP-560
33	At CU 0, Install Backplane Wiring for Extended Main Memory. Do Not Install Enable Wires	INST	—
34	Reseat CU 0 Circuit Packs Unseated in Item 32	TELCO	—
35	At CU 0 Power Switch, Operate **ON** Switch. Do Not Operate **ROS/RST** Switch	TELCO/INST	—
36	Wait for REPT POWER RESTORED CU 0 Message To Be Received on ROP	TELCO/INST	—
37	Diagnose CU 0 (DGN:CU 0;RAW,UCL,DEX!). No Failures Allowed on Tests Run. Expect CC To Pass CATP	TELCO/INST	—
38	At MCRT, if Screen Is Not Displaying EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	TELCO	—
39	Enter 13 in Command Mode To Remove Force on CU 1	TELCO	—
40	At CU 0 Power Switch, Operate **ROS/RST** Switch to **RST**; ATP and RST COMPLETED Required	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
41	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
42	Ensure That Unit Label for CU 0 Is STBY	TELCO	—
43	Soak CU 0 As Active Standby CU for 30 Minutes	TELCO/INST	—
44	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	TELCO	—
45	At MCRT, Enter Message SW:CU! To Make CU 0 Active	TELCO	—
46	Soak CU 0 As Active CU for 1 Hour To Verify System Is Stable	TELCO/INST	—
47	This Is Safe Point To Temporarily Stop This Procedure	TELCO/INST	—
48	Verify System Status	TELCO	DLP-559
49	Dump Equipment Configuration Data Base (ECD) for CU 0 and CU 1 and Save Printouts for Later Use if Back-out Is Required	TELCO	DLP-566
50	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	—
	NOTE: Items 51 through 53 are being performed to ensure clean file system before starting growth		
51	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
52	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
53	Update Backup Data Base	TELCO	DLP-532
	NOTE: Extended Main Memory will be added to CU 1 first		
54	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
55	If CU 1 Is ACT, Enter Message SW:CU! To Make CU 1 Standby	TELCO	—
56	Depress **EA DISP** (**PF1**) Key	TELCO	—
57	Enter 12 in Command Mode To Force CU 0 On-Line	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
	NOTE: If **UN133C** circuit pack is installed in CU 1 at location 166-160 (for model 1) or 160-146 (for model 2/3), **AUD CUSTAT 1 ERROR 18 CORR REPORT COMPLETED** message may be received when power is removed		
58	Remove From Service and Power Down CU 1 Using Power Switch	TELCO	DLP-503
59	Recent Change hv Value and Fields for CU 1	TELCO	DLP-561
60	Verify if Required, and Unseat CU 1 Circuit Packs	TELCO	DLP-567
61	At CU 1, Connect Two Temporary Extended Main Memory Enable Jumper Wires	INST	—
62	Reseat CU 1 Circuit Packs Unseated in Item 60	TELCO	—
63	At IOP 1 Growth Unit, Install Three **TN56** Memory Circuit Packs To Increase Main Memory to 22 MB and if Adding Memory to Model 1 3B Computer, Install Associated Fuses	INST	—
64	If Conversion Is Being Performed for Model 2 or 3, Perform Items 65 Through 68; Otherwise, Go to Item 69	INST	—
65	Ensure Bus Ribbon Cables Between IOP 1 Growth Unit and CU 1 Are Connected	INST	—
66	Ensure BTRs Are Installed in IOP 1 Growth Unit for Extended Main Memory	INST	—
67	Ensure **495FA** Power Converter Is Installed in IOP 1 Growth Unit at Location 142-178	INST	—
68	Ensure Fuses for **495FA** Power Converter (Item 67) Are Installed in Power Distribution Unit	INST	—
69	At CU 1 Power Switch, Operate **ON** Switch. Do Not Operate **ROS/RST** Switch	TELCO	—
70	Wait for **REPT POWER RESTORED CU 1** Message To Be Received on ROP	TELCO/INST	—
71	Diagnose CU 1 (**DGN:CU 1;RAW,UCL,DEX!**). Expect Only MASC Diagnostics Phase 29 (Tests 47, 50, 52, 54, 55, 59, 61, 63, 66) and Phase 31 (Test 24) To Fail. Expect CC, CH 11 and CH 12 to Pass CATP	TELCO/INST	—
72	At CU 1 Power Switch, Operate **OFF** Switch	TELCO	—
73	Wait for **REPT POWER REMOVED CU 1** Message To Be Received on ROP	TELCO	—
74	Unseat CU 1 Circuit Packs	TELCO	DLP-567
75	Remove Two Temporary Extended Main Memory Enable Jumper Wires Connected in Item 61	INST	—
76	Reseat CU 1 Circuit Packs Unseated in Item 74	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
77	At CU 1 Power Switch, Operate **ON** Switch. Do Not Operate **ROS/RST** Switch	TELCO	—
78	Wait for **REPT POWER RESTORED CU 1** Message To Be Received on ROP	TELCO/INST	—
79	At MCRT, if Screen Is Not Displaying EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	TELCO	—
80	Enter **13** in Command Mode To Clear Force on CU 0	TELCO	—
81	At CU 1 Power Switch, Operate **ROS/RST** Switch to **RST** Position	TELCO/INST	—
82	At MCRT, Enter Message **STOP:DMQ!** To Stop Diagnostics (Item 81)	TELCO	—
83	Enter Message **RST:CU 1;UCL!** To Restore CU 1 Unconditionally	TELCO/INST	—
84	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
85	Ensure Unit Label for CU 1 Is **STBY**	TELCO	—
86	Soak CU 1 As Standby CU for 30 Minutes	TELCO/INST	—
87	At MCRT, Enter Message **SW:CU!** To Make CU 1 Active (Expect Start of CU-1 Recovery PRM)	TELCO	—
88	Soak CU 1 As Active CU for 30 Minutes To Verify System Is Stable	TELCO/INST	—
89	Safe Point To Temporarily Stop This Procedure. If Stopping, at MCRT, Enter Following Messages: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	TELCO	—
90	If Procedure Was Stopped (Item 89), Perform Items 91 and 92; Otherwise, Go to Item 93	TELCO	—
91	Verify System Status	TELCO	DLP-559
92	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	TELCO	—
	NOTE: Extended Main Memory will be added to CU 0 next		
93	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
94	If CU 0 Is ACT, Enter Message **SW:CU!** To Make CU 0 Standby	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
95	Depress **EA DISP** (**PF1**) Key	TELCO	—
96	Enter 12 in Command Mode To Force CU 1 On-Line	TELCO	—
	NOTE: If **UN133C** circuit pack is installed in CU 0 at location 066-160 (for model 1) or 066-146 (for model 2/3), **AUD CUSTAT 0 ERROR 18 CORR REPORT COMPLETED** message may be received when power is removed		
97	Remove From Service and Power Down CU 0 Using Power Switch	TELCO	DLP-503
98	Recent Change hv Value and Fields for CU 0	TELCO	DLP-561
99	Verify, if Required, and Unseat CU 0 Circuit Packs	TELCO	DLP-567
100	At CU 0, Connect Two Permanent Extended Main Memory Enable Jumper Wires	INST	—
101	Reseat CU 0 Circuit Packs Unseated in Item 99	TELCO	—
102	At IOP 0 Growth Unit, Install Three **TN56** Memory Circuit Packs To Increase Main Memory to 22 MB and if Adding Memory to Model 1 3B Computer, Install Associated Fuses	INST	—
103	If Conversion Is Being Performed for Model 2 or 3, Perform Items 104 Through 107; Otherwise, Go to Item 108	INST	—
104	Ensure Bus Ribbon Cables Between IOP 0 Growth Unit and CU 0 Are Connected	INST	—
105	Ensure BTRs Are Installed in IOP 0 Growth Unit for Extended Main Memory	INST	—
106	Ensure **495FA** Power Converter Is Installed in IOP 0 Growth Unit at Location 042-178	INST	—
107	Ensure Fuses for **495FA** Power Converter (Item 106) Are Installed in Power Distribution Unit	INST	—
108	At CU 0 Power Switch, Operate **ON** Switch. Do Not Operate **ROS/RST** Switch	TELCO	—
109	Wait for **REPT POWER RESTORED CU 0** Message To Be Received on ROP	TELCO/INST	—
110	Diagnose CU 0 (**DGN:CU 0;RAW,UCL,DEX!**). Expect Only MASC Diagnostics Phase 29 (Tests 47, 50, 52, 54, 55, 59, 61, 63, 66) and Phase 31 (Test 24) to Fail. Expect CC, CH 11, and CH 12 to Pass CATP	TELCO/INST	—
111	Recent Change btparm Form and Activate	TELCO	DLP-562
112	Dump Contents of Disk Data Base and Verify Recent Change Data	TELCO	DLP-575
	(Continued on Page 8)		

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
113	At MCRT, Enter Message **OP:AMA;CONTROLFILE!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Message Is Received for Each AMA Stream (IC and/or OC) in Office	TELCO	—
114	At MCRT, if Screen Is Not Displaying EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	TELCO	—
115	Enter **13** in Command Mode To Clear Force on CU 1	TELCO	—
	CAUTION: The procedure in Item 116 must be read and thoroughly understood before performing		
116	Boot the System To Enable Extended Main Memory. Wait for System To Restore	TELCO/INST	DLP-563
	NOTE: **REPT PCPAUD FAULT TYPE X'2A ASSERT = X'3302** message may be received until enable jumper wires are installed in CU 1		
117	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!**	TELCO	—
118	Verify Extended Main Memory Is Active (**DUMP:PMEM X'240,L 8!**)	TELCO/INST	DLP-568
119	Soak System for 30 Minutes To Ensure System Is Stable	TELCO/INST	—
120	At MCRT, if Screen Is Not Displaying EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	TELCO	—
121	If ACT RUN Is Not Displayed for CU 0, Enter **SW:CU!** To Make CU 0 Active	TELCO	—
122	Enter **12** in Command Mode To Force CU 0 On-Line	TELCO	—
	NOTE: If **UN133C** circuit pack is installed in CU 1 at location 166-160 (for mode1 1) or 160-146 (for model 2/3), **AUD CUSTAT 1 ERROR 18 CORR REPORT COMPLETED** message may be received when power is removed		
123	Remove From Service and Power Down CU 1 Using Power Switch	TELCO	DLP-503
124	Unseat CU 1 Circuit Packs	TELCO	DLP-567
125	At CU 1, Connect Two Permanent Extended Main Memory Enable Jumper Wires	INST	—
126	Reseat CU 1 Circuit Packs Unseated in Item 124	TELCO	—
127	At CU 1 Power Switch, Operate **ON** Switch. Do Not Operate **ROS/RST** Switch	TELCO	—
128	Wait for **REPT POWER RESTORED CU 1** Message To Be Received on ROP	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
129	Diagnose CU 1 (**DGN:CU 1;RAW,DEX!**). Expect CC to Pass CATP. No Failures Allowed on Test Run	TELCO/INST	—
130	At MCRT, if Screen Is Not Displaying EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	TELCO	—
131	Enter **13** in Command Mode To Remove Force on CU 0	TELCO	—
132	At CU 1 Power Switch, Operate **ROS/RST** Switch to **RST** Position	TELCO/INST	—
133	At MCRT, Enter Message **STOP:DMQ!** To Stop Diagnostics (Item 132)	TELCO	—
134	Enter Message **RST:CU 1;UCL!** To Restore CU 1 Unconditionally	TELCO/INST	—
135	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
136	Ensure Unit Label for CU 1 Is **STBY**	TELCO	—
137	Soak CU 1 As Standby CU for 30 Minutes	TELCO/INST	—
138	At MCRT, Enter Message **SW:CU!** To Make CU 1 Active	TELCO	—
139	Soak CU 1 As Active CU for 30 Minutes To Verify System Is Stable	TELCO/INST	—
140	At MCRT, Enter Message **RST:CU 0!** To Diagnose CU 0. **ATP** and **RST COMPLETED** Required	TELCO/INST	—
141	Soak System for 30 Minutes To Verify System Operation	TELCO/INST	—
142	Recent Change rootdmly Data Base	TELCO	DLP-564
143	At MCRT, Enter Message **EXC:ENVIR:UPROC,FN"/tools/bootaud",ARGS("update","/database/ecd")!** To Update Boot Parameter Hashsums. Ensure No Errors Are Found	TELCO	—
144	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	TELCO	—
145	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
146	Update Backup Data Base	TELCO	DLP-532
147	Write 3B Computer Backup Tapes	TELCO	DLP-556
148	Verify Backup Tapes	TELCO	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of each night's growth activity 2. This procedure should be performed during light traffic periods 3. Input/output processor (IOP) 0 and associated subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 4. 4 ESS™ Switch must be in 4E14 generic and 3B computer must be in 4AP<8> generic	
1	Ensure Data Set and Transmission Facility Associated With PINET for OCDD Service Are Installed and Tested	_
2	Request PINET Administrator (1-800-722-5381) for Following Information and Record for Later Use When Recent Changing nphopt Form: • Local Area Network Address (Data Link's Phone Number) Associated With OCDD Service (lana: Field 56) • Number of Private Virtual Circuits for SDL 24 (num_pvcs: Field 62) • PVC Options (pvcopts: Field 83) if num_pvcs Is To Be Set to 1 or more. If num_pvcs Is To Be Set to 0, Field 83, Row 1 Is Set to Blank	_
3	Verify System Status	DLP-559
4	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! • INH:DMQ;SRC ART!	_
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	Depress **NORM/DISP** (**PF2**) Key and Enter **114** in Command Mode To Obtain Display Page 114	—
9	Using Display Page 114, Determine if SDL 24 and SDL 25 Are **UNEQ**. Record if Unit(s) Is Not in UNEQ State for Later Use	_
10	Enter **115** in Command Mode To Obtain Display Page 115	—
11	Using Display Page 115, Determine if SDLC 12 Is **UNEQ**. Record if Unit Is Not in UNEQ State for Later Use	—

DO THE ITEMS BELOW IN THE ORDER LISTED	FOR DETAILS, GO TO
12	If SDLC 12 and/or SDL 24 and SDL 25 (if Equipped) Is Not UNEQ, Perform Items 13 Through 15; Otherwise, Go to Item 16	–
	NOTE: If SDLC 12 is equipped, SDL 24 and SDL 25 (if equipped) must be degrown to unequipped	
13	Contact Support Organization To Determine if SDLC 12, SDL 24, and SDL 25 (if Equipped) Can Be Degrown to UNEQIP	–
14	At MCRT, Enter Appropriate Message(s) To Remove Each Unit Not UNEQ (Items 9 and/or 11) and Ensure **RMV COMPLETE** Is Received for Each Message Entered: • **RMV:SDL 24!** • **RMV:SDL 25!** • **RMV:SDLC 12!**	–
	NOTE: SDL 24 and SDL 25 (if equipped) must be degrown before SDLC 12	
15	Degrow SDL 24 and SDL 25 (if Equipped) and/or SDLC 12 to UNEQ if Not Already UNEQ (Items 9 and/or 11) (Do Not Exit Recent Change)	DLP-548
16	Recent Change ucb and Network Packet Handler Data for SDLC 12 and SDL 24 (Exit Recent Change)	DLP-558
17	At MCRT, Enter Message **OP:AMA;CONTROLFILE!** and Ensure **TELEPROCESSING SESSION IS NOT IN PROGRESS** Message Is Received for Each AMA Stream (IC and/or OC) in Office	–
18	If **DATA TRANSFER IS NOT MANUALLY INHIBITED** Message Is Received in Printout (Item 17), Enter Message **INH:AMA;SESSION:**a! (a = **IC** or **OC**) for Each AMA Stream Not Manually Inhibited	–
19	Notify Users on IOP 0 That IOP Will Be Temporarily Down	–
20	At Power Switch, Remove From Service and Power Down IOP 0	DLP-503
21	If Data Set That Is Not Associated With OCDD Service Is Connected to SDL 24, Perform Items 22 and 23; Otherwise, Go to Item 24	–
22	Remove Power From Data Set Connected to SDL 24	–
23	At IOP 0 SDLC 12 (PC12), Disconnect Data Set Cables	–
24	If Power Is Applied to Data Set Associated With OCDD Service Growth, Remove Power	–
25	Connect PINET RS-449 Cable From Data Set (Item 24) to SDLC 12 (PC12) in IOP 0	DLP-571
26	Ensure **TN75** Circuit Pack Is Installed in PC12 Slot (074-032 for Model 1 or 033-046 for Model 2/3)	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
27	At Power Switch, Power Up and Restore IOP 0 to Service	DLP-504
28	Notify Users on IOP 0 To Resume Their Activities	—
	NOTE: SDLC 12 must be recent changed to grow before SDL 24 and SDL 25 (if Equipped)	
29	Recent Change SDLC 12, SDL 24, and SDL 25 (if Equipped) From UNEQ to GROW (Exit Recent Change)	DLP-505
30	At MCRT, Depress **NORM/DISP** (**PF2**) Key, and Enter **115** in Command Mode To Obtain Display Page 115	—
31	Ensure 115 Page Displays SDLC 12 in GROW State	—
32	Enter **114** in Command Mode To Obtain Display Page 114	—
33	Ensure 114 Page Displays SDL 24 and SDL 25 (if Equipped) in GROW State	—
34	Restore Power to Data Set Associated With OCDD Service	—
35	At MCRT, Enter Message **DGN:SDLC 12;RAW!** and Ensure **DGN SDLC 12 ATP COMPLETE** Message Is Received	—
36	Recent Change SDLC 12, SDL 24, and SDL 25 (if Equipped) From GROW to OOS (Exit Recent Change)	DLP-506
37	At MCRT, Enter **114** in Command Mode To Obtain Display Page 114	—
38	Ensure 114 Page Displays SDL 24 and SDL 25 (if Equipped) in OOS State	—
39	Enter **115** in Command Mode To Obtain Display Page 115	—
40	Ensure 115 Page Displays SDLC 12 in OOS State	—
41	Enter Message **RST:SDLC 12!** and Ensure **RST SDLC 12 COMPLETED**, **RST SDL 24 COMPLETED**, and **RST SDL 25 COMPLETED** (if Equipped) Messages Are Received	—
42	Enter Message **ALW:AMA;SESSION:OC:**a! (a = **IC** or **OC**) for Each AMA Stream in Office	—
43	At MCRT, Enter Following Messages To Allow Diagnostic Processes: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** • **ALW:DMQ;SRC ART!**	—
44	Copy Incore Equipment Configuration Data Base (ECD) to Disk	DLP-507
45	Run File System Audits To Ensure No File System Errors	DLP-569
46	Update Backup Data Base	DLP-532

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
47	Request PINET Administrator To Activate OCDD Service Permanently	—
48	Write 3B Computer Backup Tapes	DLP-556
49	Verify Backup Tapes	DLP-557

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling	
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of growth activity 2. This procedure must be performed during light traffic periods 3. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified	
1	Verify System Status	DLP-559
2	At MCRT, Enter Message **EXC:ENVIR:UPROC,FN"**ducb**",ARGS("CU","0"),OPL 99!** To Dump CU 0 Equipment Configuration Data Base (ECD). Save Printout for Later Use if Backout Required	—
3	Enter Message **EXC:ENVIR:UPROC,FN"**ducb**",ARGS("CU","1"),OPL 99!** To Dump CU 1 ECD. Save Printout For Later Use if Backout Required	—
4	Enter Following Messages To Inhibit Automatic Diagnostics • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!**	—
	NOTE: Items 5 through 7 are being performed to ensure clean file system before starting growth	
5	Copy Incore ECD to Disk	DLP-507
6	Run File System Audits To Ensure No File System Errors	DLP-569
7	Update Backup Data Base	DLP-532
8	At MCRT, Depress **EA DISP** (**PF1**) Key	—
9	If CU 1 Is **ACT RUN**, Enter Message **SW:CU!** To Make CU 1 STBY	—
10	Enter **12** in Command Mode To Force CU 0 On-Line (FONL)	—
11	Enter Message **RMV:CU 1!** To Remove CU 1 From Service; Ensure **RMV CU 1 COMPLETED** Message Is Received	—
12	Remove From Service and Power Down CU 1 Using Power Switch	DLP-503
13	At CU 1, Insert **UN61** Circuit Pack in Position 166-128 (for Model 1) or 160-118 (for Models 2 and 3)	—
	(Continued on Page 2)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
14	Recent Change Major Status to GROW and mv to 1 for CU 1 UC 0	DLP-572
15	At CU 1 Power Switch, Operate **ON** Switch	—
16	Wait for **REPT POWER RESTORED CU 1** Message To Be Received at MCRT	—
17	Diagnose CU 1; ATP Required on All Phases Run	DLP-573
18	Recent Change CU 1 UC 0 From GROW to OOS	DLP-574
19	At MCRT, If Screen Does Not Display EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	—
20	Enter **13** in Command Mode To Remove Force on CU 0	—
21	At CU 1 Power Switch, Operate **ROS**/**RST** Switch to **RST** Position; ATP and RST COMPLETED Required	—
22	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	—
23	Ensure Unit Label for CU 1 Is STBY	—
24	Soak CU 1 As STBY CU for 30 Minutes	—
25	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
26	Enter Message **SW:CU!** To Make CU 0 STBY	—
27	Copy Incore ECD to Disk	DLP-507
28	Soak **UN61** for 12 Hours To Ensure No Problems Exist With System Operation After Growth	—
29	Verify System Status	DLP-559
30	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!**	—
	NOTE: Items 31 through 33 are being performed to ensure clean file system	
31	Copy Incore ECD to Disk	DLP-507
32	Run File System Audits To Ensure No File System Errors	DLP-569
	(Continued on Page 3)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
33	Update Backup Data Base	DLP-532
34	At MCRT, Depress **EA DISP** (**PF1**) Key	—
35	If CU 0 Is **ACT RUN**, Enter Message **SW:CU**! To Make CU 0 STBY	—
36	Enter **12** in Command Mode To Force CU 1 On-Line (FONL)	—
37	Enter Message **RMV:CU 0**! To Remove CU 0 From Service; Ensure **RMV CU 0 COMPLETED** Message Is Received	—
38	Remove From Service and Power Down CU 0 Using Power Switch	DLP-503
39	At CU 0, Insert **UN61** Circuit Pack in Position 066-128 (for Model 1) or 060-118 (for Models 2 and 3)	—
40	Recent Change Major Status to GROW and mv to 1 for CU 0 UC 0	DLP-572
41	At CU 0 Power Switch, Operate **ON** Switch	—
42	Wait for **REPT POWER RESTORED CU 0** Message To Be Received at MCRT	—
43	Diagnose CU 0; ATP Required on All Phases Run	DLP-573
44	Recent Change CU 0 UC 0 From GROW to OOS	DLP-574
45	At MCRT, If Screen Does Not Display EMERGENCY ACTION PAGE, Depress **EA DISP** (**PF1**) Key	—
46	Enter **13** in Command Mode To Remove Force on CU 1	—
47	At CU 0 Power Switch, Operate **ROS**/**RST** Switch to **RST** Position; ATP and RST COMPLETED Required	—
48	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	—
49	Ensure Unit Label for CU 0 Is STBY	—
50	Soak CU 0 As STBY CU for 30 Minutes	—
51	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!**	—
52	Enter Message **SW:CU**! To Make CU 1 STBY	—
53	Copy Incore ECD to Disk	DLP-507
	(Continued on Page 3)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
54	Soak **UN61** for 12 Hours To Ensure No Problems Exist With System Operation After Growth	—
55	Verify System Status	DLP-559
56	Run File System Audits To Ensure No File System Errors	DLP-569
57	Update Backup Data Base	DLP-532
58	Write 3B Computer Backup Tapes	DLP-556
59	Verify Backup Tapes	DLP-557

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

		RESPONSIBILITY	
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling		
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of each night's growth activity 2. This procedure must be performed during light traffic periods 3. A copy of current generic load must be available on tape. Local procedures for loading disk from tape should be reviewed before starting this procdure 4. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during conversion. Arrangements must be made with users for temporary stoppage when IOP is removed from service 5. When input message creates a printout of several message responses, the order of the printed message responses may be different from what is shown in the procedure due to message spooling 6. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified		
1	Decision To Backout This Procedure Must Be Determined From Situation Involved. PECC and/or NESAC Must Be Consulted and Assist in Making the Decision and Must Assist During Backout	TELCO/INST	—
2	Verify Minimum Configuration ECD Contains References to MHD0 and MHD1 Only	TELCO	DLP-589
3	Verify System Status	TELCO	DLP-559
4	Perform Preliminary Installation Activities	INST	—
5	Safe Point To Temporarily Stop This Procedure	INST	—
	NOTES: 1. Software tools BWM must be applied before performing conversion procedure 2. SCSI disks will be converted in DFC 0 community first 3. DFC 1 will be simplex until DFC 0 is converted. All actions must be on DFC 0 until DFC 0 is converted		
6	If Procedure Was Stopped (Item 5), Verify System Status	TELCO	DLP-559

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
7	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! • INH:REX:CU! • INH:REX:DFC! • INH:REX:IOP!	TELCO	—
	NOTE: Items 8 through 10 are being performed to ensure clean file system before starting conversion		
8	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
9	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
10	Update Backup Data Base	TELCO	DLP-532
11	Verify Software Tools BWM Is Applied (OP:STATUS:LISTDIR,FN"/database"!)	TELCO	DLP-576
12	Stop SCSI Disk Schedules in CRONTAB	TELCO	DLP-587
	NOTE: Each verify (Item 13) will take approximately 15 minutes		
13	At MCRT, Enter Message **VFY:MHD** a! (a = Odd MHD Member Number) for One Odd Numbered 340MB MHD. Wait for **VFY MHD** a **COMPLETED** Message To Be Received Before Continuing	TELCO	—
14	Repeat Item 13 for Each Odd Numbered 340MB MHD	TELCO	—
15	At 1A MTC Channel, Enter Message **INH:AUD:NUM 43**!; Ensure Message Is Received Indicating Audit 43 Inhibited	TELCO	—
16	At MCRT, Enter Message **RMV:DFC 0**!; Ensure **RMV DFC 0 COMPLETED** Message Is Received	TELCO	—
17	At Power Switch for One Even Numbered 340MB MHD, Ensure **OOS** LED Is On	TELCO	—
18	At 340MB MHD (Item 17), Depress **WRITE PROTECT** Switch. Ensure **WRITE PROTECT** Light is On	TELCO	—
19	Repeat Items 17 and 18 for Each Even Numbered 340MB MHD	TELCO	—
20	At DFC 0 Power Switch, Ensure **OOS** LED is On	TELCO	—
21	At Unit Power Switch, Operate **OFF** Switch to OFF	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
22	Change SCSI-DFC 0, SBUS 0, SBUS 2, and All Even Numbered SCSI-MHDs to GROW (**EXC:ENVIR:UPROC,FN"**/database/ch2scgr0**",ARGS** (a,b)!)	TELCO	DLP-577
23	Stop PSM Error Report and Read Current Configuration (**STOP:EXC:ANY,FN"**/prc/psm**",UCL**!)	TELCO	DLP-586
24	At MCRT, Enter Message **RMV:SCSDC 1**!; Ensure **RMV SCSDC 1 COMPLETED** Message Is Received	TELCO	—
25	Enter Message **RST:SCSDC 1**! To Cause ECD Information for New SCSI Cabinets and Controller To Be Read; Ensure **RST SCSDC 1 COMPLETED** Message Is Received	TELCO	—
26	Restart Controlling Process for Page 120 To Change Display (**STOP:EXC:ANY,FN"**/cft/dap/dkdip**",UCL**!)	TELCO	DLP-578
27	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter **120** in Command Mode To Obtain Display Page 120	TELCO	—
28	Ensure Page 120 Displays SCSI-DFC 0, SBUS 0, and SBUS 2 in GROW State	TELCO/INST	—
	NOTE: Two or more MHDs may still show as unequipped on Page 120 display. Refer to printout and ensure that all even numbered SCSI-MHDs are shown in GROW State on printout		
29	At MCRT, Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
30	Ensure CUs Are in ACT/STBY Mode	TELCO	—
31	At MCRT, Depress **EA DISP** (**PF1**) Key	TELCO	—
32	If CU 0 Is **ACT RUN**, Enter Message **SW:CU**! To Make CU 0 STBY	TELCO	—
33	Enter **12** in Command Mode To Force CU 1 On-Line (**FONL**)	TELCO	—
34	Remove From Service and Power Down CU 0	TELCO	DLP-503
35	At CU 0, Disconnect DSCH Cable of DFC 0	INST	—
36	At CU 0, Connect SCSI-DFC 0 DSCH Cable to Same Location Where DFC 0 DSCH Cable Was Disconnected (Item 35)	INST	—
37	If SCSI-MHDs Are Being Converted in Model 1 3B Computer, Perform Item 38; Otherwise, Go to Item 39	TELCO/INST	—
38	At CU 0, Disconnect 340MB MHD Alarm Cable. Then Connect SCSI Cabinet Alarm Cable to Same Location Where 340MB MHD Alarm Cable Was Disconnected (Do Not Connect Cable at SCSI Cabinet End)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
39	Locate Office Alarm Cable Identified in Preliminary Installation Activities and Move to Proper CU 0 Location (Model 2/3 Only)	INST	—
40	At CU 0 Power Switch, Depress **ON** Switch; Ensure REPT POWER RESTORED CU 0 Message Is Received (Leave **ROS**/**RST** Switch in **ROS** Position)	TELCO/INST	DLP-579
41	At SCSI-DFC 0 Power Switch, Depress **ON** Switch; Ensure **OFF** LED Off (Leave **ROS**/**RST** Switch in **ROS** Position)	INST	—
42	Diagnose CU 0 DSCH 11 Using SCSI-DFC 0 as Helper; Ensure DGN CU 0 CH 11 ATP MESSAGE COMPLETE Message Is Received (DGN:CU 0,CH 11:PH 40,DFC 0!)	TELCO/INST	DLP-580
43	At MCRT, if EAI Page Is Not Displayed, Depress **EA DISP** (**PF1**) Key	TELCO	—
44	Enter 13 in Command Mode To Clear Force on CU 1	TELCO	—
	NOTE: CU restore (Item 45) will take approximately 15 minutes		
45	At CU 0 Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure CU 0 and Each Associated Subunit Restore to Service	TELCO/INST	DLP-582
46	Wait 10 Minutes After Restoral for CU 0 To Stabilize	TELCO/INST	—
47	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
48	Ensure CUs Are in ACT/STBY Mode	TELCO	—
49	At MCRT, Depress **EA DISP** (**PF1**) Key	TELCO	—
50	If CU 1 Is **ACT RUN**, Enter Message SW:CU! To Make CU 1 STBY	TELCO	—
51	Enter 12 in Command Mode To Force CU 0 On-Line (**FONL**)	TELCO	—
	NOTE: Phase 13 error message may be received for DFC 0 diagnostic. Phase 13 will result in CATP output		
52	Diagnose SCSI-DFC 0 (DGN:DFC 0;RAW!)	TELCO/INST	DLP-583
53	At SCSI-DFC 0 Power Switch, Depress **OFF** and **MOR** Switches Simultaneously To Power Down SCSI-DFC 0	INST	—
54	Remove From Service and Power Down CU 1	TELCO	DLP-503
55	At CU 1, Disconnect DSCH Cable of DFC 0	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
56	At CU 1, Connect SCSI-DFC 0 DSCH Cable to Same Location Where DFC 0 DSCH Cable Was Disconnected (Item 55)	INST	—
57	If SCSI-MHDs Are Being Converted in Model 2 or Model 3 3B Computer, Perform Item 58; Otherwise, Go to Item 59	TELCO/INST	—
58	At CU 1, Disconnect 340MB MHD Alarm Cable. Then Connect SCSI Cabinet Alarm Cable to Same Location Where 340MB MHD Alarm Cable Was Disconnected (Do Not Connect Cable at SCSI Cabinet End)	INST	—
59	Locate Office Alarm Cable Identified in Preliminary Installation Activities and Move to Proper CU 1 Location (Model 1 Only)	INST	—
60	At CU 1 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED CU 1** Message Is Received (Leave **ROS**/**RST** Switch in **ROS** Position)	TELCO/INST	DLP-579
61	At SCSI-DFC 0 Power Switch, Depress **ON** Switch; Ensure **OFF** LED Off (Leave **ROS**/**RST** Switch in **ROS** Position)	INST	—
62	Diagnose CU 1 DSCH 11 Using SCSI-DFC 0 as Helper; Ensure **DGN CU 1 CH 11 ATP MESSAGE COMPLETE** Message Is Received (**DGN:CU 1,CH 11:PH 40,DFC 0!**)	TELCO/INST	DLP-580
63	Diagnose SCSI-DFC 0 Using CU 1 as Helper; Ensure **DGN DFC 0 ATP MESSAGE COMPLETE** Message Is Received (**DGN:DFC 0:PH 15,CU 1!**)	TELCO/INST	DLP-581
64	At MCRT, if EAI Page Is Not Displayed, Depress **EA DISP** (**PF1**) Key	TELCO	—
65	Enter **13** in Command Mode To Clear Force on CU 0	TELCO	—
	NOTE: CU restore (Item 66) will take approximately 15 minutes		
66	At CU 1 Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure CU 1 and Each Associated Subunit Restore to Service	TELCO/INST	DLP-582
67	Wait 10 Minutes After Restoral for CU 1 To Stabilize	TELCO/INST	—
68	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
69	Ensure CUs Are in ACT/STBY Mode	TELCO	—
70	At MCRT, Depress **EA DISP** (**PF1**) Key	TELCO	—
71	If CU 0 Is **ACT RUN**, Enter Message **SW:CU!** To Make CU 0 STBY	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
72	Enter **12** in Command Mode To Force CU 1 On-Line (**FONL**)	TELCO	—
73	Enter Message **RMV:CU 0!** To Remove CU 0 From Service; Ensure **RMV CU 0 COMPLETED** Message Is Received	TELCO	—
74	Diagnose SCSI-DFC 0 Using CU 0 as Helper; Ensure **DGN DFC 0 ATP MESSAGE COMPLETE** Message Is Received (**DGN:DFC 0:PH 15,CU 0!**)	TELCO/INST	DLP-581
75	Ensure ID Switch on Each Even Numbered SCSI-MHD Is Set Correctly	INST	—
76	At Power Switch for One Even Numbered SCSI-MHD, Depress **ON** Switch To Power Up SCSI-MHD (Leave **ROS**/**RST** Switch in the **ROS** Position)	INST	—
77	Wait 30 Seconds Before Continuing To Allow SCSI-MHD To Complete Spin Up	INST	—
78	Repeat Items 76 and 77 for Each Even Numbered SCSI-MHD	INST	—
	NOTE: All even numbered SCSI-MHDs must complete spin up before continuing		
79	Diagnose SCSI-DFC 0 With CU 1 Active (**DGN:DFC 0;RAW!**)	TELCO/INST	DLP-583
80	At MCRT, if EAI Page Is Not Displayed, Depress **EA DISP** (**PF1**) Key	TELCO	—
81	Enter **13** in Command Mode To Clear Force on CU 1	TELCO	—
82	Enter Message **RST:CU 0;UCL!** To Restore CU 0 Unconditionally; Ensure **RST CU 0 COMPLETED** Message Is Received	TELCO/INST	—
83	Wait 10 Minutes After Restoral for CU 0 To Stabilize	TELCO/INST	—
84	At Power Switch for One Even Numbered SCSI-MHD, Depress **OFF** and **MOR** Switches Simultaneously To Power Down SCSI-MHD	INST	—
85	Repeat Item 84 for Each Even Numbered SCSI-MHD	INST	—
86	At SCSI-DFC 0 Power Switch, Depress **OFF** and **MOR** Switches Simultaneously To Power Down SCSI-DFC 0	INST	—
87	Notify Users on IOP 0 That IOP Will Be Temporarily Down	TELCO	—
88	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
	(Continued on Page 7)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
89	If 102 Page Displays MTTY and/or ROP Connected to IOP 0, Perform One of the Following to Switch Port Switch:		
	A. If MTTY and ROP Are Connected, Enter **401** in Command Mode	TELCO	—
	B. If ROP Only Is Connected, Enter **402** in Command Mode	TELCO	—
	C. If MTTY Only Is Connected, Enter **403** in Command Mode	TELCO	—
90	Remove From Service and Power Down IOP 0	TELCO	DLP-503
91	At IOP 0, Disconnect SCSD Cable of DFC 0	INST	—
92	At IOP 0, Connect SCSD Cable of SCSI-DFC 0 to Same Location Where DFC 0 Was Disconnected (Item 91)	INST	—
93	At IOP 0, Disconnect SCSD Cable of 340MB MHD 0	INST	—
94	At IOP 0, Connect SCSD Cable From SCSI-MHD 0	INST	—
95	Repeat Items 93 and 94 for Each Equipped Even Numbered SCSI-MHD	INST	—
96	At SCSI-DFC 0 and Each Even Numbered SCSI-MHD Power Switches, Verify **ROS**/**RST** Switches Still in **ROS** Position	INST	—
97	Power Up IOP 0 and Restore to Service	TELCO	DLP-504
98	At SCSI-DFC 0 and Each Even Numbered SCSI-MHD Power Switches, Verify **OOS** LEDs On	INST	—
99	Notify Users That Are on IOP 0 To Resume Their Activities	TELCO	—
100	At SCSI-DFC 0 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED DFC 0** Message Is Received	INST	—
101	At MCRT, Depress **ALM RLS** (**PF4**) Key. Ensure No Audio or Visual Alarms Are Present	INST	—
	NOTE: Items 102 through 106 are being performed to test SCSI-DFC 0 SCSD cable		
102	At SCSI-DFC 0 Power Switch, Depress **OFF** Switch; Ensure **REPT POWER REMOVED DFC 0** Message Is Received	INST	—
103	At SCSI-DFC 0 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED DFC 0** Message Is Received	INST	—
104	At MCRT, Depress **ALM RLS** (**PF4**) Key. Ensure No Audio or Visual Alarms Are Present	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
105	At SCSI-DFC 0 Power Switch, Operate **ROS/RST** Switch to **RST**; Ensure DGN DFC 0 CATP (X'00000303 X'00000000) MSG COMPLETE Message Is Received. Verify **ROS** LED Off	INST	—
106	At SCSI-DFC 0 Power Switch, Operate **ROS/RST** Switch to **ROS**. Verify **ROS** and **OOS** LEDs On	INST	—
107	Change Major State of SCSI-DFC 0 to OOS (EXC:ENVIR:UPROC,FN"/database/ch2sdos0",ARGS a!)	TELCO/INST	DLP-584
108	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter 120 in Command Mode To Obtain Display Page 120	TELCO	—
109	Ensure Page 120 Displays DFC 0, SBUS 0, and SBUS 2 in OOS State	TELCO/INST	—
	NOTES: 1. Disregard MHD diagnostic error messages when SCSI-DFC 0 Power Switch Is Set to **RST** 2. SCSI-DFC 0 restore (Item 110) will take approximately 10 minutes		
110	At SCSI-DFC 0 Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure DFC 0, SBUS 0, and SBUS 2 Are Restored to Service. Verify **ROS** and **OOS** LEDs Off	INST	—
	NOTE: Items 111 through 115 are being performed to test each even numbered SCSI-MHD		
111	At One Even Numbered SCSI-MHD Power Switch, Depress **ON** Switch; Ensure REPT POWER RESTORED MHD a Message Is Received, Verify **OFF** LED Off and **ROS** and **OOS** LEDs On	INST	—
112	Wait 30 Seconds Before Continuing To Allow SCSI-MHD To Complete Spin Up	INST	—
113	At SCSI-MHD Power Switch (Item 111), Operate **ROS**/**RST** Switch to **RST**; Ensure DGN MHD a ATP MESSAGE COMPLETE Message Is Received. Verify **ROS** LED Off	INST	—
114	At SCSI-MHD Power Switch (Item 111), Operate **ROS**/**RST** Switch to **ROS**. Verify **ROS** and **OOS** LEDs On	INST	—
115	At SCSI-MHD Power Switch (Item 111), Depress **OFF** Switch; Ensure REPT POWER REMOVED MHD a Message Is Received. Verify **OFF** LED Is On	INST	—
116	Repeat Items 111 Through 115 for Each Even Numbered SCSI-MHD	TELCO/INST	—
117	At Power Switch for One Even Numbered SCSI-MHD, Depress **ON** Switch; Ensure REPT POWER RESTORED MHD a Message Is Received	INST	—
118	Repeat Item 117 for Each Even Numbered SCSI-MHD	INST	—
119	Change Major State of Even SCSI-MHDs to OOS (EXC:ENVIR:UPROC,FN"/database/ch2smos0",ARGS a!)	TELCO	DLP-585
120	At MCRT, if Page 120 Is Not Displayed, Enter 120 in Command Mode	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
121	Ensure Page 120 Displays All Even Numbered SCSI-MHDs in OOS State	TELCO/INST	—
122	Ensure Page 120 Displays **PUMP CODE** for DFC 0. If **FIRMWARE** Is Displayed for DFC 0, Enter Message **LOAD:DFC 0;PUMP!**	TELCO/INST	—
123	Init Even Numbered SCSI-MHDs per Appropriate Number of SCSI-MHD Pairs Grown:		
	A. Two SCSI-MHD Pairs Grown:		
	1. At MCRT, Enter Message **INIT:MHD 0:VFY!**	TELCO	—
	2. Ensure **INIT MHD** a **COMPLETED** Message Is Received for Each Initiated Even Numbered SCSI-MHD	INST	—
	3. Repeat Item 123.A for SCSI-MHD 2 (Replacing 0 With 2 in the Message)	TELCO/INST	—
	B. Three SCSI-MHD Pairs Grown:		
	NOTES: 1. Items 123.B.1 and 123.B.2 must be performed to run **INIT** on two equipped even numbered SCSI-MHDs at same time (Perform Items 123.B.1 and 123.B.2 without waiting for a completion message between items) 2. Following Item will take approximately 30 minutes to complete		
	1. At MCRT, Enter Message **INIT:MHD 0:VFY!**	TELCO	—
	2. Enter Message **INIT:MHD 4:VFY!**	TELCO	—
	3. Ensure **INIT MHD** a **COMPLETED** Message Is Received for Each Initiated Even Numbered SCSI-MHD	INST	—
	4. At MCRT, Enter Message **INIT:MHD 2:VFY!**	TELCO	—
	5. Ensure **INIT MHD** a **COMPLETED** Message Is Received	INST	—
	C. Four SCSI-MHD Pairs Grown:		
	NOTES: 1. Items 123.C.1 and 123.C.2 must be performed to run **INIT** on two equipped even numbered SCSI-MHDs at same time (Perform Items 123.C.1 and 123.C.2 without waiting for a completion message between items) 2. Following Item will take approximately 30 minutes to complete		
	1. At MCRT, Enter Message **INIT:MHD 0:VFY!**	TELCO	—
	2. Enter Message **INIT:MHD 4:VFY!**	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
123 (Contd)	3. Ensure **INIT MHD** a **COMPLETED** Message Is Received for Each Initiated Even Numbered SCSI-MHD	INST	—
	4. Repeat Items 123.C.1 Through 123.C.3 for SCSI-MHDs 2 and 6 (Replacing 0 With 2 and 4 With 6 in the Messages)	TELCO/INST	—
124	Apply VTOC To Each Even Numbered SCSI-MHD That Does Not Have Equivalent 340MB MHD (Possibly As in a Growth MHD 6 and a Growth MHD 4)	TELCO/INST	DLP-530
	NOTE: Following Item will take approximately 30 minutes to complete		
125	At One Even Numbered SCSI-MHD Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure **RST MHD** a **COMPLETED** Message Is Received. Verify **ROS** and **OOS** LEDs Off	INST	—
126	Repeat Item 125 for Each Even Numbered SCSI-MHD	INST	—
	NOTES: 1. Do not continue until all even numbered SCSI-MHDs are restored 2. Do not allow REX:DFC or REX:IOP (Item 127)		
127	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • **ALW:DMQ;SRC REX!** • **ALW:DMQ;SRC ADP!** • **ALW:REX:CU!**	TELCO	—
128	Start SCSI Disk Schedules in CRONTAB	TELCO	DLP-588
	NOTE: Keep current set of backup tapes in case of problems that may require recovery action		
129	At MCRT, Enter Message **EXC:ENVIR:UPROC,FN"/tools/bootaud",ARGS("update","/database/ecd")!;** Ensure **EXC ENVIR UPROC /tools/bootaud COMPLETED** Message With No Errors Is Received	TELCO/INST	—
130	At 1A MTC Channel, Enter Message **ALW:AUD:NUM 43!.** Then Enter Message **OP:AUDSTAT!** And Ensure That **OP:AUDSTAT** Printout Does Not Include 43	TELCO	—
131	At 1A MTC Channel, Enter Message **AUD:NUM 43!;** Ensure **0 ERROR** Mesage Is Received. If **0 ERROR** Message Is Not Received, Contact Appropriate Support Organization	TELCO/INST	—
132	At MCRT, Depress **ALM RLS (PF4)** Key. Ensure No Audio or Visual Alarms Are Present	TELCO/INST	—
133	Soak SCSI-DFC 0 and All Even Numbered SCSI-MHDs for 18 Hours, With One CU Active	TELCO/INST	—
134	Perform Items 135 Through 139 During Item 140	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED			FOR DETAILS, GO TO
135	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
136	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
137	Update Backup Data Base	TELCO	DLP-532
138	Write 3B Computer Backup Tapes	TELCO	DLP-556
139	Verify Backup Tapes	TELCO	DLP-557
140	Soak SCSI-DFC 0 and All Even Numbered SCSI-MHDs for 18 Hours With Other CU Active	TELCO/INST	—
141	Safe Point To Temporarily Stop This Procedure	TELCO/INST	—
142	Verify System Status	TELCO	DLP-559
143	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! • INH:REX:CU! • INH:REX:DFC! • INH:REX:IOP!	TELCO	—
	NOTE: Items 144 through 146 are being performed to ensure clean file system before starting conversion		
144	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
145	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
146	Update Backup Data Base	TELCO	DLP-532
147	Stop SCSI Disk Schedules in CRONTAB	TELCO	DLP-587
	NOTES: 1. This is start of conversion to SCSI-DFC 1 and odd numbered SCSI-MHDs 2. DFC 0 will be simplex until DFC 1 is converted. All actions must be on DFC 1 until DFC 1 is converted		
148	Verify Even Numbered SCSI-MHDs per Appropriate Number of SCSI-MHD Pairs Grown:		
	A. Two SCSI-MHD Pairs Grown:		
	1. At MCRT, Enter Message VFY:MHD 0!	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
148 (Contd)	2. Ensure **VFY MHD** a **COMPLETED** Message Is Received for Each Verified Even Numbered SCSI-MHD	INST	—
	3. Repeat Item 148.A for SCSI-MHD 2 (Replacing 0 With 2 in the Message)	TELCO/INST	—
	B. Three SCSI-MHD Pairs Grown:		
	NOTES: 1. Items 148.B.1 and 148.B.2 must be performed to run **INIT** on two equipped even numbered SCSI-MHDs at same time (Perform Items 148.B.1 and 148.B.2 without waiting for a completion message between items) 2. Following Item will take approximately 30 minutes to complete		
	1. At MCRT, Enter Message **VFY:MHD 0!**	TELCO	—
	2. Enter Message **VFY:MHD 4!**	TELCO	—
	3. Ensure **VFY MHD** a **COMPLETED** Message Is Received for Each Verified Even Numbered SCSI-MHD	INST	—
	4. At MCRT, Enter Message **VFY:MHD 2!**	TELCO	—
	5. Ensure **VFY MHD** a **COMPLETED** Message Is Received	INST	—
	C. Four SCSI-MHD Pairs Grown:		
	NOTES: 1. Items 148.C.1 and 148.C.2 must be performed to run **INIT** on two equipped even numbered SCSI-MHDs at same time (Perform Items 148.C.1 and 148.C.2 without waiting for a completion message between items) 2. Following Item will take approximately 30 minutes to complete		
	1. At MCRT, Enter Message **VFY:MHD 0!**	TELCO	—
	2. Enter Message **VFY:MHD 4!**	TELCO	—
	3. Ensure **VFY MHD** a **COMPLETED** Message Is Received for Each Initiated Even Numbered SCSI-MHD	INST	—
	4. Repeat Items 148.C.1 Through 148.C.3 for SCSI-MHDs 2 and 6 (Replacing 0 With 2 and 4 With 6 in the Messages)	TELCO/INST	—
149	At 1A MTC Channel, Enter Message **INH:AUD:NUM 43!**; Ensure Message Is Received Indicating Audit 43 Inhibited	TELCO	—
150	At MCRT, Enter Message **RMV:DFC 1!**; Ensure **RMV DFC 1 COMPLETED** Message Is Received	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
151	At Power Switch for One Odd Numbered 340MB MHD, Ensure **OOS** LED Is On	TELCO	—
152	At 340MB MHD (Item 151), Depress **WRITE PROTECT**; Ensure **WRITE PROTECT** Light is On	TELCO	—
153	Repeat Items 151 and 152 for Each Odd Numbered 340MB MHD	TELCO	—
154	At DFC 1 Power Switch, Ensure **OOS** LED is On	TELCO	—
155	At Unit Power Switch, Operate **OFF** Switch to Off	TELCO	DLP-503
156	Change SCSI-DFC 1, SBUS 1, SBUS 3, and All Odd Numbered SCSI-MHDs to GROW (**EXC:ENVIR:UPROC,FN"**/database/ch2scgr1**",ARGS** (a,b)!)	TELCO	DLP-577
157	Stop PSM Error Report and Read Current Configuration (**STOP:EXC:ANY,FN"**/prc/psm**",UCL**!)	TELCO	DLP-586
158	Restart Controlling Process for Page 120 To Change Display (**STOP:EXC:ANY,FN"**/cft/dap/dkdip**",UCL**!)	TELCO	DLP-578
159	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter **120** in Command Mode to Obtain Display Page 120	TELCO	—
160	Ensure Page 120 Displays SCSI-DFC 1, SBUS 1, and SBUS 3 in GROW state	TELCO/INST	—
	NOTE: Two or More MHDs may still show as unequipped on Page 120 display. Refer to printout and ensure that all odd numbered SCSI-MHDs are shown in GROW state on printout.		
161	At MCRT, Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
162	Ensure CUs Are in ACT/STBY Mode	TELCO	—
163	At MCRT, Depress **EA DISP** (**PF1**) Key	TELCO	—
164	If CU 0 Is **ACT RUN**, Enter Message **SW:CU**! To Make CU 0 STBY	TELCO	—
165	Enter **12** in Command Mode To Force CU 1 On-Line (**FONL**)	TELCO	—
166	Remove From Service and Power Down CU 0	TELCO	DLP-503
167	At CU 0, Disconnect DSCH Cable of DFC 1	INST	—
168	At CU 0, Connect SCSI-DFC 1 DSCH Cable to Same Location Where DFC 1 DSCH Cable Was Disconnected (Item 167)	INST	—
169	At CU 0 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED CU 0** Message Is Received (Leave **ROS**/**RST** Switch in **ROS** Position)	TELCO/INST	DLP-579
170	At SCSI-DFC 1 Power Switch, Depress **ON** Switch; Ensure **OFF** LED Off (Leave **ROS/RST** Switch in **ROS** Position)	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
171	Diagnose CU 0 DSCH 11 Using SCSI-DFC 1 as Helper; Ensure **DGN CU 0 CH 11 ATP MESSAGE COMPLETE** Message Is Received (**DGN:CU 0,CH 11:PH 40,DFC 1!**)	TELCO/INST	DLP-580
172	At MCRT, if EAI Page Is Not Displayed, Depress **EA DISP** (**PF1**) Key	TELCO	—
173	Enter **13** in Command Mode To Clear Force on CU 1	TELCO	—
	NOTE: CU restore (Item 174) will take approximately 15 minutes		
174	At CU 0 Power Switch, Operate **ROS/RST** Switch to **RST**; Ensure CU 0 and Each Associated Subunit Restore to Service	TELCO/INST	DLP-582
175	Wait 10 Minutes After Restoral for CU 0 To Stabilize	TELCO/INST	—
176	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **102** in Commmand Mode To Obtain Display Page 102	TELCO	—
177	Ensure CUs Are in ACT/STBY Mode	TELCO	—
178	At MCRT, Depress **EA DISP** (**PF1**) Key	TELCO	—
179	If CU 1 Is **ACT RUN**, Enter Message **SW:CU!** To Make CU 1 STBY	TELCO	—
180	Enter **12** in Command Mode To Force CU 0 On-Line (**FONL**)	TELCO	—
	NOTE: Phase 13 error message may be received for DFC 1 diagnostic. Phase 13 will result in CATP output		
181	Diagnose SCSI-DFC 1 (**DGN:DFC 1;RAW!**)	TELCO/INST	DLP-583
182	At SCSI-DFC 1 Power Switch, Depress **OFF** and **MOR** Switches Simultaneously To Power Down SCSI-DFC 1	INST	—
183	Remove From Service and Power Down CU 1	TELCO/INST	DLP-503
184	At CU 1, Disconnect DSCH Cable of DFC 1	INST	—
185	At CU 1, Connect SCSI-DFC 1 DSCH Cable to Same Location Where DFC 1 DSCH Cable Was Disconnected (Item 184)	INST	—
186	At CU 1 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED CU 1** Message Is Received (Leave **ROS**/**RST** Switch in **ROS** Position)	TELCO/INST	DLP-579
187	At SCSI-DFC 1 Power Switch, Depress **ON** Switch; Ensure **OFF** LED Off (Leave **ROS**/**RST** Switch in **ROS** Position)	INST	—
188	Diagnose CU 1 DSCH 11 Using SCSI-DFC 1 as Helper; Ensure **DGN CU 1 CH 11 ATP MESSAGE COMPLETE** Message Is Received (**DGN:CU 1,CH 11:PH 40,DFC 1!**)	TELCO/INST	DLP-580

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
189	Diagnose SCSI-DFC 1 Using CU 1 as Helper; Ensure **DGN DFC 1 ATP MESSAGE COMPLETE** Message Is Received (**DGN:DFC 1:PH 15,CU 1!**)	TELCO/INST	DLP-581
190	At MCRT, if EAI Page Is Not Displayed, Depress **EA DISP** (**PF1**) Key	TELCO	–
191	Enter **13** in Command Mode To Clear Force on CU 0	TELCO	–
	NOTE: CU restore (Item 192) will take approximately 15 minutes		
192	At CU 1 Power Switch, Operate **ROS/RST** Switch to **RST**; Ensure CU 1 and Each Associated Submit Restore to Service	TELCO/INST	DLP-582
193	Wait 10 Minutes After Restoral for CU 1 To Stabilize	TELCO/INST	–
194	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	–
195	Ensure CUs Are in ACT/STBY Mode	TELCO	–
196	At MCRT, Depress **EA DISP** (**PF1**) Key	TELCO	–
197	If CU 0 Is **ACT RUN**, Enter Message **SW:CU!** To Make CU 0 STBY	TELCO	–
198	Enter **12** in Command Mode To Force CU 1 On-Line (**FONL**)	TELCO	–
199	Enter Message **RMV:CU 0!** To Remove CU 0 From Service; Ensure **RMV CU 0 COMPLETED** Message Is Received	TELCO	–
200	Diagnose SCSI-DFC 1 Using CU 0 as Helper; Ensure **DGN DFC 1 ATP MESSAGE COMPLETE** Message Is Received (**DGN:DFC 1:PH 15,CU 0!**)	TELCO/INST	DLP-581
201	Ensure ID Switch on Each Odd Numbered SCSI-MHD Is Set Correctly	INST	–
202	At Power Switch for One Odd Numbered SCSI-MHD, Depress **ON** Switch To Power Up SCSI-MHD (Leave **ROS**/**RST** Switch in the **ROS** Position)	INST	–
203	Wait 30 Seconds Before Continuing To Allow SCSI-MHD To Complete Spin Up	INST	–
204	Repeat Items 202 and 203 for Each Odd Numbered SCSI-MHD	INST	–
	NOTE: All odd numbered SCSI-MHDs must complete spin up before continuing		
205	Diagnose SCSI-DFC 1 With CU 1 Active (**DGN:DFC 1;RAW!**)	TELCO/INST	DLP-583
206	At MCRT, if EAI Page Is Not Displayed, Depress **EA DISP** (**PF1**) Key	TELCO	–
207	Enter **13** in Command Mode To Clear Force on CU 1	TELCO	–
208	Enter Message **RST:CU 0;UCL!** To Restore CU 0 Unconditionally; Ensure **RST CU 0 COMPLETED** Message Is Received	TELCO/INST	–

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
209	Wait 10 Minutes After Restoral for CU 0 To Stablize	TELCO/INST	—
210	At Power Switch for One Odd Numbered SCSI-MHD, Depress **OFF** and **MOR** Switches Simultaneously To Power Down SCSI-MHD	INST	—
211	Repeat Item 210 for Each Odd Numbered SCSI-MHD	INST	—
212	At SCSI-DFC 1 Power Switch, Depress **OFF** and **MOR** Switches Simultaneously To Power Down SCSI-DFC 1	INST	—
213	Notify Users on IOP 1 That IOP Will Be Temporarily Down	TELCO	—
214	At MCRT, Depress **NORM**/**DISP** (**PF2**) Key and Enter 102 in Command Mode To Obtain Display Page 102	TELCO	—
215	If 102 Page Displays MTTY and/or ROP Connected to IOP 1, Perform One of the Following to Switch Port Switch:		
	A. If MTTY and ROP Are Connected, Enter 401 in Command Mode	TELCO	—
	B. If ROP Only Is Connected, Enter 402 in Command Mode	TELCO	—
	C. If MTTY Only Is Connected, Enter 403 in Command Mode	TELCO	—
216	Remove From Service and Power Down IOP 1	TELCO	DLP-503
217	At IOP 1, Disconnect SCSD Cable of DFC 1	INST	—
218	At IOP 1, Connect SCSD Cable of SCSI-DFC 1 To Same Location Where DFC 1 Was Disconnected (Item 217)	INST	—
219	At IOP 1, Connect Fan Unit SCSD Cable	INST	—
220	At IOP 1, Disconnect SCSD Cable of 340MB MHD 1	INST	—
221	At IOP 1, Connect SCSD Cable From SCSI-MHD 1	INST	—
222	Repeat Items 220 and 221 for Each Equipped Odd Numbered SCSI-MHD	INST	—
223	At SCSI-DFC 1 and Each Odd Numbered SCSI-MHD Power Switches, Verify **ROS**/**RST** Switches Still in **ROS** Position	INST	—
224	Power Up IOP 1 and Restore to Service	TELCO/INST	DLP-504
225	At SCSI-DFC 1 and Each Odd Numbered SCSI-MHD Power Switches, Verify **OOS** LEDs On	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
226	Notify Users That Are on IOP 1 To Resume Their Activities	TELCO	—
227	At SCSI-DFC 1 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED DFC 1** Message Is Received	INST	—
228	At MCRT, Depress **ALM RLS** (**PF4**) Key. Ensure No Audio or Visual Alarms Are Present	INST	—
	NOTE: Items 229 through 233 are being performed to test SCSI-DFC 1 SCSD Cable		
229	At SCSI-DFC 1 Power Switch, Depress **OFF** Switch; Ensure **REPT POWER REMOVED DFC 1** Message Is Received	INST	—
230	At SCSI-DFC 1 Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORE DFC 1** Message Is Received. Verify **OFF** LED Off	INST	—
231	At MCRT, Depress **ALM RLS** (**PF4**) Key. Ensure No Audio or Visual Alarms Are Present	INST	—
232	At SCSI-DFC 1 Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure **DGN DFC 1 CATP (X'00000303 X'00000000) MSG COMPLETE** Message Is Received. Verify **ROS** LED Off	INST	—
233	At SCSI-DFC 1 Power Switch, Operate **ROS**/**RST** Switch to **ROS**. Verify **ROS** and **OOS** LEDs On	INST	—
	NOTE: Items 234 through 241 are being performed to test fan alarm		
234	At Fan Unit for SCSI-DFC 1, Depress **OFF** Switch; Ensure **REPT FAN MULTIPLE FAILURE SDC 1** Message Is Received and Audio and Visual Alarms Are Present	INST	—
235	Wait for Two LEDs To Light, Indicating Fans Have Stopped, Before Continuing	INST	—
236	At One Powered Down Fan, Put Obstruction, Such as Screwdriver, Between Fan Blades To Keep Fan Blades From Rotating During Item 237	INST	—
237	At Powered Down Fan Unit, Depress **ON**/**RESET** Switch; Ensure **REPT FAN MULTIPLE ALARM CLEARED SDC 1** and **REPT FAN SINGLE FAILURE SDC 1** Messages Are Received and Audio and Visual Alarms Are Present. Verify LED for Operating Fan Is Off and LED For Stopped Fan Is On	INST	—
238	At Fan Unit Being Tested, Depress **OFF** Switch; Ensure **REPT FAN MULTIPLE FAILURE SDC 1** Message Is Received	INST	—
239	Remove Obstruction (Item 236)	INST	—
	(Continued on Page 18)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
240	At Fan Unit Being Tested, Depress **ON/RESET** Switch; Ensure **REPT FAN MULTIPLE ALARM CLEARED SDC 1** Message Is Received. Verify Both LEDs Off	INST	—
241	Repeat Items 234 Through 241 for SCS-DFC 0 FAN Unit	INST	—
242	Change Major State of SCSI-DFC 1 to OOS (**EXC:ENVIR:UPROC,FN"/database/ch2sdos1",ARGS** a!)	TELCO/INST	DLP-584
243	At MCRT, Depress **NORM/DISP** (**PF2**) Key and Enter **120** in Command Mode To Obtain Display Page 120	TELCO	—
244	Ensure Page 120 Displays DFC 1, SBUS 1, and SBUS 3 in OOS State	TELCO/INST	—
	NOTES: 1. Disregard MHD diagnostic error messages when SCSI-DFC 1 power switch is set to **RST** 2. SCSI-DFC 1 restore (Item 245) will take approximately 10 minutes		
245	At SCSI-DFC 1 Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure DFC 1, SBUS 1, and SBUS 3 Are Restored to Service. Verify **ROS** and **OOS** LEDs Off	INST	—
	NOTE: Items 246 through 250 are being performed to test each odd numbered SCSI-MHD		
246	At One Odd Numbered SCSI-MHD Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED MHD** a Message Is Received. Verify **OFF** LED Off and **ROS** and **OOS** LEDs On	INST	—
247	Wait 30 Seconds Before Continuing To Allow SCSI-MHD To Complete Spin Up	INST	—
248	At SCSI-MHD Power Switch (Item 246), Operate **ROS**/**RST** Switch to **RST**; Ensure **DGN MHD** a **ATP MESSAGE COMPLETE** Message Is Received. Verify **ROS** LED Off	INST	—
249	At SCSI-MHD Power Switch (Item 246), Operate **ROS**/**RST** Switch to **ROS**. Verify **ROS** and **OOS** LEDs On	INST	—
250	At SCSI-MHD Power Switch (Item 246), Depress **OFF** Switch; Ensure **REPT POWER REMOVED MHD** a Message Is Received. Verify **OFF** LED is On	INST	—
251	Repeat Items 246 through 250 for Each Odd Numbered SCSI-MHD	TELCO/INST	—
252	At Power Switch for One Odd Numbered SCSI-MHD, Depress **ON** Switch; Ensure **REPT POWER RESTORED MHD** a Message Is Received	INST	—
253	Repeat Item 252 for Each Odd Numbered SCSI-MHD	INST	—
254	Change Major State of Odd SCSI-MHDs to OOS (**EXC:ENVIR:UPROC,FN"/database/ch2smos1",ARGS** a!)	TELCO	DLP-585

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
255	At MCRT, if Page 120 Is Not Displayed, Enter **120** in Command Mode	TELCO	—
256	Ensure Page 120 Displays All Even Numbered SCSI-MHDs in OOS State	TELCO/INST	—
257	Ensure Page 120 Displays **PUMP CODE** for DFC 1. If **FIRMWARE** Is Displayed for DFC 1, Enter Message **LOAD:DFC 1;PUMP!**	TELCO/INST	—
258	Init Odd Numbered SCSI-MHDs per Appropriate Number of SCSI-MHD Pairs Grown:		
	A. Two SCSI-MHD Pairs Grown:		
	1. At MCRT, Enter Message **INIT:MHD 1:VFY!**	TELCO	—
	2. Ensure **INIT MHD** a **COMPLETED** Message Is Received for Each Initiated Odd Numbered SCSI-MHD	INST	—
	3. Repeat Item 258.A for SCSI-MHD 3 (Replacing 1 With 3 in the Message)	TELCO/INST	—
	B. Three SCSI-MHD Pairs Grown:		
	NOTES: 1. Items 258.B.1 and 258.B.2 must be performed to run **INIT** on two equipped odd numbered SCSI-MHDs at same time (Perform Items 258.B.1 and 258.B.2 without waiting for a completion message between items) 2. Following Item will take approximately 30 minutes to complete		
	1. At MCRT, Enter Message **INIT:MHD 1:VFY!**	TELCO	—
	2. Enter Message **INIT:MHD 5:VFY!**	TELCO	—
	3. Ensure **INIT MHD** a **COMPLETED** Message Is Received for Each Initiated Even Numbered SCSI-MHD	INST	—
	4. At MCRT, Enter Message **INIT:MHD 3:VFY!**	TELCO	—
	5. Ensure **INIT MHD** a **COMPLETED** Message Is Received	INST	—
	C. Four SCSI-MHD Pairs Grown:		
	NOTES: 1. Items 258.C.1 and 258.C.2 must be performed to run **INIT** on two equipped odd numbered SCSI-MHDs at same time (Perform Items 258.C.1 and 258.C.2 without waiting for a completion message between items) 2. Following Item will take approximately 30 minutes to complete		
	1. At MCRT, Enter Message **INIT:MHD 1:VFY!**	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
258 (Contd)	2. Enter Message **INIT:MHD 5:VFY!**	TELCO	—
	3. Ensure **INIT MHD** a **COMPLETED** Message Is Received for Each Initiated Odd Numbered SCSI-MHD	INST	—
	4. Repeat Items 258.C.1 Through 258.C.3 for SCSI-MHDs 3 and 7 (Replacing 1 With 3 and 5 With 7 in the Messages)	TELCO/INST	—
	NOTE: Following Item will take approximately 30 minutes to complete		
259	At One Odd Numbered SCSI-MHD Power Switch, Operate **ROS**/**RST** Switch to **RST**; Ensure **RST MHD** a **COMPLETED** Message Is Received. Verify **ROS** and **OOS** LEDs Off	INST	—
260	Repeat Item 259 for Each Odd Numbered SCSI-MHD	INST	—
261	At SCSI-MHD 0, Connect SCSI Cabinet Alarm Cable (No Alarm Should Be Received)	INST	—
	NOTE: Items 262 through 268 are being performed to test SCSI-MHD Alarm	INST	—
262	At Highest Numbered Equipped SCSI-MHD Power Switch, Operate **ROS/RST** Switch to **ROS**, and Then Depress **OFF** Switch; Ensure **OFF** LED On	INST	—
263	At Fuse Panel at Top of SCSI-Disk Cabinet, Remove Indicator Fuse Associated With Highest Numbered Equipped SCSI-MHD	INST	—
264	Remove Load Fuse Associated With Highest Numbered Equipped SCSI-MHD; Ensure Audio and Visual Alarms Are Present. (All LEDs on SCSI-MHD Must Be Off)	INST	—
265	At Fuse Panel at Top of SCSI-Disk Cabinet, Install Load Fuse Associated With Highest Numbered Equipped SCSI-MHD (Audio and Visual Alarms Are Cleared)	INST	—
266	At MCRT, Depress **ALM RLS** (**PF4**) Key. Ensure No Audio or Visual Alarms Are Present	INST	—
267	Install Indicator Fuse Associated With Highest Numbered Equipped SCSI-MHD	INST	—
	NOTE: Restore will take approximately 20 minutes		
268	At Highest Numbered Equipped SCSI-MHD Power Switch, Depress **ON** Switch, And Then Operate **ROS/RST** Switch to **RST**; Ensure **REPT POWER RESTORED MHD** a Message is Received and SCSI-MHD Restored to Service	INST	—
	NOTE: Do not allow REX:DFC or REX:IOP (Item 269)		
269	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP! • ALW:REX:CU!	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
270	Start SCSI-Disk Schedules in CRONTAB	TELCO	DLP-588
	NOTE: Keep current set of backup tapes in case of problems that may require recovery action		
271	At MCRT, Enter Message **EXC:ENVIR:UPROC,FN**"/tools/bootaud",**ARGS** ("update","/database/ecd")!; Ensure **EXC ENVIR UPROC**/tools/bootaud **COMPLETED** Message With No Errors Is Received	TELCO/INST	—
272	At 1A MTC Channel, Enter Message **ALW:AUD:NUM 43**!. Then Enter Message **OP:AUDSTAT**! And Ensure That **OP:AUDSTAT** Printout Does Not Include 43	TELCO	—
273	At 1A MTC Channel, Enter Message **AUD:NUM 43**!; Ensure **0 ERROR** Message Is Received. If **0 ERROR** Message Is Not Received, Contact Appropriate Support Organization	TELCO/INST	—
274	At MCRT, Depress **ALM RLS** (**PF4**) Key, Ensure No Audio or Visual Alarms Are Present	TELCO/INST	—
275	Soak SCSI-DFC 1 and All Odd Numbered SCSI-MHDs for 18 Hours, With One CU Active	TELCO/INST	—
276	Perform Items 277 Through 281 During Item 282	TELCO	—
277	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
278	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
279	Update Backup Data Base	TELCO	DLP-532
280	Write 3B Computer Backup Tapes	TELCO	DLP-556
281	Verify Backup Tapes	TELCO	DLP-557
282	Soak SCSI-DFC 1 and All Odd Numbered SCSI-MHDs for 18 Hours With Other CU Active	TELCO/INST	—
283	Safe Point To Temporarily Stop This Procedure. Wait 5 Days Before Continuing to Next Item	TELCO/INST	—
	NOTE: Items 284 through 294 are being performed to remove 340MB MHDs and associated DFCs From 3B computer frames/cabinets		
284	At 340MB MHD 0, Depress **START** Switch to Release Position To Spin Down Disk. **START** LED Will Flash, Then Stay Off	TELCO	—
285	At 340MB MHD 0, Depress **OFF** Switch	TELCO	—
286	Repeat Items 284 and 285 for Each 340MB MHD	TELCO	—
287	Remove Power From DFC 0 and DFC 1 (Associated With 340MB MHDs) by Removing Fuse at Fuse Panels	INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
288	Disconnect All Cables Associated With DFC 0 and DFC 1 (Item 287) From CU 0 and CU 1 Backplanes, Respectively	INST	—
289	Remove DFC 0 and DFC 1 (Item 287) Circuit Packs From CU 0 and CU 1 Frames/Cabinets, Respectively	INST	—
290	Remove Power From Each 340MB MHD by Removing Fuses at Fuse Panel	INST	—
291	Disconnect Power Cable, SCSD Cable, and Control and Data Cables From Each 340MB MHD	INST	—
292	Remove Each 340MB MHD From Tape/Disk Cabinet	INST	—
293	Remove Power Inverter From Each 340MB MHD in Tape/Disk Cabinet	INST	—
294	Disconnect All Remaining Cables Associated With 340MB MHDs	INST	—
295	At MCRT, Enter Message **OP:STATUS:FILESYS**! to Determine if System Is Running on ROOT or BROOT	TELCO	—
296	After Determining Operating File System (ROOT or BROOT) (Item 295), Perform One of the Following To Remove Software Tools From the Data Base:		
	A. If ROOT:		
	1. Enter Message **EXC:ENVIR:UPROC,FN"**/database/cleanup**9"**! To Remove Software Tools From Data Base; Ensure **CONVERSION TOOLS REMOVED** and **EXC ENVIR UPROC** cleanup **9 COMPLETED** Messages Are Received	TELCO	—
	2. Enter Message **EXC:ENVIR:UPROC,FN"**/bin/umount**",ARGS"**/dev/bdb**"**! To Unmount BROOT Data Base; Ensure **EXC ENVIR UPROC COMPLETED** Message Is Received	TELCO	—
	B. If BROOT:		
	1. Enter Message **EXC:ENVIR:UPROC,FN"**/database/cleanup**8"**! To Remove Software Tools From Data Base; Ensure **CONVERSION TOOLS REMOVED** and **EXC ENVIR UPROC** cleanup **8 COMPLETED** Messages Are Received	TELCO	—
	2. Enter Message **EXC:ENVIR:UPROC,FN"**/bin/umount**",ARGS"**/dev/db**"**! To Unmount ROOT Data Base; Ensure **EXC ENVIR UPROC COMPLETED** Message Is Received	TELCO	—
297	Update Backup Data Base	TELCO	DLP-532

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

		RESPONSIBILITY	
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling		
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of each night's growth activity 2. This procedure must be performed during light traffic periods 3. A copy of current generic load must be available on tape. Local procedures for loading disk from tape should be reviewed before starting this procedure 4. Associated input/output processor (IOP) and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 5. When input message creates a printout of several message responses, the order of the printed message responses may be different from what is shown in the procedure due to message spooling 6. This procedure contains soak intervals for verifying system operation and stability during growth. During the soak interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified		
1	Decision To Backout This Procedure Must Be Determined From Situation Involved. PECC and/or NESAC Must Be Consulted and Assist in Making the Decision and Must Assist During Backout	TELCO/INST	—
2	Verify Minimum Configuration ECD Contains References to MHD0 and MHD1 Only	TELCO	DLP-589
3	Verify System Status	TELCO	DLP-559
4	Perform Preliminary Installation Activities	INST	—
5	Safe Point To Temporarily Stop This Procedure	INST	—
	NOTES: 1. Software tool BWM must be applied before performing this procedure 2. Even SCSI disks will be added first		
6	If Procedure Was Stopped (Item 5), Verify System Status	TELCO	DLP-559
	(Continued on Page 2)		

ADD SCSI-DISK DRIVE PAIR TO 3B20D

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
7	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP! • INH:REX:CU! • INH:REX:DFC! • INH:REX:IOP!	TELCO	—
	NOTE: Items 8 through 10 are being performed to ensure clean file system before starting growth		
8	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
9	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
10	Update Backup Data Base	TELCO	DLP-532
11	Stop SCSI Disk Schedules in CRONTAB	TELCO	DLP-587
12	At 1A MTC Channel, Enter Message **INH:AUD:NUM 43!**; Ensure Message Is Received Indicating Audit 43 Inhibited	TELCO	—
	NOTE: Item 13 will take approximately 1 hour to complete		
13	Verify Odd Numbered SCSI-MHDs per Appropriate Number of SCSI-MHD Pairs Grown:		
	A. Two SCSI-MHD Pairs Grown:		
	1. At MCRT, Enter Message **VFY:MHD 1!**	TELCO	—
	2. Ensure **VFY MHD** a **COMPLETED** Message Is Received for Each Verified Even Numbered SCSI-MHD	INST	—
	3. Repeat Item 13.A for SCSI-MHD 3 (Replacing 1 With 3 in the Message)	TELCO/INST	—
	B. Three SCSI-MHD Pairs Grown:		
	NOTE: Items 13.B.1 and 13.B.2 must be performed together (without waiting for a completing message betweeen items) to run VFY on two equipped odd numbered SCSI-MHDs at same time		
	(Continued on Page 3)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
13 (Contd)	1. At MCRT, Enter Message **VFY:MHD 1!**	TELCO	—
	2. Enter Message **VFY:MHD 5!**	TELCO	—
	3. Ensure **VFY MHD** a **COMPLETED** Message Is Received for Each Verified Odd Numbered SCSI-MHD	INST	—
	4. At MCRT, Enter Message **VFY:MHD 3!**	TELCO	—
	5. Ensure **VFY MHD** a **COMPLETED** Message Is Received	INST	—
14	At MCRT, Enter Message **RMV:DFC 0!**; Ensure **RVM DFC 0 COMPLETED** Message Is Received	TELCO	—
15	At Power Switch for Existing Even Numbered SCSI-MHD, Ensure **OOS** LED Is On	TELCO	—
16	At DFC 0 Power Switch, Ensure **OOS** LED is On	TELCO	—
17	At DFC 0 Power Switch, Operate **ROS/RST** Switch to **ROS**; Ensure **RMV DFC 0 TASK** x **MESSAGE STARTED** Message Is Received. Verify **DFC 0 ROS** and **RQIP LEDs** On. **DFC 0 RQIP** LED Off.	TELCO	—
18	Recent Change Growth Even Numbered SCSI-MHD From UNEQIP to GROW	TELCO	DLP-527
19	Restart Controlling Process for Page 120 To Change Display **(STOP:EXC:ANY,FN"/cft/dap/dkdip",UCL!)**	TELCO	DLP-578
20	At MCRT, Depress **NORM/DISP (PF2)** Key and Enter **120** in Command Mode To Obtain Display Page 120	TELCO	—
21	Ensure Page 120 Displays Growth Even Numbered SCSI-MHD in GROW State	TELCO/INST	—
22	Connect SBUS Cable to Growth Even Numbered SCSI-MHD	INST	—
23	Notify Users on IOP 0 That IOP Will Be Temporarily Down	TELCO	—
24	At MCRT, Depress **NORM/DISP (PF2)** Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
25	If 102 Page Displays MTTY and/or ROP Connected to IOP 0, Perform One of the Following to Switch Port Switch:		
	A. If MTTY and ROP Are Connected, Enter **401** in Command Mode	TELCO	—
	B. If ROP Only Is Connected, Enter **402** in Commmand Mode	TELCO	—
	C. If MTTY Only Is Connected, Enter **403** in Command Mode	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
26	Remove From Service and Power Down IOP 0	TELCO	DLP-503
27	If Audio Alarm Operates, Depress **ALM RLS** (**PF4**) Key	INST	—
28	At IOP 0, Connect SCSD Cable From Growth Even Numbered SCSI-MHD	INST	—
29	At Growth Even Numbered SCSI-MHD Power Switch, Verify **ROS/RST** Switch Is Still in **ROS** Position	INST	—
30	Power Up IOP 0 and Restore to Service	TELCO	DLP-504
31	At Growth Even Numbered SCSI-MHD Power Switches, Verify **OOS** LEDs On	INST	—
32	Notify Users That Are on IOP 0 To Resume Their Activities	TELCO	—
	NOTES: 1. SCSI-DFC restore will take approximately one hour to complete 2. Disregard MHD diagnostic message for growth SCSI-MHD; it is not powered at this time. DO NOT proceed until SCSI-DFC 0, other even SCSI-MHDs, and even SCSI buses are restored		
33	At SCSI-DFC 0 Power Switch, Operate **ROS/RST** Switch to **RST**; Ensure **ROS** LED goes off, **RQIP** LED Lights; Then Goes Off, and **OOS** LED Goes Off	TELCO/INST	DLP-590
34	At Growth Even Numbered SCSI-MHD Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED MHD** a Message Is Received, Verify **OFF** LED Off and **ROS** and **OOS** LEDs On	INST	—
35	Wait 30 Seconds Before Continuing To Allow SCSI-MHD To Complete Spin Up	INST	—
36	At SCSI-MHD Power Switch (Item 34), Operate **ROS/RST** Switch to **RST**; Ensure **DGN MHD** a **ATP MESSAGE COMPLETE** Message Is Received. Verify **ROS** LED Off	INST	—
37	At MCRT, Ensure Minor System Alarm Lights	INST	—
38	At SCSI-MHD Power Switch (Item 34), Operate **ROS/RST** Switch to **ROS**. Verify **ROS** and **OOS** LEDs On	INST	—
39	If Audio Alarm Operates, Depress **ALM RLS** Key. Ensure System Alarm Remains Off	INST	—
40	Recent Change Growth Even Numbered SCSI-MHD From Grow to **OOS** and **ACTIVATE**	TELCO	DLP-591
	NOTE: INIT (Item 41) will take approximately 30 minutes to complete		
41	At MCRT, Enter Message **INIT:MHD** x**:VFY!** To Initialize the Growth Numbered SCSI-MHD	TELCO/INST	DLP-592
42	Apply VTOC to Growth SCSI-MHD	TELCO	DLP-530

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
43	At Growth Even Numbered SCSI-MHD, Operate **ROS/RST** to **RST**; Ensure RST MHD a COMPLETED Message Is Received. Verify **ROS** and **OOS** LEDs Off	INST	—
44	At MCRT, Depress **ALM RLS (PF4)** Key. Ensure No Audio or Visual Alarms Are Present	TELCO/INST	—
45	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP! • ALW:REX:CU!	TELCO	—
46	Start SCSI Disk Schedules in CRONTAB	TELCO	DLP-588
	NOTE: Keep current set of backup tapes in case of problems that may require recovery action		
47	At MCRT, Enter Message **EXC:ENVIR:UPROC,FN"/tools/bootaud",ARGS("update","/database/appecd")!** Ensure **EXC ENVIR UPROC /tools/bootaud COMPLETED** Message With No Errors Is Received	TELCO/INST	—
48	At 1A MTC Channel, Enter Message **ALW:AUD:NUM 43!**. Then Enter Message **OP:AUDSTAT!** And Ensure That **OP:AUDSTAT** Printout Does Not Include 43	TELCO	—
49	At 1A MTC Channel, Enter Message **AUD:NUM 43!**; Ensure **0 ERROR** Message Is Received. If **0 ERROR** Message Is Not Received, Contact Appropriate Support Organization	TELCO/INST	—
50	Perform Items 51 Through 55 During Item 56	TELCO	—
51	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
52	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
53	Update Backup Data Base	TELCO	DLP-532
54	Write 3B Computer Backup Tapes	TELCO	DLP-556
55	Verify Backup Tapes	TELCO	DLP-557
56	Safe Point To Temporarily Stop This Procedure	TELCO/INST	—
57	Soak SCSI-DFC 0 and All Growth Even Numbered SCSI-MHDs for 18 Hours	TELCO/INST	—
58	Verify System Status	TELCO	DLP-559
	(Continued on Page 6)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
59	At MCRT, Enter Following Messages To Inhibit Automatic Diagnostics: • **INH:DMQ;SRC REX!** • **INH:DMQ;SRC ADP!** • **INH:REX:CU!** • **INH:REX:DFC!** • **INH:REX:IOP!**	TELCO	—
	NOTE: Items 60 through 62 are being performed to ensure clean file system before starting growth		
60	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
61	Run File System and Boot Audits To Ensure No File System Errors	TELCO	DLP-569
62	Update Backup Data Base	TELCO	DLP-532
63	Stop SCSI Disk Schedules in CRONTAB	TELCO	DLP-587
64	At 1A MTC Channel, Enter Message **INH:AUD:NUM 43!**; Ensure Message Is Received Indicating Audit 43 Inhibited	TELCO	—
	NOTE: Item 65 will take approximately 1 hour to complete		
65	Verify Even Numbered SCSI-MHDs per Appropriate Number of SCSI-MHD Pairs Grown:		
	A. Two SCSI-MHD Pairs Grown:		
	1. At MCRT, Enter Message **VFY:MHD 0!**	TELCO	—
	2. Ensure **VFY MHD** a **COMPLETED** Message is Received for Each Verified Even Numbered SCSI-MHD	INST	—
	3. Repeat Item 65.A for SCSI-MHD 2 (Replacing 0 With 2 in the Message)	TELCO/INST	—
	B. Three SCSI-MHD Pairs Grown:		
	NOTE: Items 65.B.1 and 65.B.2 must be performed together (without waiting for a completion message between items) to run VFY on two equipped even numbered SCSI-MHDs at same time		
	(Continued on Page 7)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
65 (Contd)	1. At MCRT, Enter Message **VFY:MHD 0!**	TELCO	—
	2. Enter Message **VFY:MHD 4!**	TELCO	—
	3. Ensure **VFY MHD a COMPLETED** Message Is Received for Each Verified Even Numbered SCSI-MHD	INST	—
	4. At MCRT, Enter Message **VFY:MHD 2!**	TELCO	—
	5. Ensure **VFY MHD a COMPLETED** Message Is Received	INST	—
66	At MCRT, Enter Message **RMV:DFC 1!**; Ensure **RMV DFC 1 COMPLETED** Message Is Received	TELCO	—
67	At Power Switch for Existing Odd Numbered SCSI-MHDs, Ensure **OOS** LED Is On	TELCO	—
68	At DFC 1 Power Switch, Ensure **OOS** LED Is On	TELCO	—
69	At DFC 1 Power Switch, Operate **ROS/RST** Switch to **ROS**; Ensure **RMV DFC 1 TASK x MESSAGE STARTED** Message Is Received. Verify **DFC 1 ROS** And **RQIP** LED On. **DFC 1 RQIP** LED Off	TELCO	—
70	Recent Change Growth Odd Numbered SCSI-MHD From UNEQIP To GROW	TELCO	DLP-527
71	Restart Controlling Process for Page 120 To Change Display **(STOP:EXC:ANY,FN"/cft/dap/dkdip",UCL!)**	TELCO	DLP-578
72	At MCRT, Depress **NORM/DISP (PF2)** Key and Enter **120** in Command Mode To Obtain Display Page 120	TELCO	—
73	Ensure Page 120 Displays Growth Odd Numbered SCSI-MHD in GROW State	TELCO/INST	—
74	Connect SBUS Cable to Growth Even Numbered SCSI-MHD	INST	—
75	Notify Users On IOP 1 That IOP Will Be Temporarily Down	TELCO	—
76	At MCRT, Depress **NORM/DISP (PF4)** Key and Enter **102** in Command Mode To Obtain Display Page 102	TELCO	—
77	If 102 Page Display MTTY and/or ROP Connected to IOP 1, Perform One of the Following to Switch Port Switch:	TELCO	—
	A. If MTTY and ROP Are Connected, Enter **401** in Command Mode	TELCO	—
	B. If ROP Only Is Connected, Enter **402** in Command Mode	TELCO	—
	C. If MTTY Only Is Connected, Enter **403** in Command Mode	TELCO	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
78	Remove From Service and Power Down IOP 1	TELCO	DLP-503
79	If Audio Alarm Operates, Depress **ALM RLS (PF4)** Key	INST	—
80	At IOP 1, Connect SCSD Cable From Growth Even Numbered SCSI-MHD	INST	—
81	At Growth Odd Numbered SCSI-MHD Power Switch, Verify **ROS/RST** Switches Still in **ROS** Position	INST	—
82	Power Up IOP 1 and Restore to Service	TELCO	DLP-504
83	At Growth Odd Numbered SCSI-MHD Power Switch, Verify **OOS** LEDs On	INST	—
84	Notify Users That Are On IOP 1 To Resume Their Activities	TELCO	—
	NOTES: 1. SCSI-DFC restore will take approximately 1 hour to complete 2. Disregard MHD diagnostic messages for Growth SCSI-MHD; it is not powered at this time. DO NOT proceed until SCSI-DFC 1, other odd SCSI-MHDs and odd SCSI buses are restored		
85	At SCSI-DFC 1 Power, Operate **ROS/RST** Switch to **RST**; Ensure **ROS** LED Goes Off, **RQIP** LED Lights; Then Goes Off, and **OOS** LED Goes Off	TELCO/INST	DLP-590
86	At Growth Odd Numbered SCSI-MHD Power Switch, Depress **ON** Switch; Ensure **REPT POWER RESTORED MHD** a Message Is Received, Verify **OFF** LED Off and **ROS** and **OOS** LEDs On	INST	—
87	Wait 30 Seconds Before Continuing To Allow SCSI-MHD To Complete Spin Up	INST	—
88	At SCSI-MHD Power Switch (Item 85), Operate **ROS/RST** Switch to **RST**; Ensure **DGN MHD** a **ATP MESSAGE COMPLETE** Message Is Received. Verify **ROS** LED Off	INST	—
89	At MCRT, Ensure Minor System Alarm Lights	INST	—
90	At Odd SCSI-MHD Power Switch (Item 86), Operate **ROS/RST** Switch to **ROS**. Verify **ROS** and **OOS** LEDs On	INST	—
91	If Audio Alarm Operates, Depress **ALM RLS** Key. Ensure System Alarm Remains Off	INST	—
92	Recent Change Growth Odd Numbered SCSI-MHD From Grow to **OOS** and Activate	TELCO	DLP-591
	NOTE: INIT (Item 93) will take approximately 30 minutes to complete		
93	At MCRT, Enter Message **INIT:MHD** x**:VFY!** To Initialize the Growth SCSI-MHD	TELCO/INST	DLP-592
	(Continued on Page 9)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
	NOTES: 1. SCSI-MHD restore will take approximately 30 minutes to complete 2. VTOC is supplied to odd growth SCSI-MHD mate even SCSI-MHD when restore is completed		
94	At Growth Odd Numbered SCSI-MHD, Operate **ROS/RST** to **RST**; Ensure RST MHD a COMPLETED Message Is Received. Verify **ROS** and **OOS** LEDs are Off	INST	—
95	Connect Audio/Visual Alarm Cables	INST	—
	NOTE: Items 96 through 102 are being performed to test SCSI-MHD alarm		
96	At Highest Numbered Equipped SCSI-MHD Power Switch, Depress **OFF** Switch, Ensure **OFF** LED On and REPT POWER REMOVED MHD a Message Is Received	INST	—
97	At Fuse Panel at Top of SCSI-Disk Cabinet, Remove Indicator Fuse Associated With Highest Numbered Equipped SCSI-MHD	INST	—
98	Remove Load Fuse Associated With Highest Numbered Equipped SCSI-MHD; Ensure Audio and Visual Alarms Are Present. (All LEDs on SCSI-MHD Must Be Off)	INST	—
99	At Fuse Panel at Top of SCSI-Disk Cabinet, Install Load Fuse Associated With Highest Numbered Equipped SCSI-MHD (Audio and Visual Alarms Are Cleared)	INST	—
100	At MCRT, Depress **ALM RLS (PF4)** Key. Ensure No Audio or Visual Alarms Are Present	INST	—
101	Install Indicator Fuse Associated With Highest Numbered Equipped SCSI-MHD	INST	—
	NOTE: Restore will take approximately 20 minutes		
102	At Highest Numbered Equipped SCSI-MHD Power Switch, Depress **ON** Switch; Ensure REPT POWER MHD a Message Is Received and SCSI-MHD Restored to Service	INST	—
	NOTE: Do not allow REX:DFC or REX:IOP (Item 103)		
103	At MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ:SRC ADP! • ALW:REX:CU!	TELCO	—
104	Update UCRONTAB File For Growth MHDs	TELCO	DLP-593
	(Continued on Page 10)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
105	Start SCSI-Disk Schedules in CRONTAB	TELCO	DLP-588
	NOTE: Keep current set of backup tapes in case of problems that may require recovery action		
106	At MCRT, Enter Message **EXC:ENVIR:UPROC,FN"/tools/bootaud",ARGS ("update","/database/appecd")!;** Ensure **EX ENVIR UPROC/tools/bootaud COMPLETED** Message With No Errors Is Received	TELCO/INST	—
107	At 1A MTC Channel, Enter Message **ALW:AUD:NUM 43!**. Then Enter Message **OP:AUDSTAT!** And Ensure That **OP:AUDSTAT** Printout Does Not Include 43	TELCO	—
108	At 1A MTC Channel, Enter Message **AUD:NUM 43!;** Enter **0 ERROR** Message Is Received. If **0 ERROR** Message Is Not Received, Contact Appropriate Support Organization	TELCO/INST	—
109	At MCRT, Depress **ALM RLS (PF4)** Key, Ensure No Audio or Visual Alarms Are Present	TELCO/INST	—
110	Safe Point To Temporarily Stop Procedure	TELCO/INST	—
111	Soak SCSI-DFC 1 and All Growth Odd Numbered SCSI-MHDs For 16 Hours	TELCO/INST	—
112	Perform Item 113 Through 122 During Item 111	TELCO	—
113	At MCRT, Enter Message **INH:DMQ;SRC ALL!** To Inhibit Automatic Diagnostic Processes	TELCO	—
114	At MCRT, Enter Message **OP:DMQ** And Ensure That All Diagnostics Are Inhibited	TELCO	—
115	If AMA Partition(s) Are To Be Equipped on Even Numbered Growth SCSI-MHD, Equip Partitions As Required for Even Numbered Growth MHD	TELCO	DLP-542
116	If AMA Partition(s) Are To Be Equipped on Odd Numbered Growth SCSI-MHD, Equip Partitions As Required for Odd Numbered Growth MHD	TELCO	DLP-542
117	At MCRT, Enter Message **ALW:DMQ;SRC!** to Allow Automatic Diagnostic Processes	TELCO	—
118	Copy Incore Equipment Configuration Data Base (ECB) Disk	TELCO	DLP-507
119	Run File System and Boot Audits to Ensure No File System Errors	TELCO	DLP-569
120	Update Backup Data Base	TELCO	DLP-532
121	Write 3B Computer Backup Tapes	TELCO	DLP-556
122	Verify Backup Tapes	TELCO	DLP-557

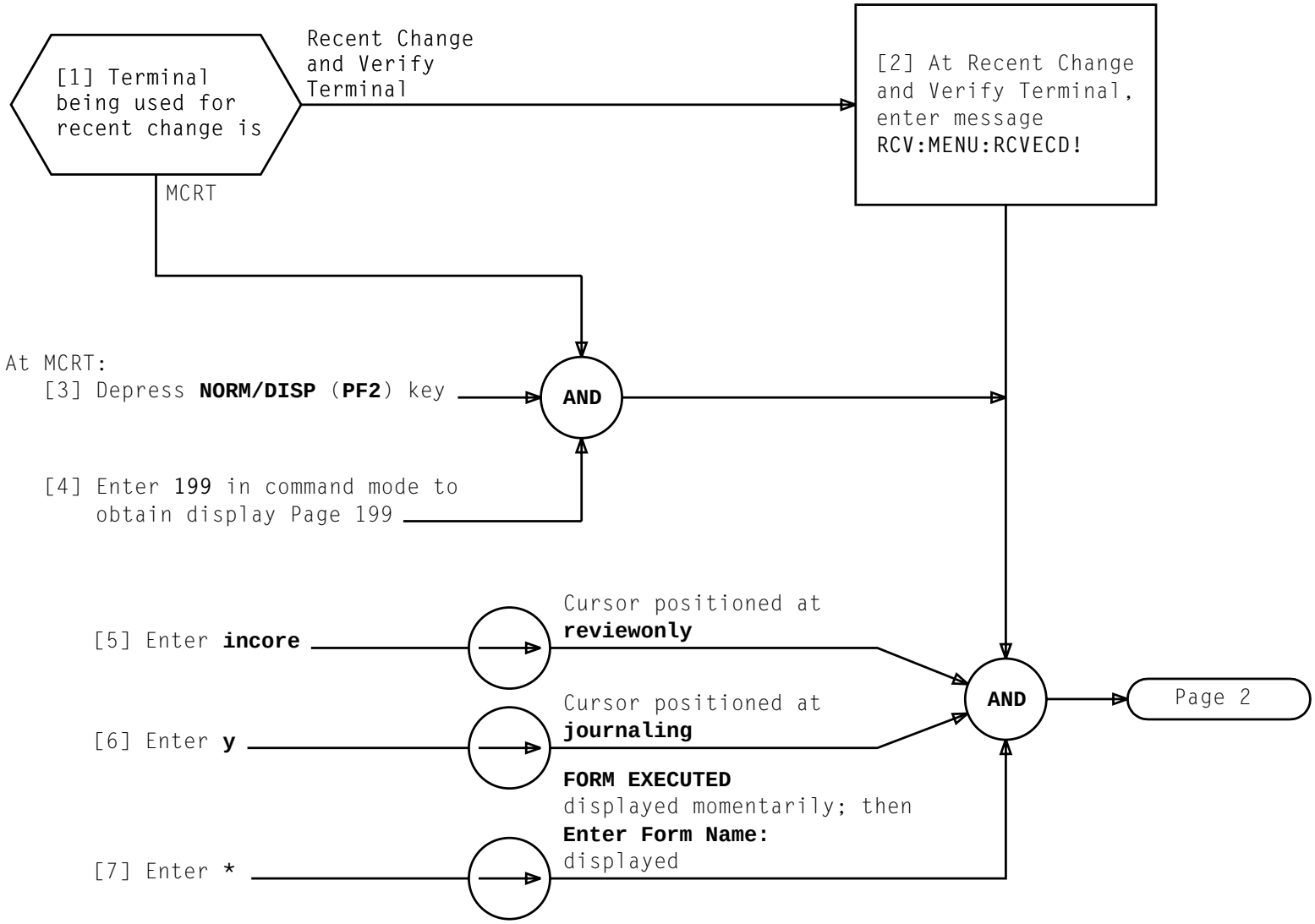
DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO

		RESPONSIBILITY	
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling		
	NOTES: 1. AMA data should be transferred (tape and/or teleprocessing) prior to start of each night's growth activity 2. This procedure must be performed during light traffic periods 3. A copy of current generic load must be available on tape. Local procedures for loading disk from tape should be reviewed before starting this procedure 4. Input/output processor (IOP) 0 and subdevices will be temporarily removed and powered down during growth. Arrangements must be made with users for temporary stoppage when IOP is removed from service 5. When input message creates a printout of several message responses, order of printed message responses may be different from what is shown in procedure due to message spooling 6. This procedure contains soak interval for verifying system operation and stability during growth. During the soaking interval, all abnormal conditions (such as interrupts, interjects, and diagnostic failures related to growth) must be investigated and resolved immediately. Growth equipment, being soaked, must be error free for at least the time specified		
1	Perform Preliminary Installation Activities	INST	—
2	Safe Point To Temporarily Stop This Procedure	INST	—
3	For AT&T Office, Contact NSDNET at 1-800-232-6717 and Verify That ODAD ***Datakit**** Database Has Been Built Per Project Letter #940943 and ***4ESS***™ Switch DWAN Connectivity Standard NE0004. For LEC Office, Contact Appropriate ***Datakit*** Administrator	TELCO	—
4	Ensure ENABLE/DISABLE Switch on the TSMT1 Pack Is in ENABLE Position. TSMT1 Pack Is Located in MPC15-0, Slot 9 for AT&T or in ***Datakit*** Frame for LECs	INST	—
5	Ensure All Internal Dip Switches on ODAD Modem Eliminator Are Set to Off	INST	—
6	At ODAD Modem Eliminator, Set Top Baud Dial to **1**, Bottom Baud Dial to **2** and Delay Dial to **0**	INST	—
	* Registered trademark of AT&T		

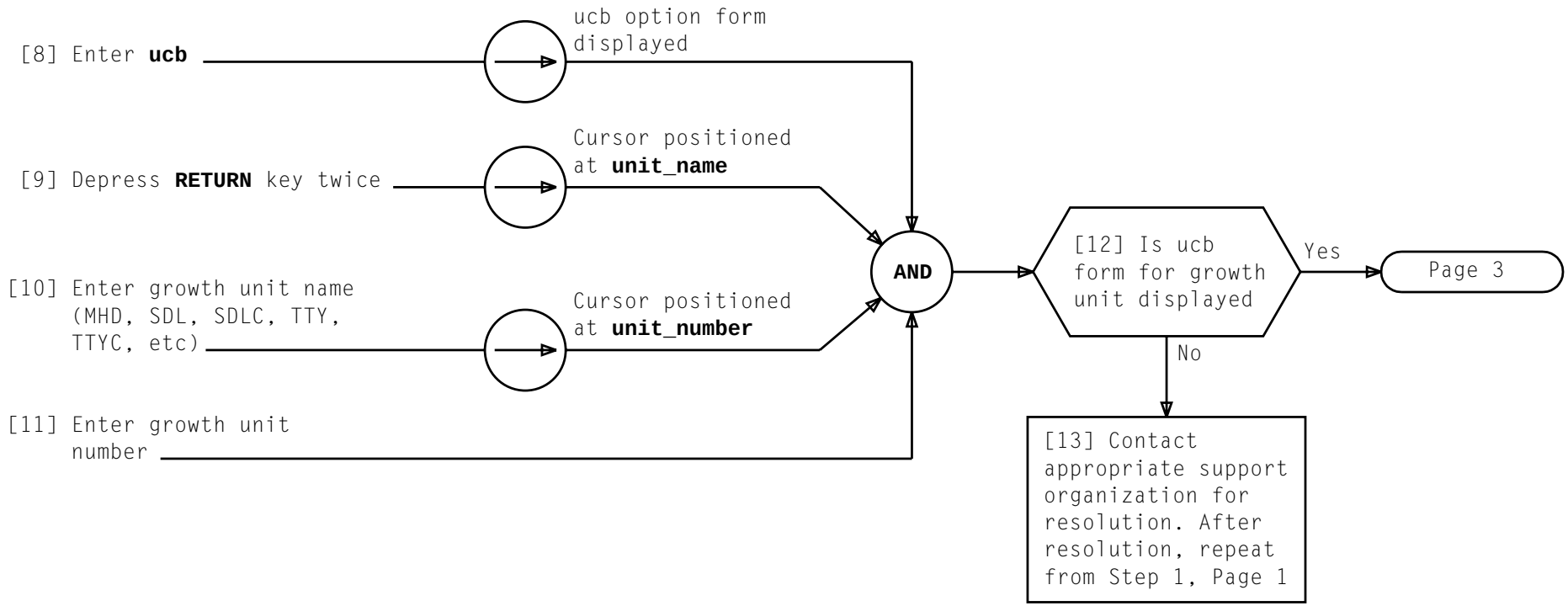
DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
7	At ODAD Modem Eliminator, Operate LB (Loop Back) Switch in Direction of Arrow To Turn On Loop Back Mode	INST	—
8	Verify System Status	TELCO	DLP-559
9	At APS MCRT, Enter Following Messages to Inhibit Automatic Diagnostics: · INH:DMQ;SRC REX! · INH:DMQ;SRC ADP! · INH:DMQ;SRC ART!	TELCO	—
	NOTE: Items 10 through 12 are being performed to ensure clean file system before starting growth		
10	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
11	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
12	Update Backup Data Base	TELCO	DLP-532
13	At APS MCRT, Depress **NORM/DISP (PF2)** Key and Enter **115** in Command Mode To Obtain Display Page 115	TELCO	—
14	Determine if SDLC 12 Is Displayed in UNEQ State	TELCO	—
15	Enter **114** in Command Mode to Obtain Display Page 114	TELCO	—
16	Determine if SDL 24 and SDL 25 (if Shown) Are Displayed in UNEQ State	TELCO	—
17	If SDLC 12, SDL 24, and/or SDL 25 (if Shown) Are Not Listed in UNEQ State, Perform Items 18 Through 20; Otherwise, Go to Item 21	TELCO	—
18	At APS MCRT, Enter Message **OP:OOS!** and Determine if SDLC 12, SDL 24, and/or SDL 25 Are Listed	TELCO	—
19	If SDLC 12, SDL 24, and/or SDL 25 Are Not Listed, Enter Appropriate Message(s) To Remove Each Unit Not Out of Service; Ensure **RMV COMPLETE** Message Is Received for Each Message Entered · RMV:SDL 24! · RMV:SDL 25! · RMV:SDLC 12!	TELCO	—
	NOTE: SDL 24 and SDL 25 must be unequipped before SDLC 12		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
20	Degrow SDL 24, SDL 25, and/or SDLC 12 to UNEQIP if Not Already UNEQIP (Items 14 and 16) (Do Not Exit Recent Change)	TELCO	DLP-548
	NOTE: SDL 25 will not be used for ODAD		
21	Recent Change cpphnone and logdev Translators for SDLC 12 and SDL 24 (Do Not Exit Recent Change)	TELCO	DLP-594
22	Recent Change ucb for SDLC 12 and SDL 24 (Exit Recent Change)	TELCO	DLP-595
23	Notify Users on IOP 0 That IOP Will Be Temporarily Down	TELCO	—
24	At Power Switch, Remove From Service and Power Down IOP 0	TELCO/INST	DLP-503
25	If Cables are Connected to SDLC 12 (PC12/046 Slot) in IOP 0, Remove Cables	INST	—
26	Ensure **v.35** Cable Between ODAD Modem Eliminator and ***Datakit***	INST	—
27	If Plastic Slot Protector at PC12/046 Slot (IOP 0) Is Installed, Remove	INST	—
28	If Circuit Pack Other Than **TN82B** (MC4CO52A1E) Is Installed in PC12/046 Slot (IOP 0), Remove	INST	—
29	Install **TN82B** (MC4CO52A1E) Circuit Pack in PC12/046 Slot (IOP 0) and Install New Designation Strip	INST	—
30	Connect **V.35** Cable Between **TN82B** Circuit Pack and ODAD Modem Eliminator	INST	—
31	At Power Switch, Power Up and Restore IOP 0 to Service	TELCO/INST	DLP-504
32	Notify Users on IOP 0 To Resume Their Activities	TELCO	—
33	At Power Distribution or Battery Distribution Fuse Board Frame, Install Fuse for ODAD Modem Eliminator	INST	—
34	At ODAD Modem Eliminator, Verify **SD, RD, RTS,** and **CTS** LEDs on Front Panel Are On	INST	—
	NOTE: SDLC 12 must be recent changed to GROW before SDL 24		
35	Recent Change SDLC 12; Then SDL 24 From UNEQ to GROW (Exit Recent Change)	TELCO	DLP-505
36	At APS MCRT, Depress **NORM/DISP (PF2)** Key and Enter 115 in Command Mode To Obtain Display Page 115	TELCO	—
37	Ensure 115 Page Displays SDLC 12 in GROW	TELCO/INST	—

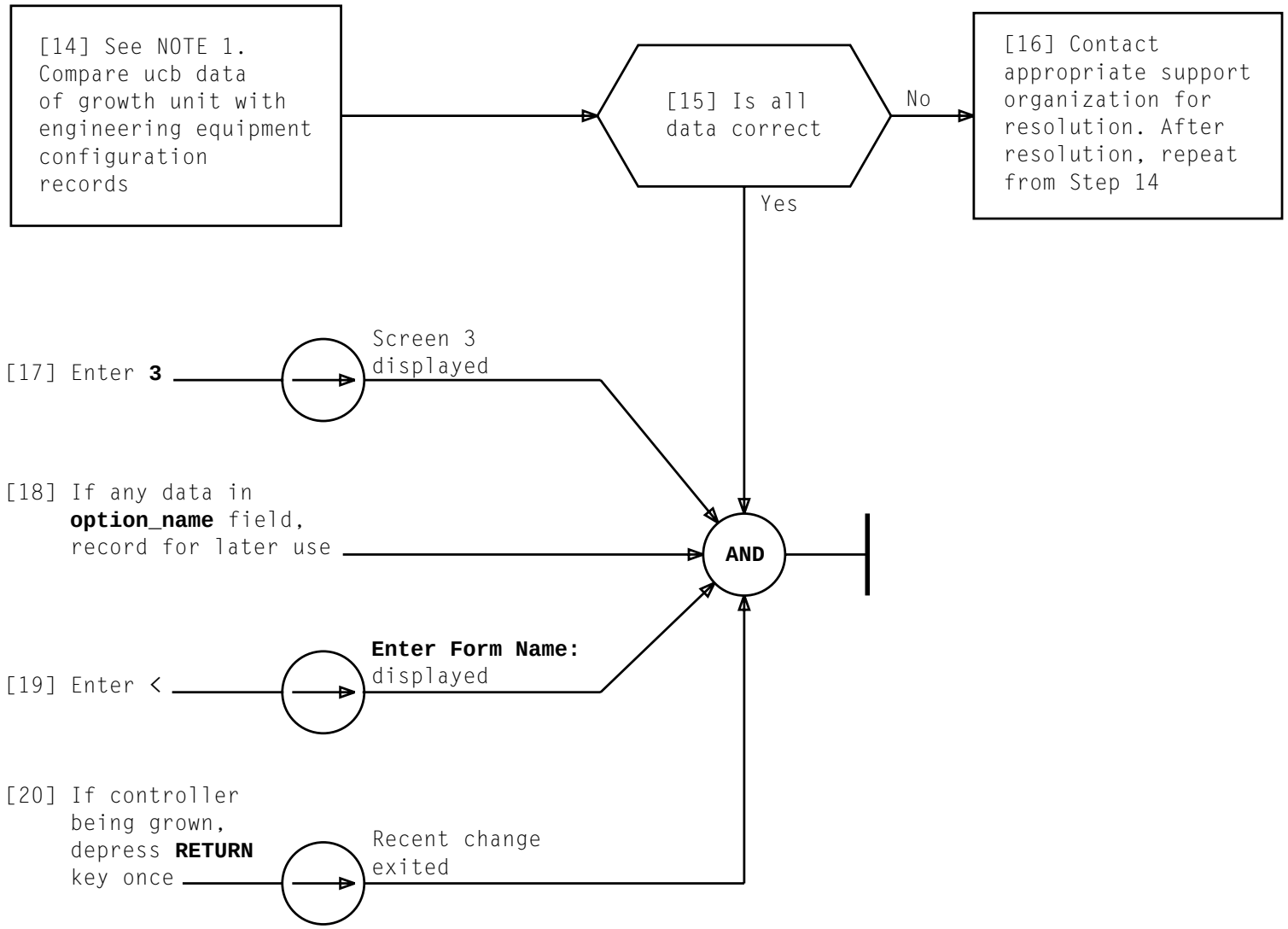
DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
38	Enter **114** in Command Mode To Obtain Display Page 114	TELCO	—
39	Ensure 114 Page Displays SDL 24 in GROW	TELCO/INST	—
40	Enter Message **DGN:SDLC 12;RAW!;** Ensure **DGN SDLC 12 ATP COMPLETE** Message Is Received	TELCO/INST	—
41	At ODAD Modem Eliminator, Verify all LEDs on Front Panel Are On	INST	—
42	Recent Change SDLC 12; Then SDL 24 From GROW to OOS (Exit Recent Change)	TELCO	DLP-506
43	At APS MCRT, Enter **114** in Command Mode To Obtain Display Page 114	TELCO	—
44	Ensure 114 Page Displays SDL 24 in OOS	TELCO/INST	—
45	Enter **115** in Command Mode To Obtain Display Page 115	TELCO	—
46	Ensure 115 Page Displays SDLC 12 in OOS	TELCO/INST	—
47	At ODAD Modem Eliminator, Operate LB (Loop Back) Switch To Turn Off Loop Back Mode	INST	—
48	Enter Message **RST:SDLC 12!;** Ensure **RST SDLC 12 COMPLETED** and **RST SDL 24 COMPLETED** Messages Are Received	TELCO/INST	—
49	At ODAD Modem Eliminator, Verify all LEDs on Front Panel Are On	INST	—
50	If AT&T Office, Contact NSDNET at 1-800-232-6717 and Request That ODAD EIA Lead Be Checked By Performing **dstat tsmt1** Command (Refer to Project Letter #940943). For LEC Office, Contact Appropriate ***Datakit*** Administrator	TELCO	—
51	At APS MCRT, Enter Following Messages To Allow Automatic Diagnostics: · **ALW:DMQ;SRC REX!** · **ALW:DMQ;SRC ADP!** · **ALW:DMQ;SRC ART!**	TELCO	—
52	Soak Growth SDL for 12 Hours To Ensure No Problems Exist With System Operation After Growth	TELCO/INST	—
53	Copy Incore Equipment Configuration Data Base (ECD) to Disk	TELCO	DLP-507
54	Run File System Audits To Ensure No File System Errors	TELCO	DLP-569
55	Update Backup Data Base	TELCO	DLP-532
56	Write 3B Computer Backup Tapes	TELCO	DLP-556
57	Verify Backup Tapes	TELCO	DLP-557



VERIFY UNIT CONTROL BLOCK (UCB) DATA FOR GROWTH UNIT



VERIFY UNIT CONTROL BLOCK (UCB) DATA FOR GROWTH UNIT



NOTE 1
There are four screens of ucb data

VERIFY UNIT CONTROL BLOCK (UCB) DATA FOR GROWTH UNIT

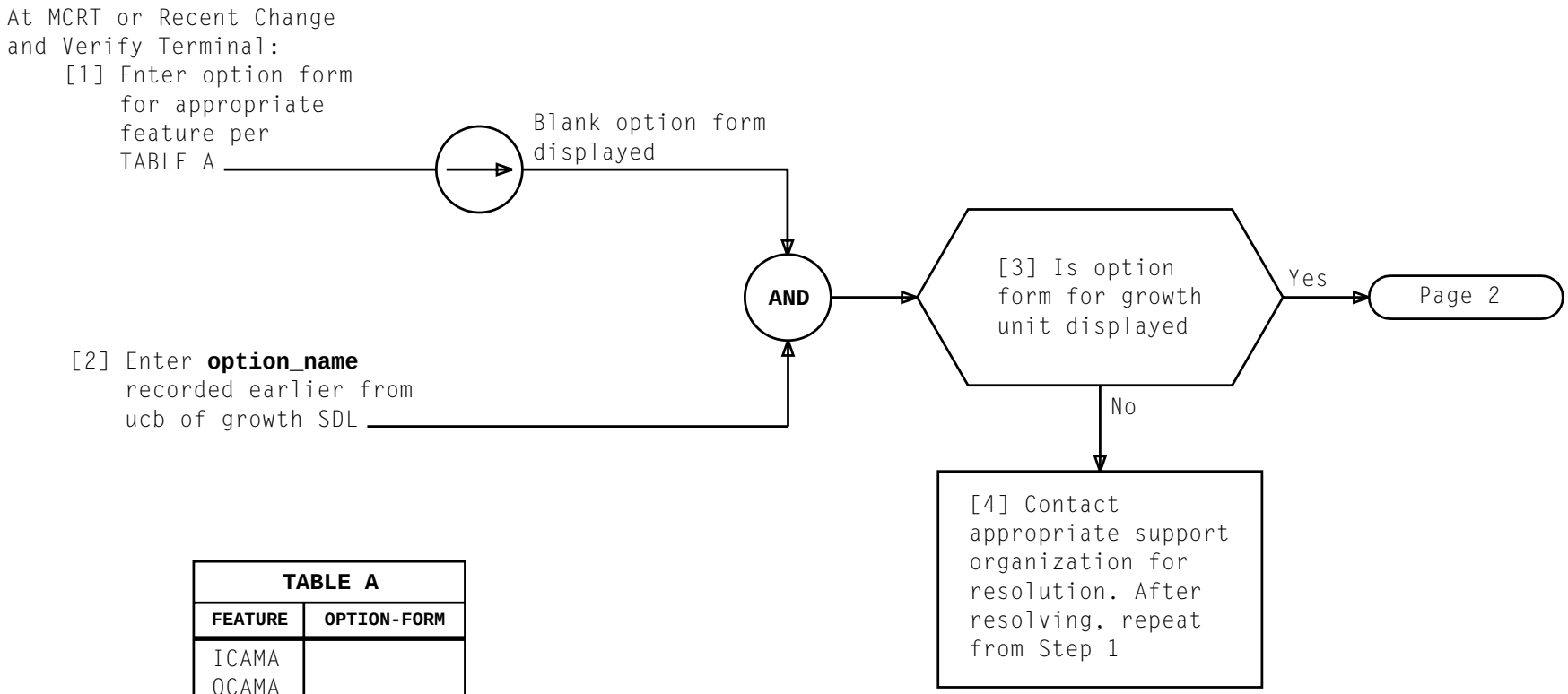


TABLE A

FEATURE	OPTION-FORM
ICAMA OCAMA SCANS TDAS TOSS	cpblx3
NEMOS PINET	nphopt

VERIFY OPTION BLOCK DATA FOR GROWTH UNIT

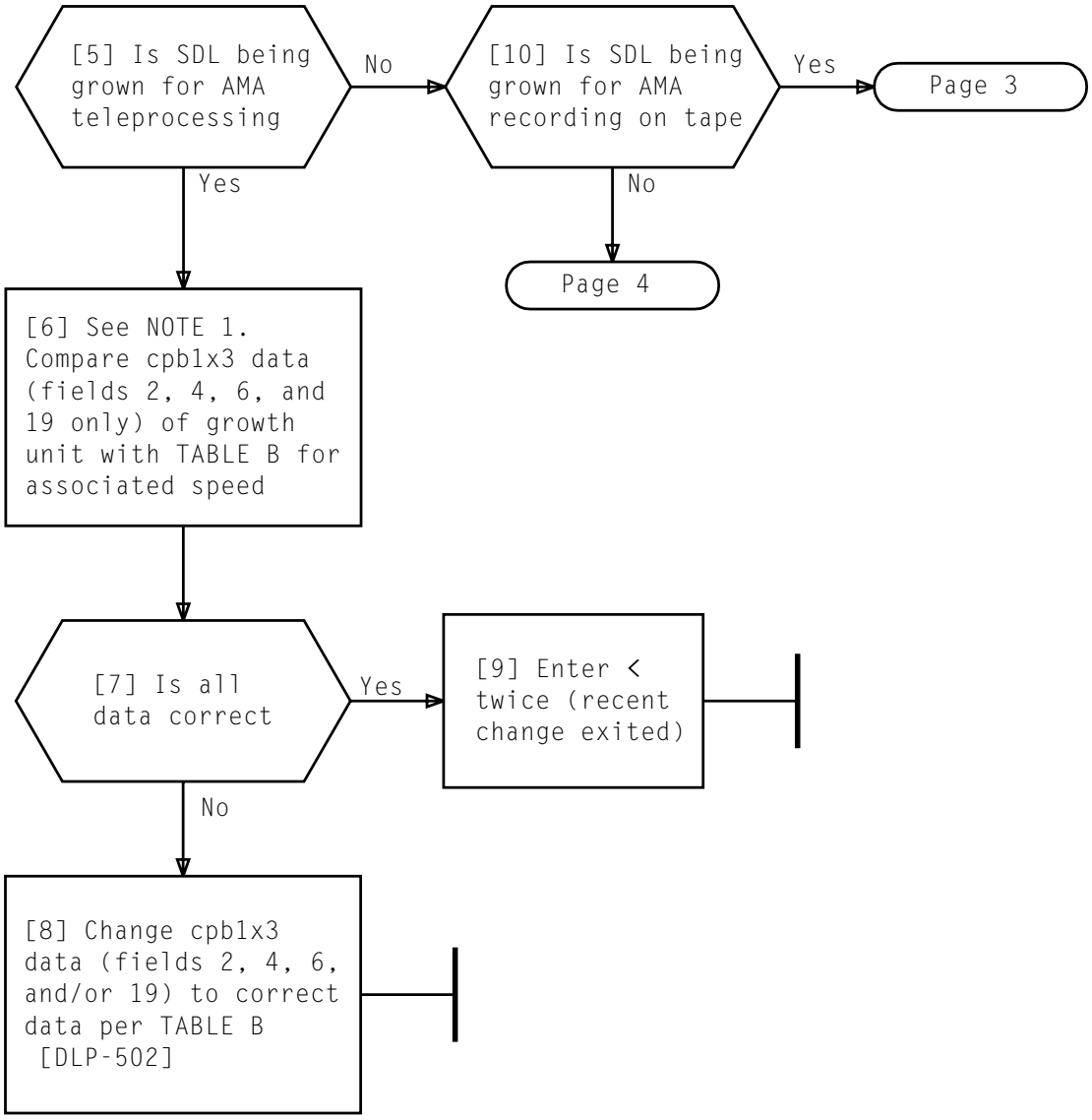
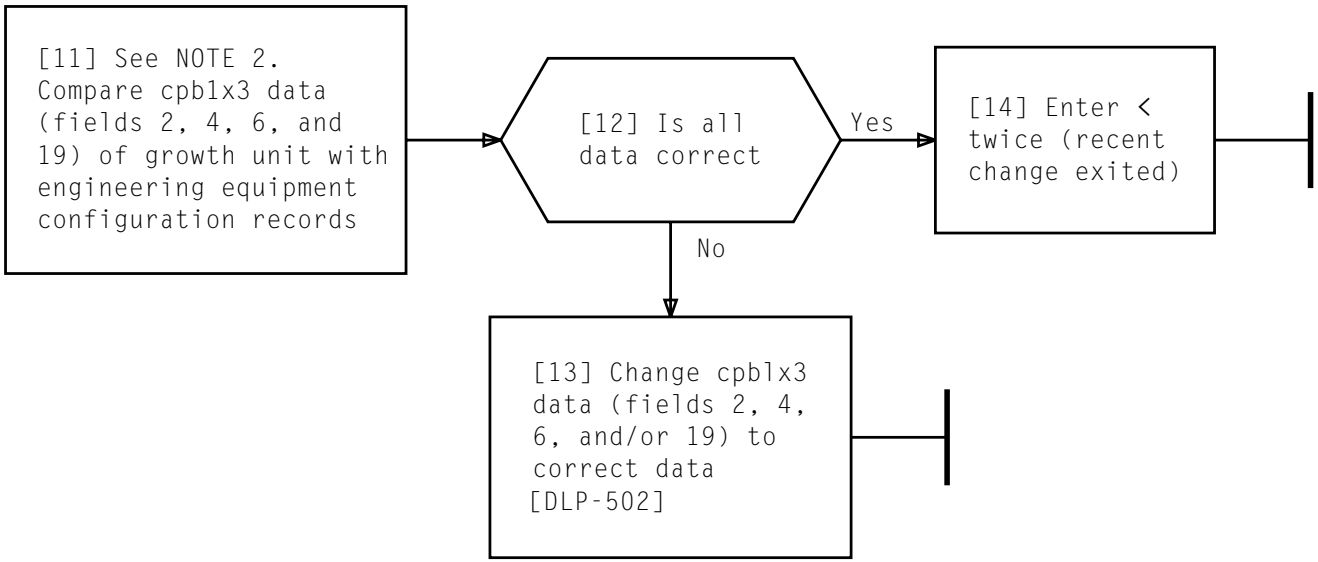


TABLE B

4800 BPS	9600 BPS
2.speed:4800	2.speed:9600
4.ds_type:2048A	4.ds_type:209A
6.line_access:noACU	6.line_access:private
19.security:y	19.security:y

NOTE 1
Field 19 is on screen 2

VERIFY OPTION BLOCK DATA FOR GROWTH UNIT



VERIFY OPTION BLOCK DATA FOR GROWTH UNIT

NOTE 2 Field 19 is on screen 2	
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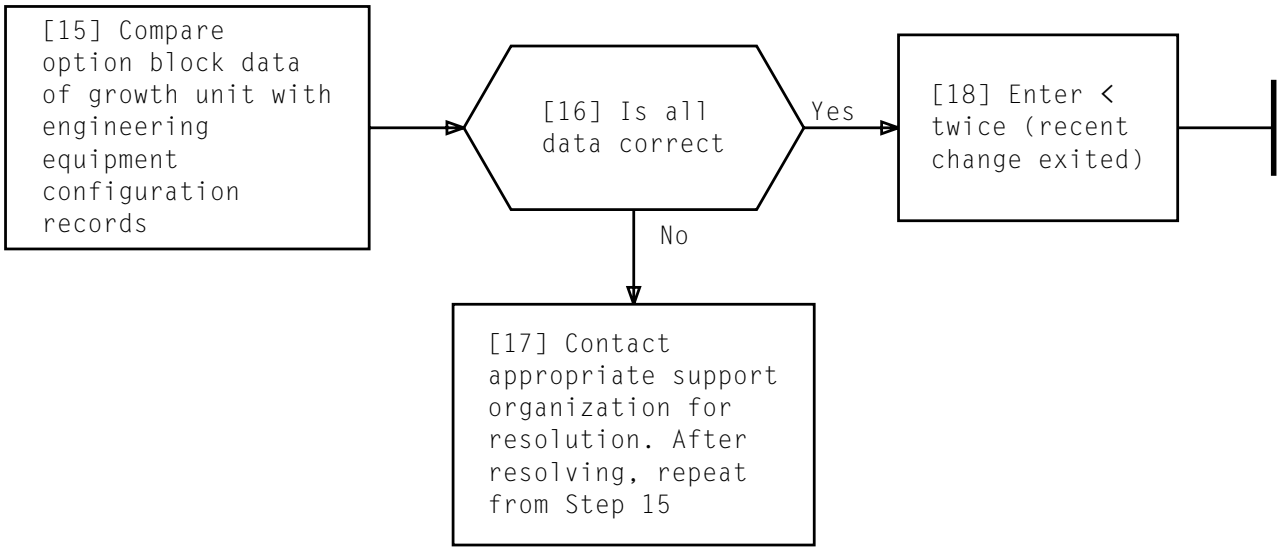
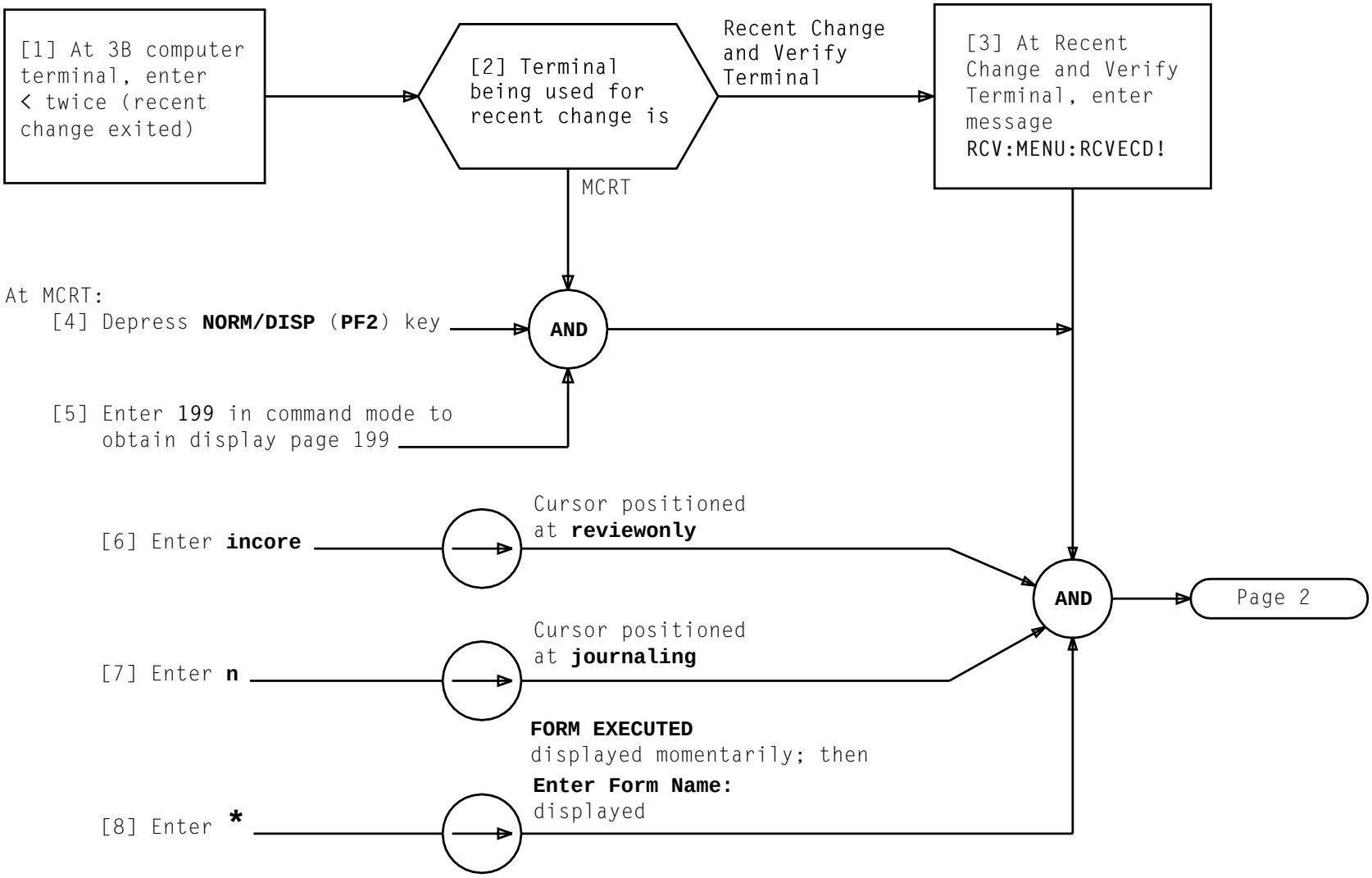
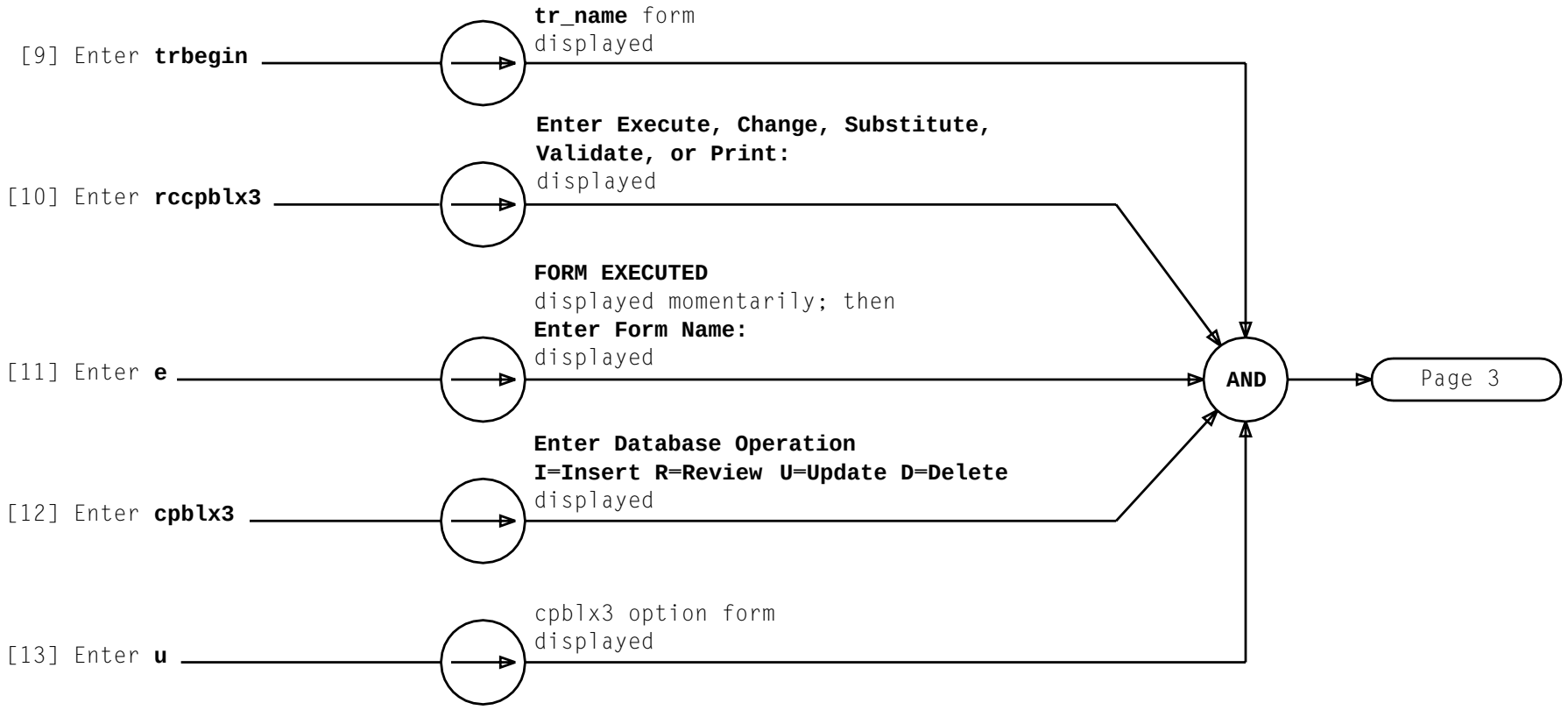


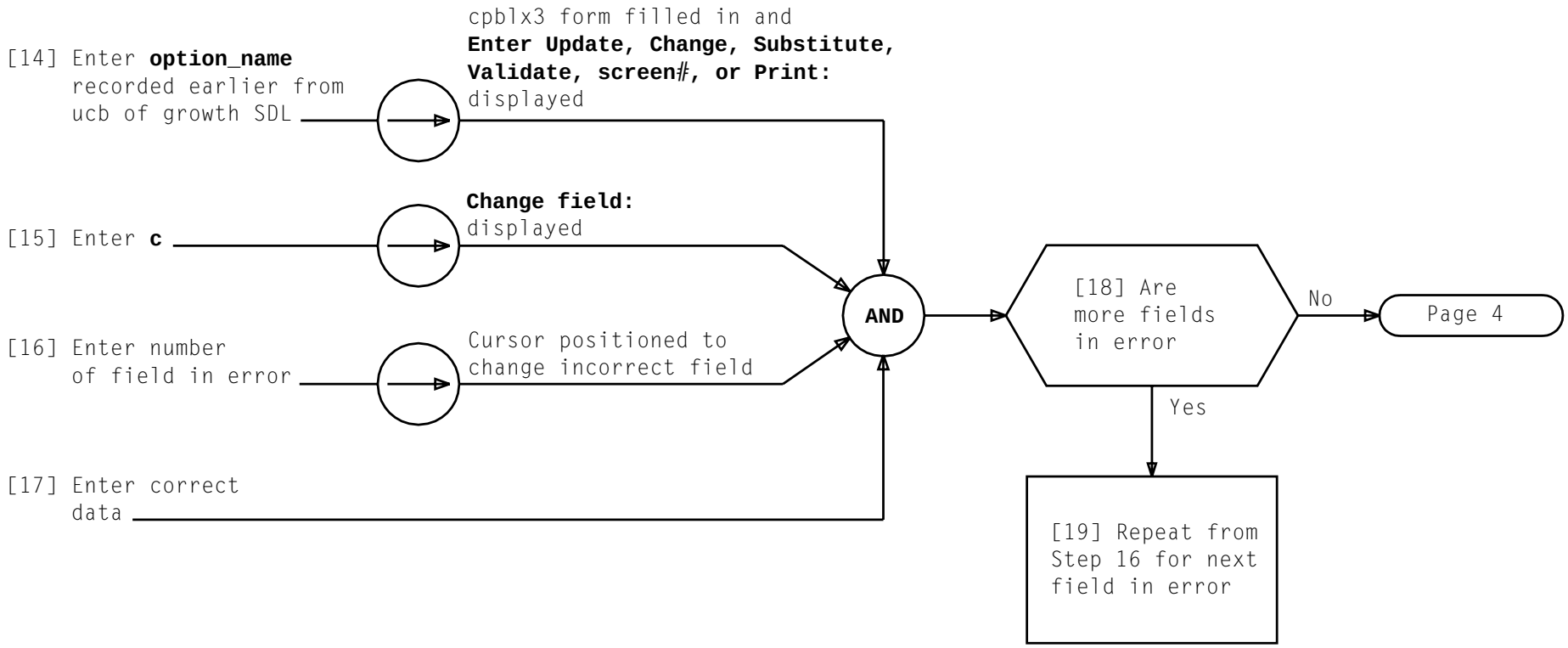
VERIFY OPTION BLOCK DATA FOR GROWTH UNIT



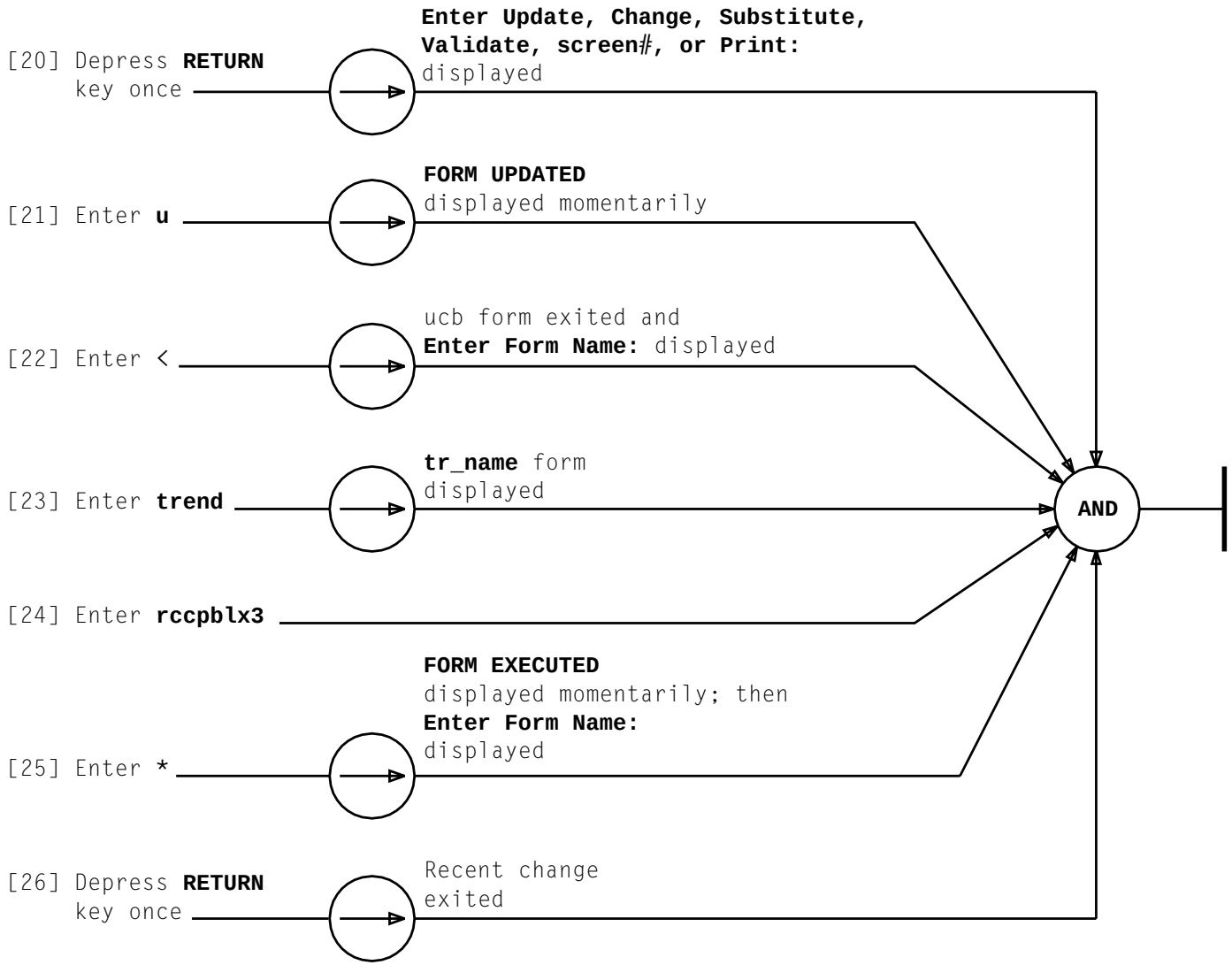
RECENT CHANGE CPBLX3 DATA



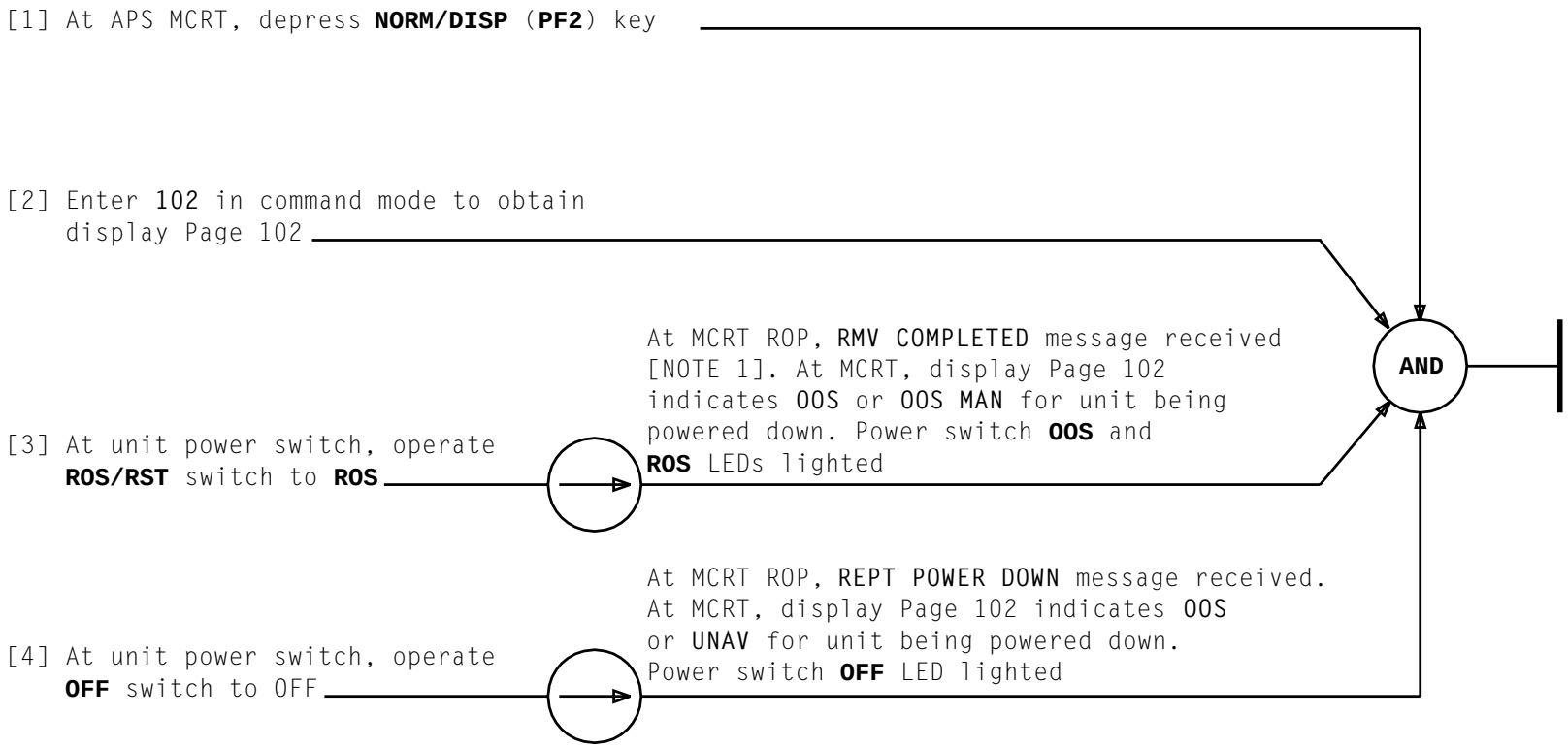
RECENT CHANGE CPBLX3 DATA



RECENT CHANGE CPBLX3 DATA



RECENT CHANGE CPBLX3 DATA



REMOVE FROM SERVICE AND POWER DOWN

NOTE 1 Any subunits will be removed from service	
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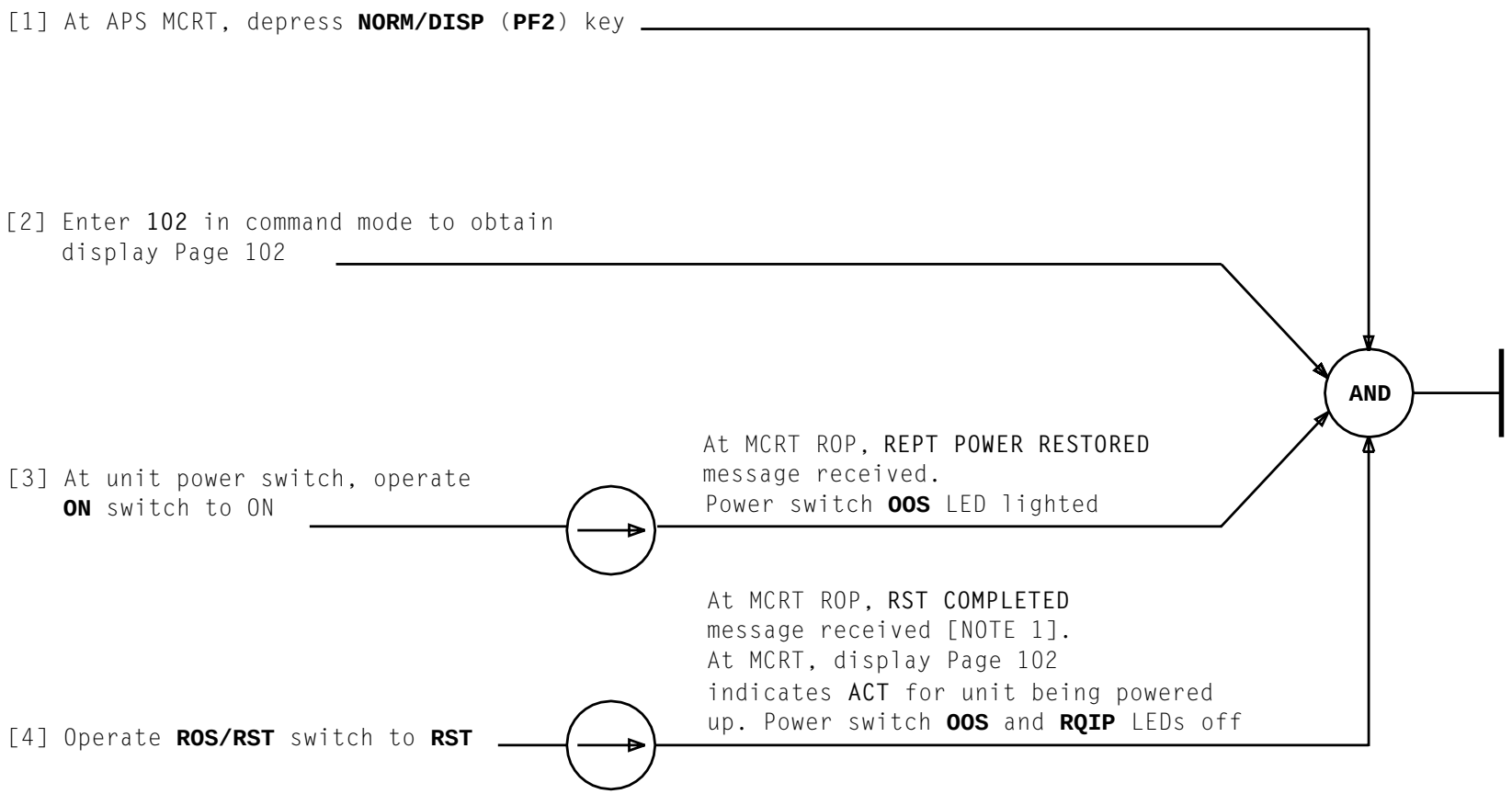

NOTE 1
Any subunits will be restored to service after RST COMPLETED message received

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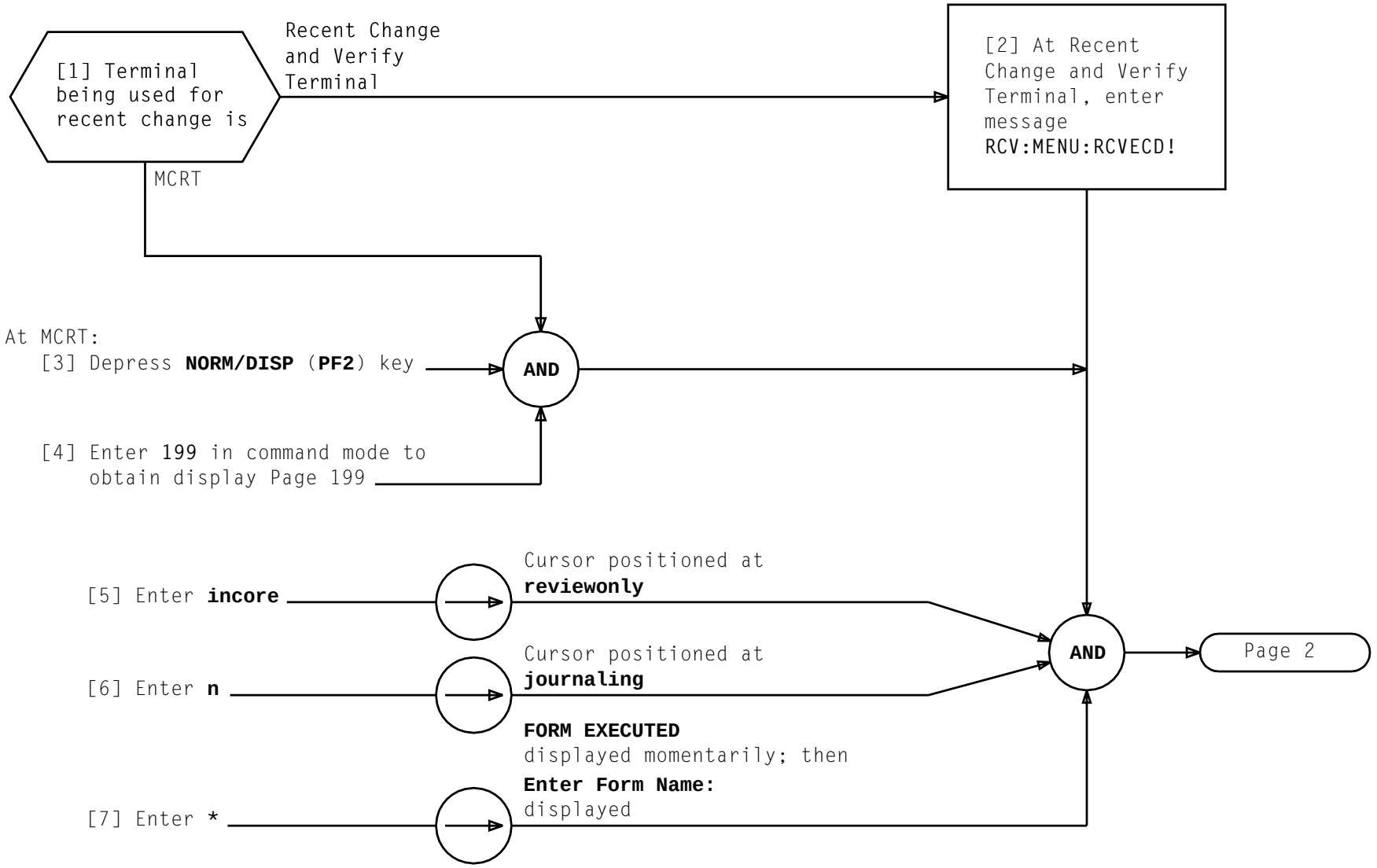
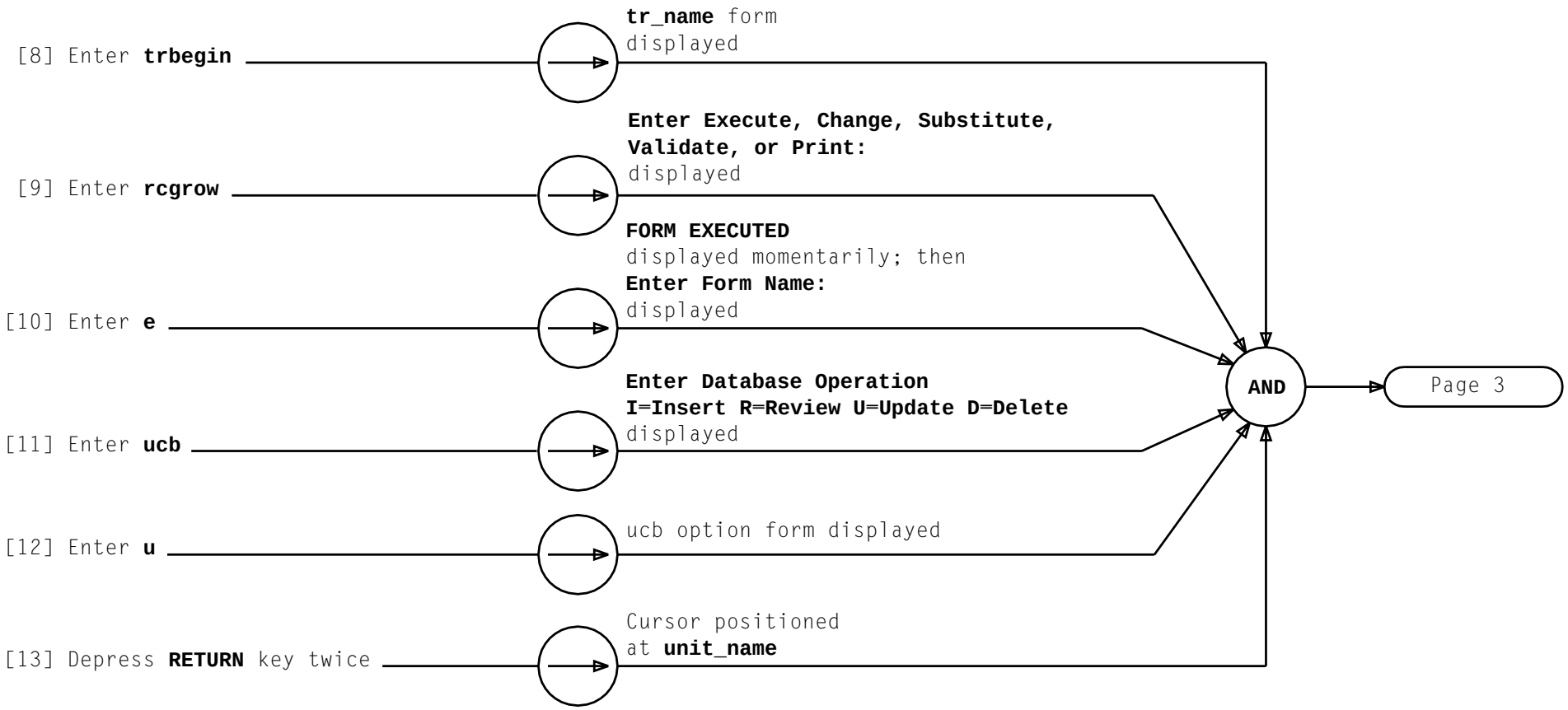
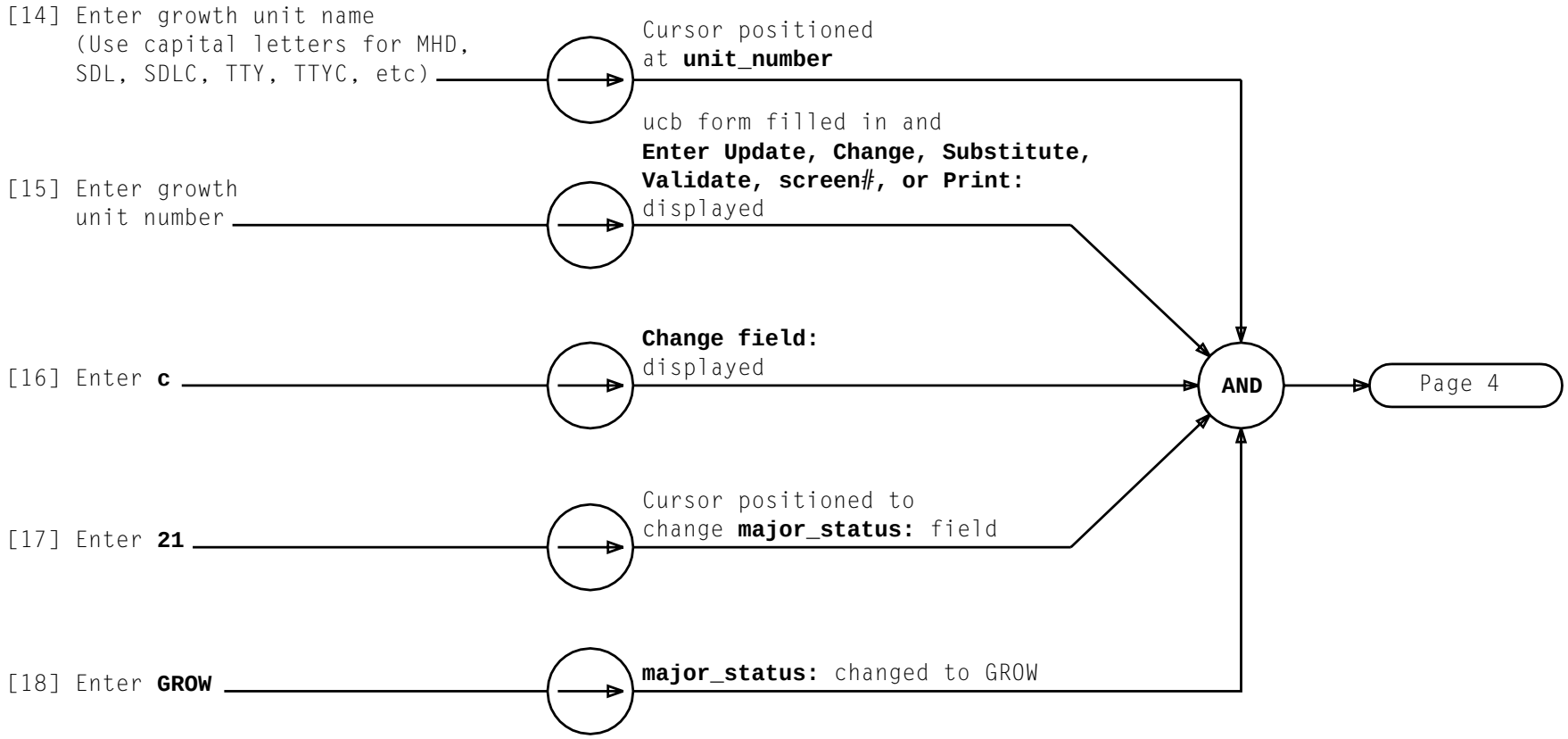
POWER UP UNIT AND RESTORE TO SERVICE



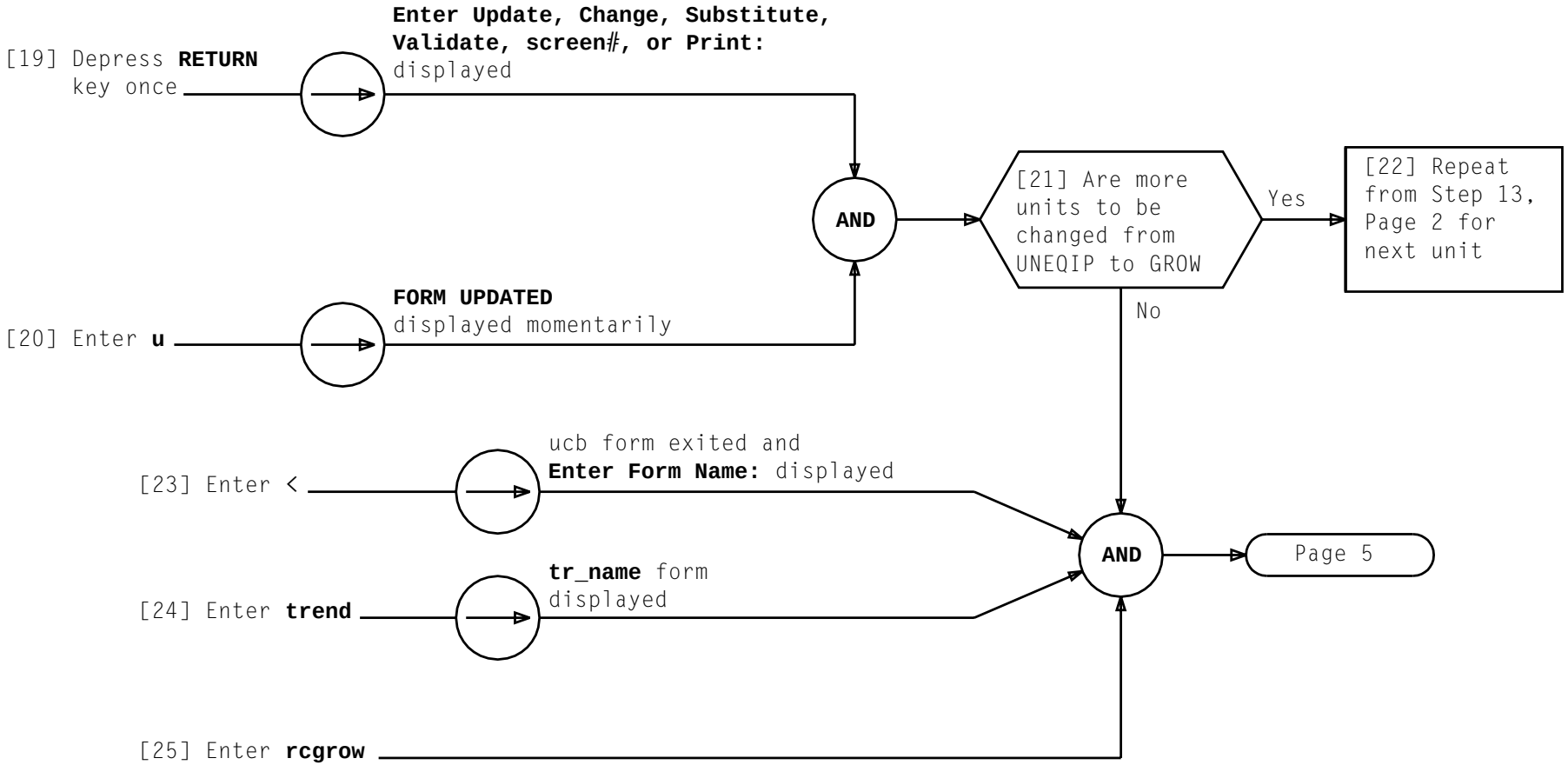
RECENT CHANGE GROWTH UNIT FROM UNEQIP TO GROW



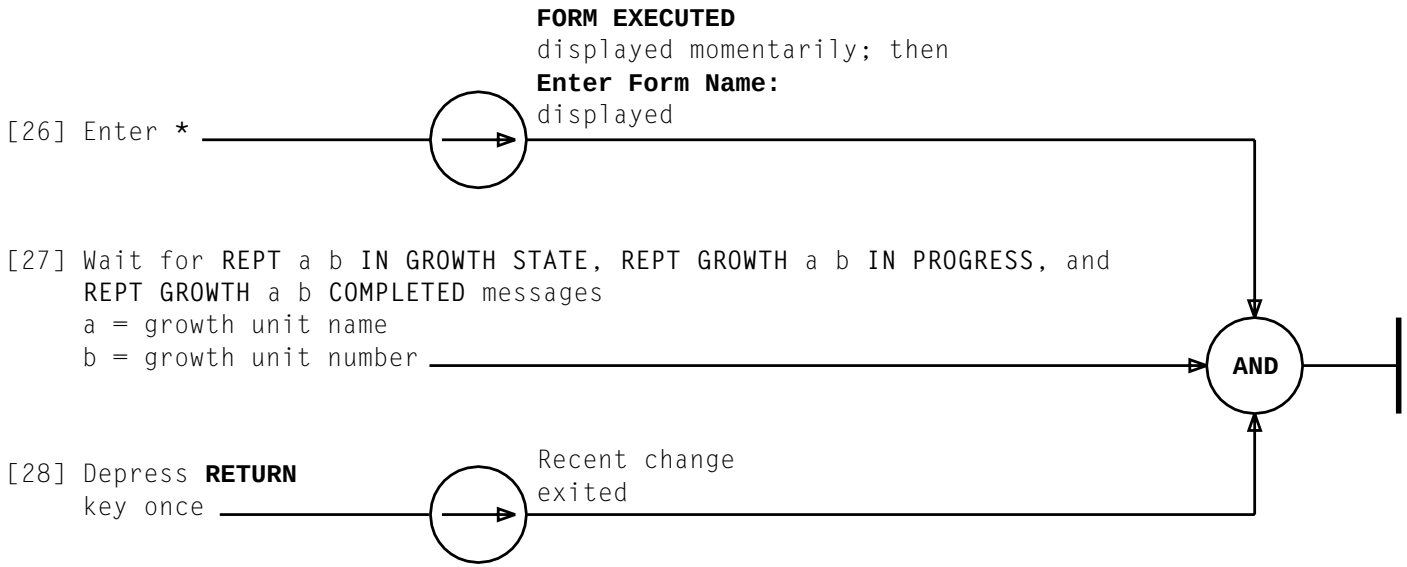
RECENT CHANGE GROWTH UNIT FROM UNEQIP TO GROW



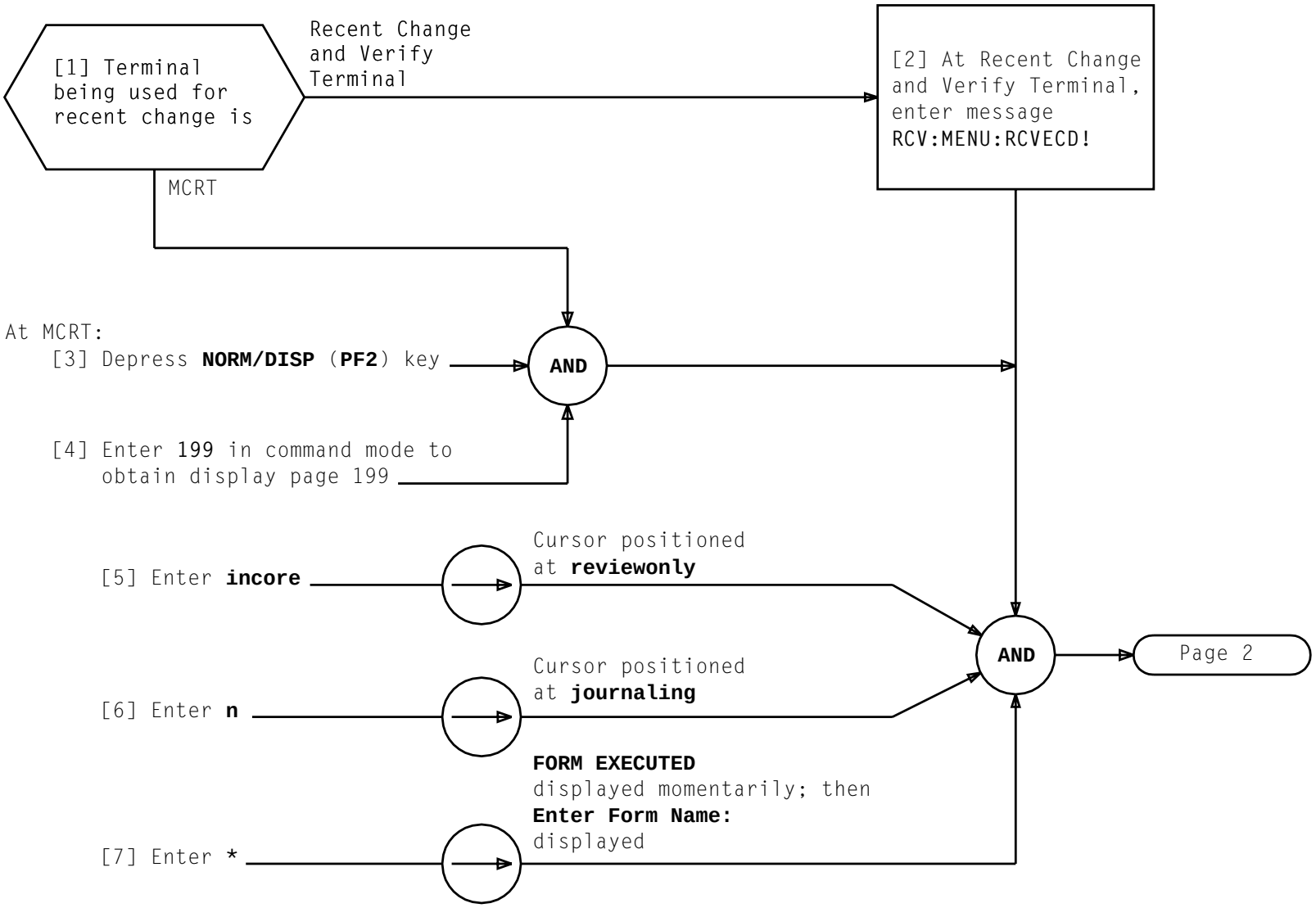
RECENT CHANGE GROWTH UNIT FROM UNEQIP TO GROW



RECENT CHANGE GROWTH UNIT FROM UNEQIP TO GROW



RECENT CHANGE GROWTH UNIT FROM UNEQIP TO GROW



RECENT CHANGE GROWTH UNIT FROM GROW TO OOS

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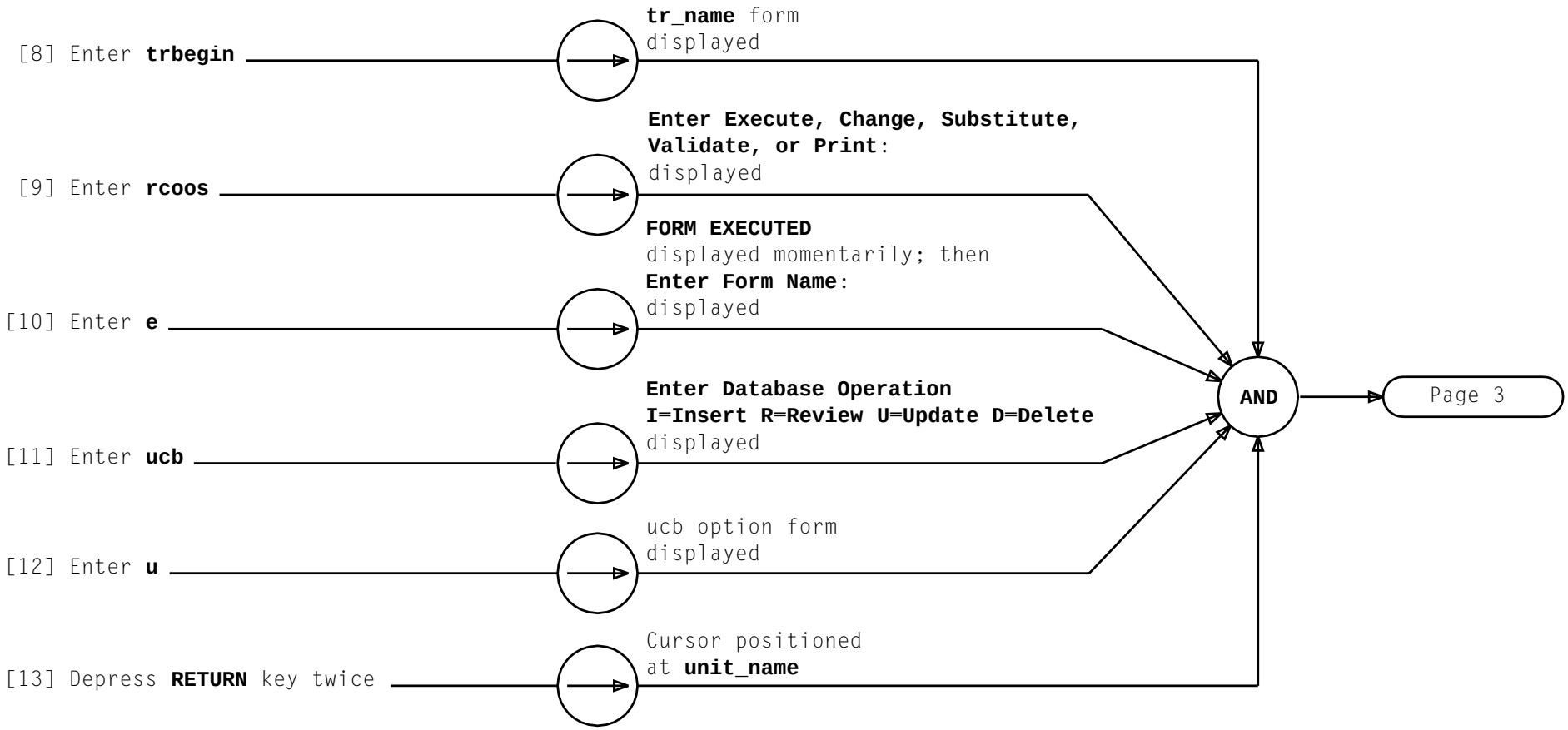
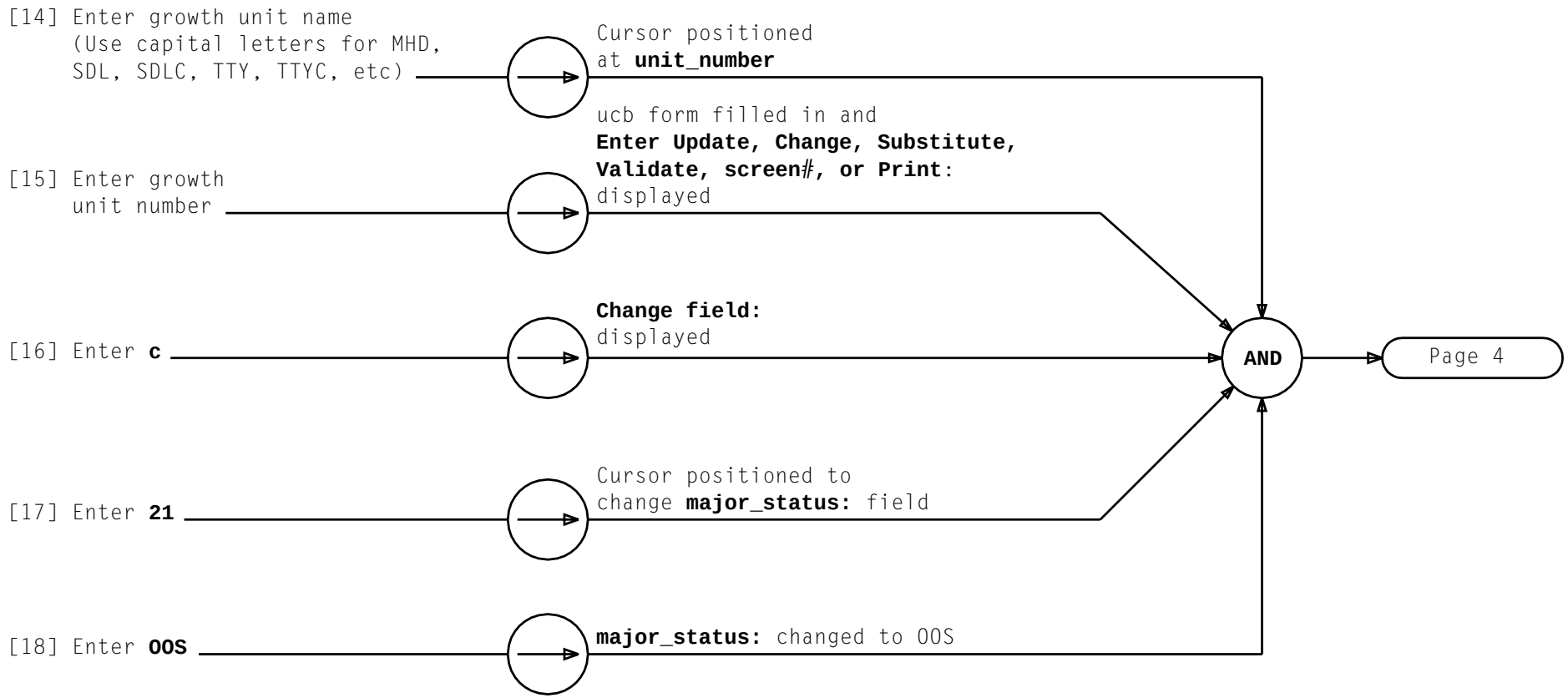
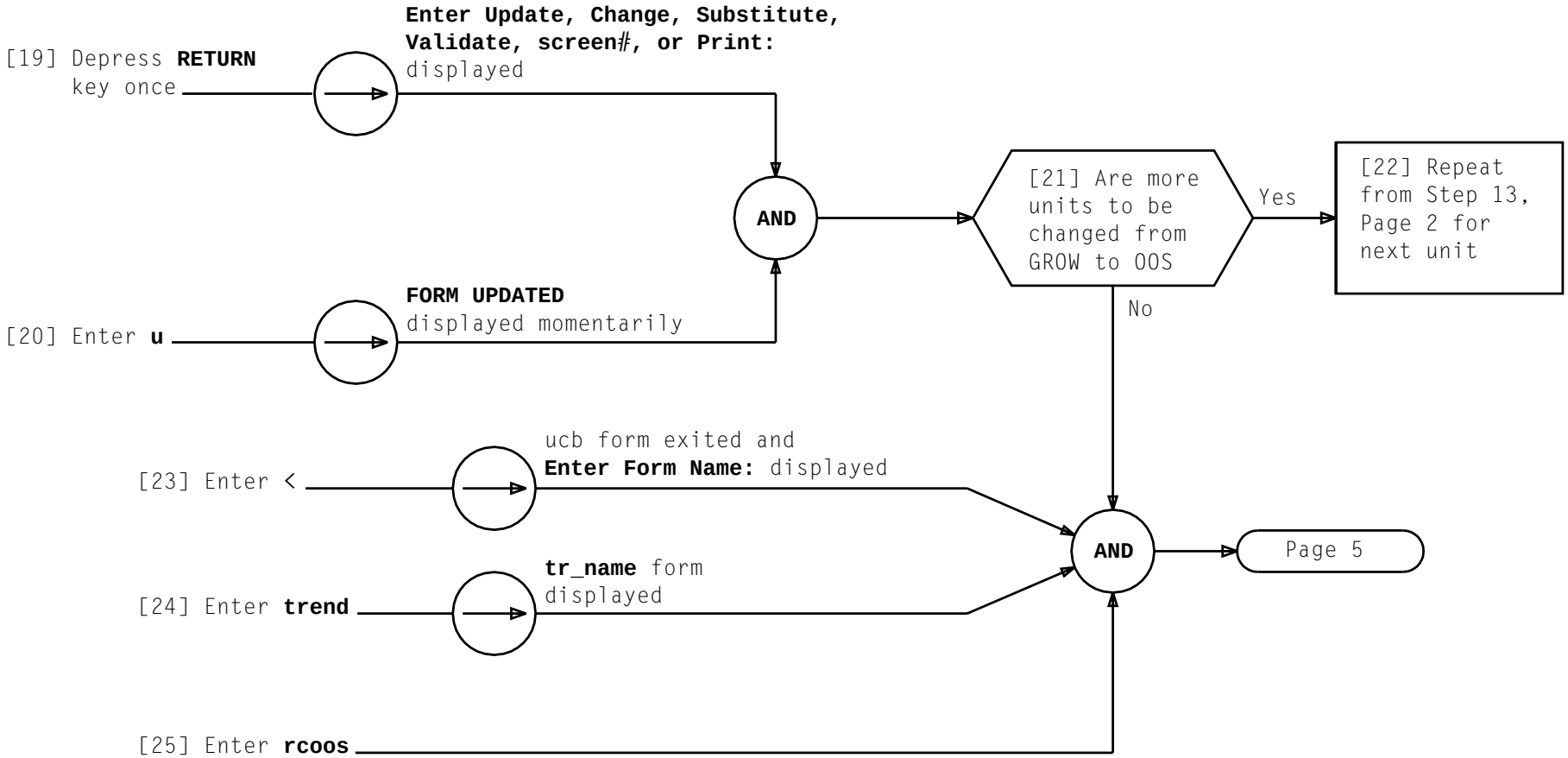


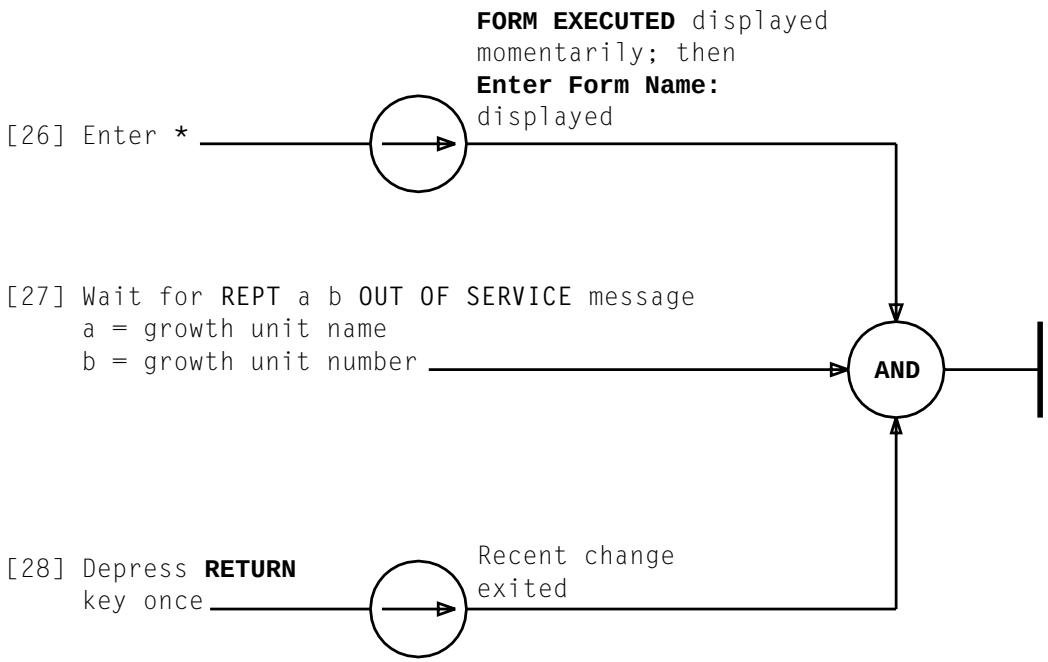
RECENT CHANGE GROWTH UNIT FROM GROW TO OOS



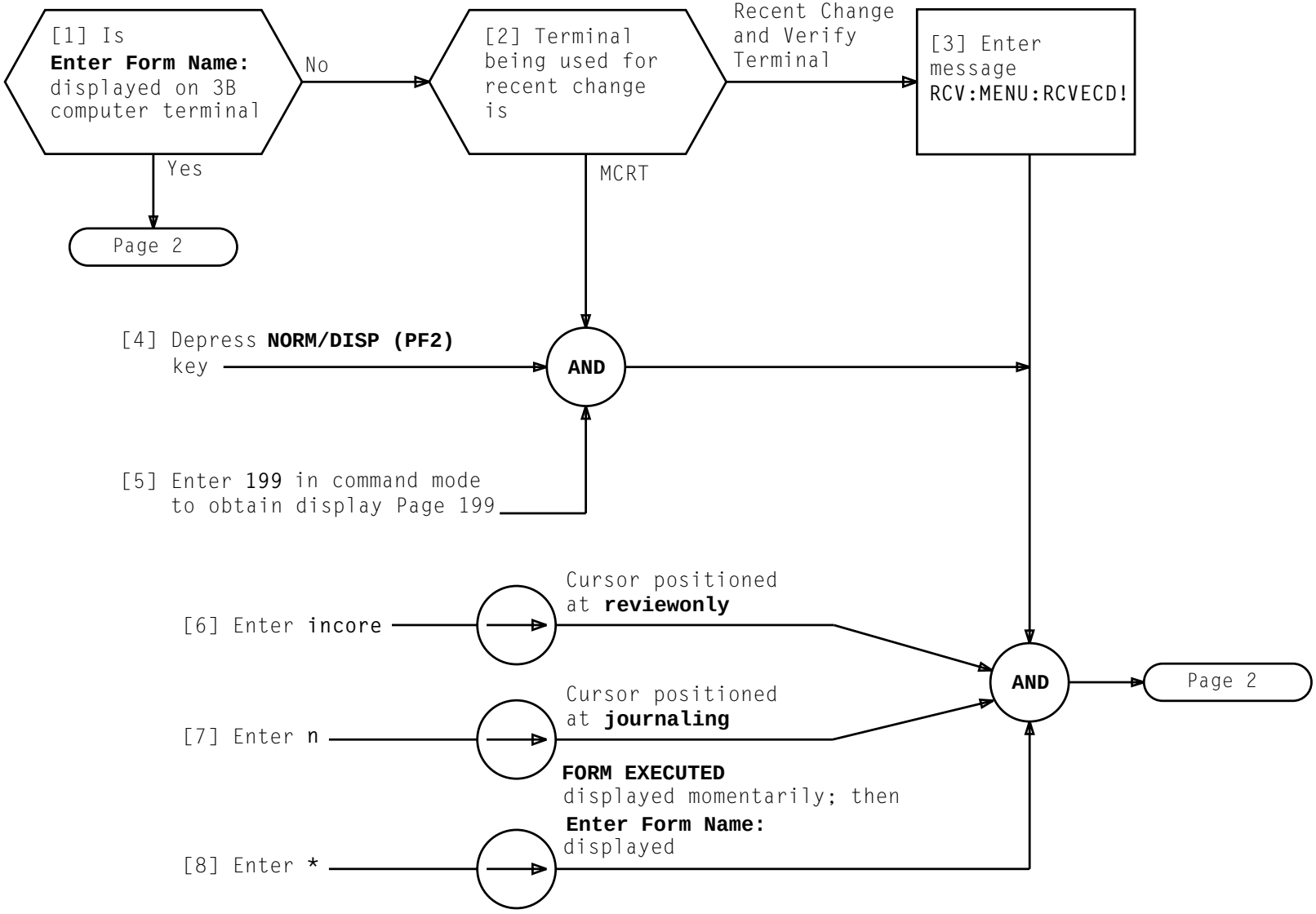
RECENT CHANGE GROWTH UNIT FROM GROW TO OOS



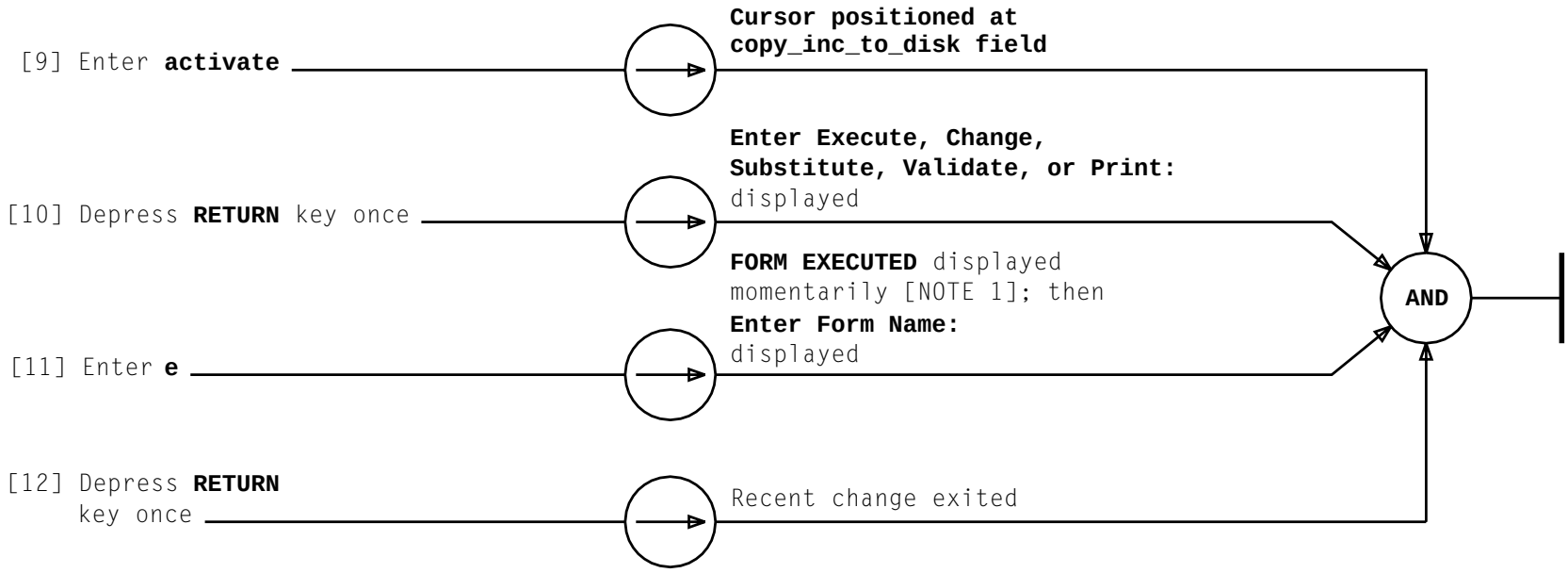
RECENT CHANGE GROWTH UNIT FROM GROW TO OOS



RECENT CHANGE GROWTH UNIT FROM GROW TO OOS



COPY INCORE EQUIPMENT CONFIGURATION DATA BASE (ECD) TO DISK



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

COPY INCORE EQUIPMENT CONFIGURATION DATA BASE (ECD) TO DISK

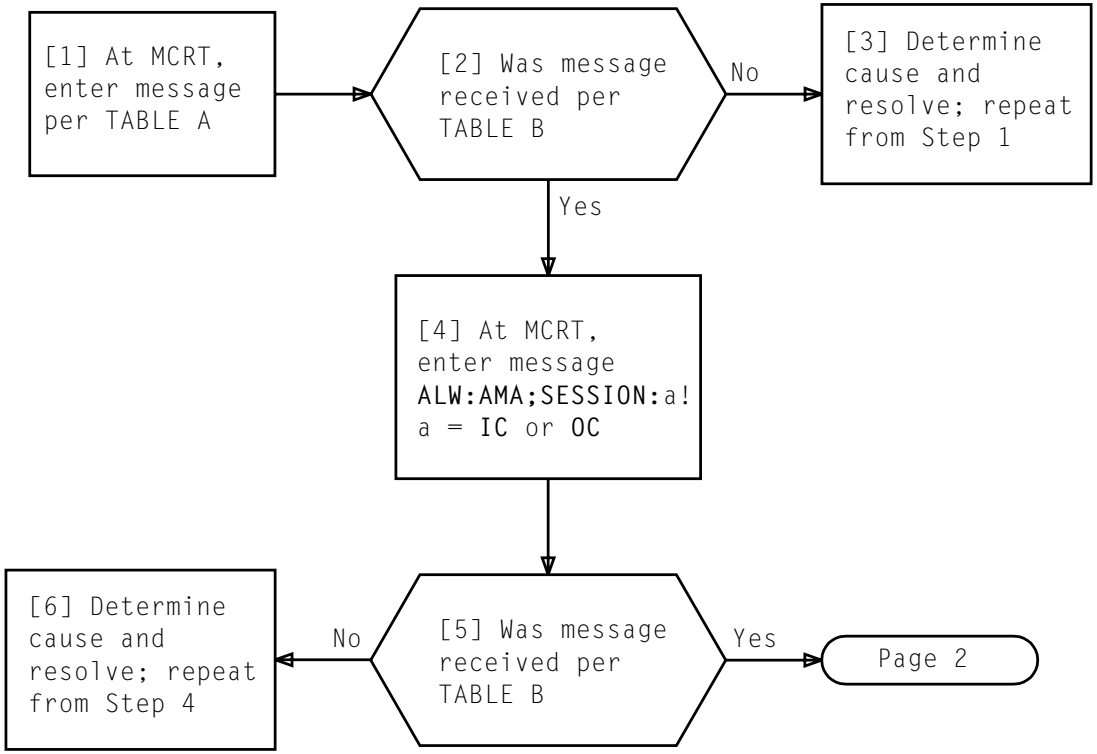


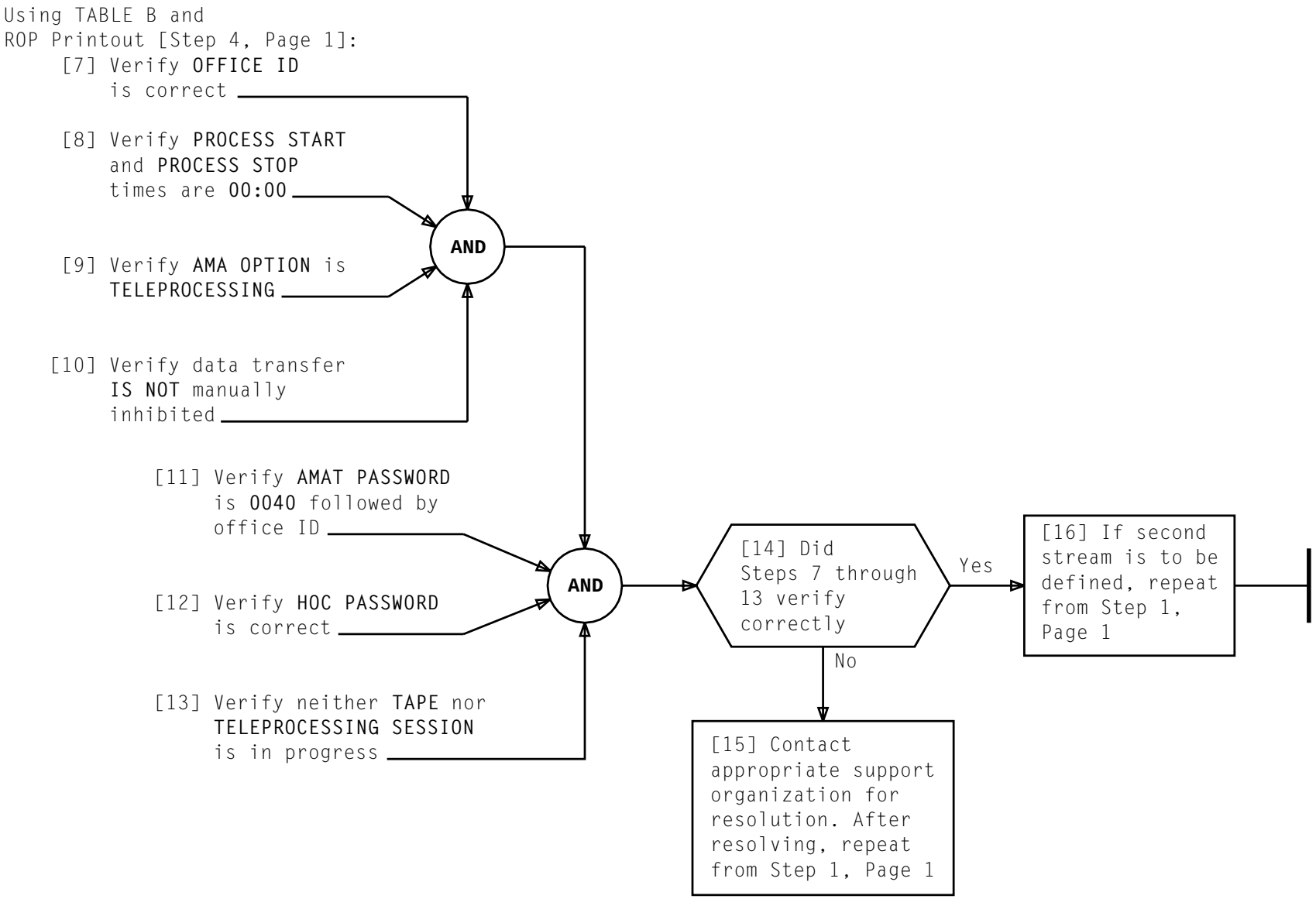
TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;a:OPTION TP,OFFICEID b,HOCPSWD c,BACKUPSWD d! a = IC or OC b = 6-digit office ID assigned by HOC c = 10-digit password for normal HOC d = 10-digit password for backup HOC

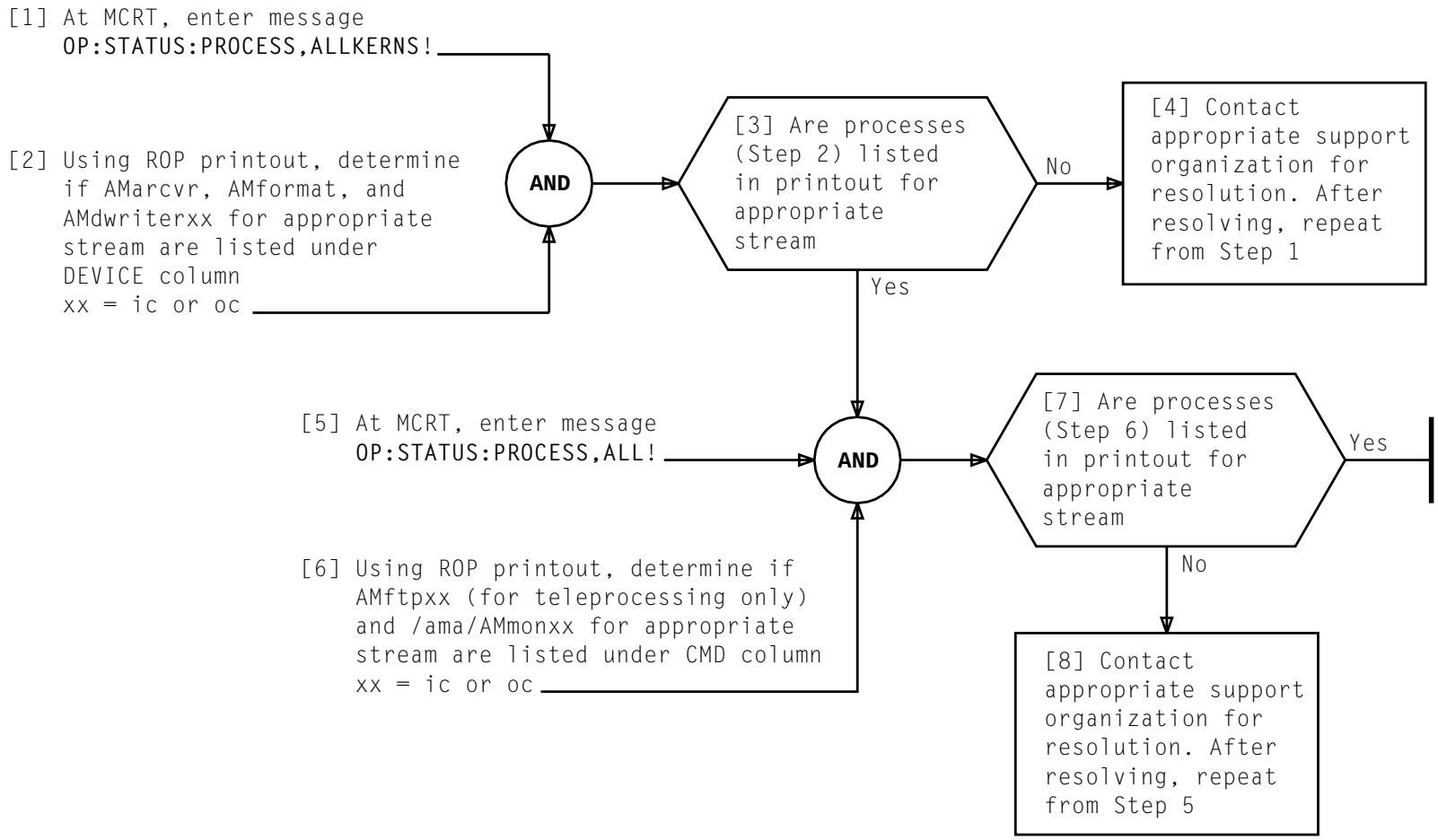
TABLE B

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA CONTROL FILE FOR a STREAM OFFICE ID b DAYS UNTIL EXPIRATION x PROCESS START TIME 00:00 PROCESS STOP TIME 00:00 DEFAULT MT FOR AUTO TAPE START x AMA OPTION IS TELEPROCESSING DATA TRANSFER c MANUALLY INHIBITED AMAT PASSWORD 0040b HOC PASSWORD d BACKUP HOC PASSWORD e PASSWORD FROM LAST SESSION x TAPE SESSION IS NOT IN PROGRESS TELEPROCESSING SESSION IS NOT IN PROGRESS AUTOMATIC TAPE WRITING f INHIBITED TAPE SEQUENCE NUMBER x TAPE DATA SET ID x a = IC or OC b = Entered office ID c = IS (if AMA session is inhibited) or IS NOT (if AMA session is allowed) d = Entered normal HOC password e = Entered backup HOC password f = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed) x = Don't care

DEFINE OFFICE-DEPENDENT DATA FOR AMA TELEPROCESSING



DEFINE OFFICE-DEPENDENT DATA FOR AMA TELEPROCESSING



VERIFY AMA PROCESSES RUNNING

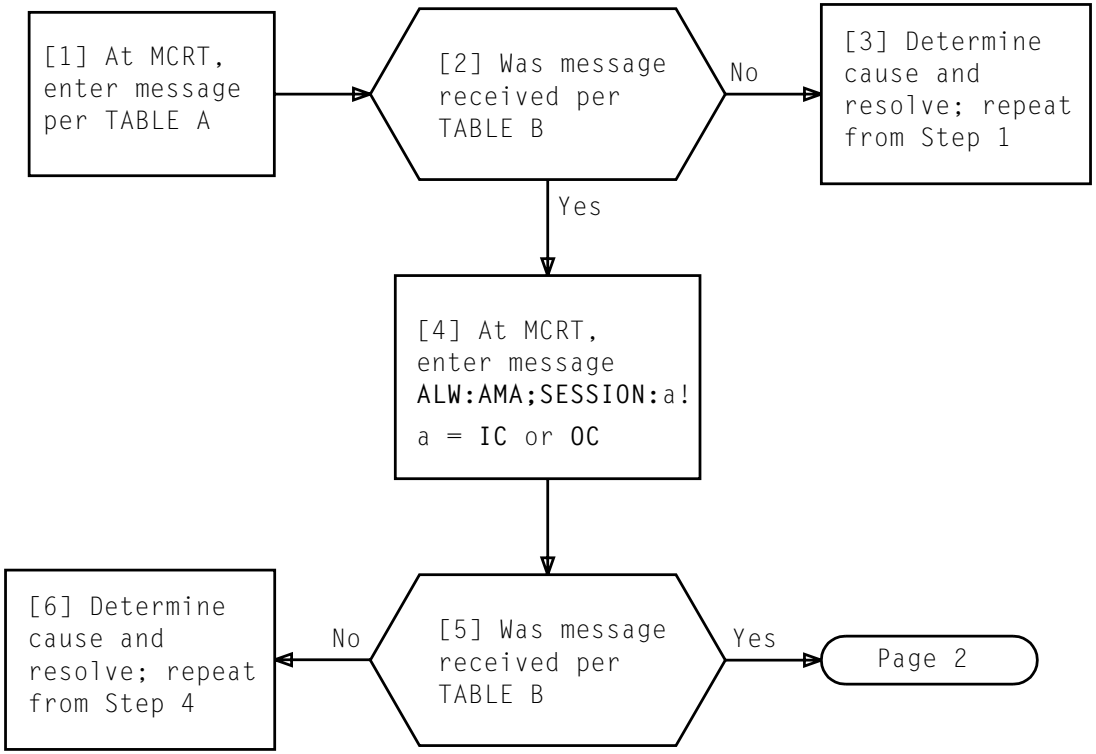


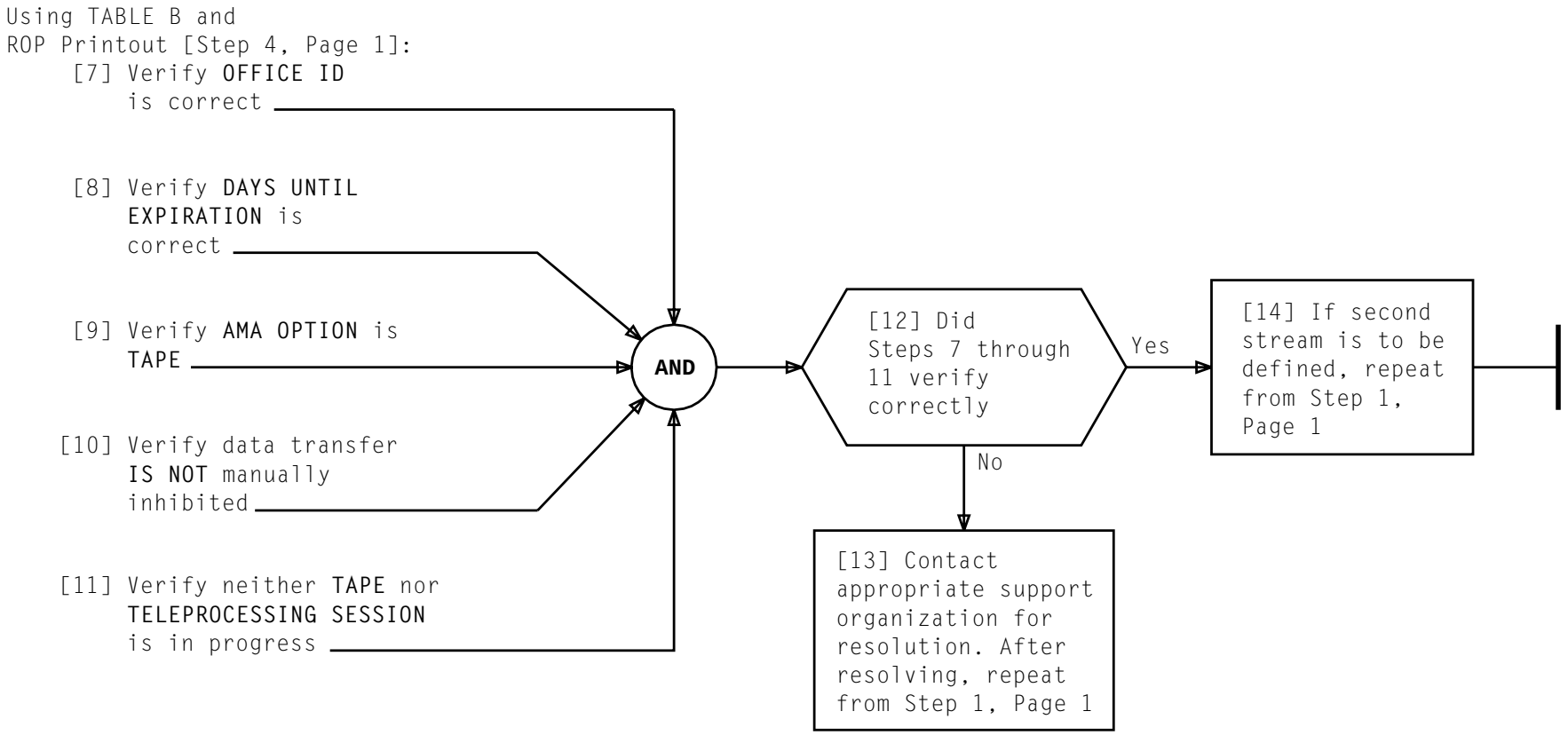
TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;a:OPTION TAPE,OFFICEID b,EXPDATE c! a = IC or OC b = 6-digit office ID assigned by HOC c = Number of days (1 through 99) until AMA tape expires

TABLE B

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA CONTROL FILE FOR a STREAM OFFICE ID b DAYS UNTIL EXPIRATION c PROCESS START TIME 00:00 PROCESS STOP TIME 00:00 DEFAULT MT FOR AUTO TAPE START x AMA OPTION IS TAPE DATA TRANSFER d MANUALLY INHIBITED AMAT PASSWORD x HOC PASSWORD x BACKUP HOC PASSWORD x PASSWORD FROM LAST SESSION x TAPE SESSION IS NOT IN PROGRESS TELEPROCESSING SESSION IS NOT IN PROGRESS AUTOMATIC TAPE WRITING e INHIBITED TAPE SEQUENCE NUMBER x TAPE DATA SET ID x a = IC or OC b = Entered office ID c = Entered number of days until AMA tape expires d = IS (if AMA session is inhibited) or IS NOT (if AMA session is allowed) e = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed) x = Don't care

DEFINE OFFICE-DEPENDENT DATA FOR AMA TAPE



DEFINE OFFICE-DEPENDENT DATA FOR AMA TAPE

[1] Office has

Model 2/3 3B computer → Page 3

Model 1 3B computer

[2] Open tape unit dust cover

[3] Lift supply (upper) reel hub tab. Place tape reel onto supply (upper) reel hub. See FIG. 1

[4] While holding tape reel, secure tape reel by returning supply hub tab to normal locked down position

[5] Thread tape along tape path as shown in FIG. 1

[6] Hold end of tape against takeup reel and wrap several turns clockwise by rotating reel

AND → Page 2

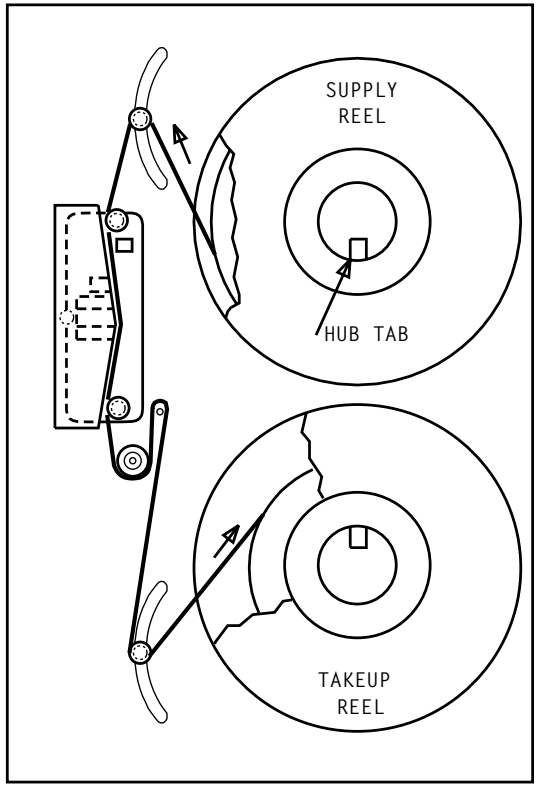
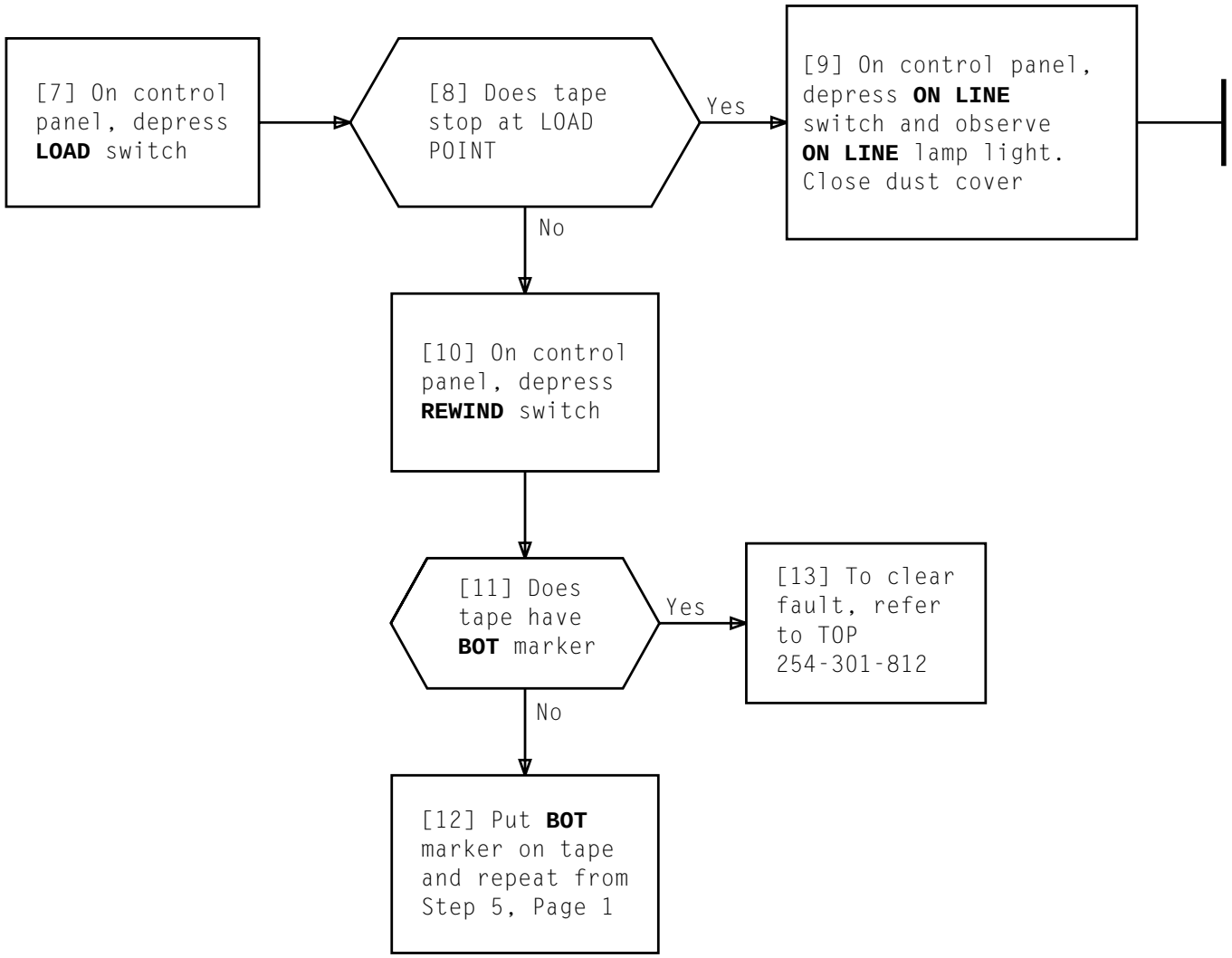


FIG. 1

MOUNT TAPE ON TAPE UNIT



MOUNT TAPE ON TAPE UNIT

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

At AT&T 3B computer tape drive:

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

[16] Open dust cover

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

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

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

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

AND

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

Yes

[24] Touch **ONLINE** switch

No

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

No

[23] Contact technical assistance per local policy

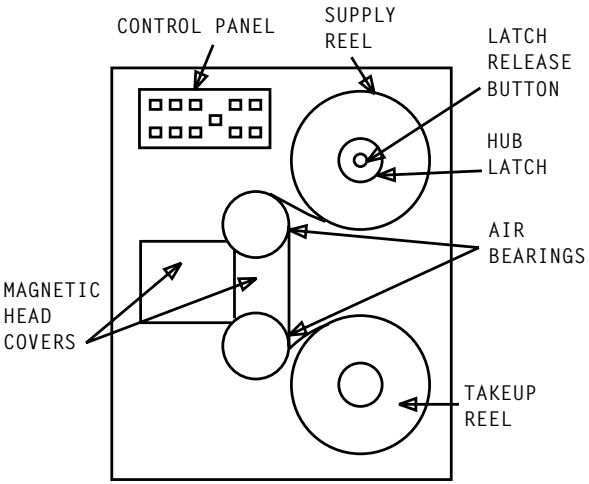
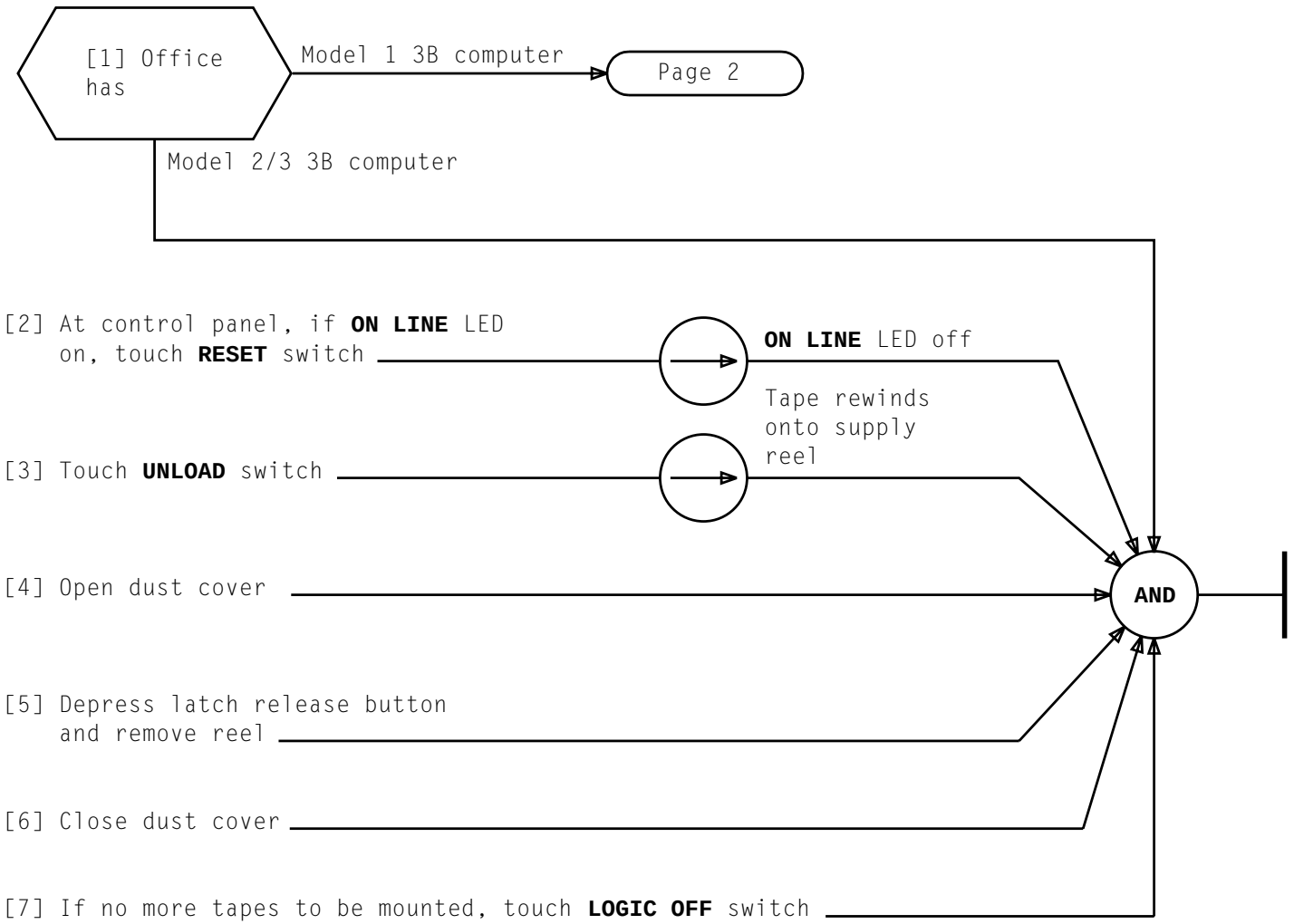
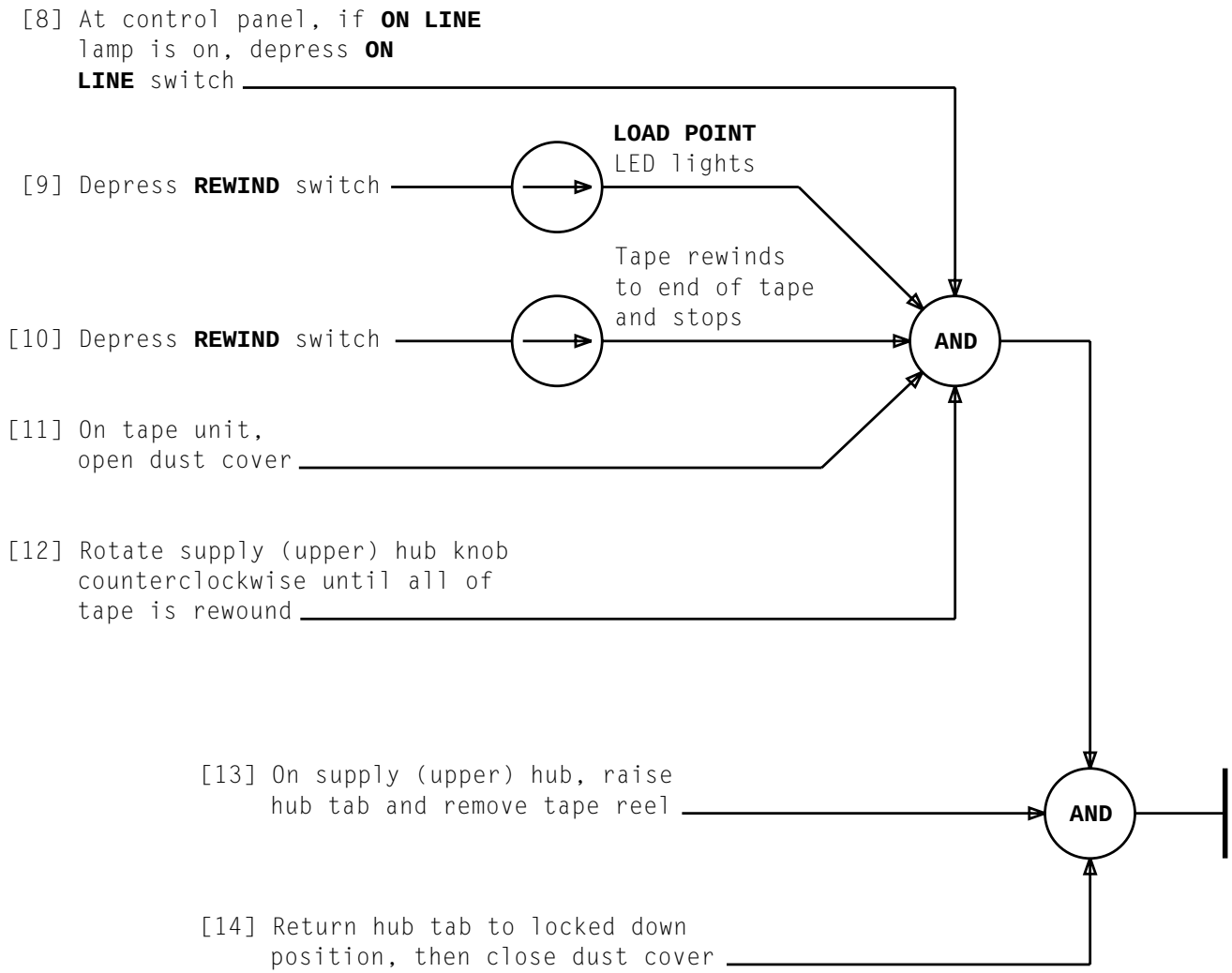


FIG. 2 — 3B Computer Tape Drive

MOUNT TAPE ON TAPE UNIT



DEMOUNT TAPE ON TAPE UNIT



DEMOUNT TAPE ON TAPE UNIT

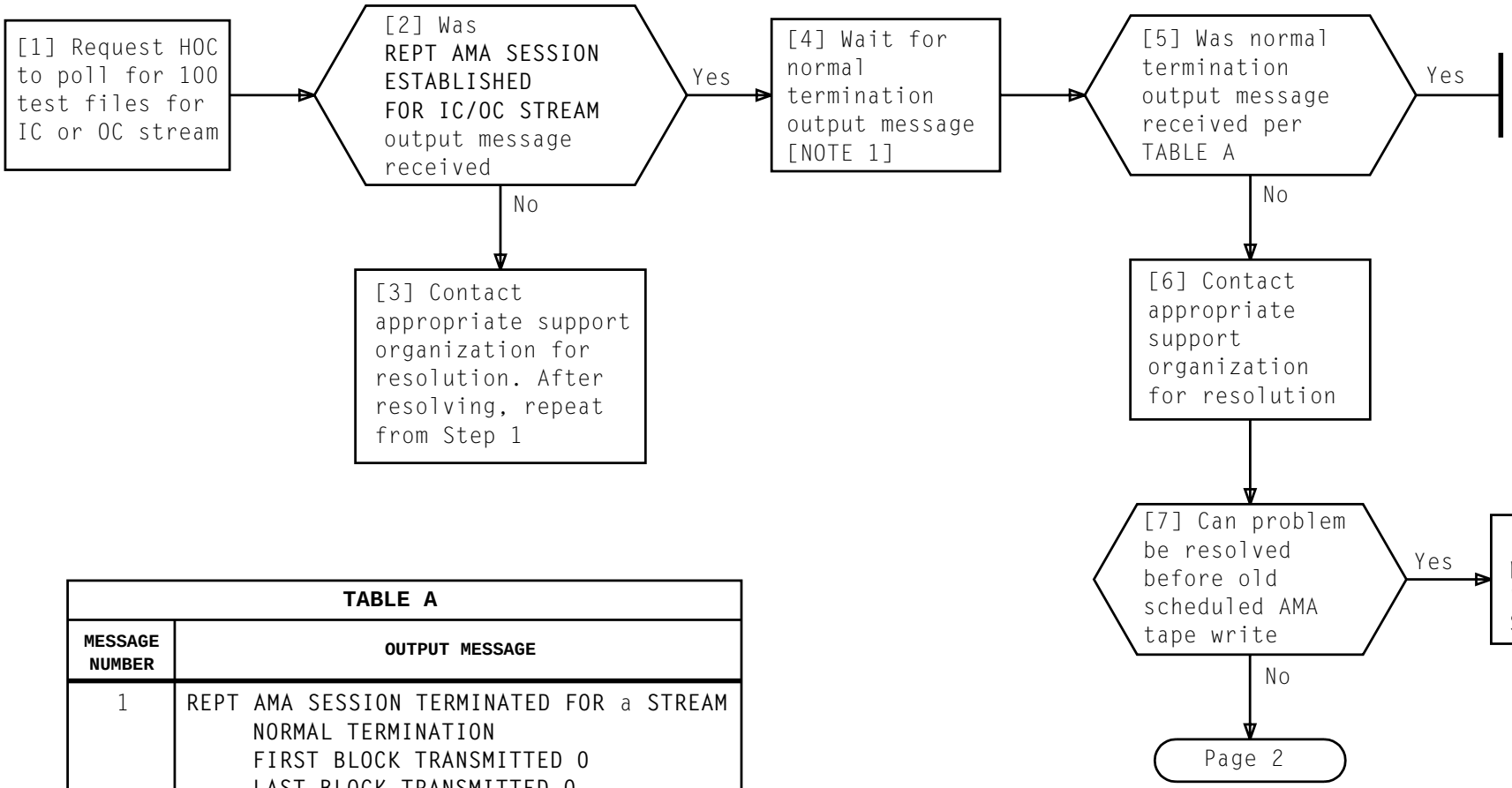


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA SESSION TERMINATED FOR a STREAM NORMAL TERMINATION FIRST BLOCK TRANSMITTED 0 LAST BLOCK TRANSMITTED 0 BLOCKS TRANSMITTED 0 AMA RECORDS TRANSMITTED 0 PRIMARY POLLS REJECTED 0 SECONDARY POLLS REJECTED 0 CURRENT DISK SPACE OCCUPANCY IS 0% SESSION START TIME ___ __ __:__:__ SESSION STOP TIME ___ __ __:__:__ SESSION LENGTH __:__:__ a = IC or OC

NOTE 1
Normal termination output message should be received approximately 9 minutes (if 4800 bps) or 5 minutes (if 9600 bps) after polling starts

REQUEST HOC TO POLL FOR 100 TEST FILES

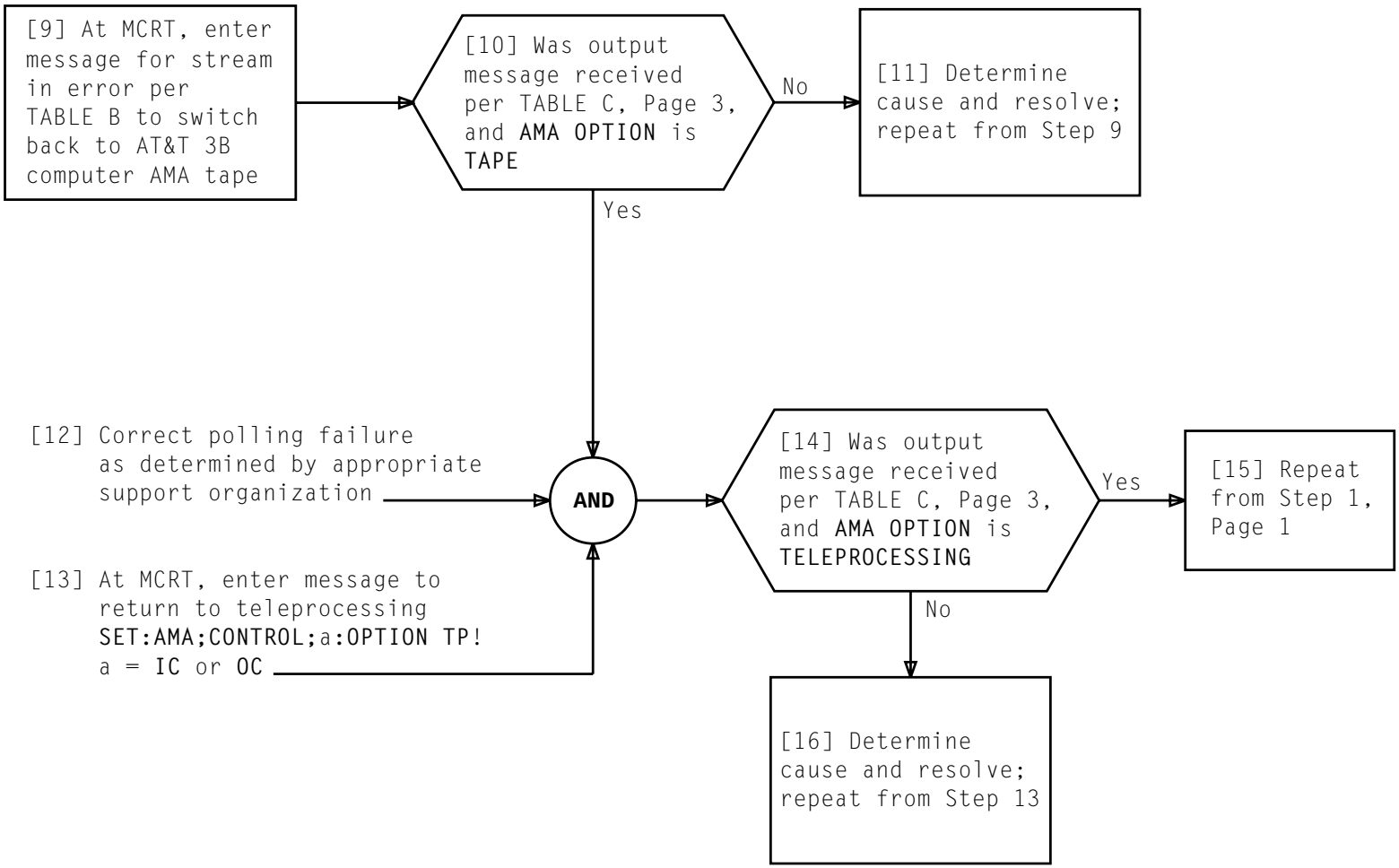


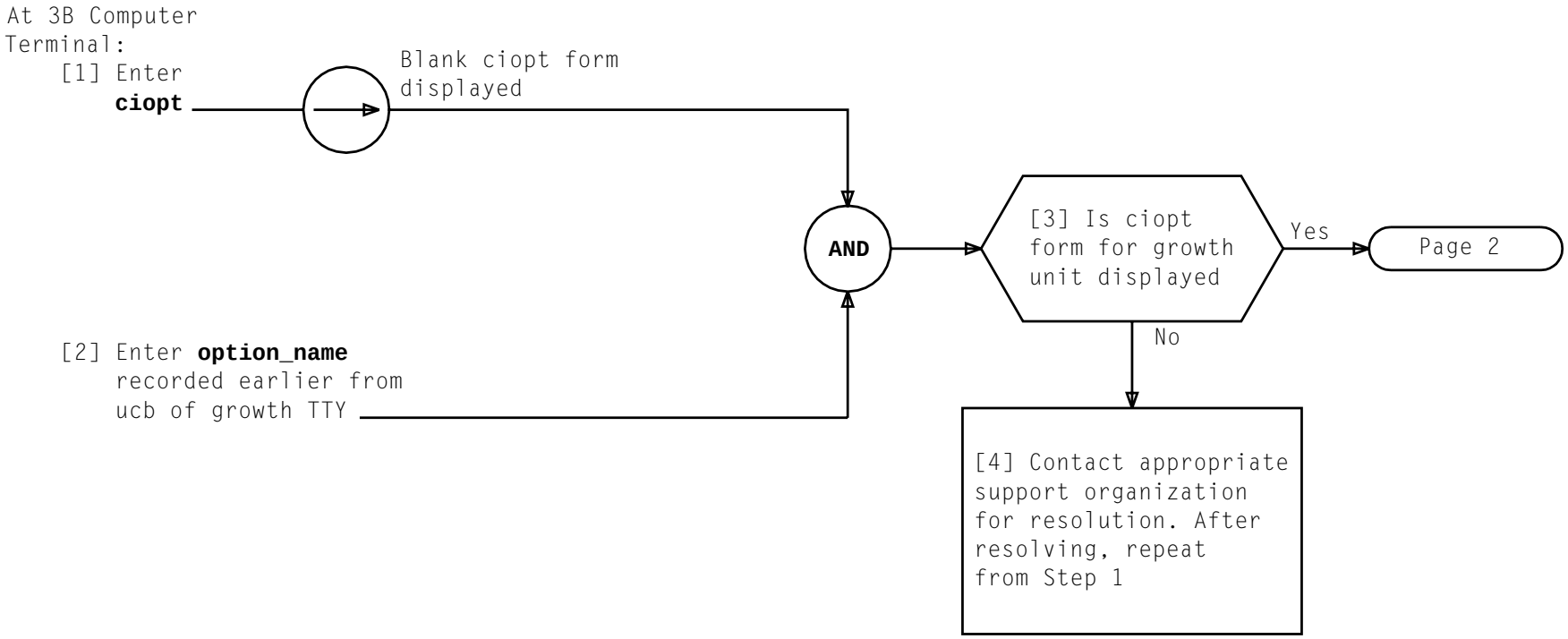
TABLE B

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;a:OPTION TAPE! a = IC or OC

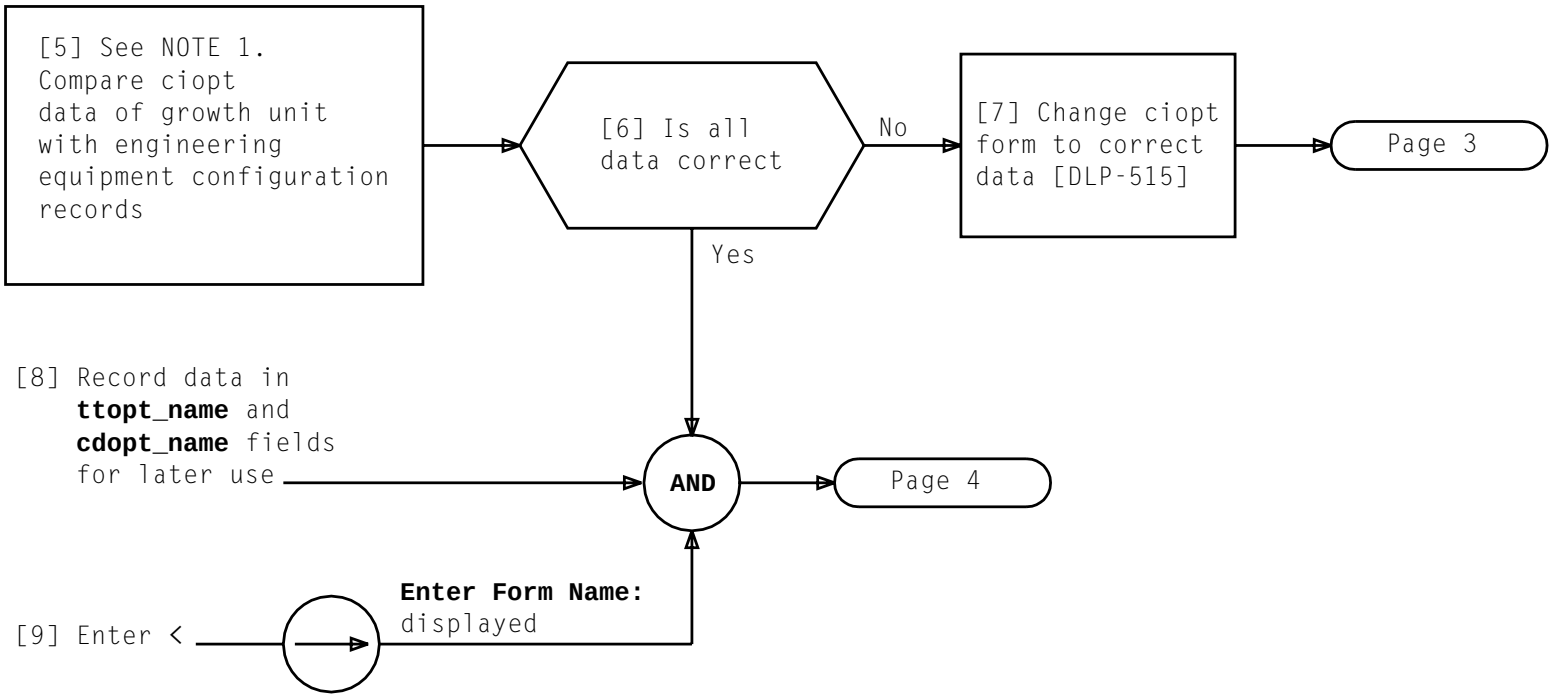
REQUEST HOC TO POLL FOR 100 TEST FILES

TABLE C	
MESSAGE NUMBER	**OUTPUT MESSAGE**
1	REPT AMA CONTROL FILE FOR a STREAM OFFICE ID b DAYS UNTIL EXPIRATION c PROCESS START TIME 00:00 PROCESS STOP TIME 00:00 DEFAULT MT FOR AUTO TAPE START x AMA OPTION IS d DATA TRANSFER IS NOT MANUALLY INHIBITED AMAT PASSWORD 0040b HOC PASSWORD e BACKUP HOC PASSWORD f PASSWORD FROM LAST SESSION x TAPE SESSION IS NOT IN PROGRESS TELEPROCESSING SESSION IS NOT IN PROGRESS AUTOMATIC TAPE WRITING g INHIBITED TAPE SEQUENCE NUMBER x TAPE DATA SET ID x a = IC or OC b = Office ID c = Number of days until tape expires d = TAPE or TELEPROCESSING e = HOC password f = Backup HOC password g = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed) x = Don't care

REQUEST HOC TO POLL FOR 100 TEST FILES



VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT



VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

NOTE 1 There is one screen of ciopt data	
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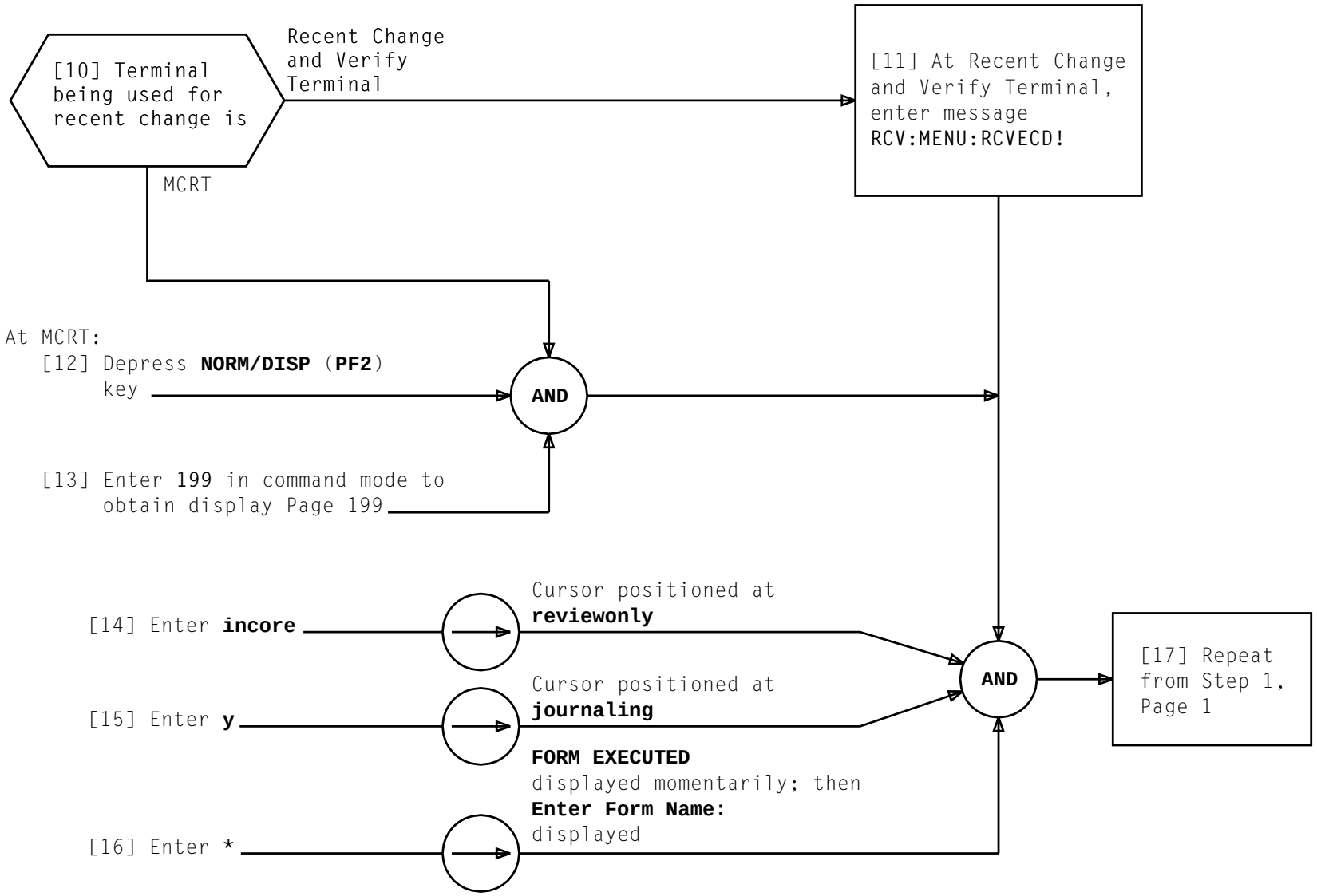
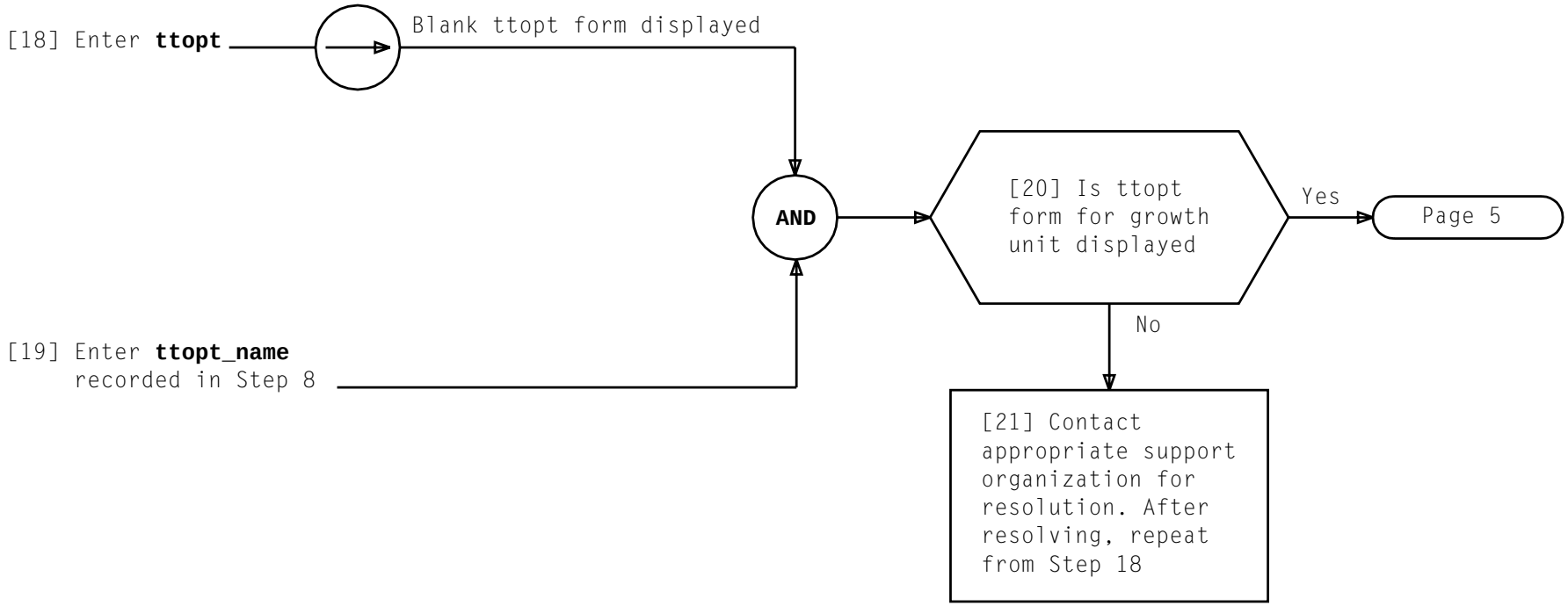
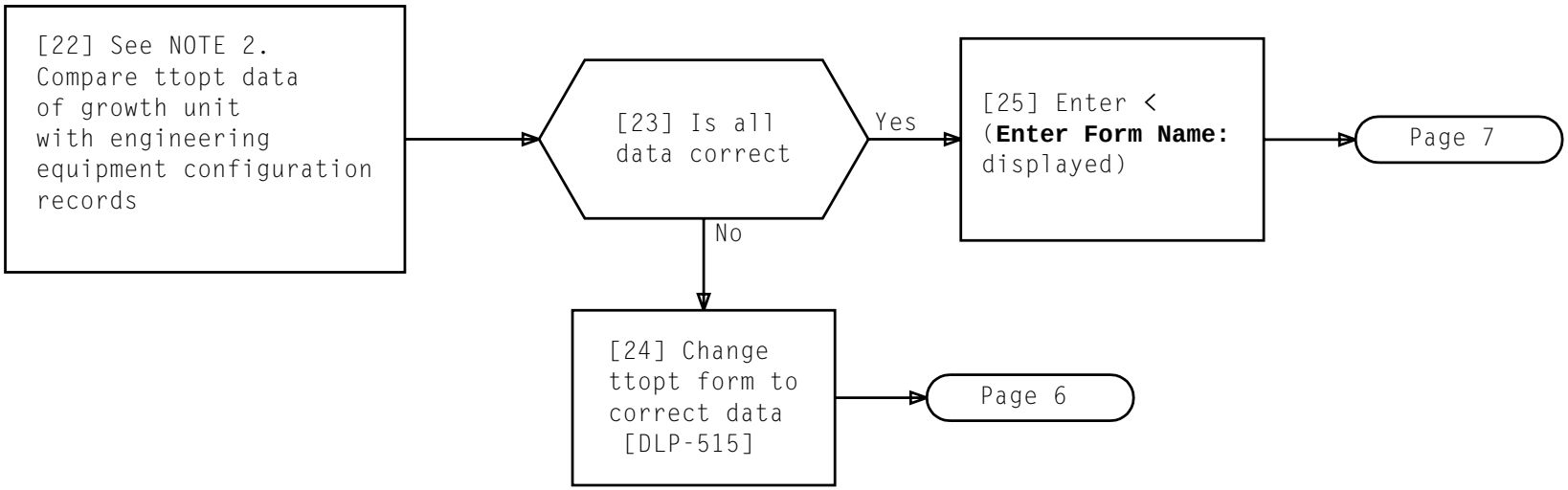


VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

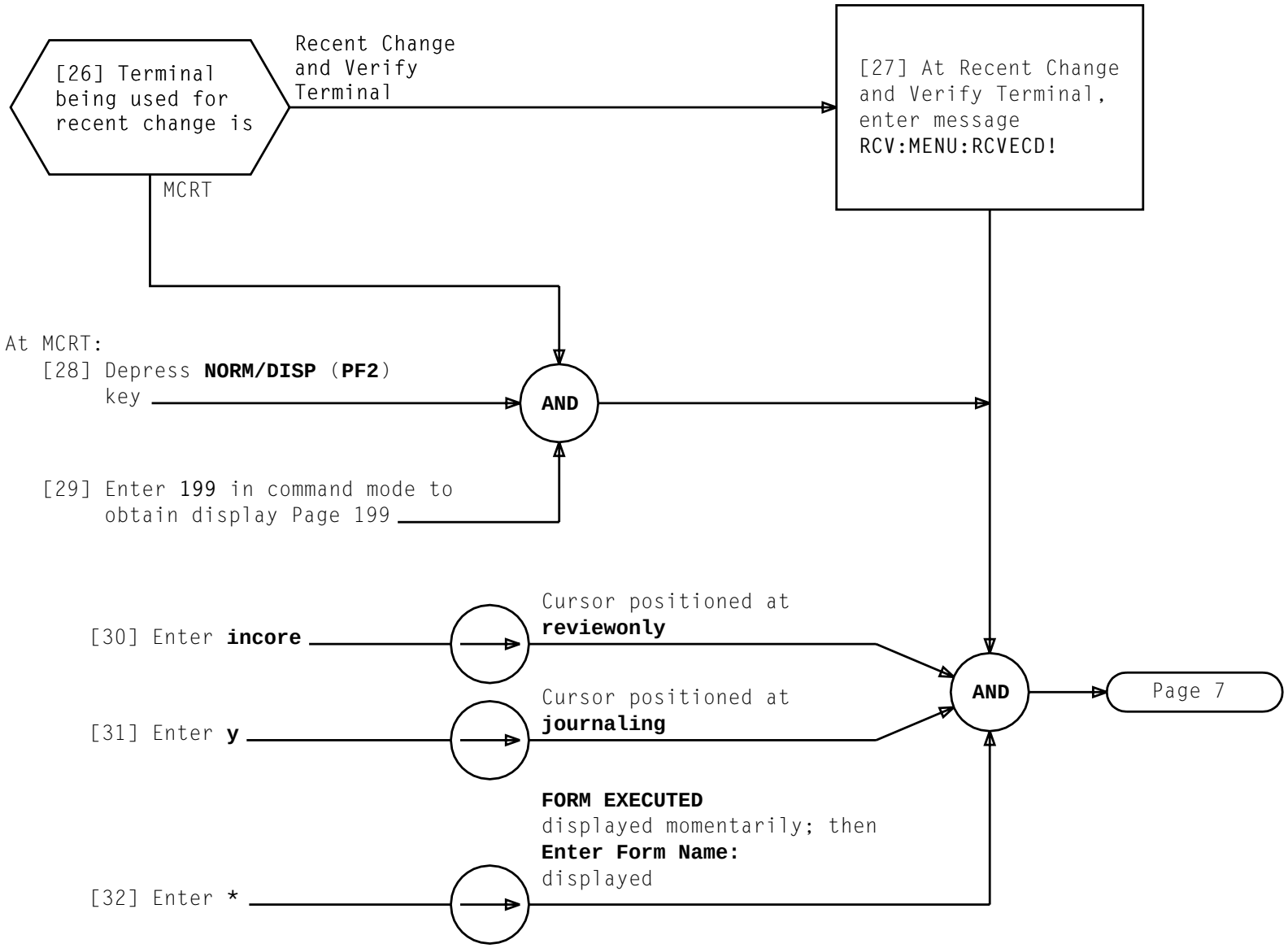


VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

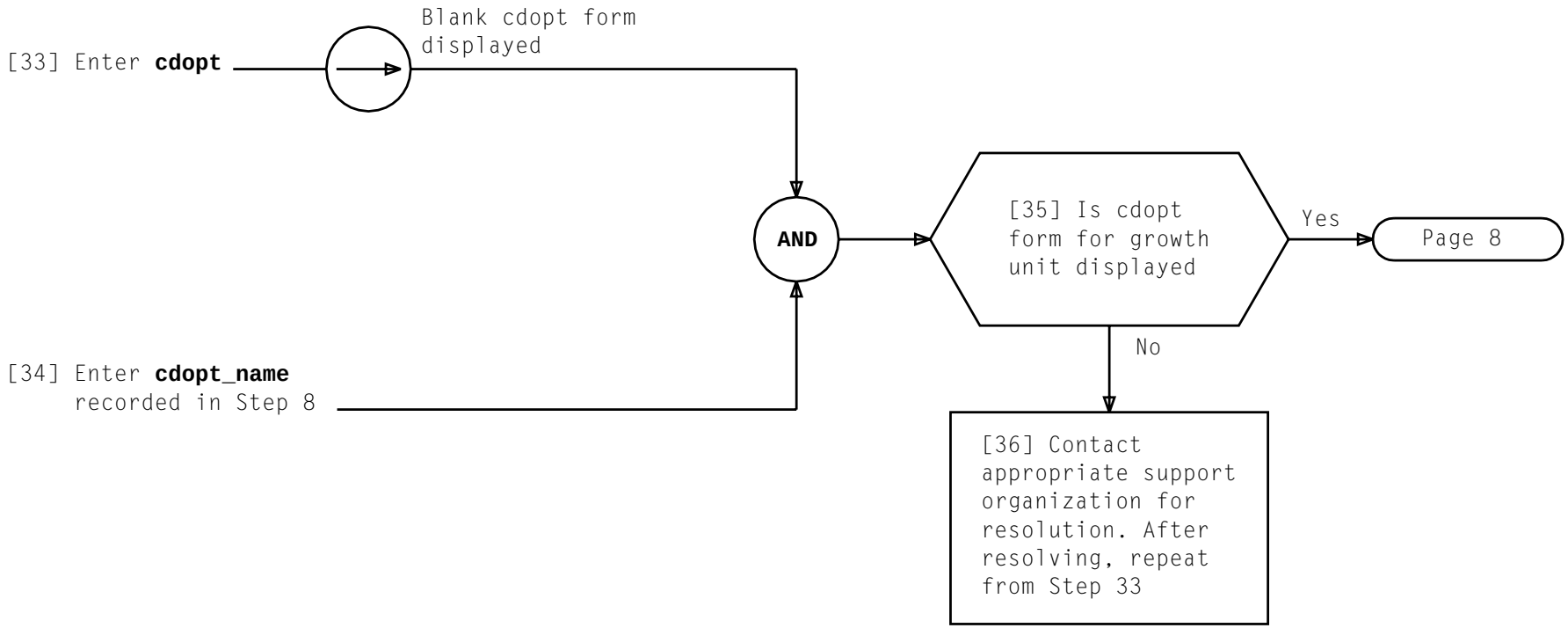


NOTE 2
There are three screens of ttopt data

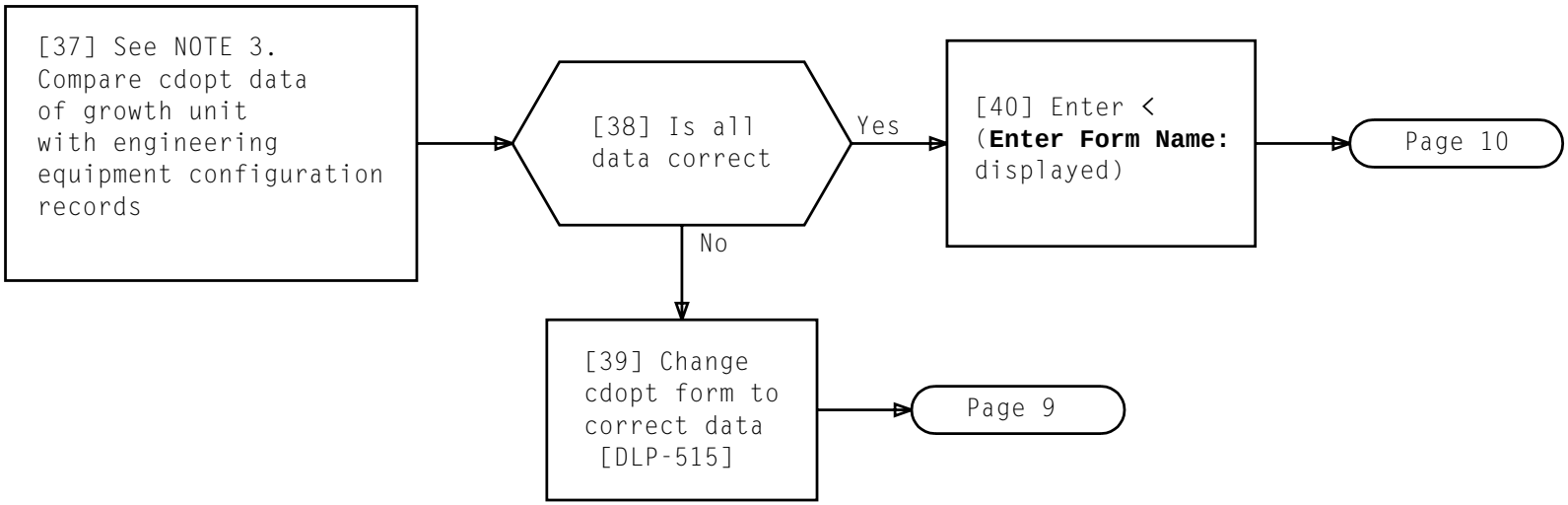
VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT



VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

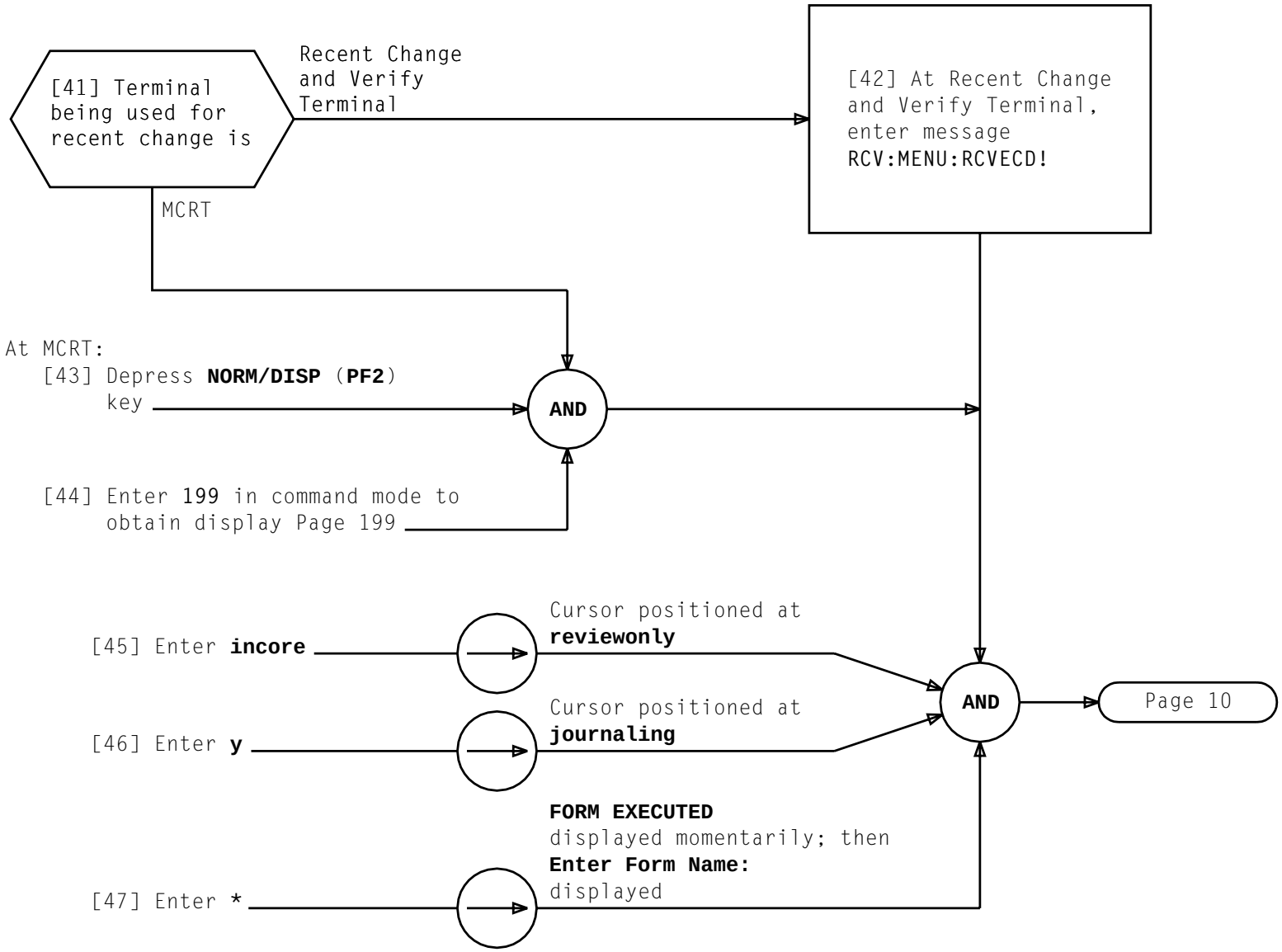


VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

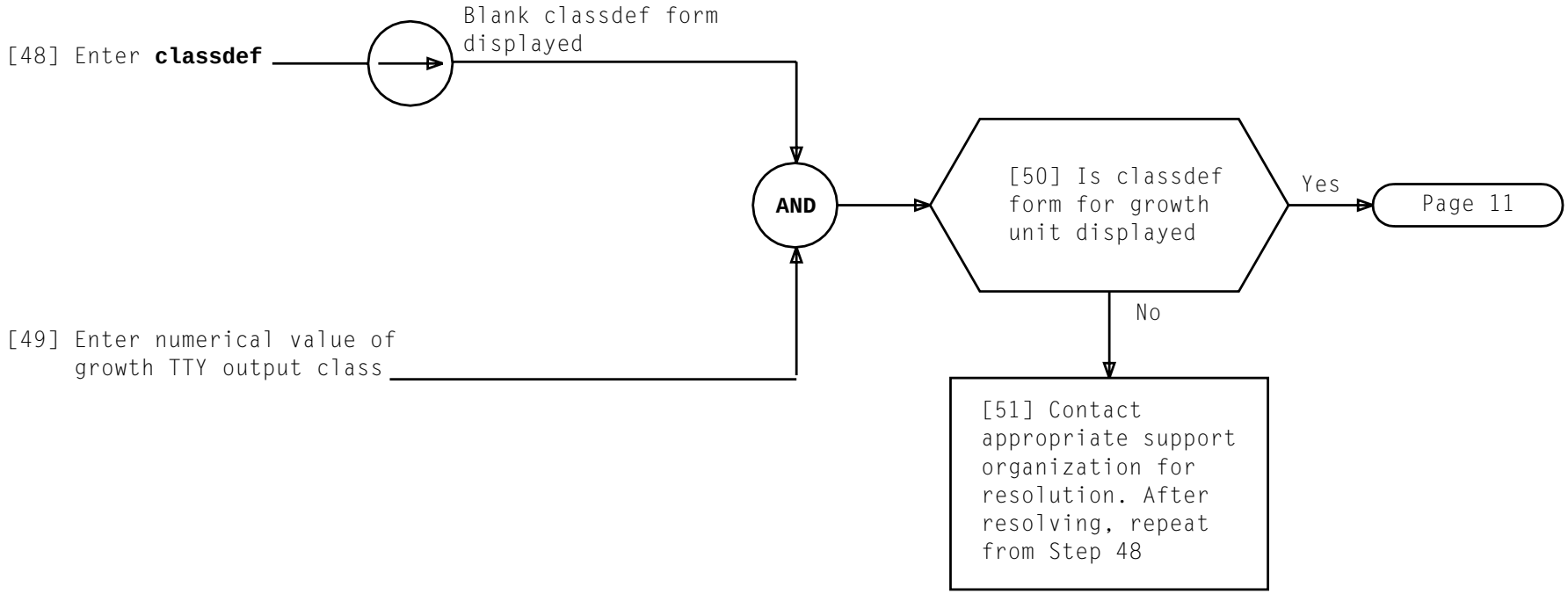


NOTE 3
There are four screens of cdopt data

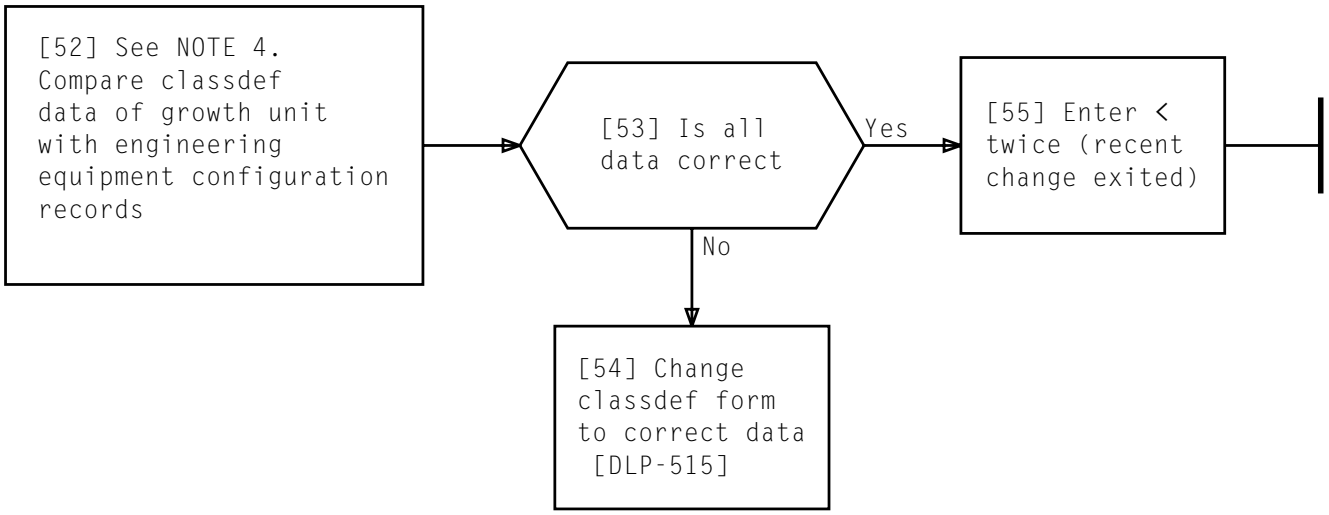
VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT



VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

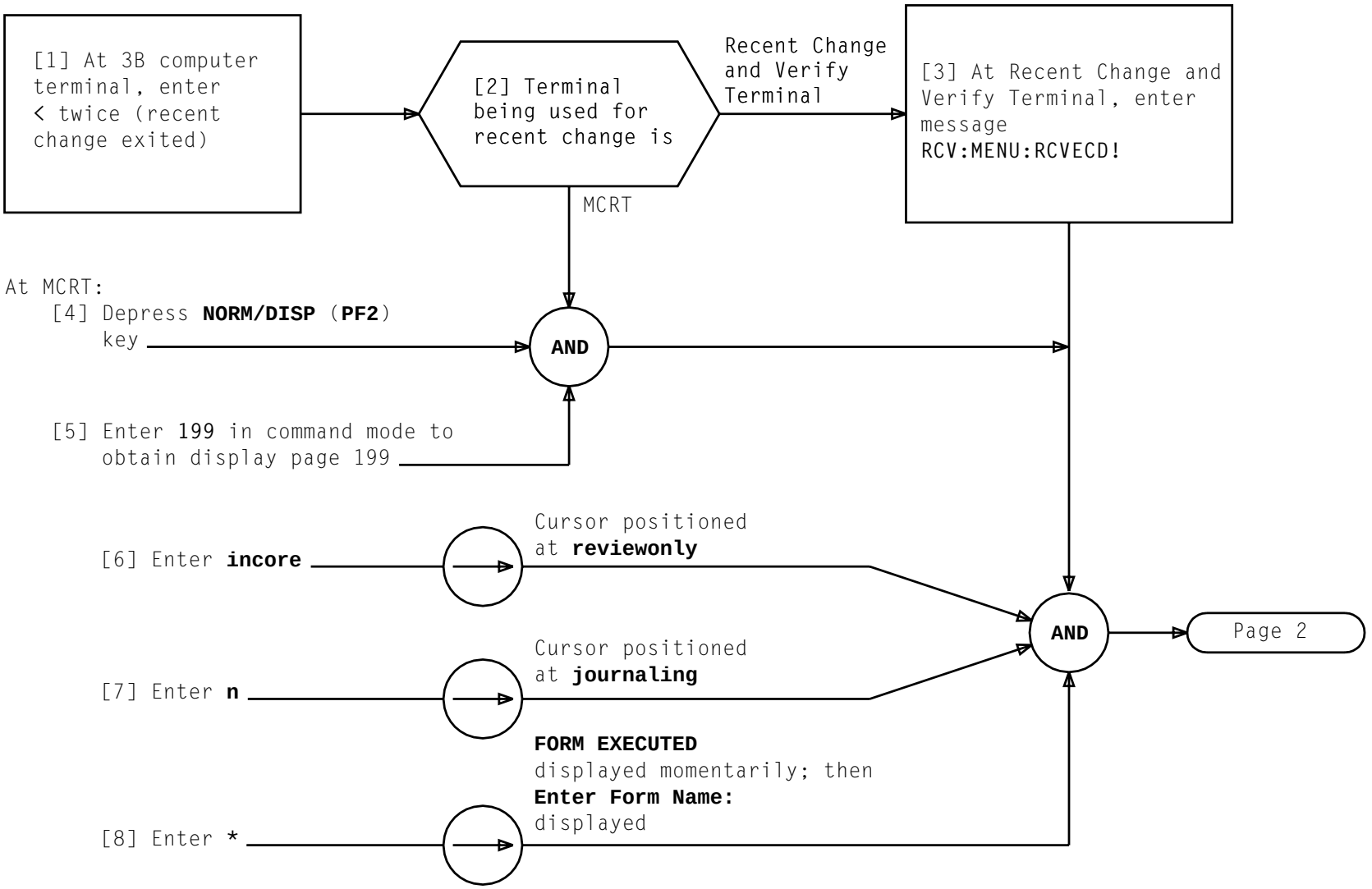


VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT

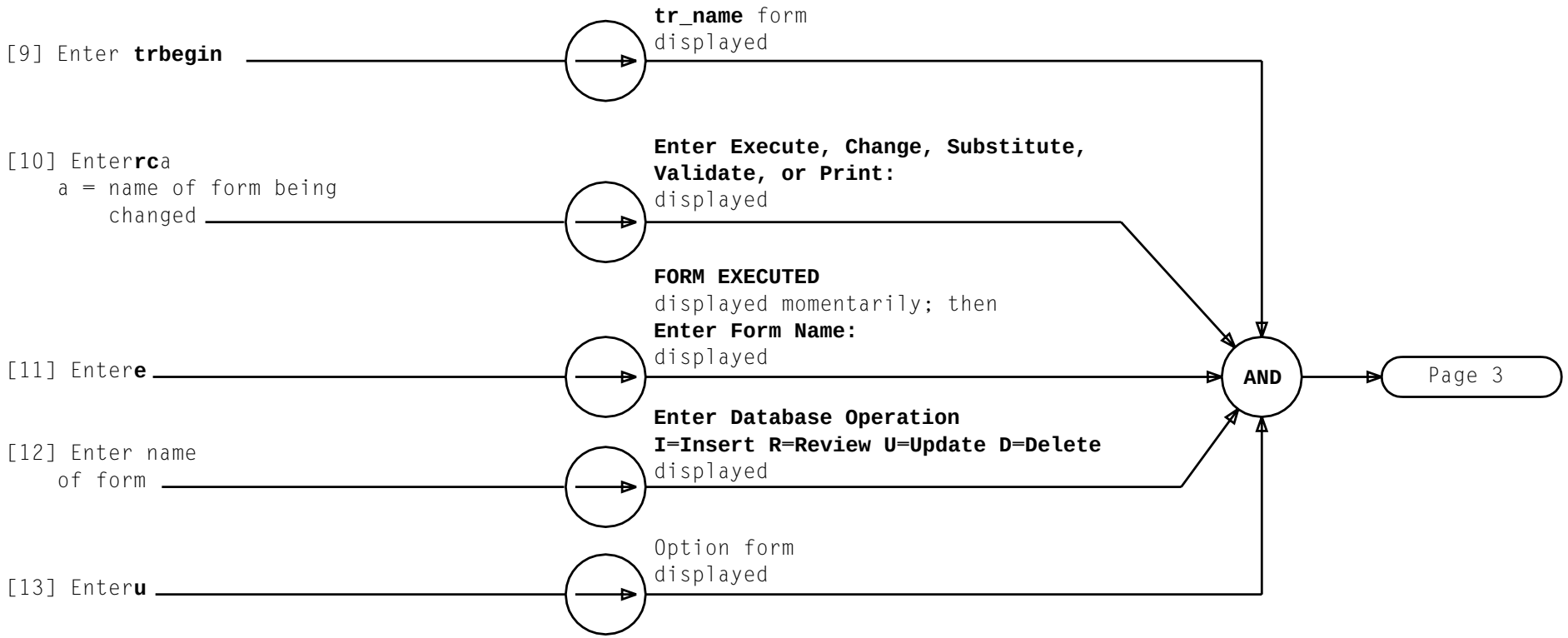


NOTE 4
There is one screen of classdef data

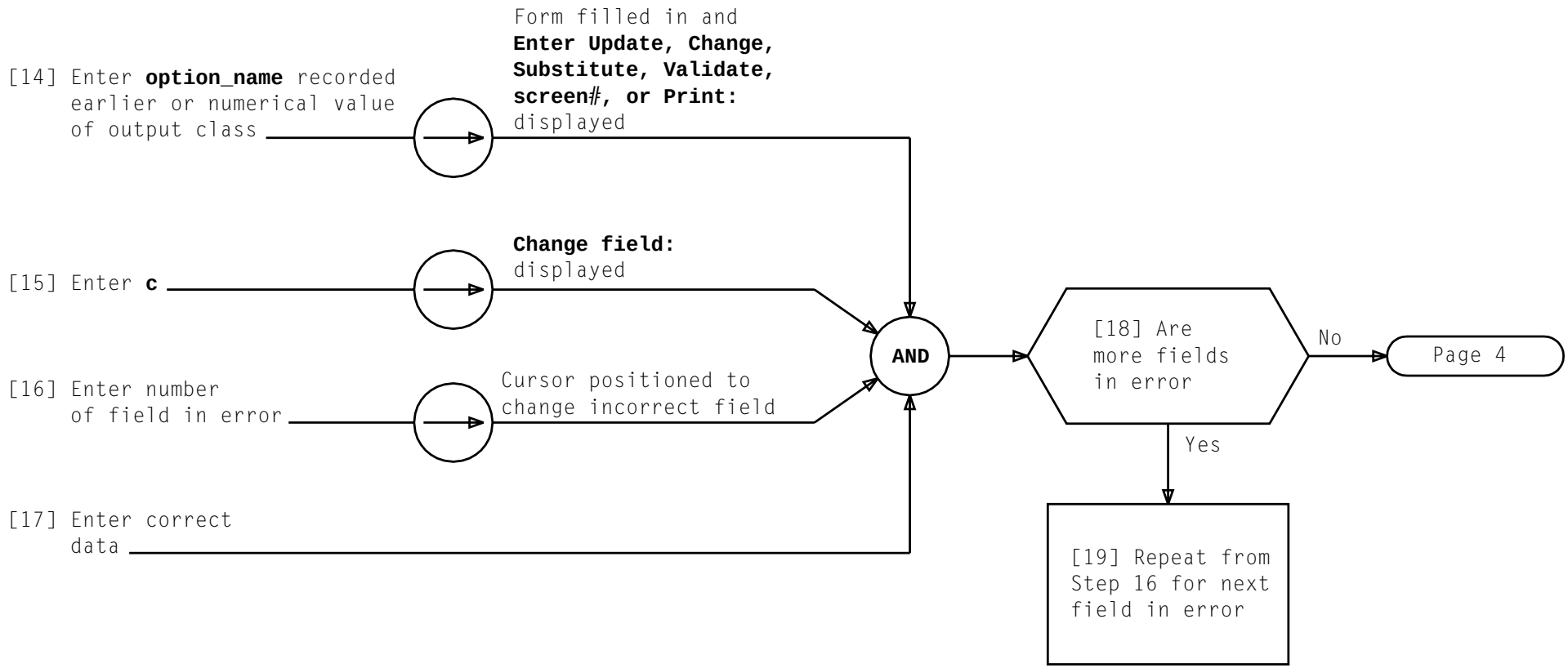
VERIFY OPTION BLOCK DATA FOR GROWTH TTY UNIT



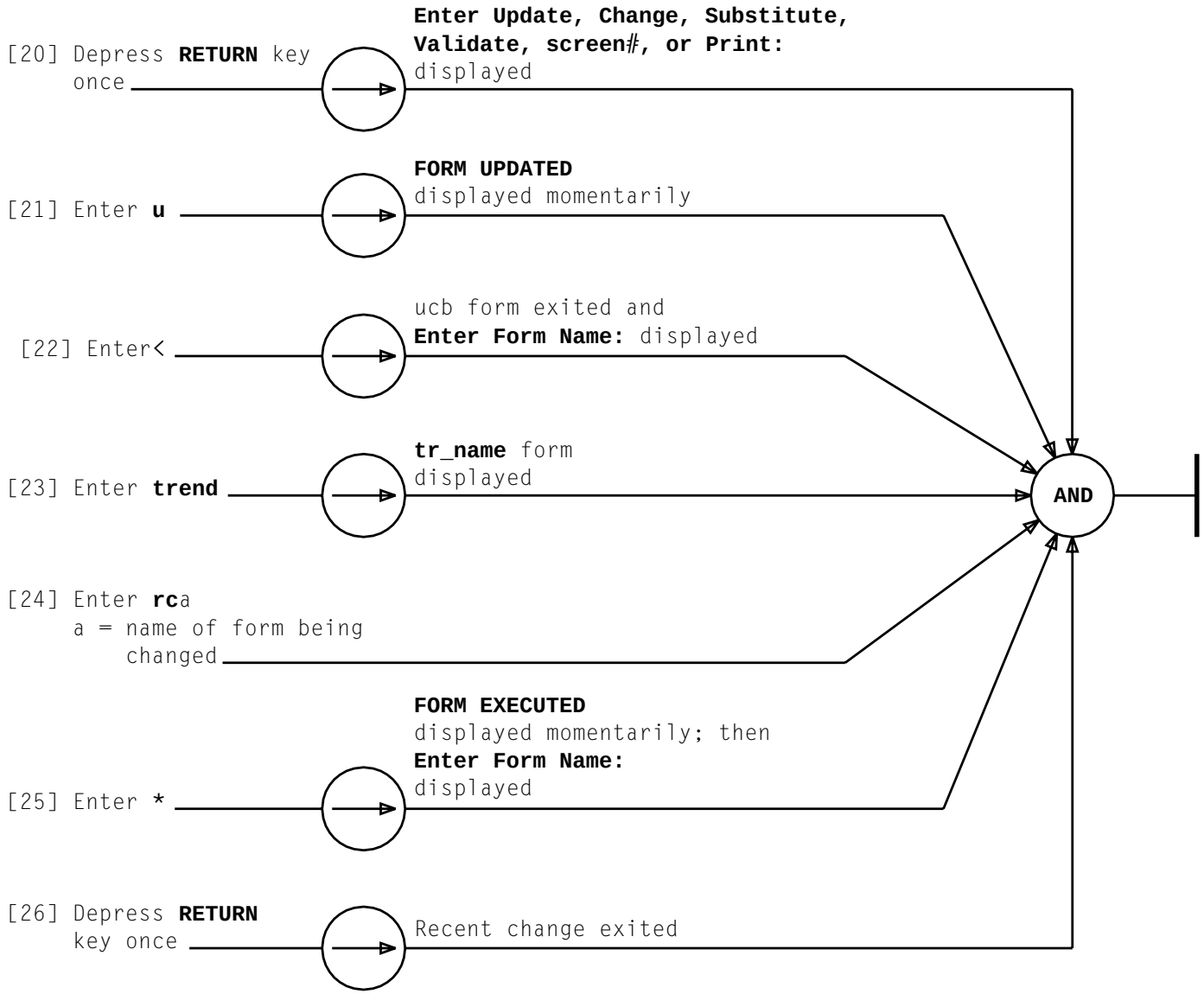
RECENT CHANGE OPTION BLOCK DATA



RECENT CHANGE OPTION BLOCK DATA



RECENT CHANGE OPTION BLOCK DATA



RECENT CHANGE OPTION BLOCK DATA

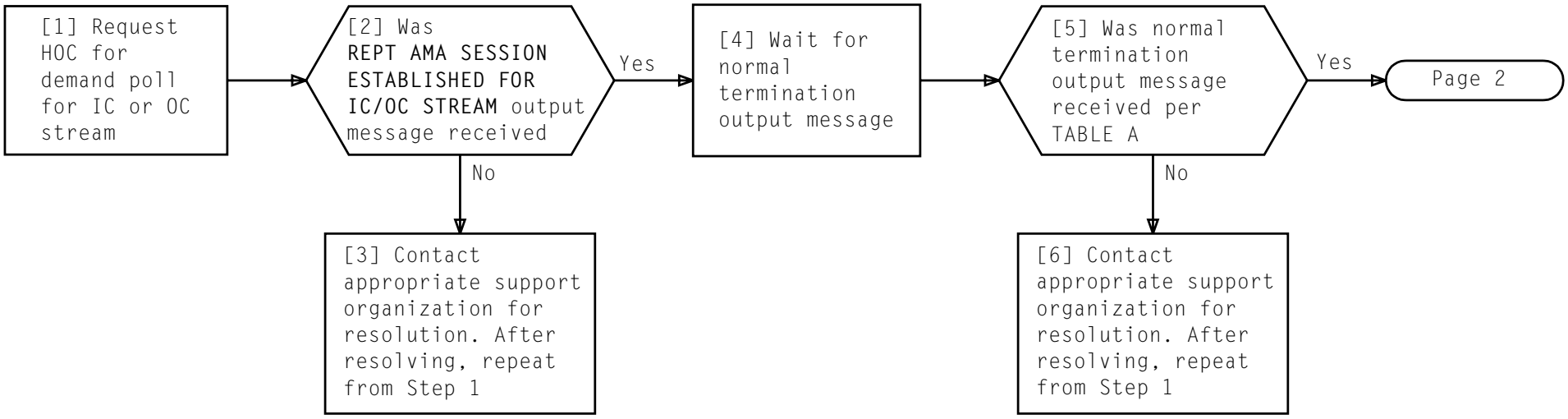
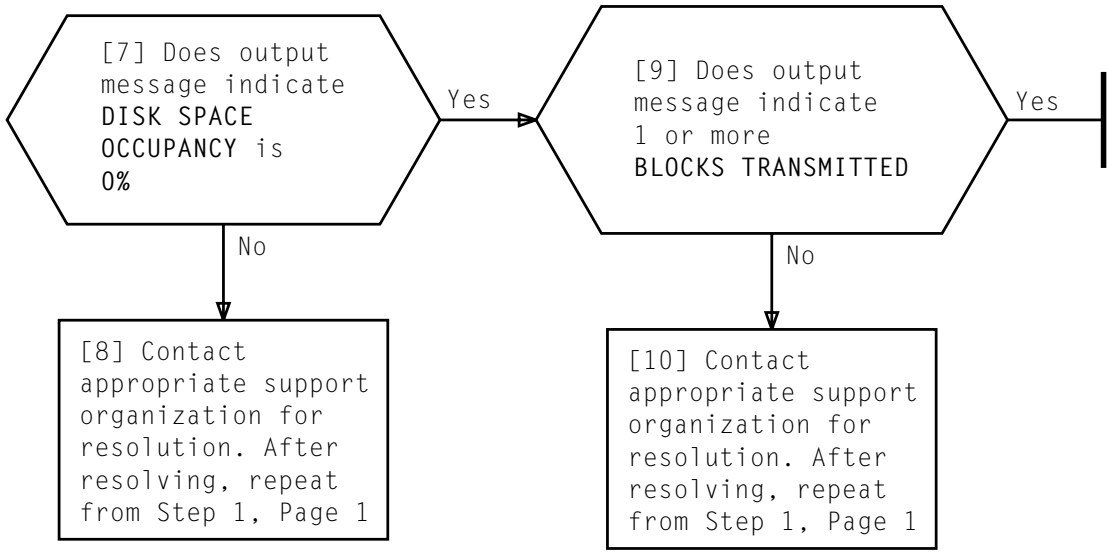


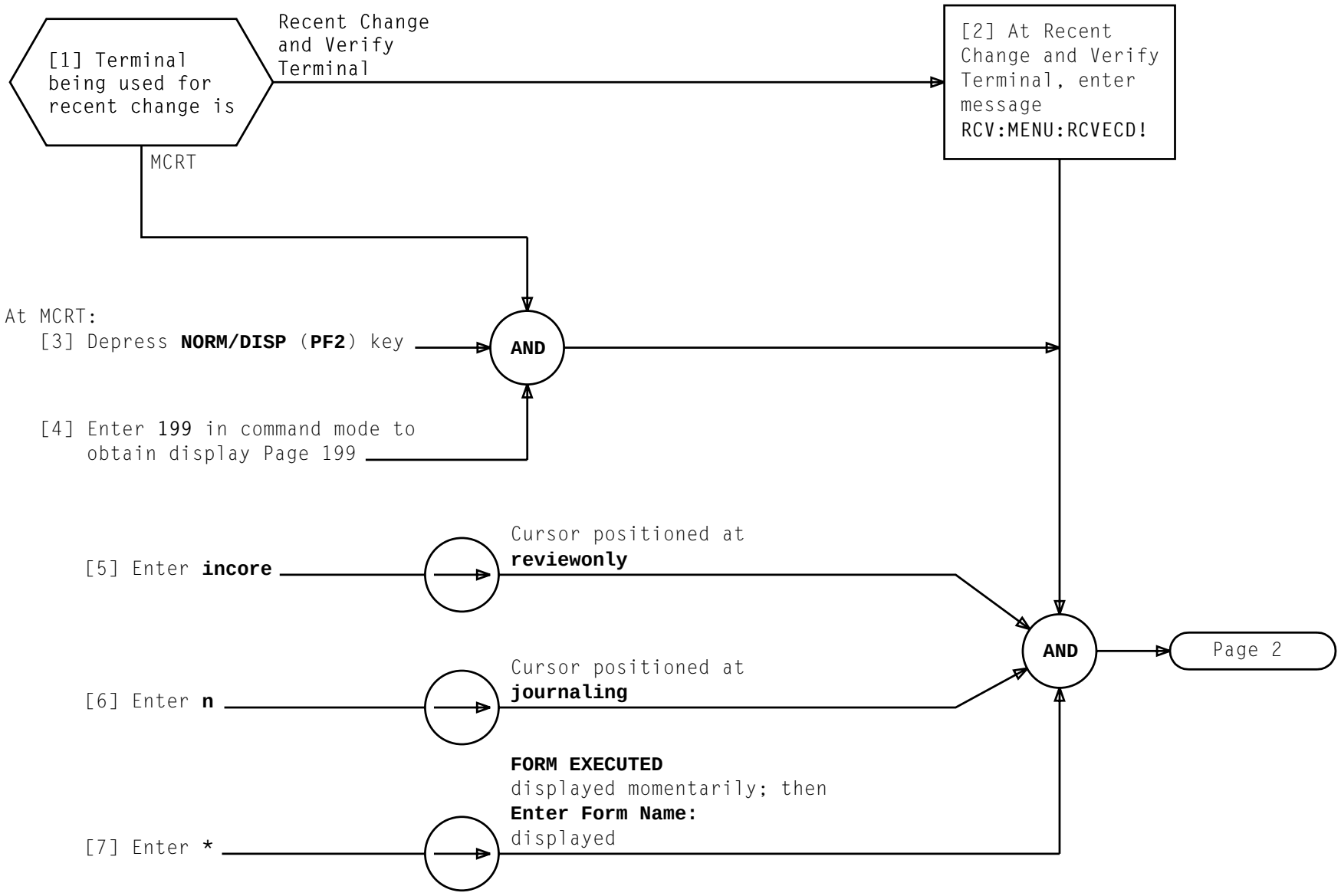
TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA SESSION TERMINATED FOR a STREAM NORMAL TERMINATION FIRST BLOCK TRANSMITTED ____ LAST BLOCK TRANSMITTED ____ BLOCKS TRANSMITTED b AMA RECORDS TRANSMITTED ____ PRIMARY POLLS REJECTED 0 SECONDARY POLLS REJECTED 0 CURRENT DISK SPACE OCCUPANCY IS 0% SESSION START TIME ___ __ __:__:__ SESSION STOP TIME ___ __ __:__:__ SESSION LENGTH __:__:__ a = IC or OC b = Number of AMA blocks transmitted

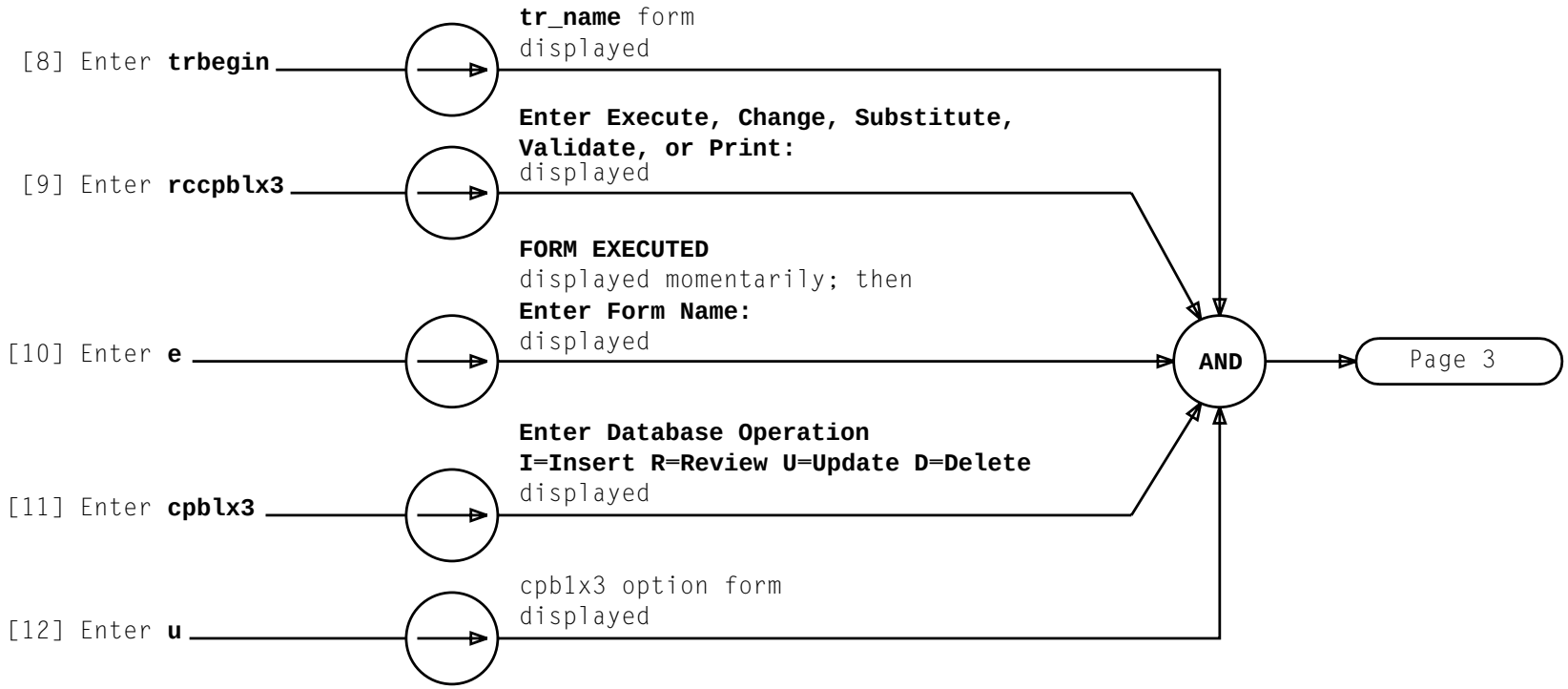
REQUEST HOC FOR DEMAND POLL



REQUEST HOC FOR DEMAND POLL



CHANGE COMMUNICATION PROTOCOL OPTION BLOCK TO 9600 BPS OPERATION


[8] Enter trbegin
tr_name form displayed
[9] Enter rccpblx3
Enter Execute, Change, Substitute, Validate, or Print:
displayed
FORM EXECUTED
displayed momentarily; then
[10] Enter e
Enter Form Name:
displayed
AND
Page 3
Enter Database Operation
I=Insert R=Review U=Update D=Delete
displayed
[11] Enter cpblx3
cpb1x3 option form displayed
[12] Enter u

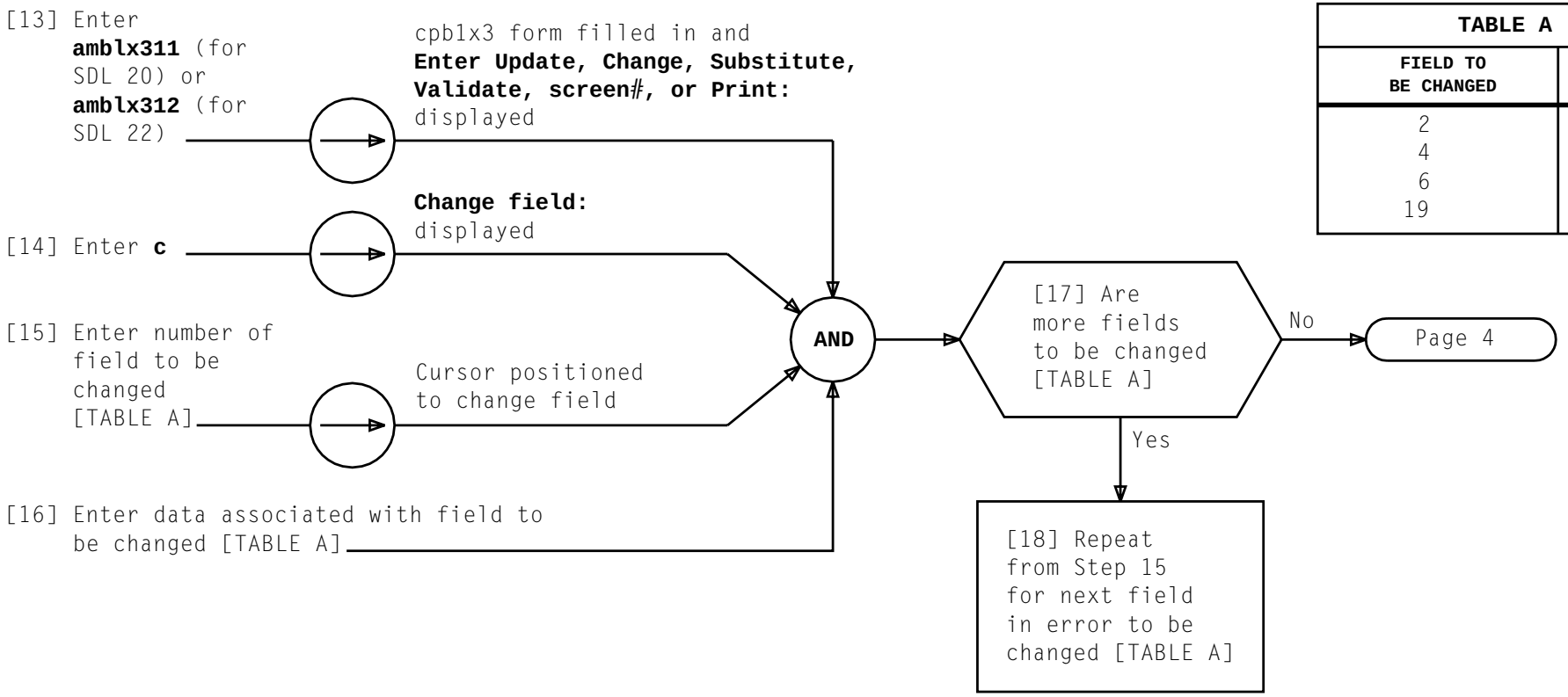
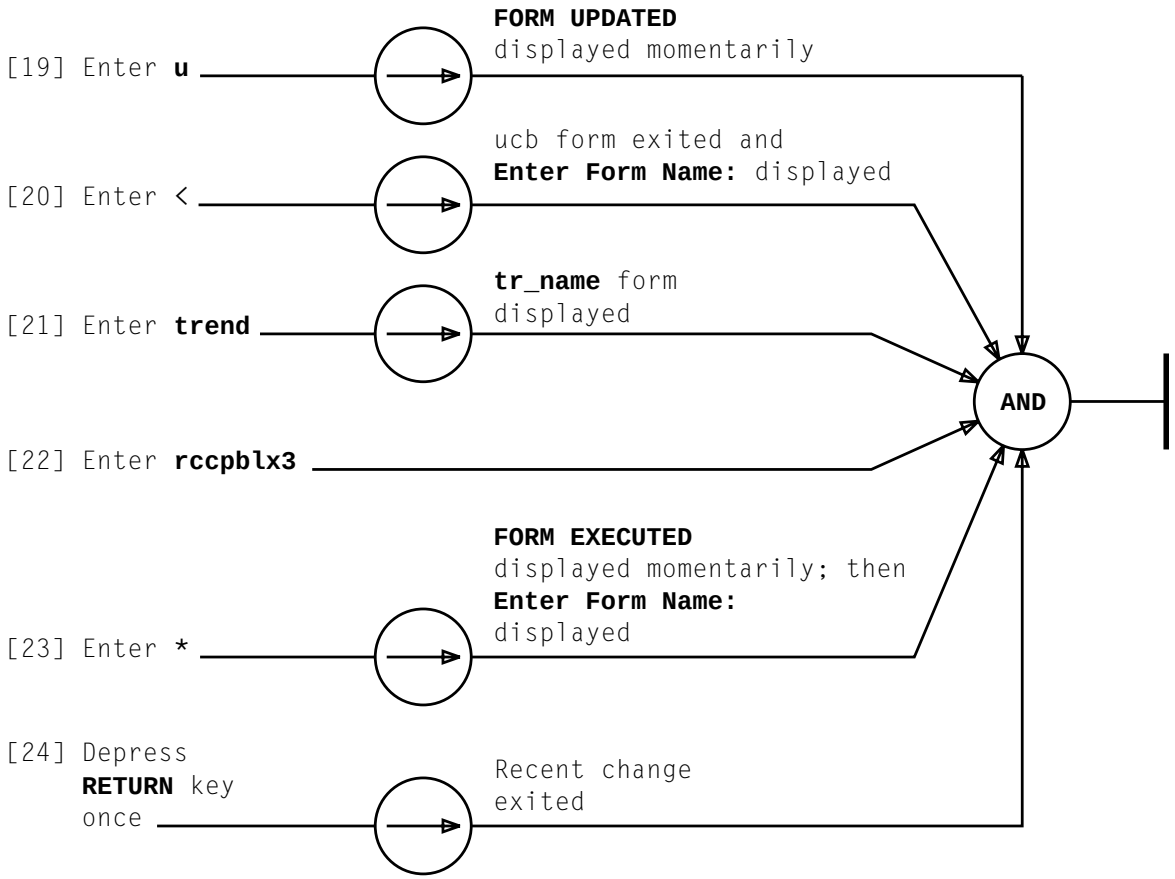


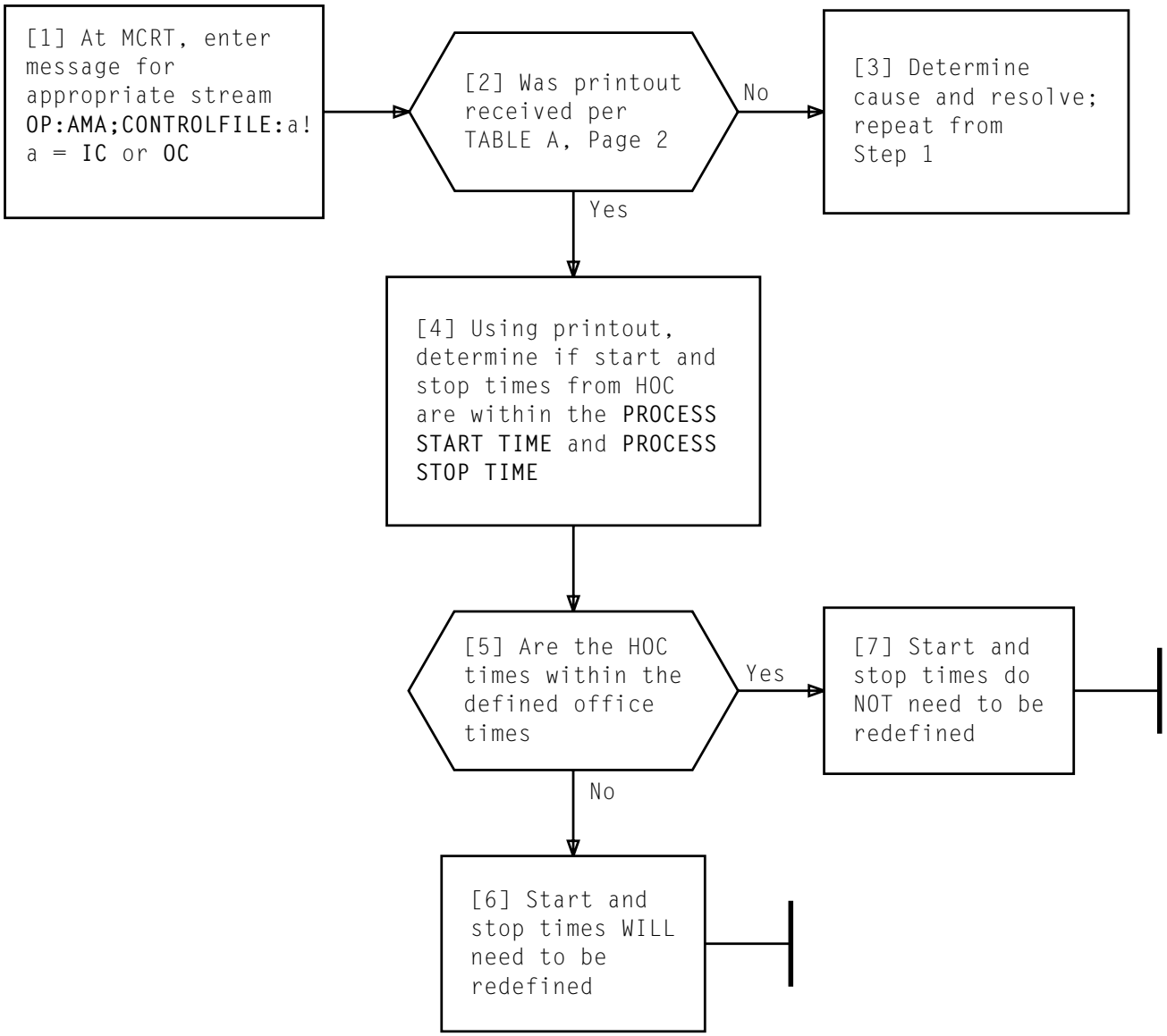
TABLE A

FIELD TO BE CHANGED	DATA TO BE ENTERED
2	9600
4	209A
6	private
19	n

CHANGE COMMUNICATION PROTOCOL OPTION BLOCK TO 9600 BPS OPERATION



CHANGE COMMUNICATION PROTOCOL OPTION BLOCK TO 9600 BPS OPERATION



DETERMINE IF OFFICE TELEPROCESSING START AND STOP TIMES NEED TO BE REDEFINED

TABLE A	
MESSAGE NUMBER	**OUTPUT MESSAGE**
1	REPT AMA CONTROL FILE FOR a STREAM OFFICE ID x DAYS UNTIL EXPIRATION x PROCESS START TIME b PROCESS STOP TIME c DEFAULT MT FOR AUTO TAPE START x AMA OPTION IS TELEPROCESSING DATA TRANSFER d MANUALLY INHIBITED AMAT PASSWORD 0040x HOC PASSWORD x BACKUP HOC PASSWORD x PASSWORD FROM LAST SESSION x TAPE SESSION IS NOT IN PROGRESS TELEPROCESSING SESSION IS NOT IN PROGRESS AUTOMATIC TAPE WRITING e INHIBITED TAPE SEQUENCE NUMBER x TAPE DATA SET ID x a = IC or OC b = Office defined teleprocessing start time c = Office defined teleprocessing stop time d = IS (if AMA session is inhibited) or IS NOT (if AMA session is allowed) e = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed) x = Don’t care

DETERMINE IF OFFICE TELEPROCESSING START AND STOP TIMES NEED TO BE REDEFINED

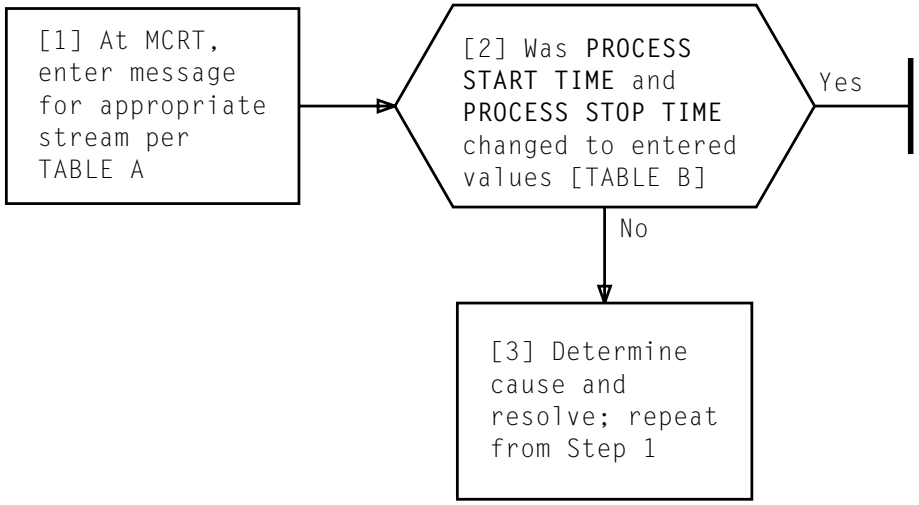


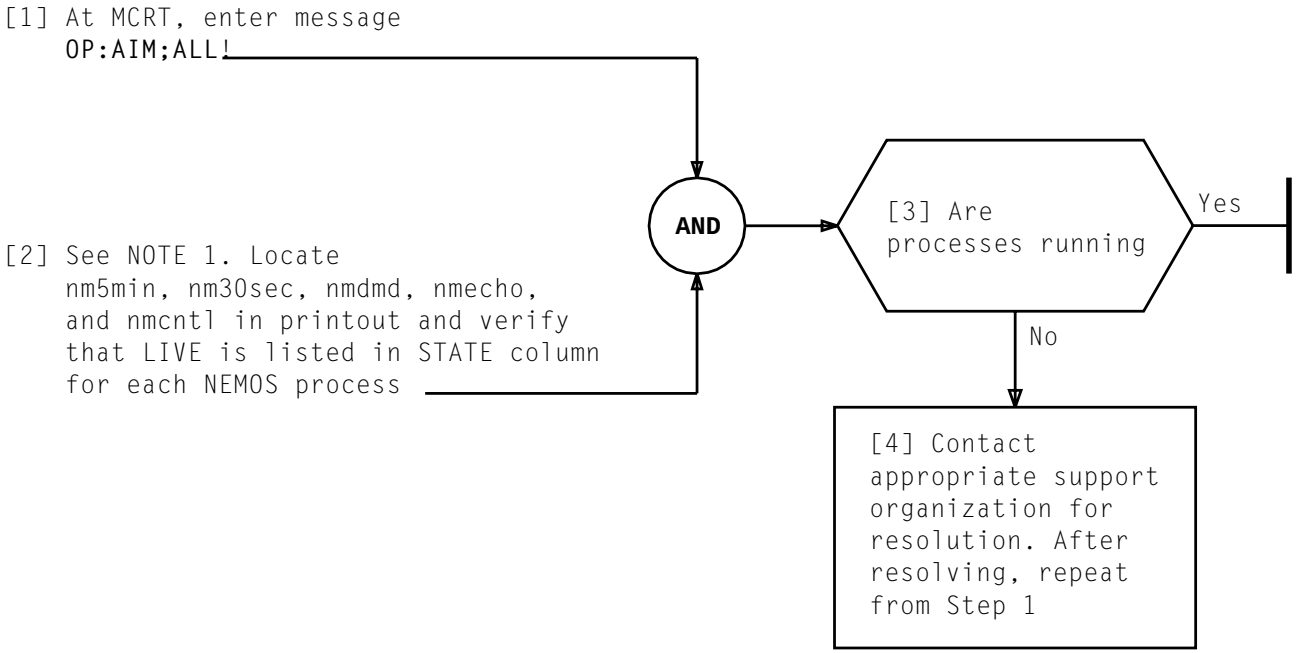
TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;a:START (b),STOP (c)! a = IC or OC b = New start time (hh,mm) c = New stop time (hh,mm)

TABLE B

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA CONTROL FILE FOR a STREAM OFFICE ID x DAYS UNTIL EXPIRATION x PROCESS START TIME b PROCESS STOP TIME c DEFAULT MT FOR AUTO TAPE START x AMA OPTION IS TELEPROCESSING DATA TRANSFER d MANUALLY INHIBITED AMAT PASSWORD 0040x HOC PASSWORD x BACKUP HOC PASSWORD x PASSWORD FROM LAST SESSION x TAPE SESSION IS NOT IN PROGRESS TELEPROCESSING SESSION IS NOT IN PROGRESS OFFICE TYPE 004 AUTOMATIC TAPE WRITING e INHIBITED TAPE SEQUENCE NUMBER x TAPE DATA SET ID x a = IC or OC b = Teleprocessing start time c = Teleprocessing stop time d = IS (if AMA session is inhibited) or IS NOT (if AMA session is allowed) e = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed) x = Don't care

REDEFINE OFFICE TELEPROCESSING START AND STOP TIMES



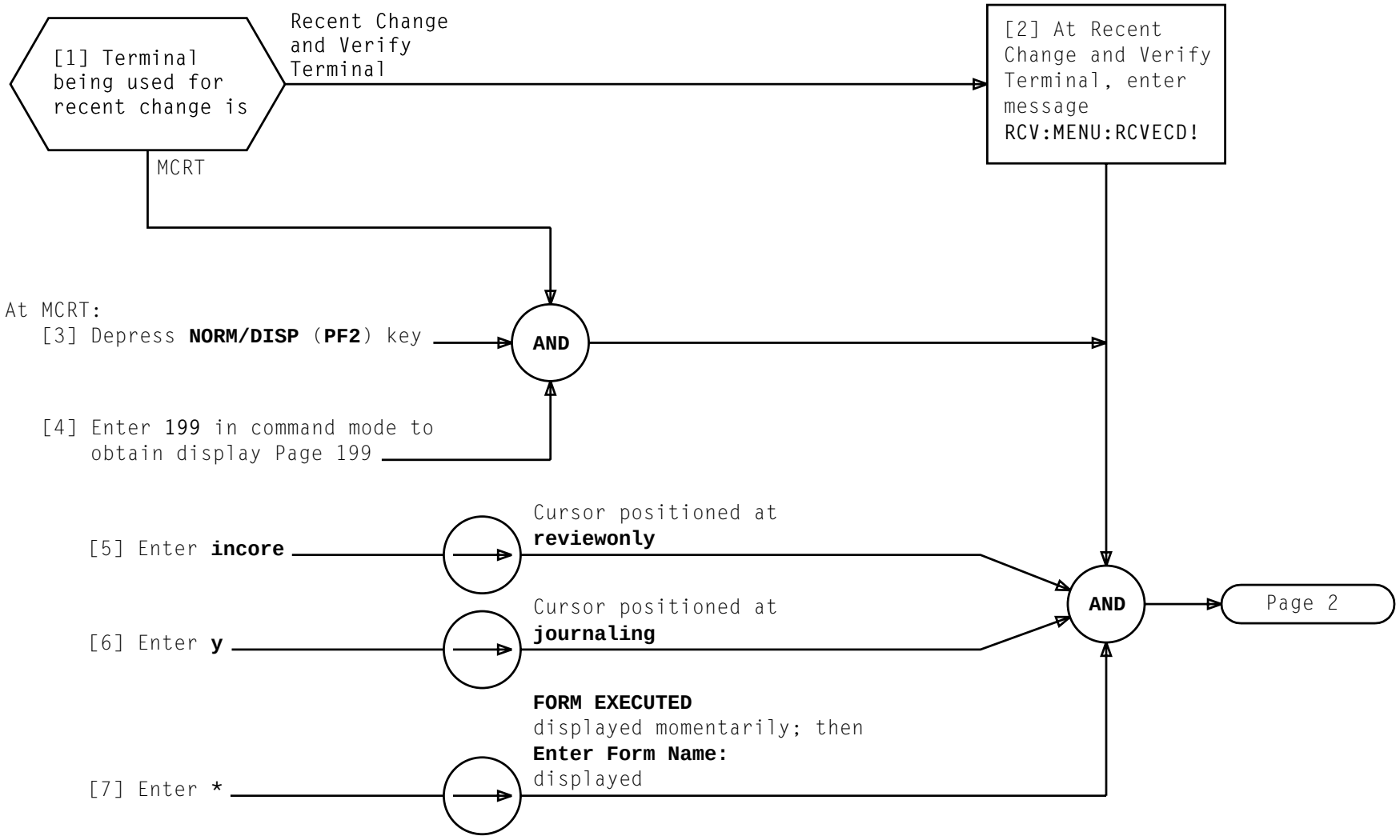
PROCESSES

ID	NAME	INCAR	STATE	FSTAT	PROCESSID	UTILID	RST	LAST CREAT
X'51	aimstub	000	LIVE	0 ON	000000032	X'714	YES	0620656693
X'52	apdrv	000	LIVE	0 ON	000000028	X'500	YES	0620656677
X'73	ovldcnt	000	LIVE	0 ON	000000079	X'63a	YES	0620656923
X'74	rtkern	000	LIVE	0 ON	000196684	X'6f1	YES	0620656920
X'75	recovda	000	LIVE	0 ON	000065573	X'6a8	YES	0620656729
X'76	nscosm	000	LIVE	5 ON	000000099	X'650	YES	0620657015
X'77	lnkmon	000	LIVE	5 ON	000065617	X'651	YES	0620657011
X'78	hustat	000	LIVE	0 ON	000065620	X'632	YES	0620657010
X'79	indir	000	LIVE	0 ON	000000097	X'604	YES	0620657005
X'7a	nm5min	000	LIVE	3 ON	000065626	X'649	YES	0620657028
X'7b	nm30sec	000	LIVE	3 ON	000000102	X'645	YES	0620657025
X'7c	nmdmd	000	LIVE	3 ON	000000100	X'647	YES	0620657020
X'7d	nmecho	000	LIVE	3 ON	000000098	X'65e	YES	0620657014
X'7e	rmcntl	000	LIVE	3 ON	000000096	X'646	YES	0620657007
X'7f	iras	000	LIVE	0 ON	000000095	X'65b	YES	0620657002
X'80	apsmeas	000	LIVE	0 ON	000000094	X'602	YES	0620657001
X'81	aplupd	000	LIVE	0 ON	000000093	X'50e	YES	0620657014
X'82	apsdup	000	LIVE	0 ON	000000092	X'50a	YES	0620657019

FIG. 1 — Sample of Partial REPT AIMCHK STATUS Printout

NOTE
Process is not running if DEAD is listed in STATE column

VERIFY NEMOS PROCESSES ARE STARTED UP



VERIFY UNIT CONTROL BLOCK (UCB) DATA FOR GROWTH MHD PAIR

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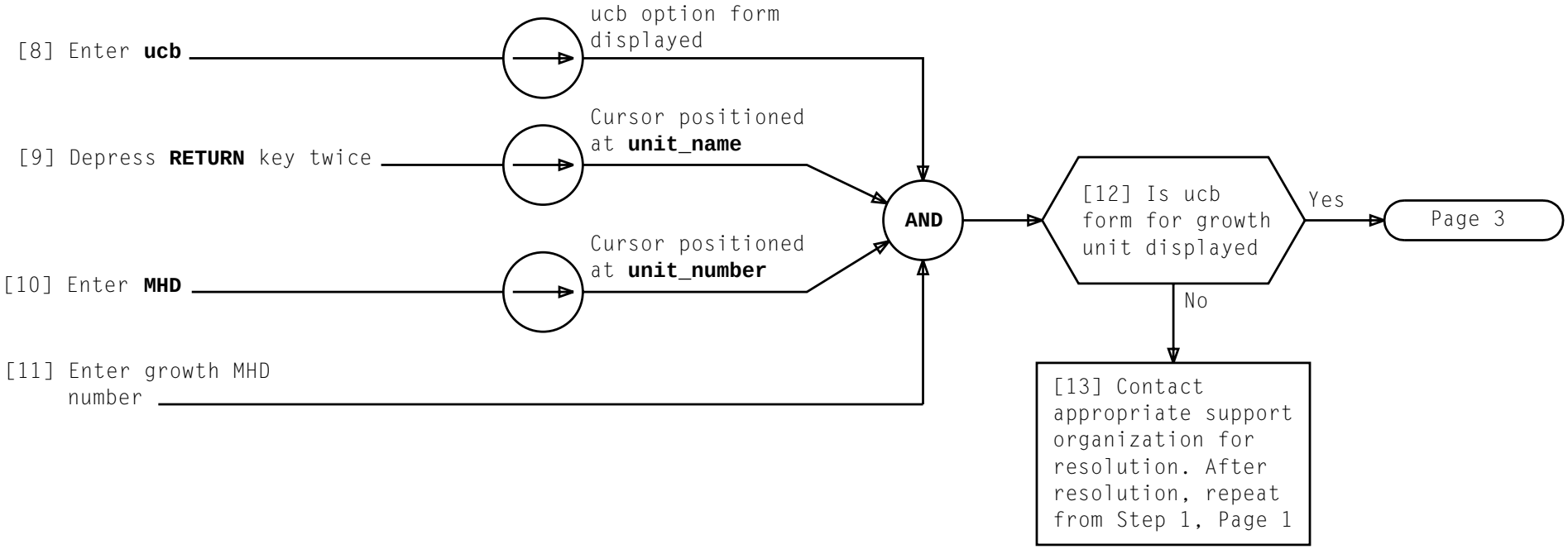
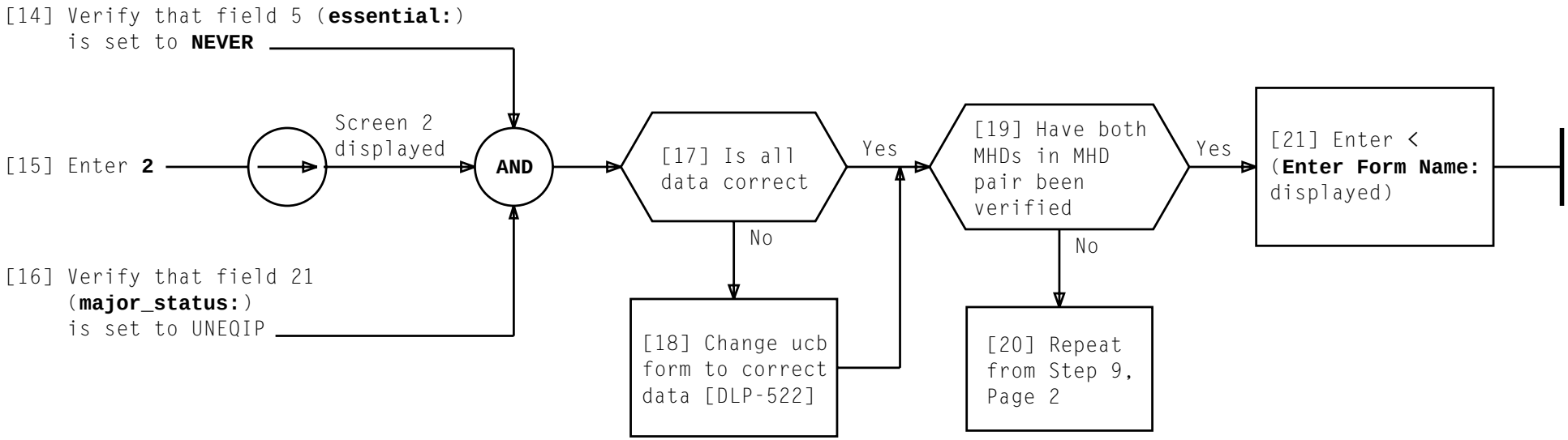
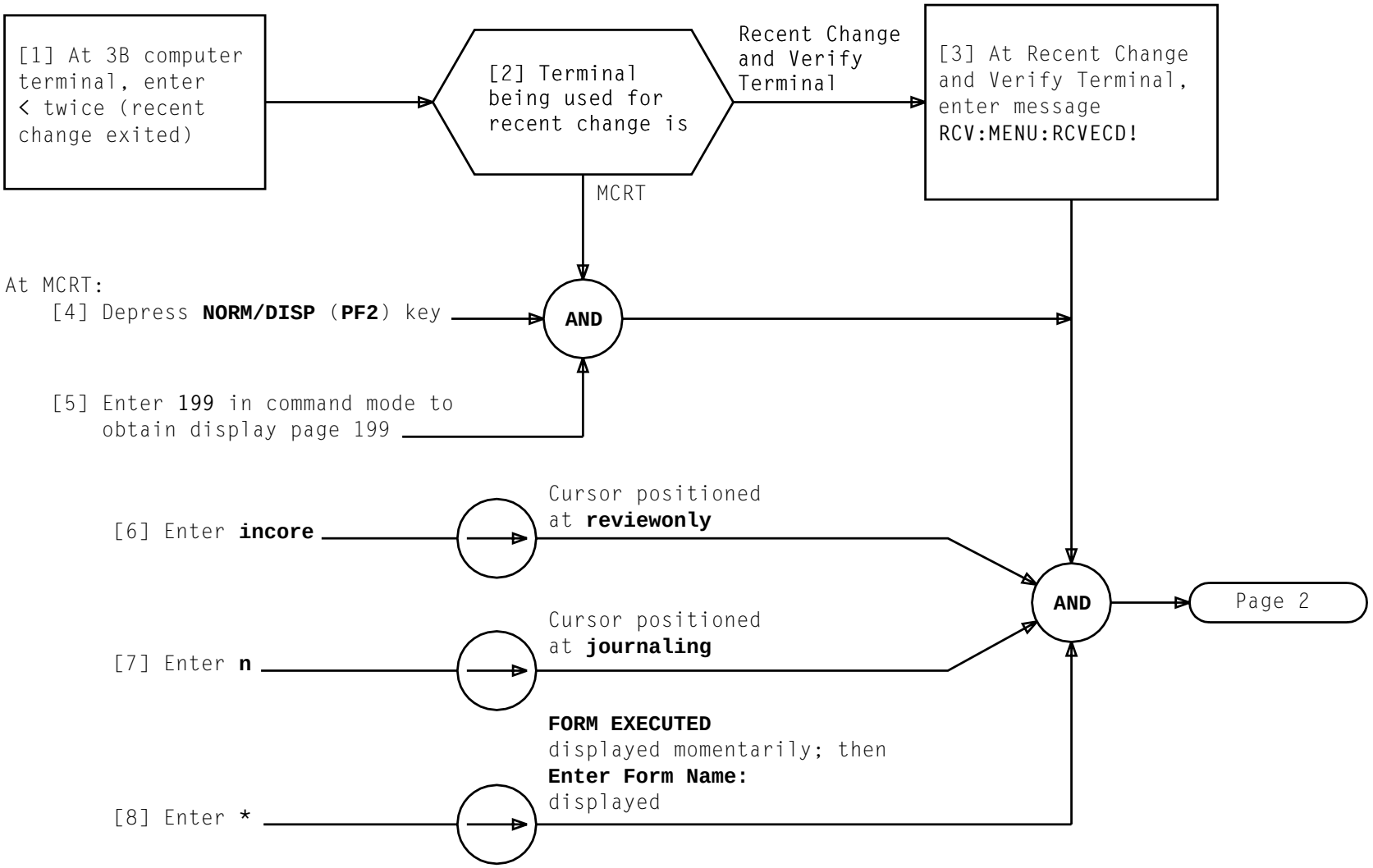


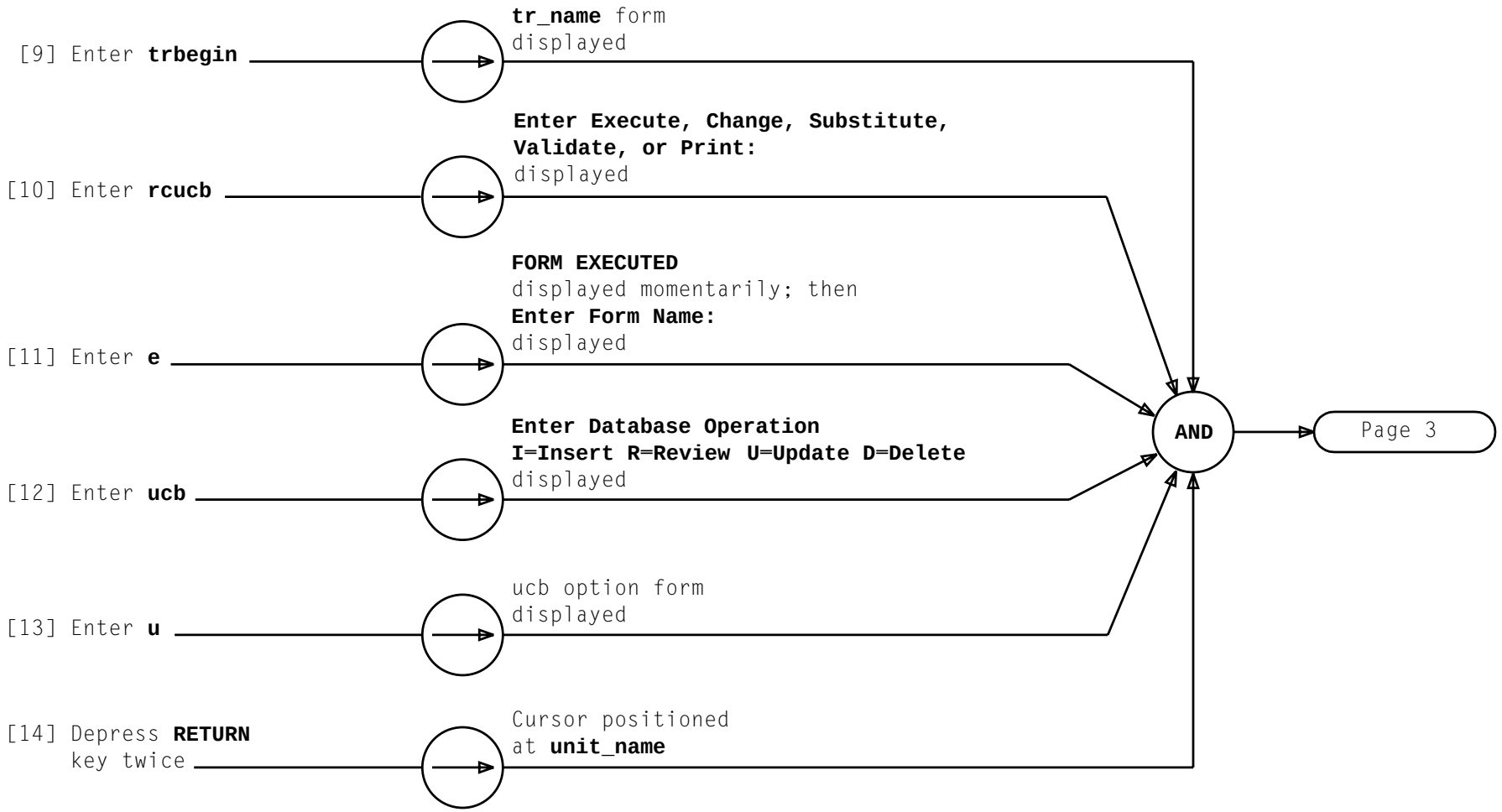
VERIFY UNIT CONTROL BLOCK (UCB) DATA FOR GROWTH MHD PAIR



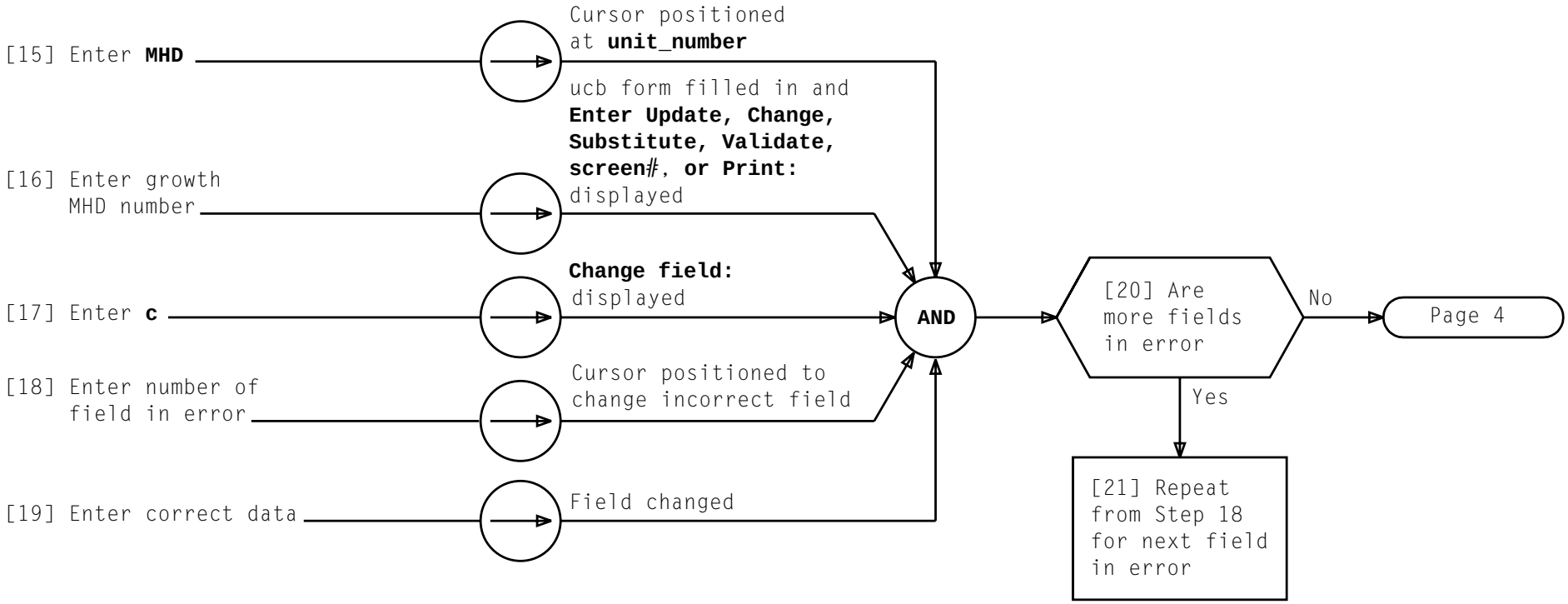
VERIFY UNIT CONTROL BLOCK (UCB) DATA FOR GROWTH MHD PAIR



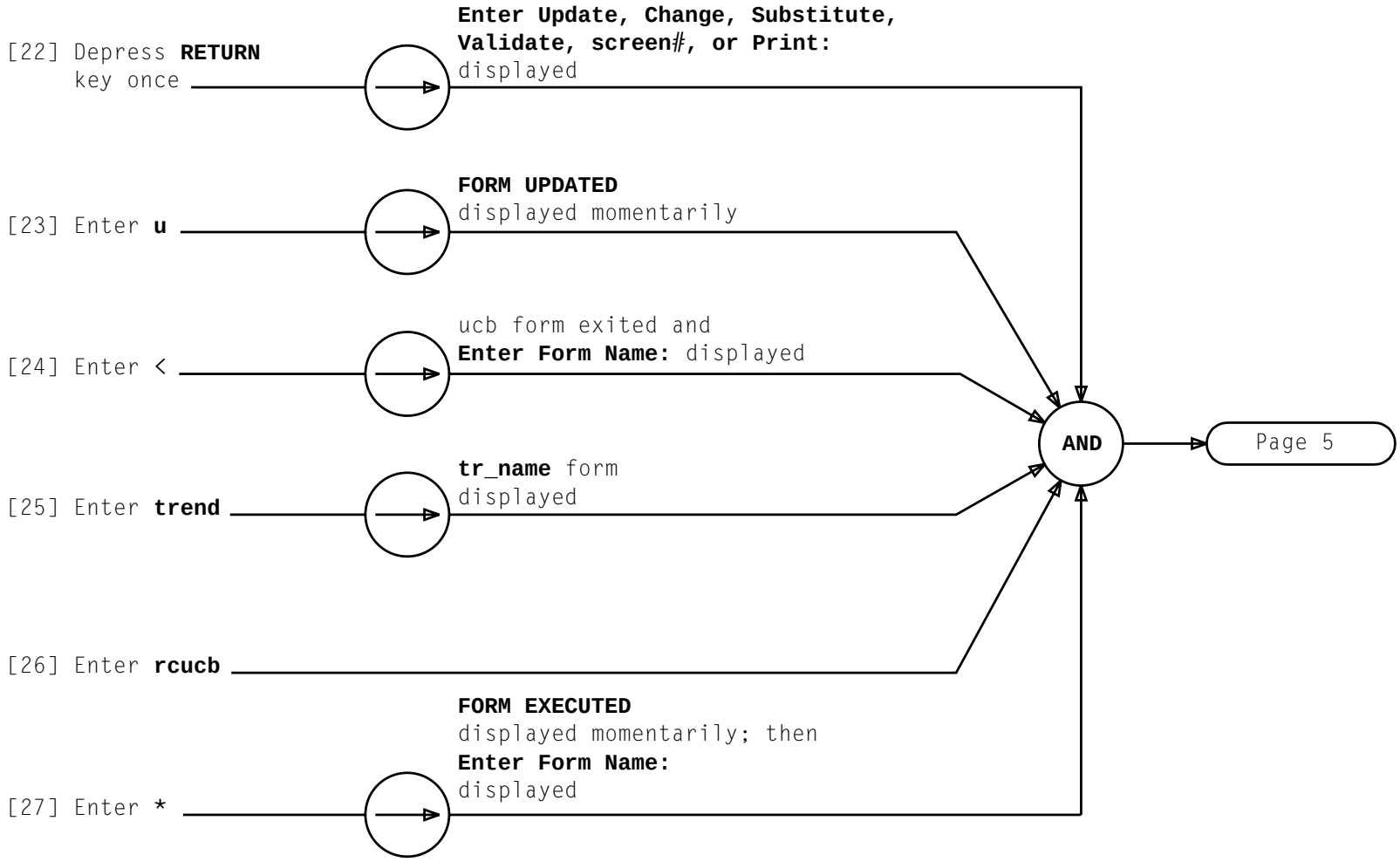
RECENT CHANGE UCB DATA FOR GROWTH MHD



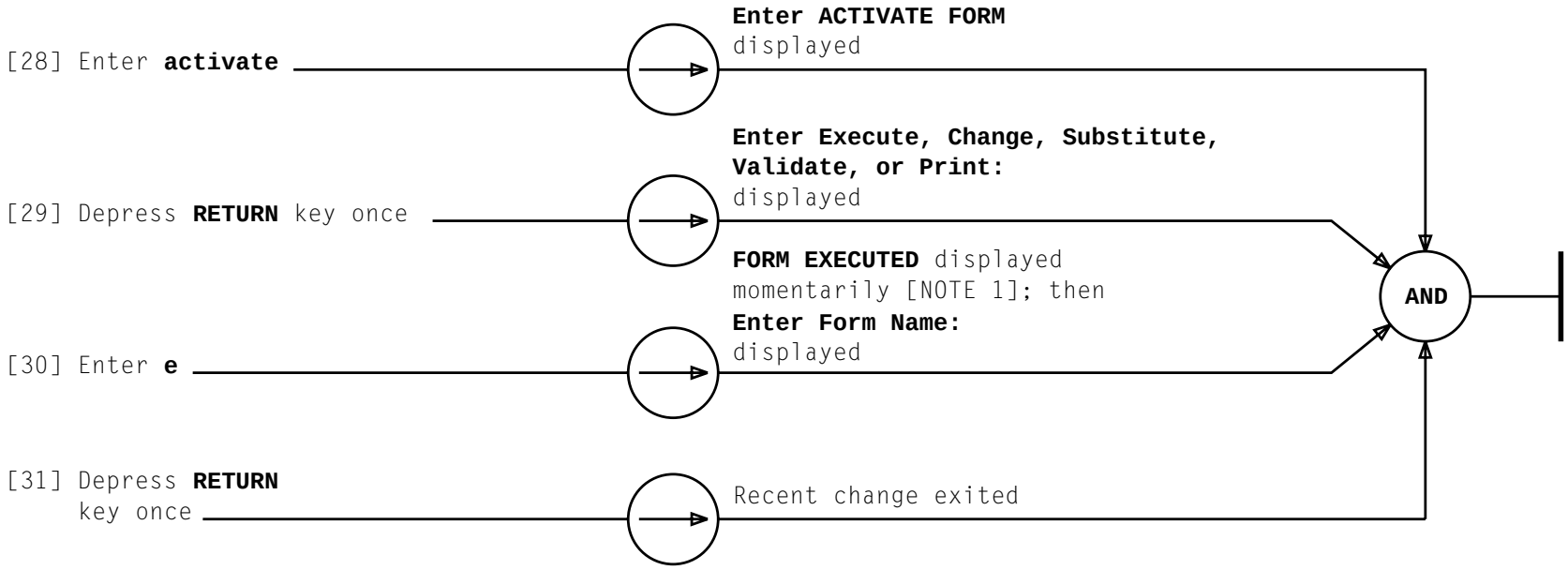
RECENT CHANGE UCB DATA FOR GROWTH MHD



RECENT CHANGE UCB DATA FOR GROWTH MHD



RECENT CHANGE UCB DATA FOR GROWTH MHD



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

RECENT CHANGE UCB DATA FOR GROWTH MHD

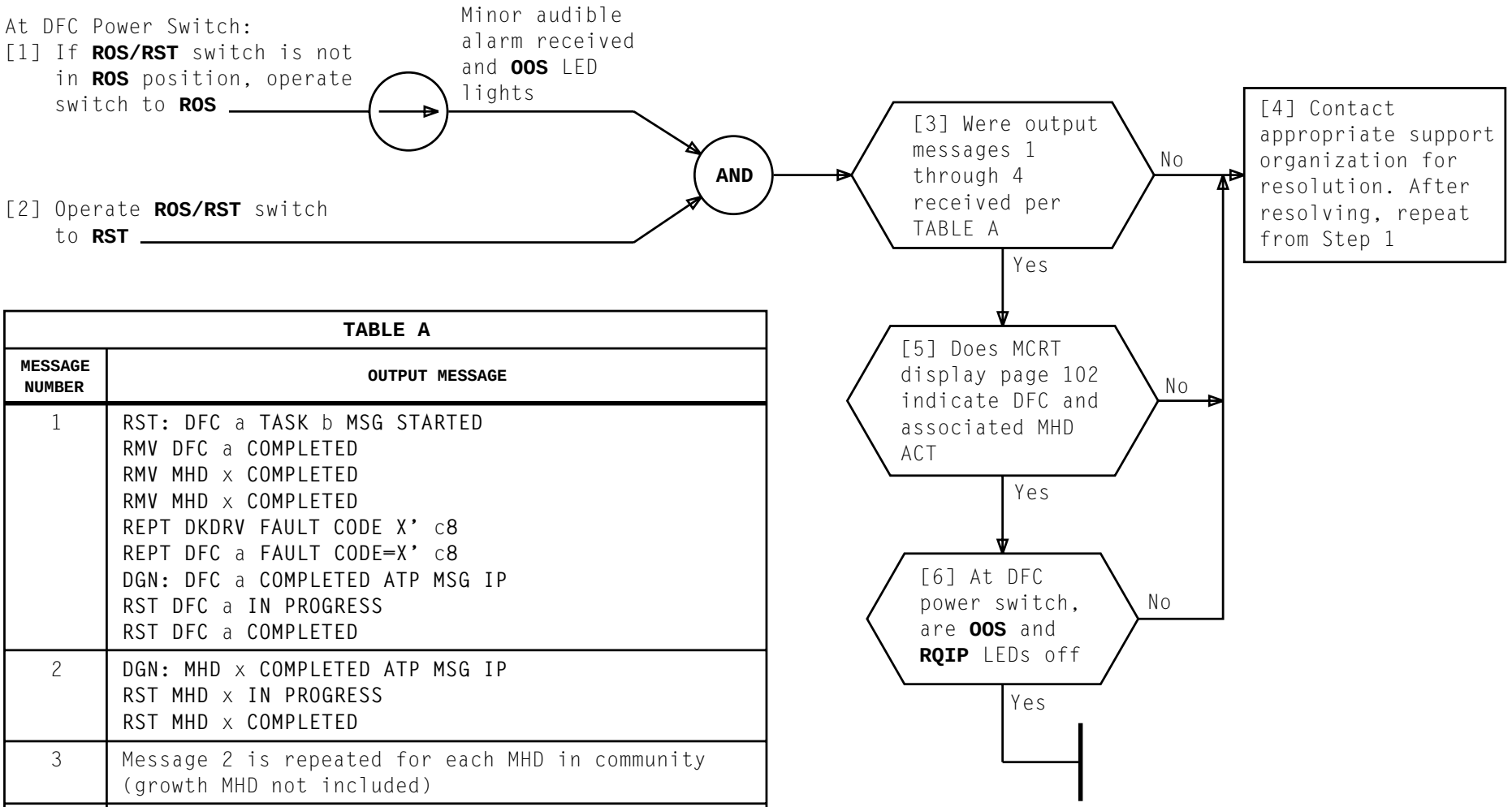
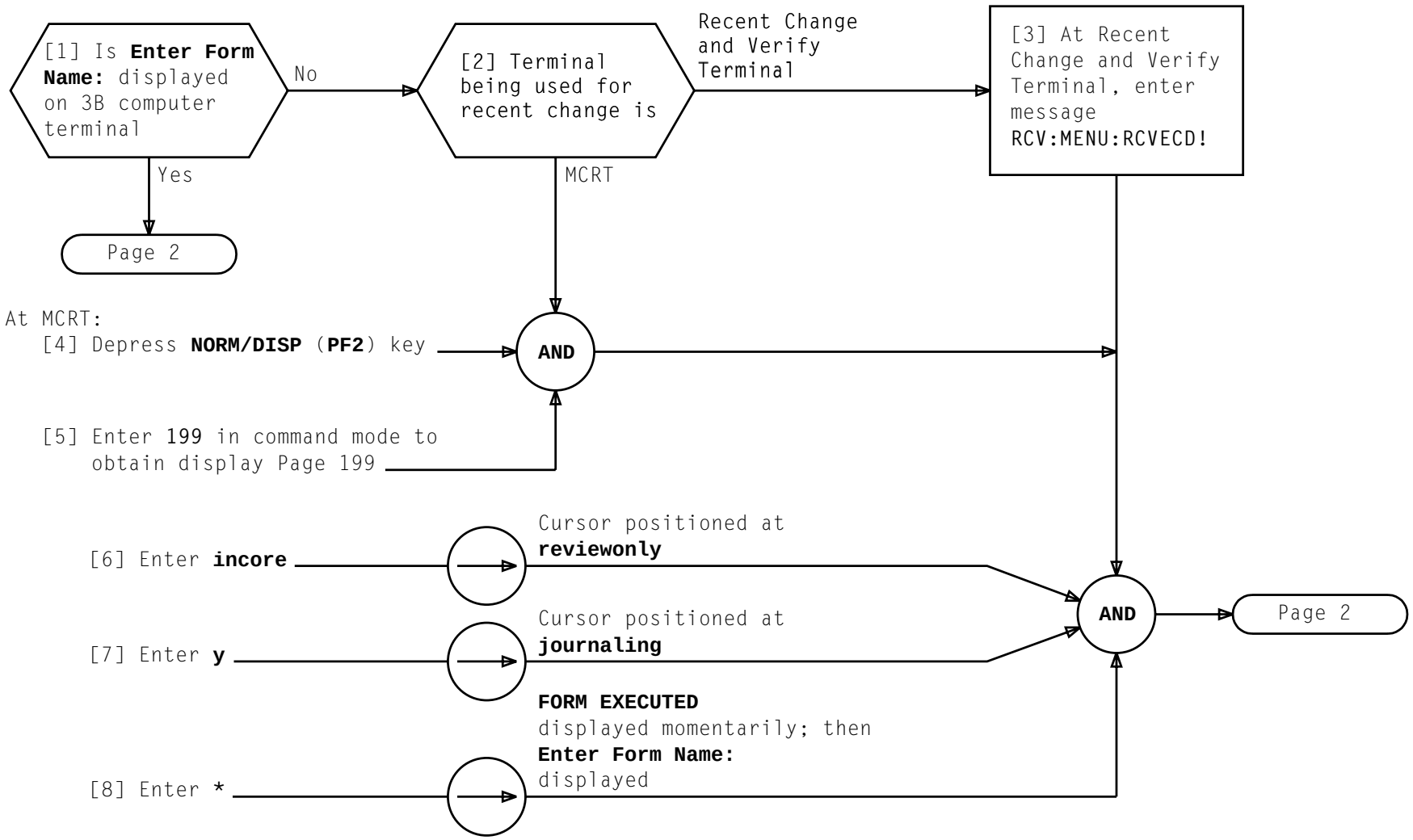


TABLE A

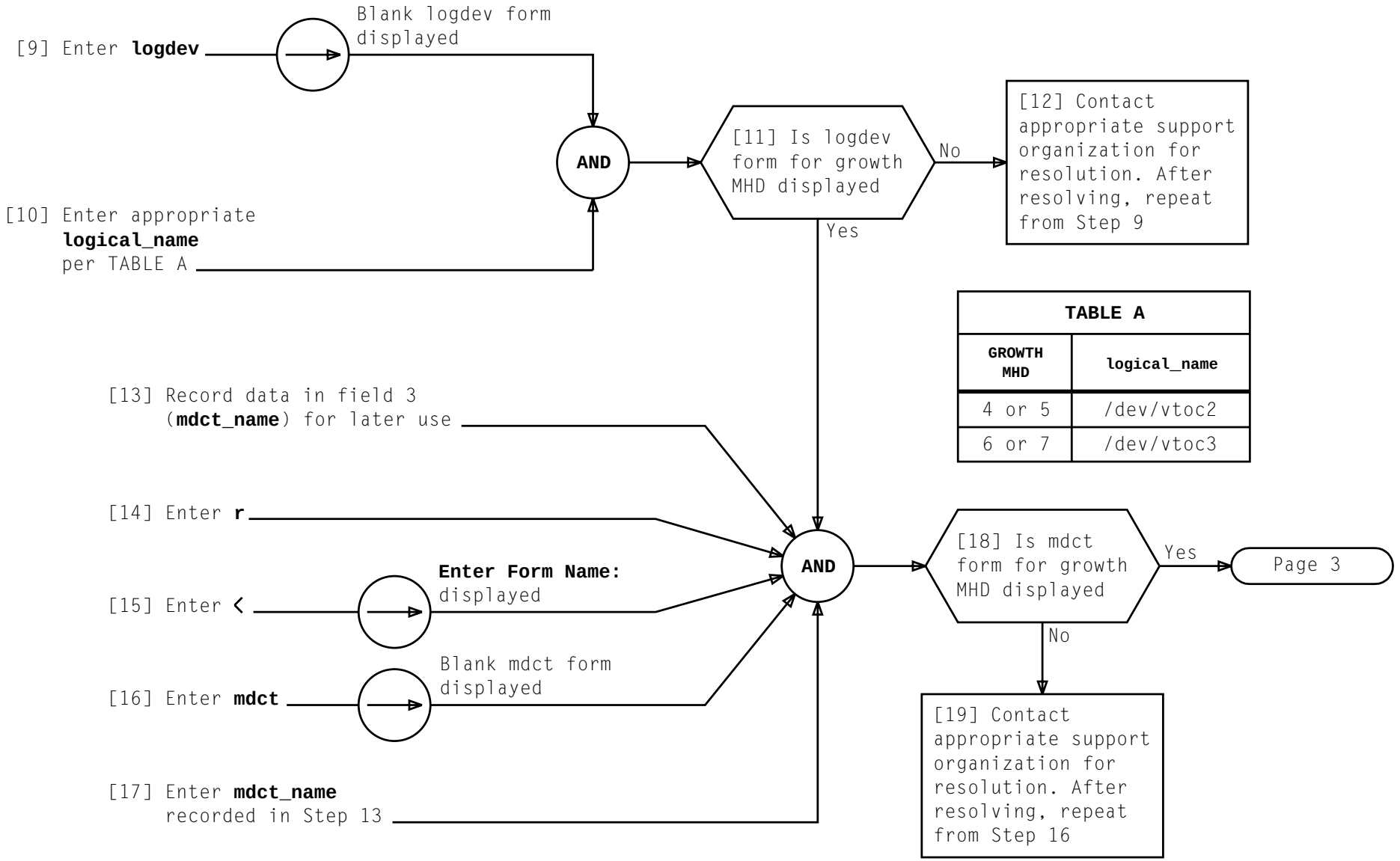
MESSAGE NUMBER	OUTPUT MESSAGE
1	RST: DFC a TASK b MSG STARTED RMV DFC a COMPLETED RMV MHD x COMPLETED RMV MHD x COMPLETED REPT DKDRV FAULT CODE X' c8 REPT DFC a FAULT CODE=X' c8 DGN: DFC a COMPLETED ATP MSG IP RST DFC a IN PROGRESS RST DFC a COMPLETED
2	DGN: MHD x COMPLETED ATP MSG IP RST MHD x IN PROGRESS RST MHD x COMPLETED
3	Message 2 is repeated for each MHD in community (growth MHD not included)
4	DGN: DFC a ATP MSG COMPL

a = 0 or 1
b = Task number
x = 0, 2, 4, or 6 (for DFC 0) or
1, 3, 5, or 7 (for DFC 1)

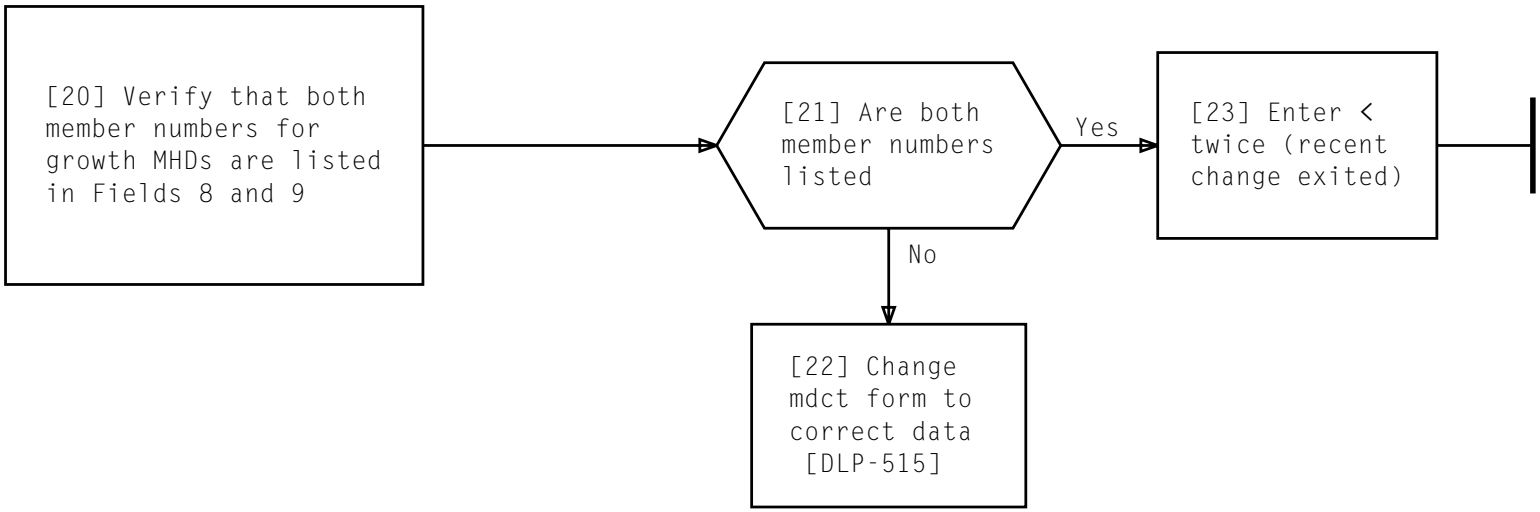
DIAGNOSE DFC USING ROS/RST SWITCH



VERIFY LOGDEV DATA FOR GROWTH MHDs



VERIFY LOGDEV DATA FOR GROWTH MHDs



VERIFY LOGDEV DATA FOR GROWTH MHDs

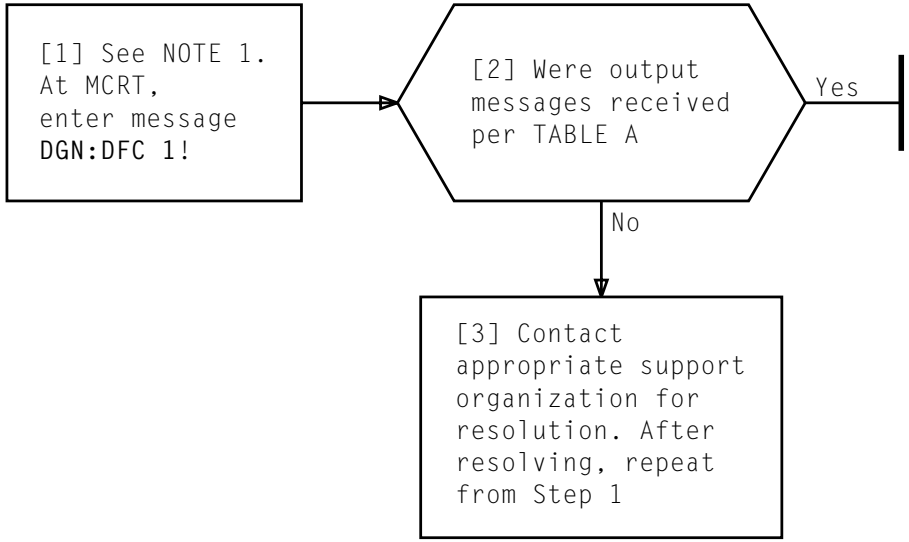


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: DFC 1 TASK X MSG STARTED RMV DFC 1 COMPLETED RMV MHD 1 COMPLETED RMV MHD 3 COMPLETED DGN DFC 1 COMPLETED ATP MSG IP DGN DFC 1 ATP MSG COMPL

NOTE 1
DFC 1 and associated MHDs will be left out-of-service after diagnostic completes

DIAGNOSE DFC 1

[1] See CAUTION 1.
At MCRT, enter message
IN:FILE:APND,FN"/usr/lib/crontab**",LINE 16/**

[2] After :, enter
"7 20 * * 2 (cd /cft/shl**;/cft/bin/pdsenv\ "VFY:MHD** a!**\")"**
a = Odd growth MHD member number - 5 or 7

[3] Compare line entered in Step 2 with second line in printout. See FIG. 1

AND

[4] Was printout correct

Yes → Page 2

No → [5] Contact appropriate support organization for resolution. After resolving, repeat from Step 1

```
     IN FILE APND COMPLETE
16 7 19 * * 2 (cd/cft/shl;/cft/bin/pdsenv "VFY:MHD 3!")
17 7 20 * * 2 (cd/cft/shl;/cft/bin/pdsenv "VFY:MHD 5!")
18 16 2 * * * (cd/cft/shl;/cft/bin/pdsenv "INH:REX:DFC 0!")
```

Line Numbers

Line to be Compared

FIG. 1 – Sample Append Complete Output Message

CAUTION 1
Incorrect use of this procedure may affect system operation. Caution must be used when entering commands in Steps 1 and 2. Local procedures must be used if they apply

ADD GROWTH MHD VERIFY SCHEDULES TO CRONTAB FILE

[6] See CAUTION 2.
At MCRT, enter message
IN:FILE:APND,FN"/usr/lib/crontab",LINE 17/

[7] After :, enter
"7 20 * * 4,6 (cd /cft/shl;/cft/bin/pdsenv \"VFY:MHD a!\")"
a = Odd growth MHD member number - 5 or 7

AND

[8] Compare line entered in Step 7 with second line in printout. See FIG. 2

[9] Was printout correct

Yes → Page 3

No → [10] Contact appropriate support organization for resolution. After resolving, repeat from Step 6

```
     IN FILE APND COMPLETE
17 7 20 * * 2 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 5!")
18 7 20 * * 4,6 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 5!")
19 16 2 * * * (cd /cft/shl;/cft/bin/pdsenv "INH:REX:DFC 0!")
```

Line Numbers

Line to be Compared

FIG. 2 – Sample Append Complete Output Message

CAUTION 2
Incorrect use of this procedure may affect system operation. Caution must be used when entering commands in Steps 6 and 7. Local procedures must be used if they apply

ADD GROWTH MHD VERIFY SCHEDULES TO CRONTAB FILE

[11] See CAUTION 3.
At MCRT, enter message
IN:FILE:APND,FN"/usr/lib/crontab**",LINE 21/**

[12] After :, enter
"7 20 * * 1,3,5,7 (cd /cft/shl;/cft/bin/pdsenv **\"VFY:MHD** a! **\")"**
a = Even growth MHD member number - 4 or 6

[13] Compare line entered in Step 12 with second line
in printout. See FIG. 3

AND

[14] Is printout correct

Yes

No

[15] Contact appropriate support organization for resolution. After resolving, repeat from Step 11

```
     IN FILE APND COMPLETE
21 7 19 * * 1,3,5,7 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 2!")
22 7 20 * * 1,3,5,7 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 4!")
23 17 2 * * * (cd /cft/shl;/cft/bin/pdsenv "INH:REX:DFC 1!")
```

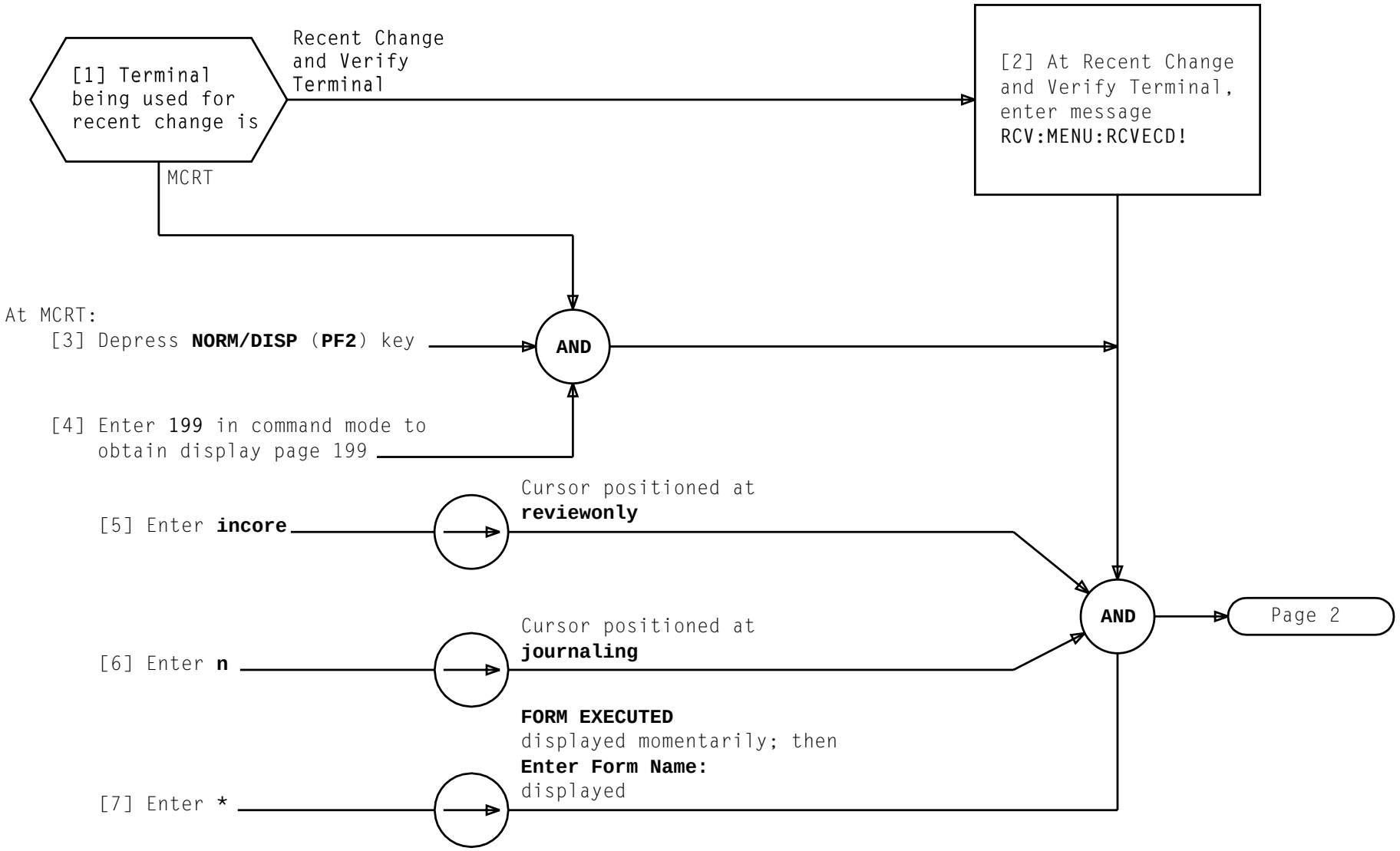
Line Numbers

Line to be Compared

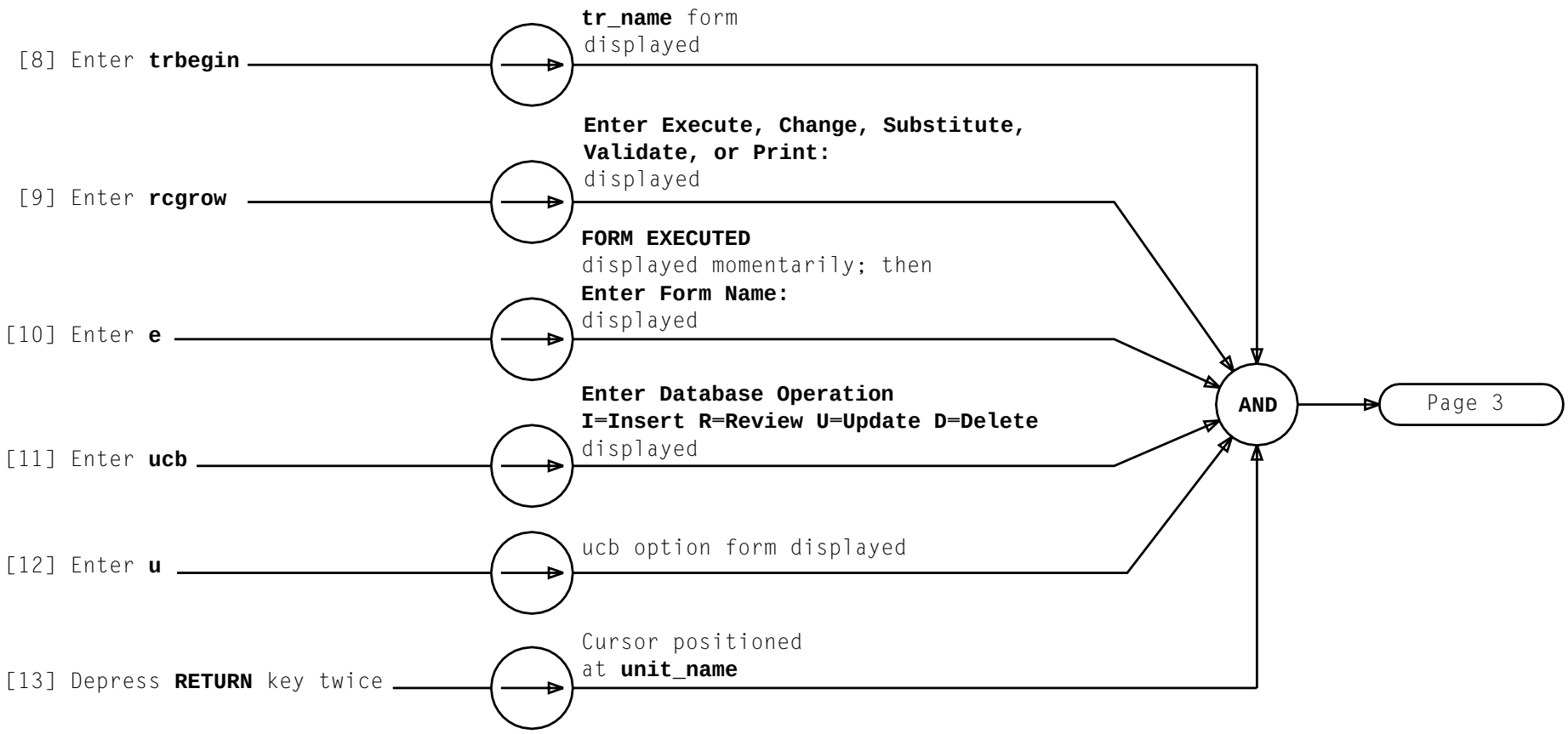
FIG. 3 – Sample Append Complete Output Message

CAUTION 3
Incorrect use of this procedure may affect system operation. Caution must be used when entering commands in Steps 11 and 12. Local procedures must be used if they apply

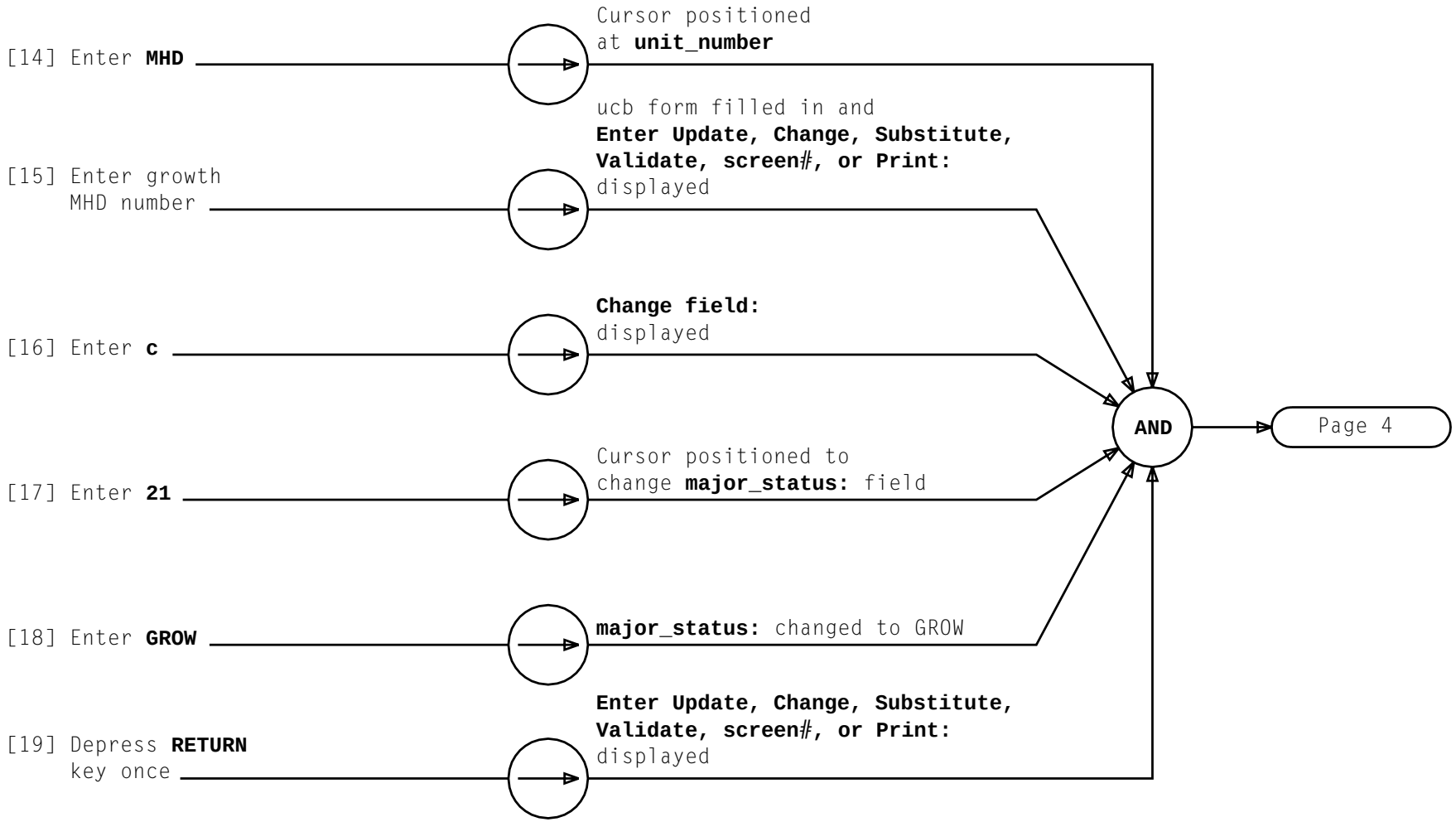
ADD GROWTH MHD VERIFY SCHEDULES TO CRONTAB FILE



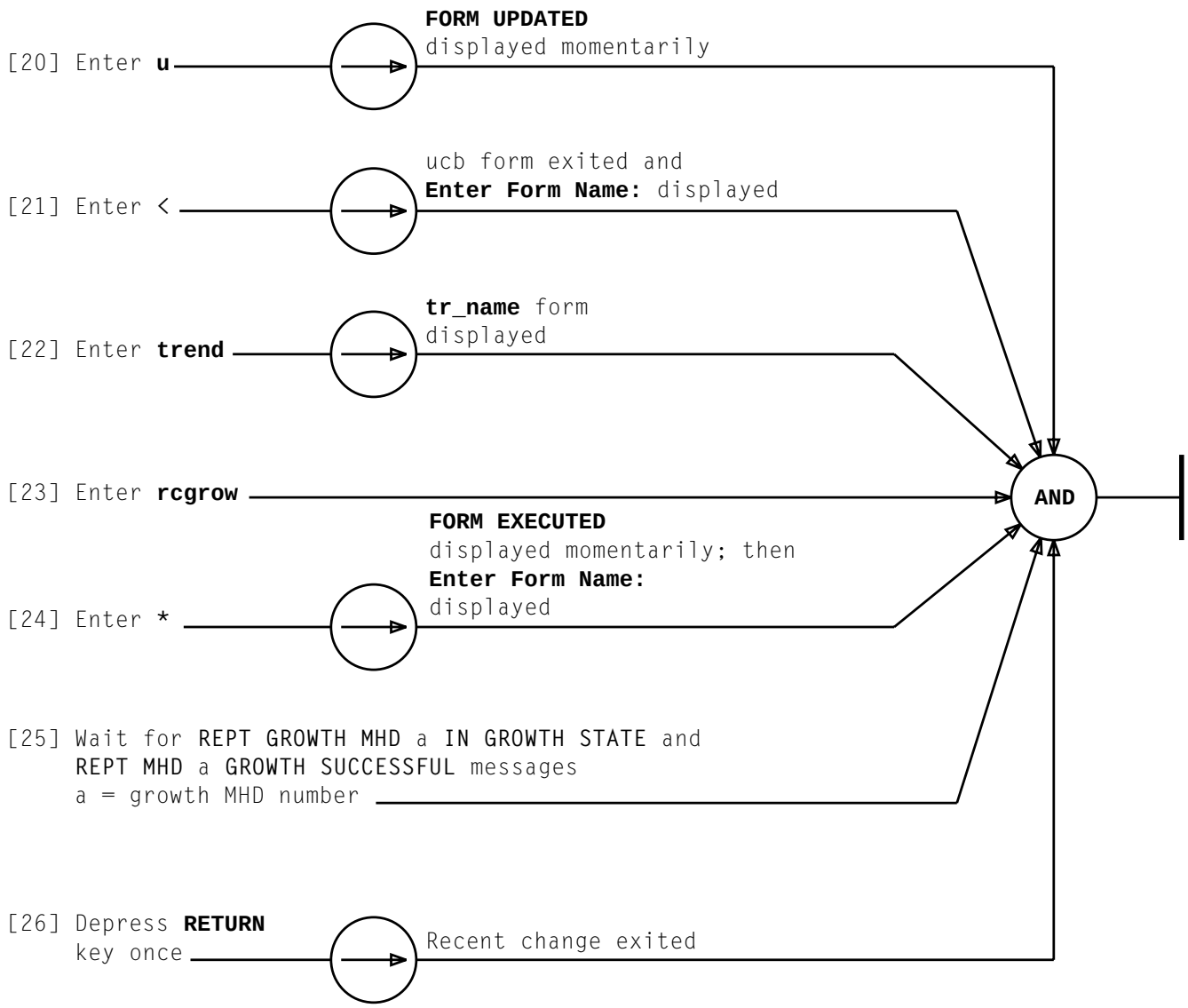
RECENT CHANGE GROWTH MHD FROM UNEQIP TO GROW



RECENT CHANGE GROWTH MHD FROM UNEQIP TO GROW



RECENT CHANGE GROWTH MHD FROM UNEQIP TO GROW



RECENT CHANGE GROWTH MHD FROM UNEQIP TO GROW

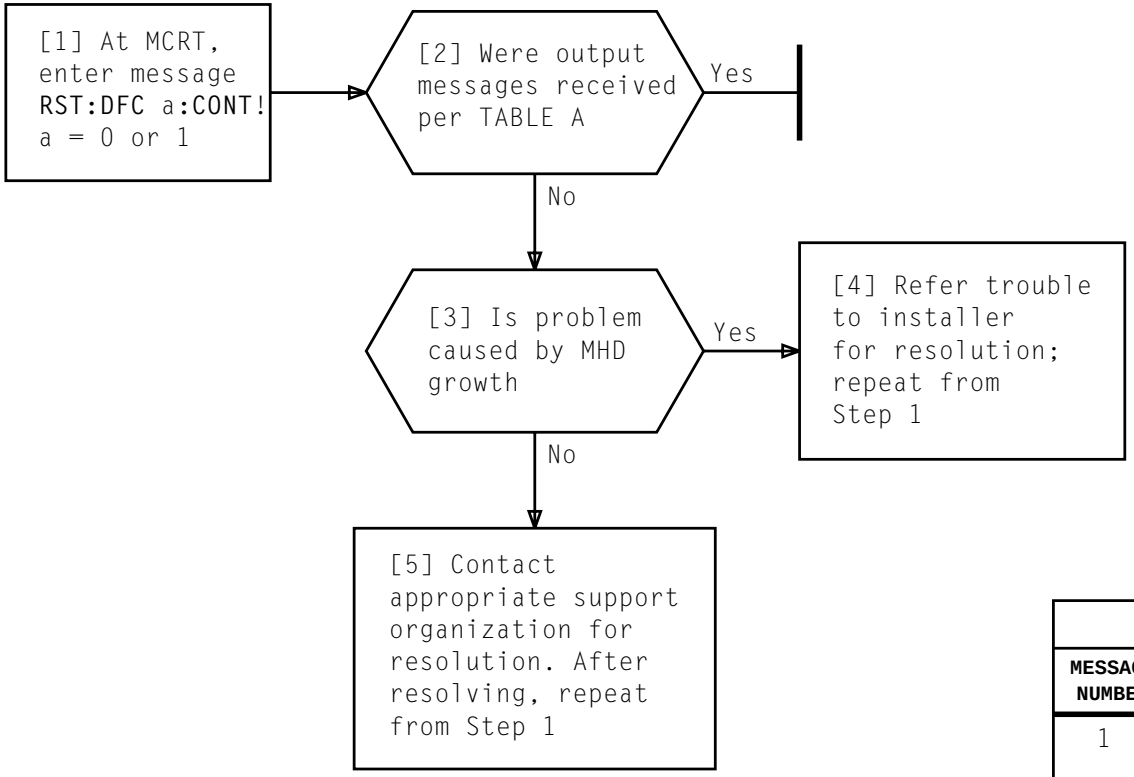


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGES
1	RST: DFC a TASK b MSG STARTED RMV DFC a STOPPED X'5 DGN: DFC a COMPLETED ATP MSG IP RST DFC a IN PROGRESS RST DFC a COMPLETED DGN: DFC a ATP MSG COMPL

RESTORE DFC TO SERVICE

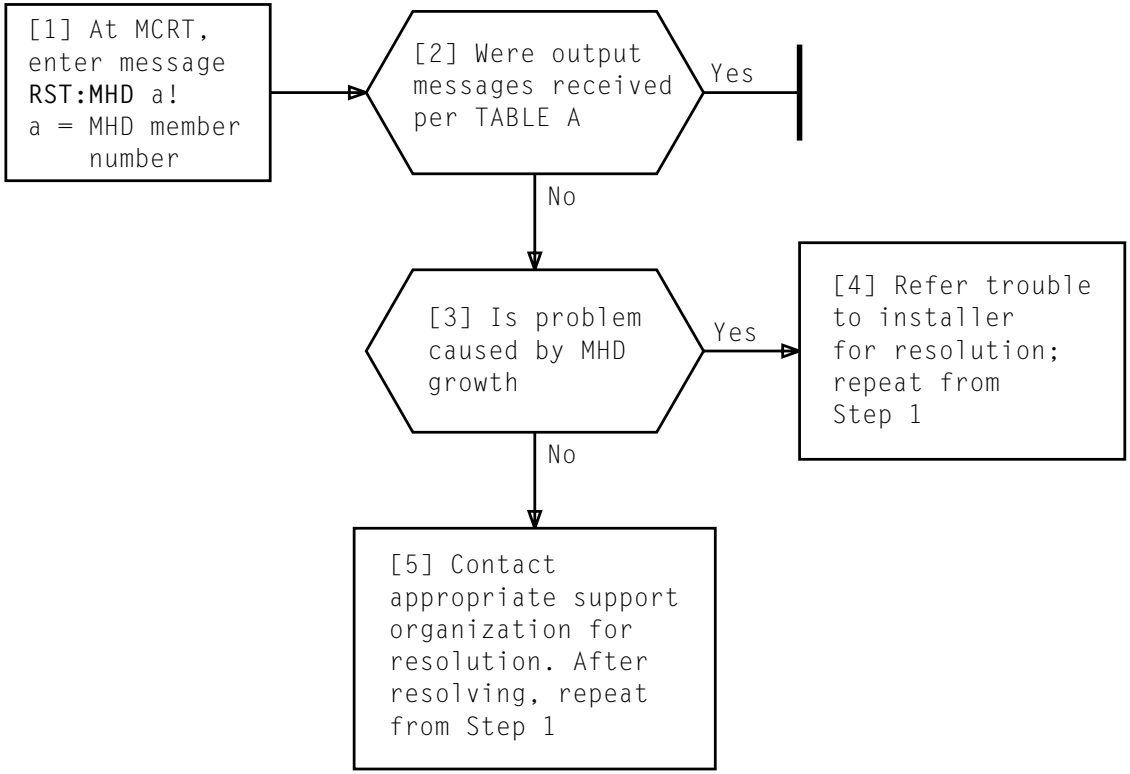


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGES
1	RST: MHD a TASK b MSG STARTED RMV MHD a STOPPED X'5 DGN: MHD a COMPLETED ATP MSG IP RST MHD a IN PROGRESS RST MHD a COMPLETED DGN: MHD a ATP MSG COMPL

RESTORE MHD TO SERVICE

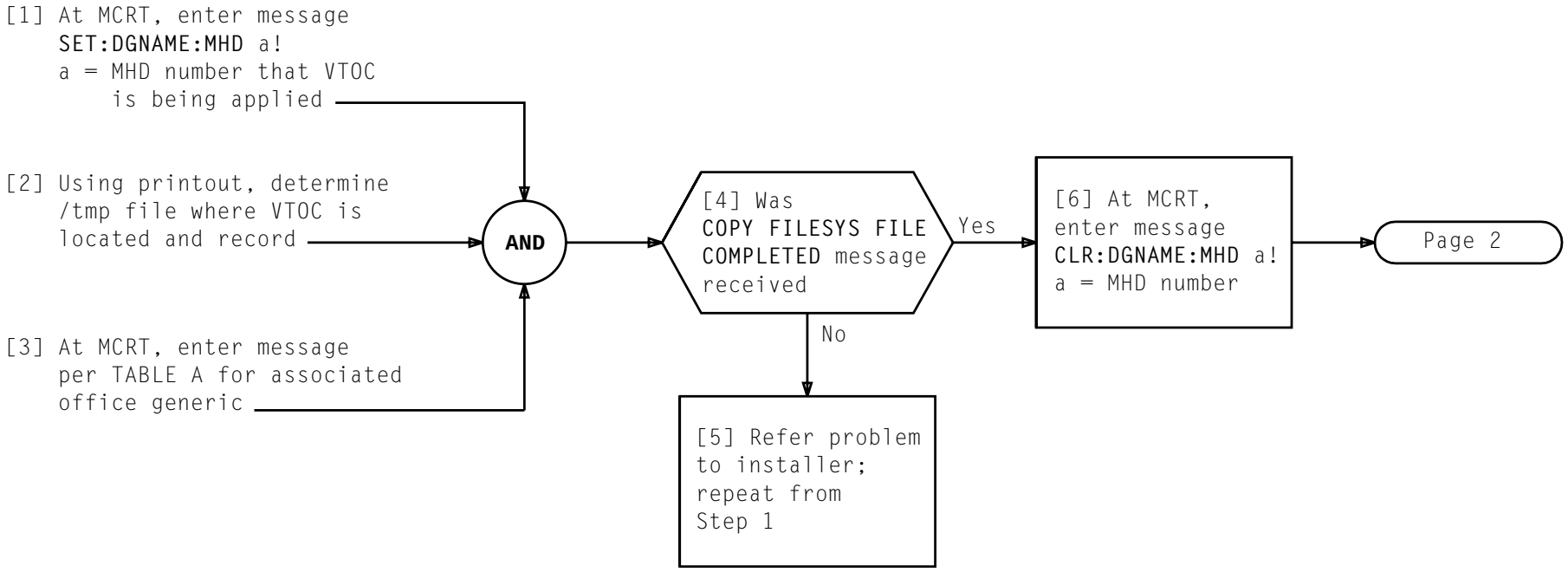
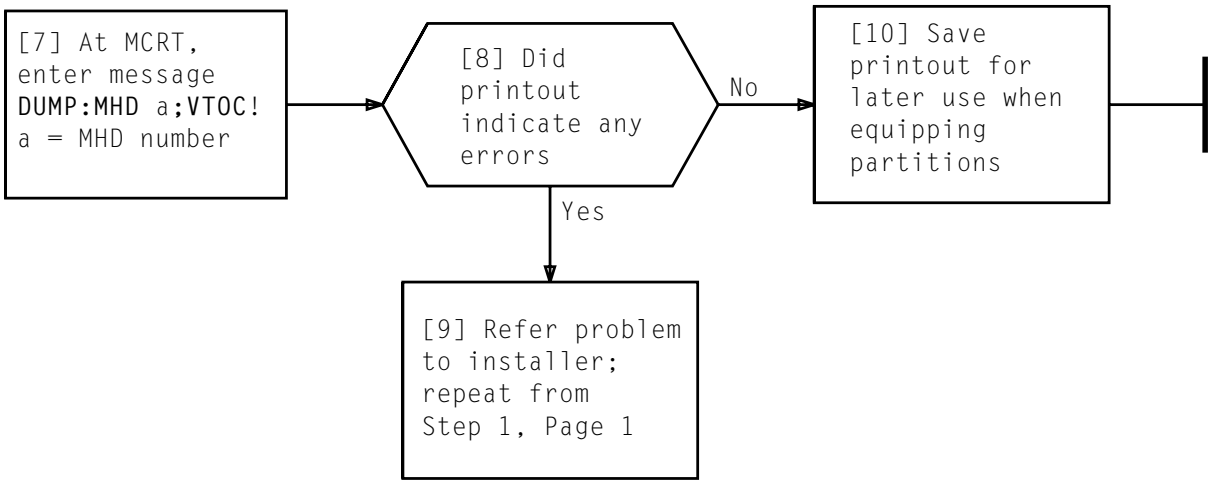


TABLE A

MESSAGE NUMBER	INPUT MESSAGE	GENERIC
1	COPY:FILESYS:FILE,SRC"/database/vtoc/rt1.340",DEST"/tmp/a"! a = /tmp file recorded in Step 2	4AP10
2	COPY:FILESYS:FILE,SRC"/database/vtoc/rt1.600",DEST"/tmp/a"! a = /tmp file recorded in Step 2	4AP11 AND LATER

APPLY VTOC TO GROWTH MHD



APPLY VTOC TO GROWTH MHD

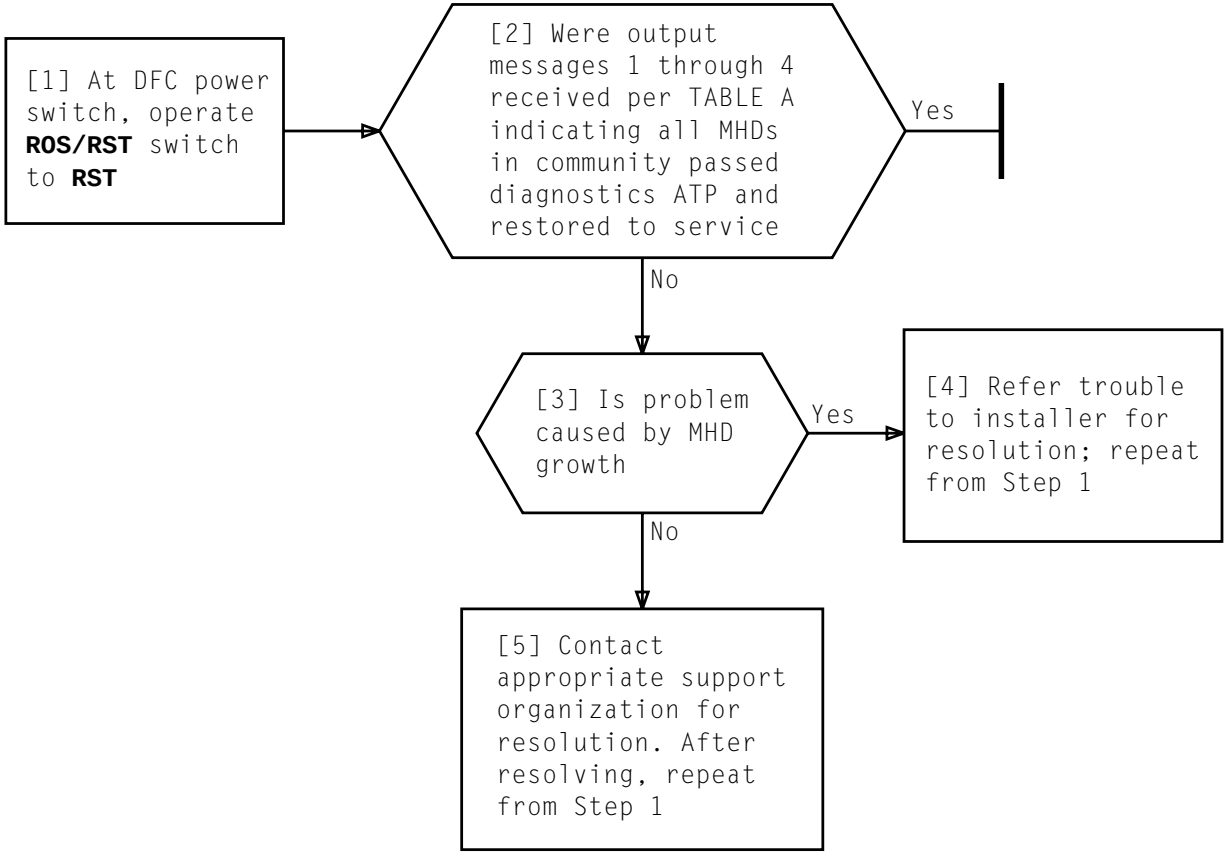


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	RST: DFC a TASK b MSG STARTED RMV DFC a COMPLETED REPT DKDRV FAULT CODE X' c8 REPT DFC a FAULT CODE=X' c8 DGN: DFC a COMPLETED ATP MSG IP RST DFC a IN PROGRESS RST DFC a COMPLETED
2	DGN: MHD x COMPLETED ATP MSG IP RST MHD x IN PROGRESS RST MHD x COMPLETED
3	Message 2 is repeated for each MHD in community
4	DGN: DFC a ATP MSG COMPL

a = 0 or 1
b = Task number
x = 0, 2, 4, or 6 (for DFC 0) or
1, 3, 5, or 7 (for DFC 1)

INITIALLY RESTORE GROWTH MHD TO SERVICE

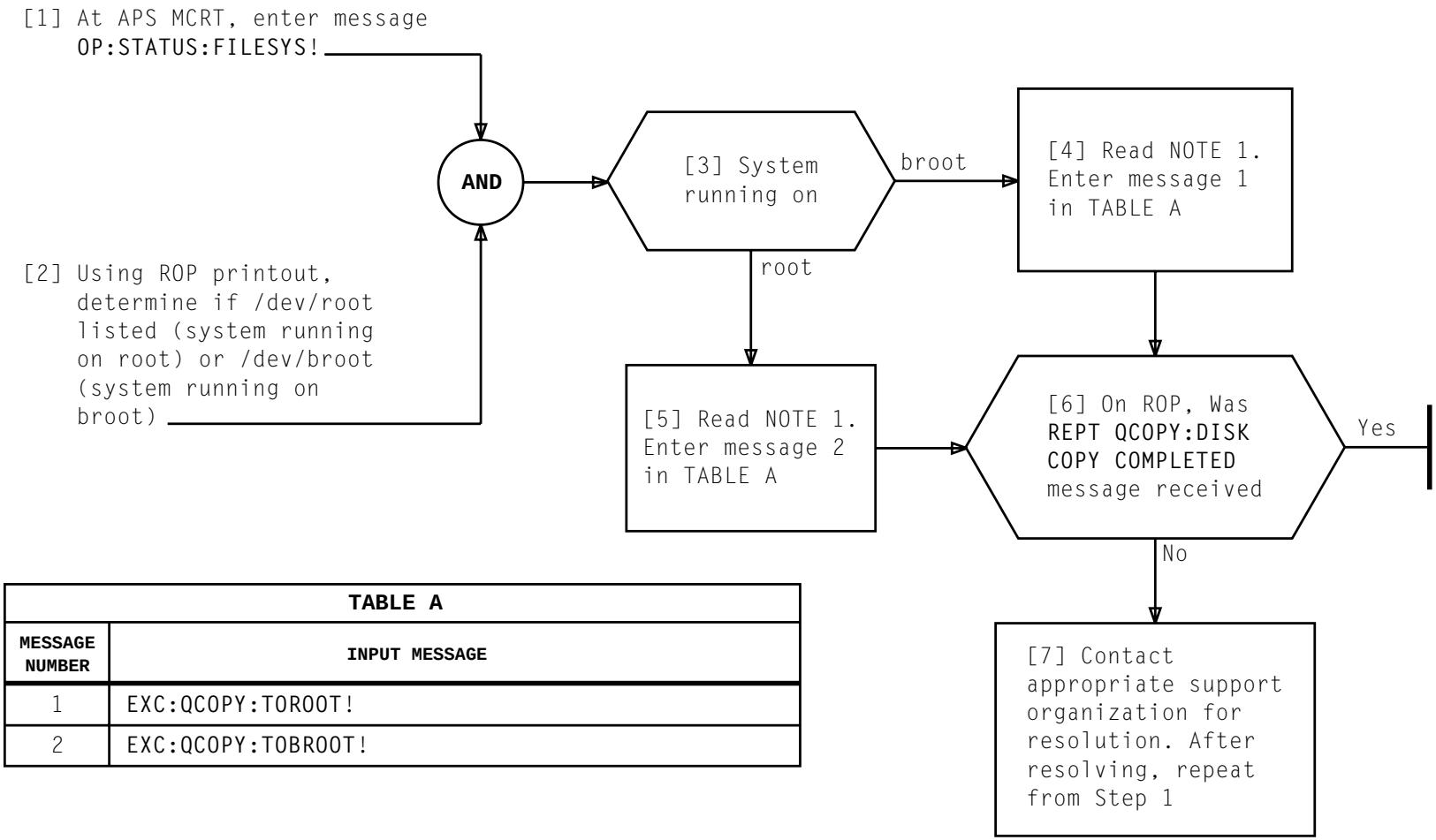
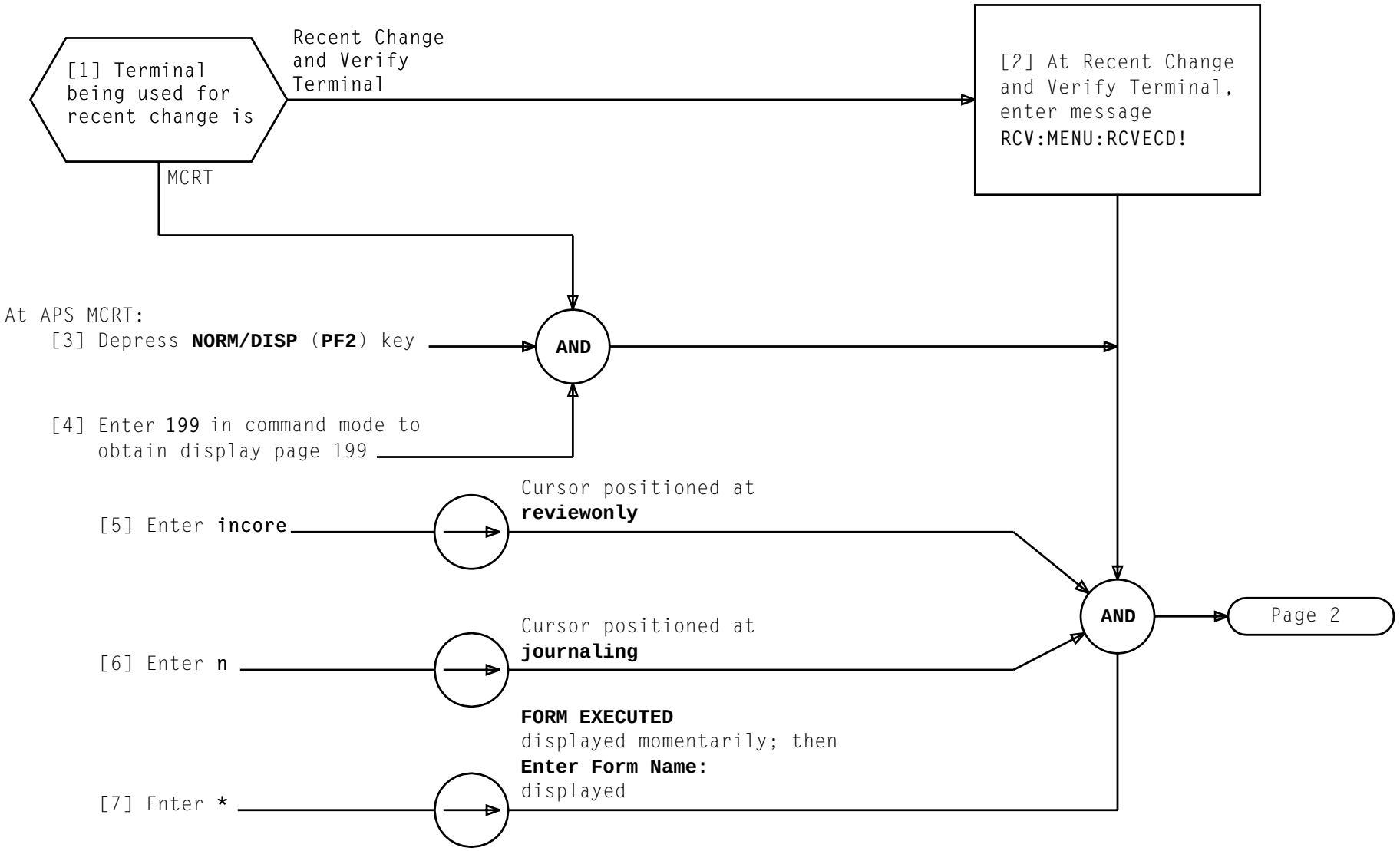


TABLE A

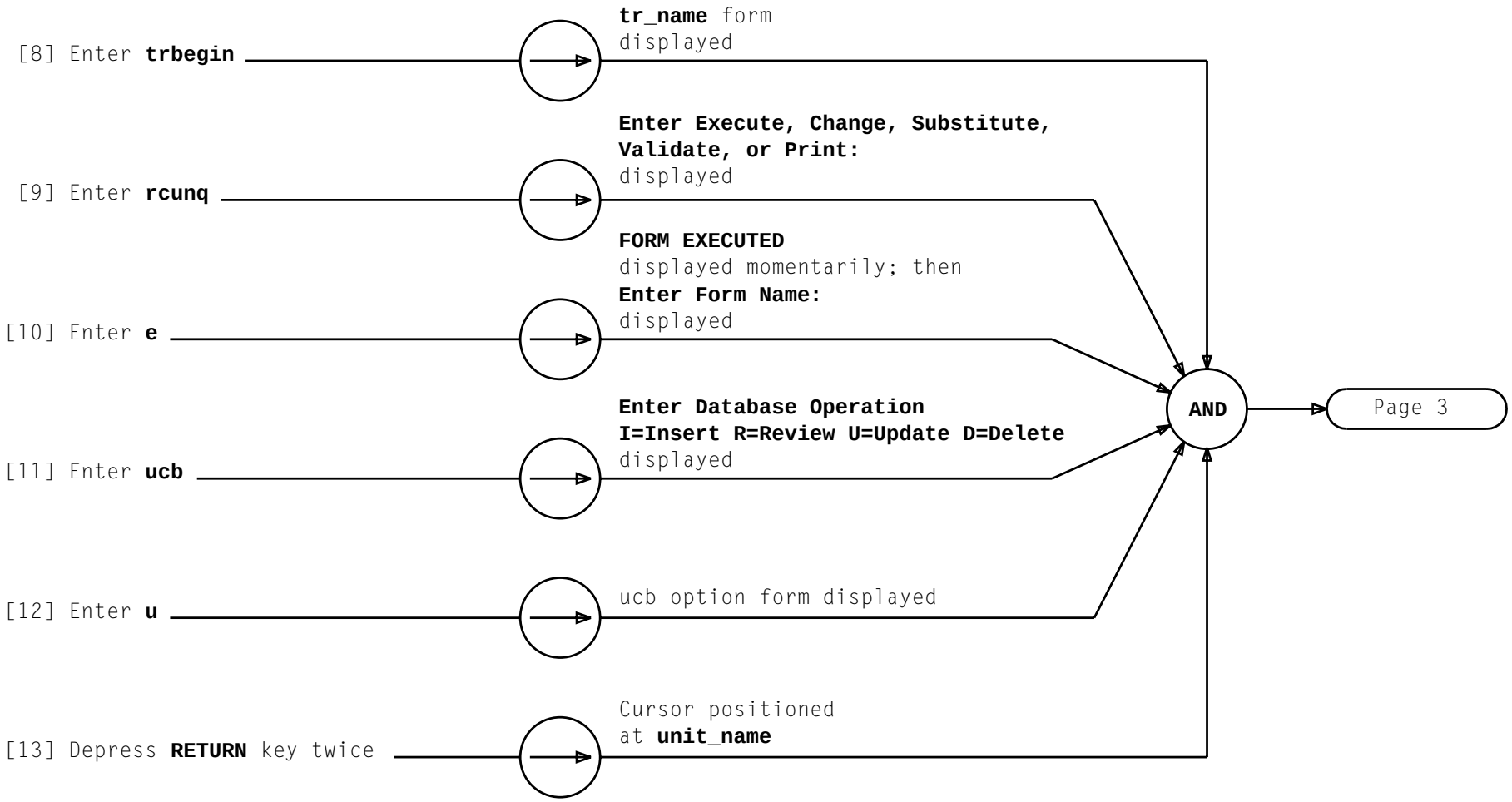
MESSAGE NUMBER	INPUT MESSAGE
1	EXC:QCOPY:TOROOT!
2	EXC:QCOPY:TOBROOT!

NOTE 1
This command requires several minutes to complete

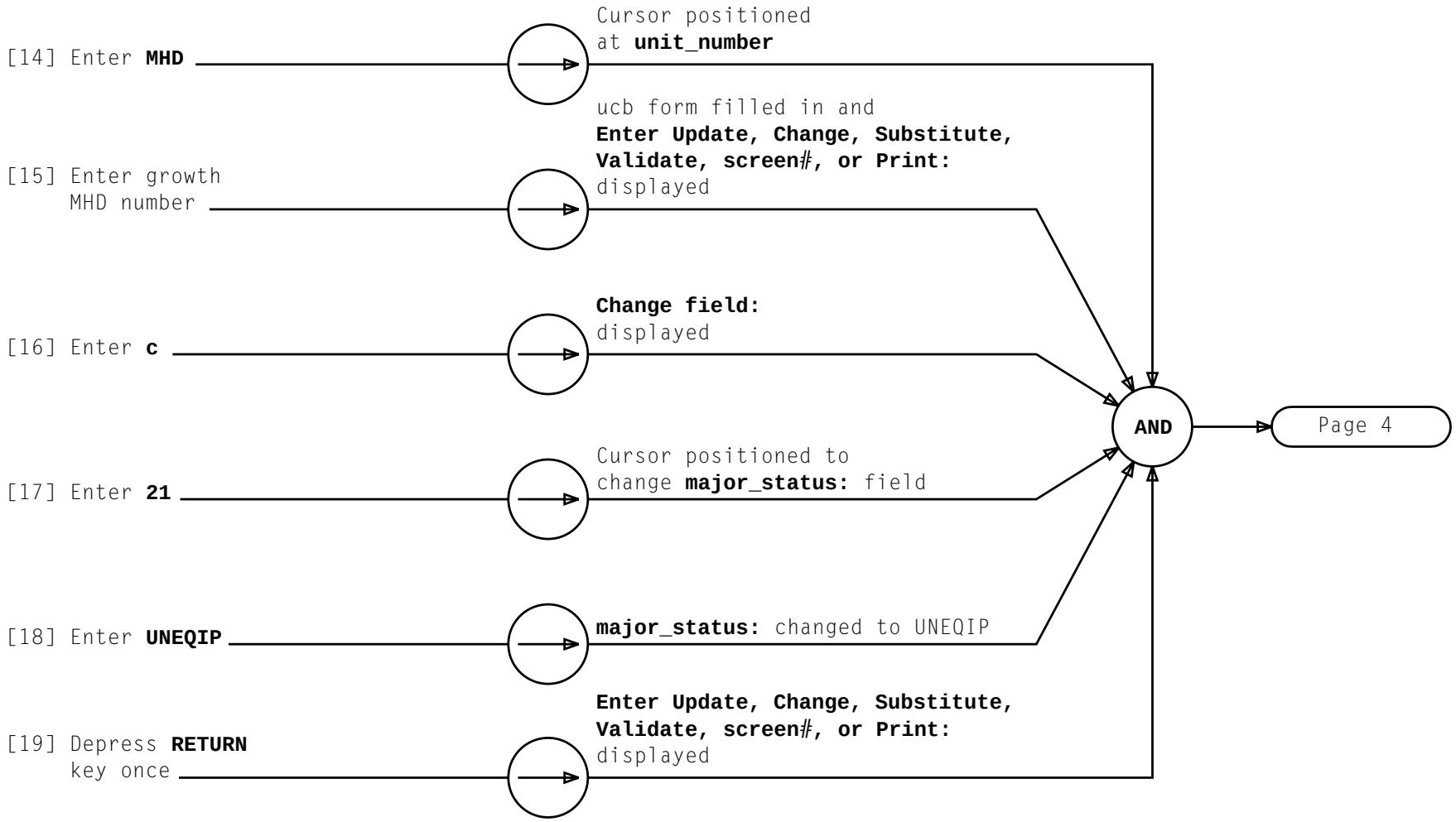
UPDATE BACKUP DATA BASE



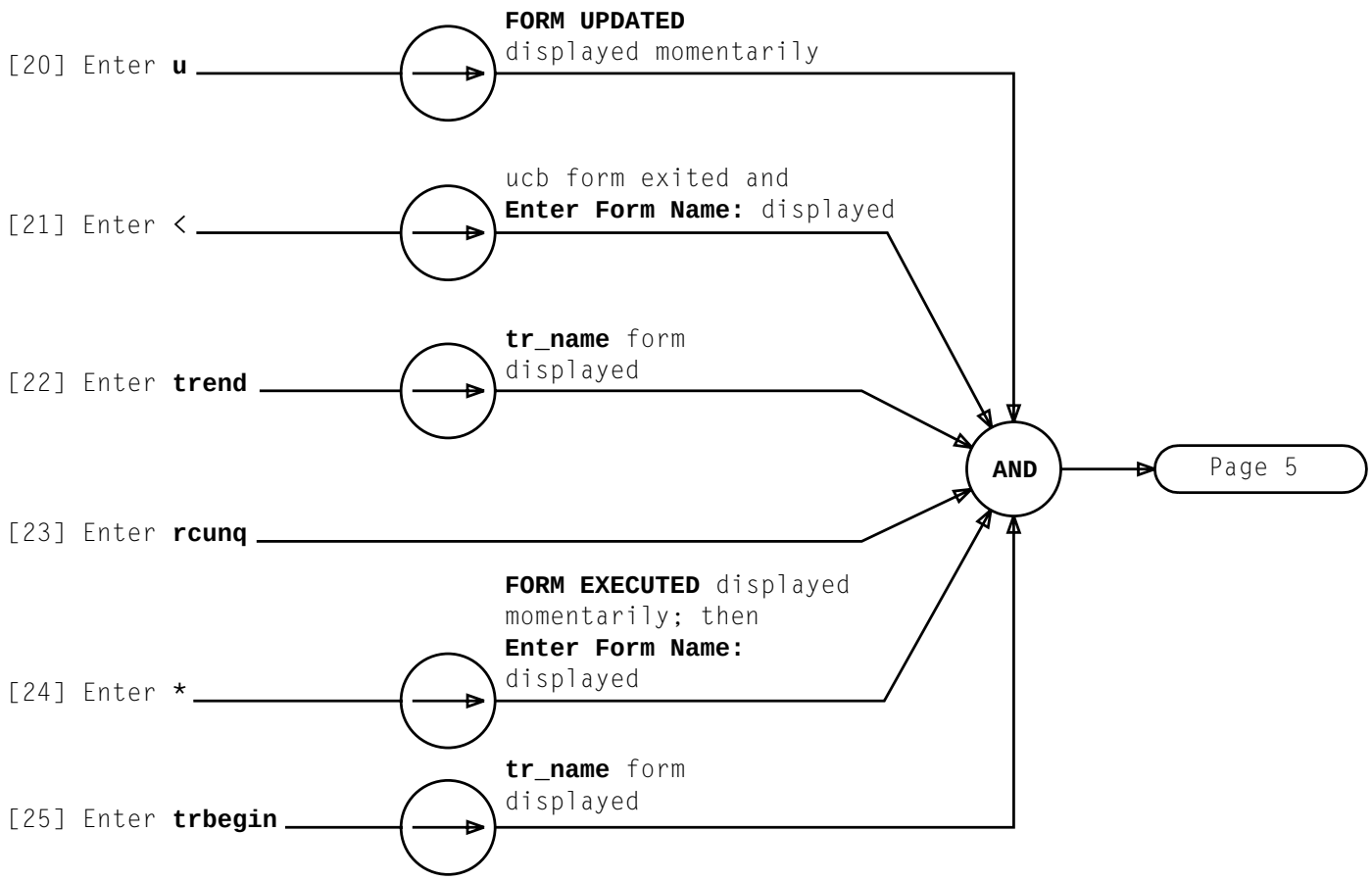
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



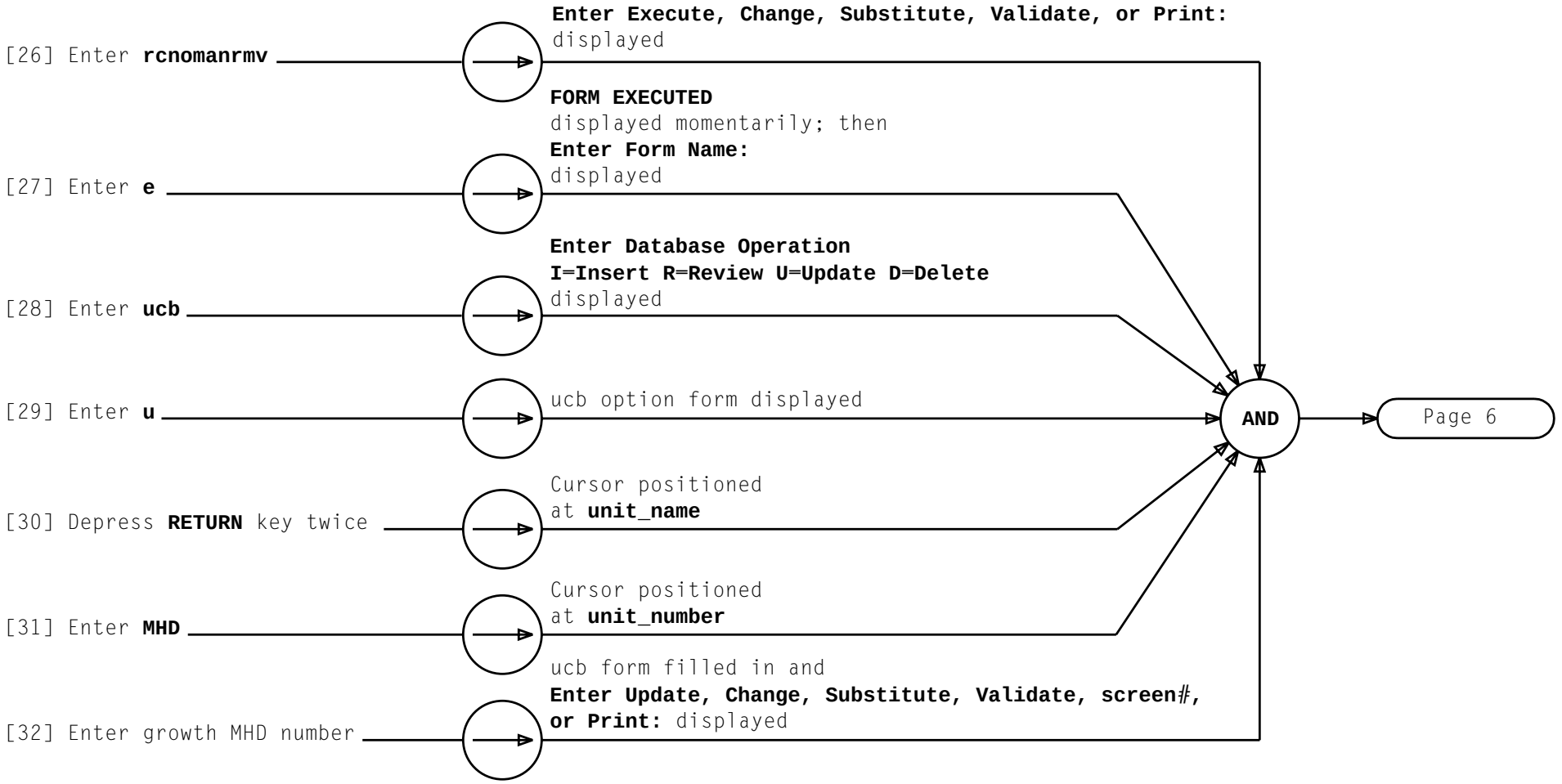
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



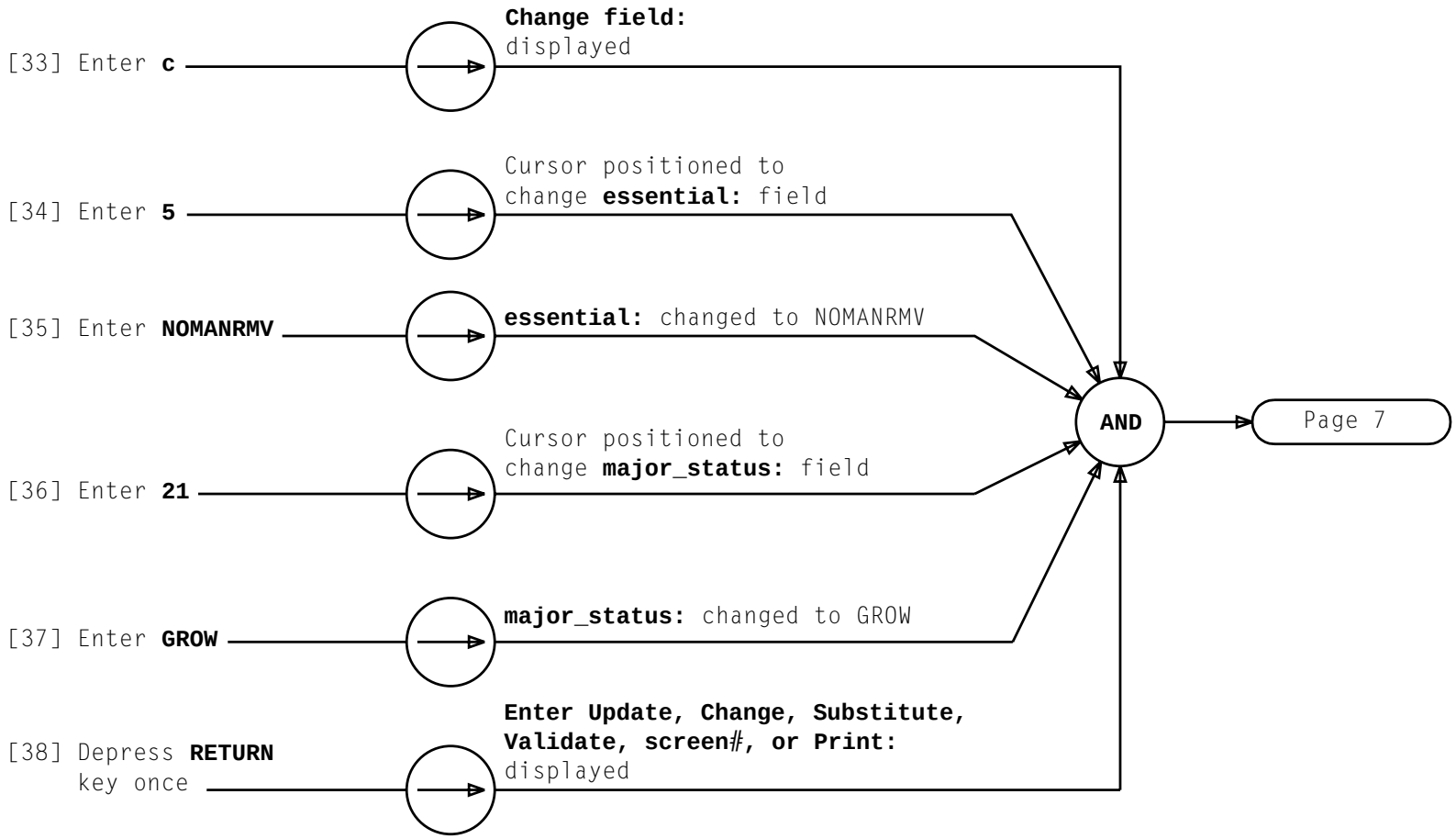
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



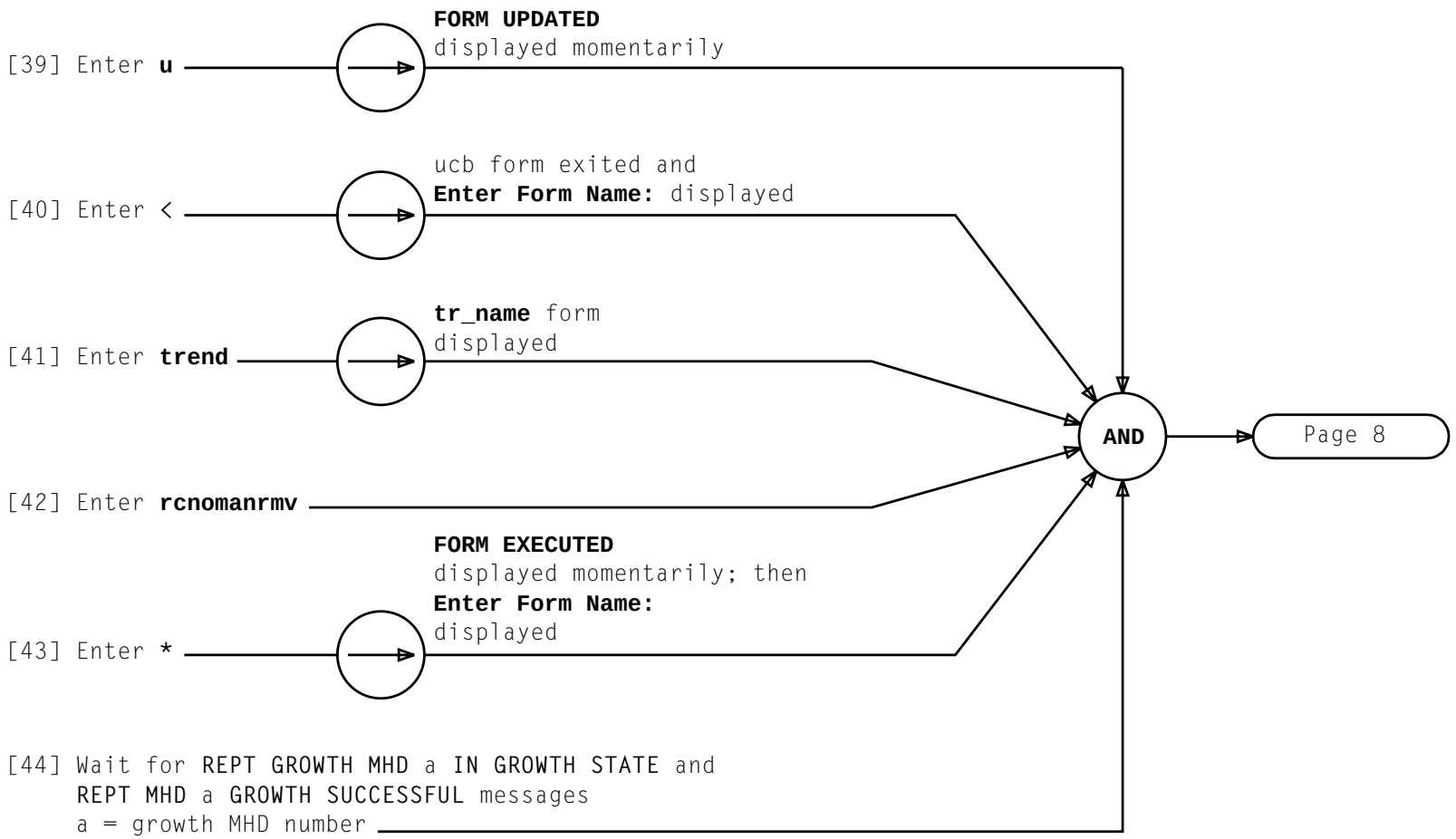
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



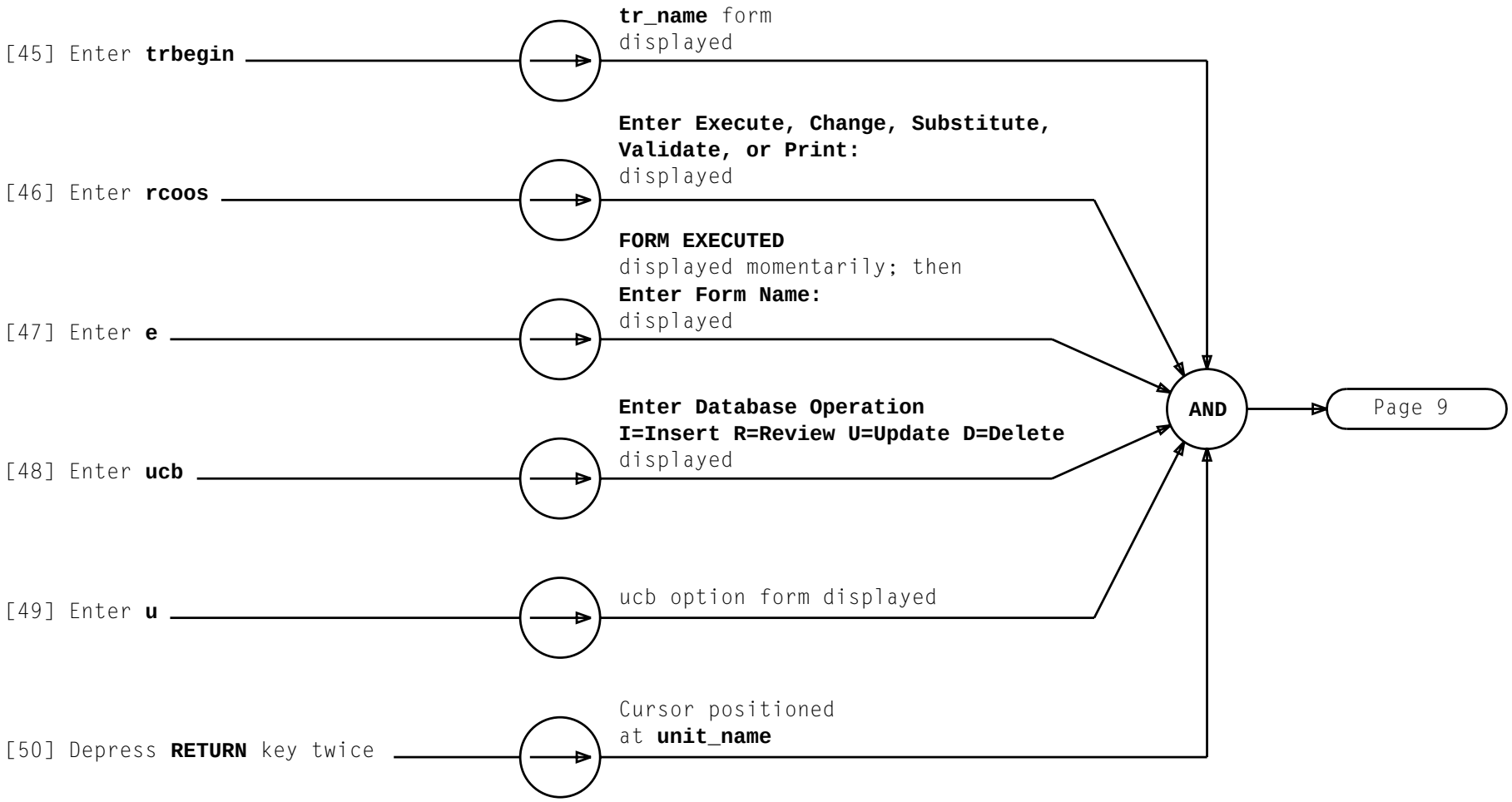
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



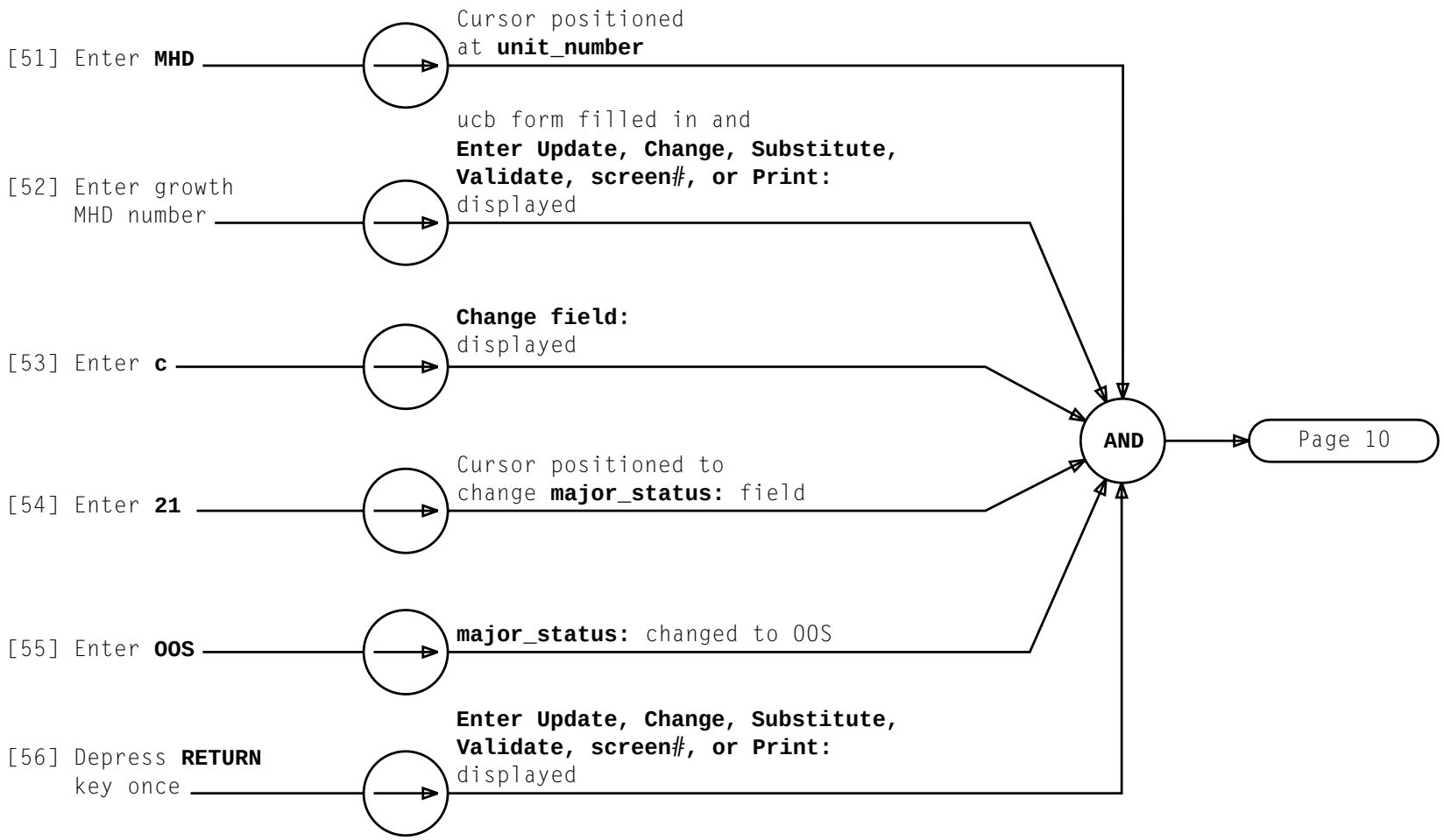
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



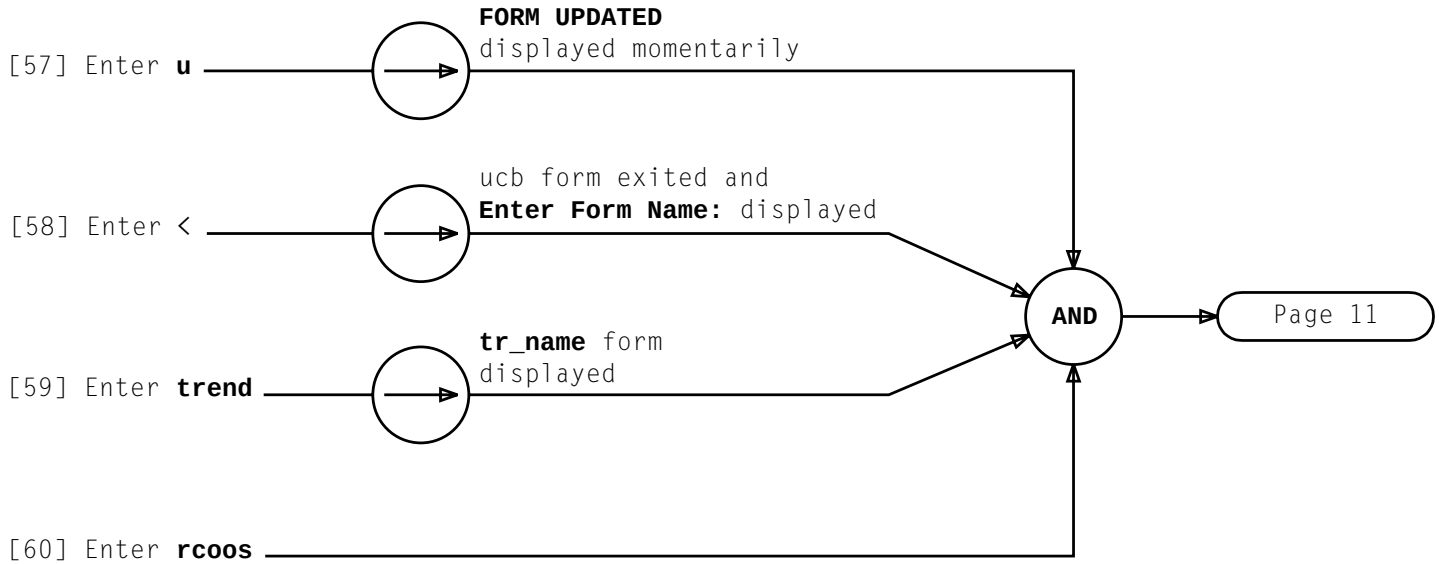
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



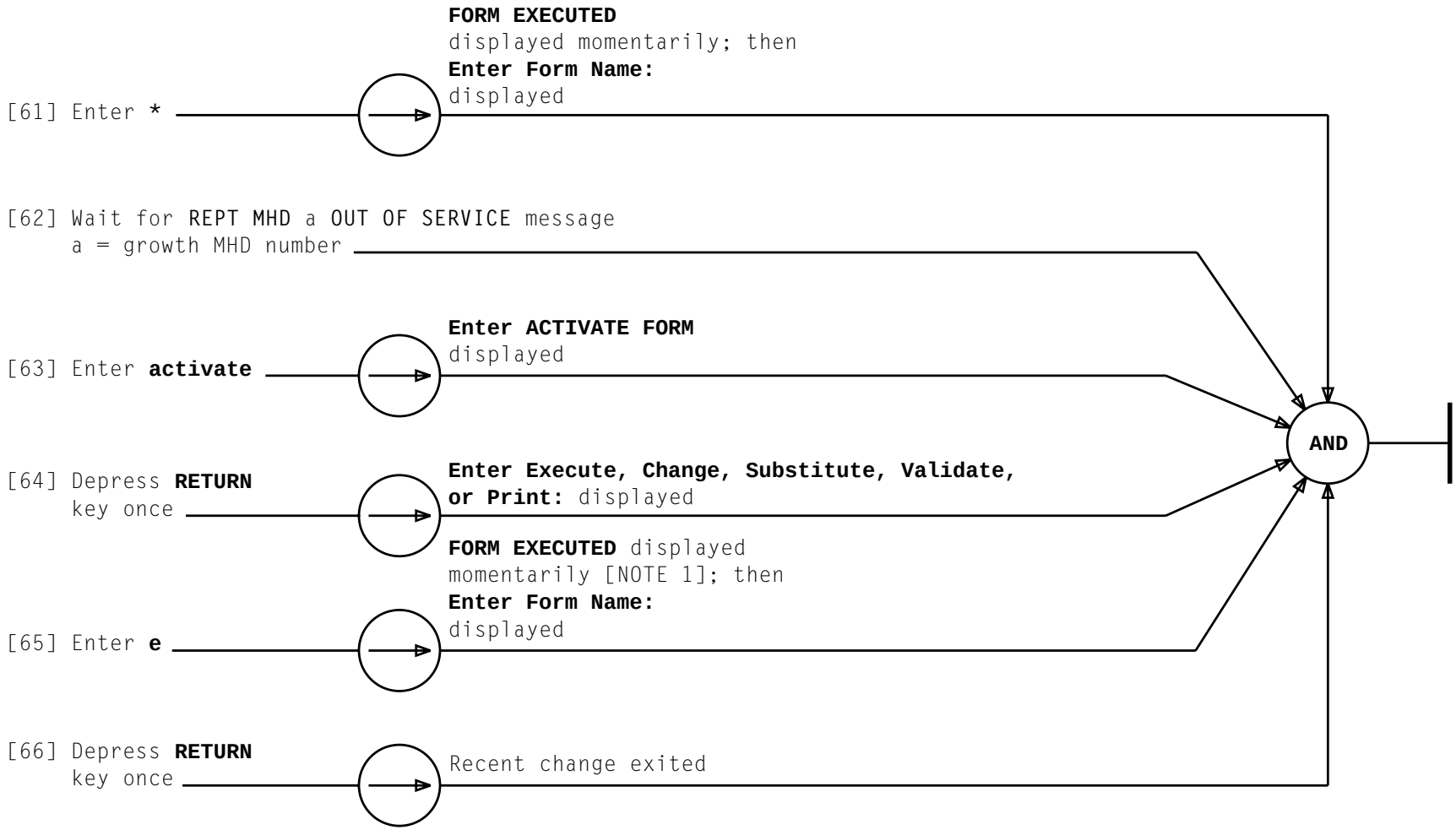
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



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

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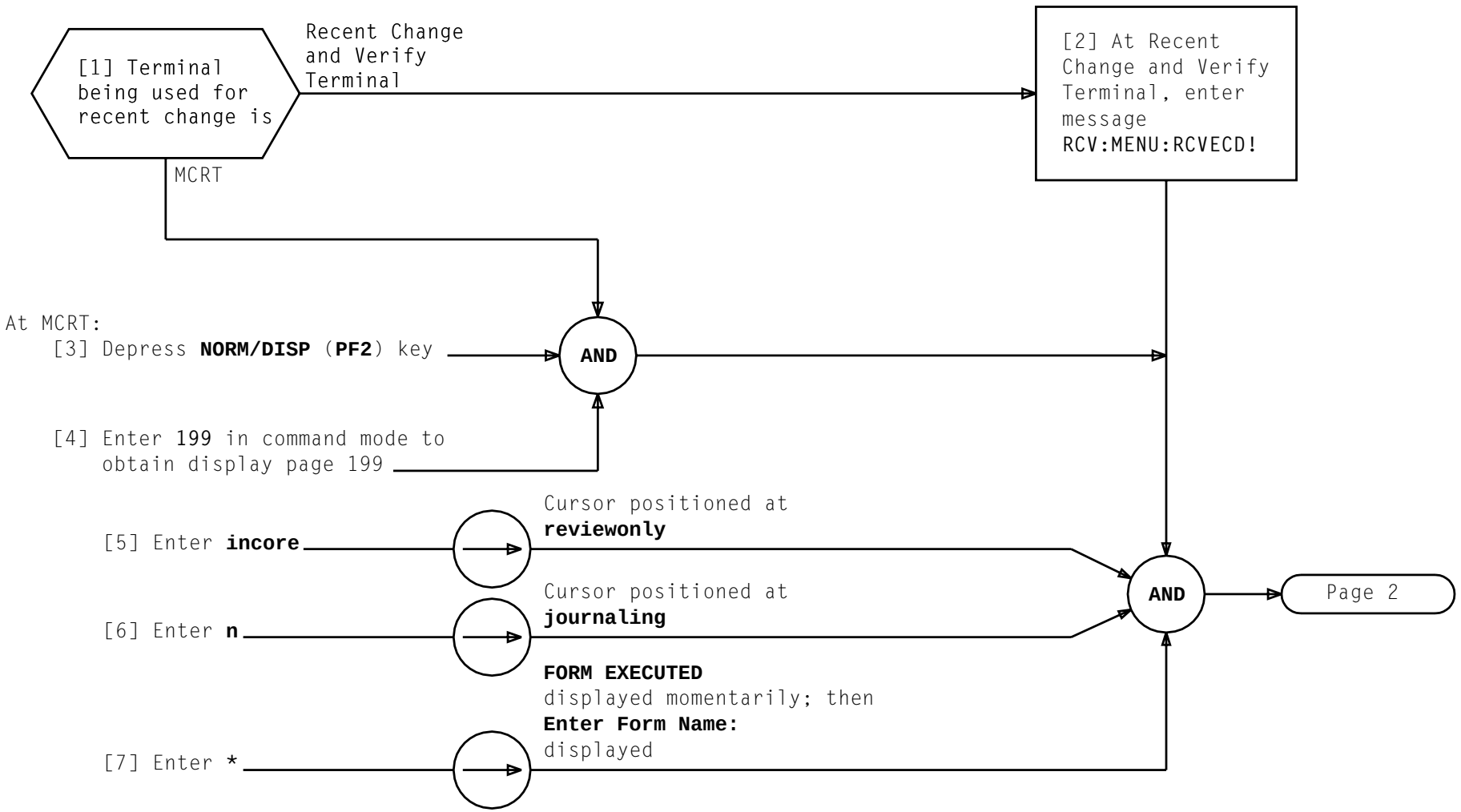
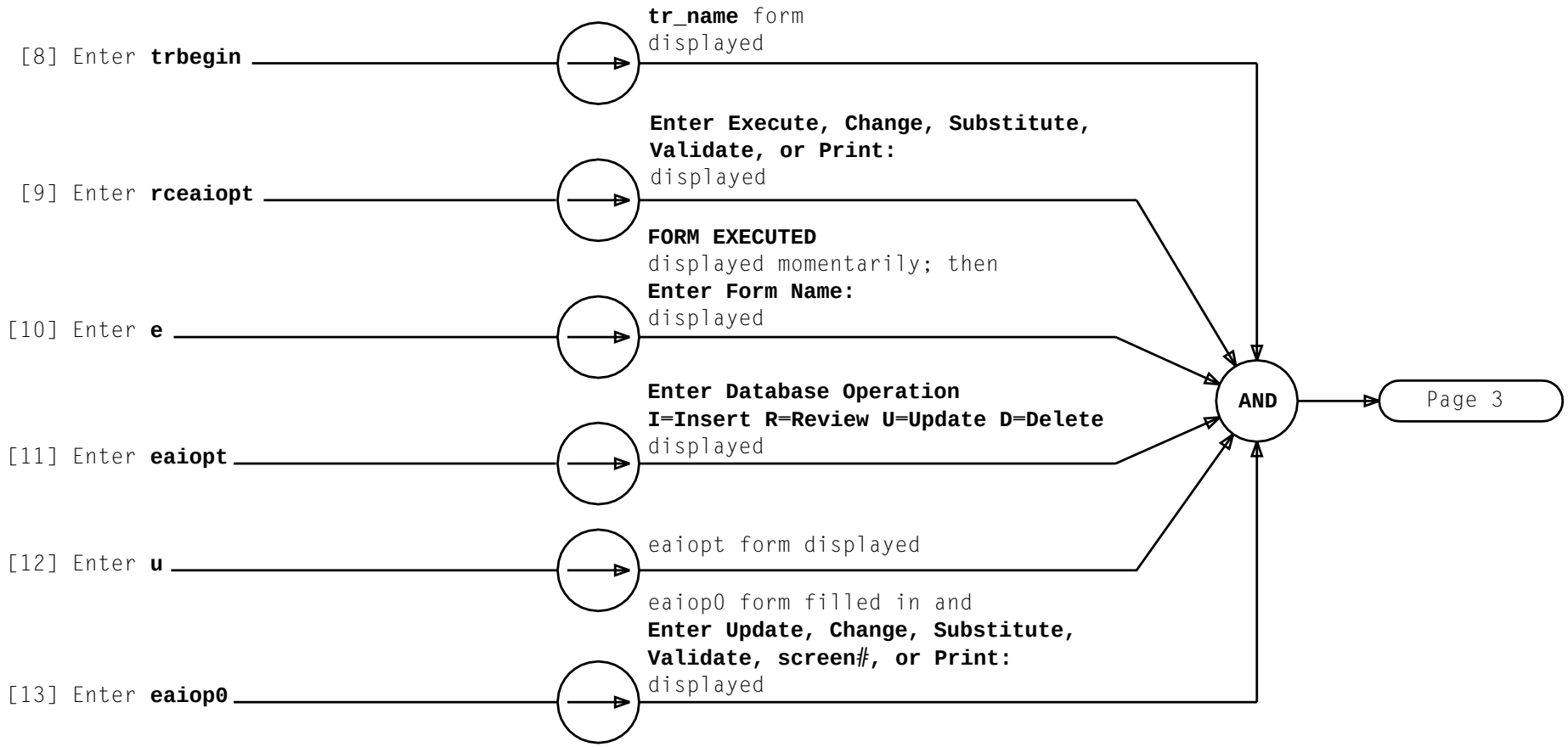
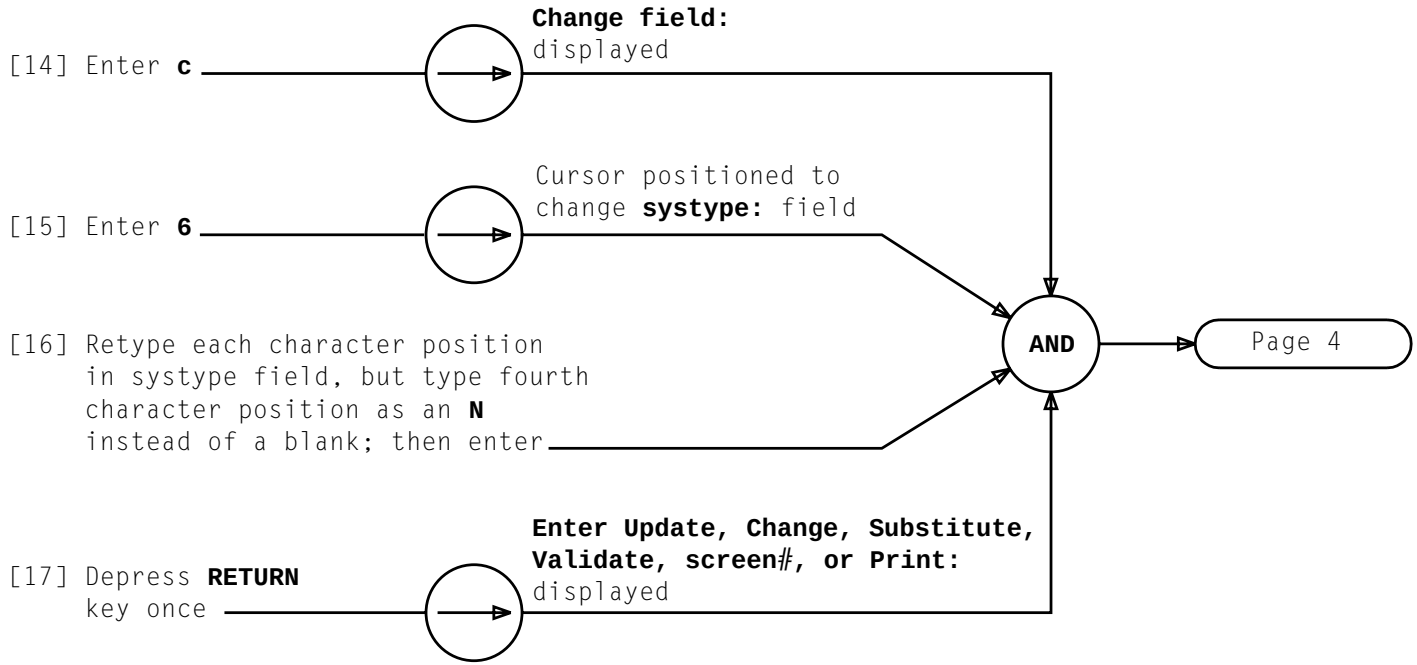
RECENT CHANGE GROWTH MHD FROM NONESSENTIAL TO NOMANRMV



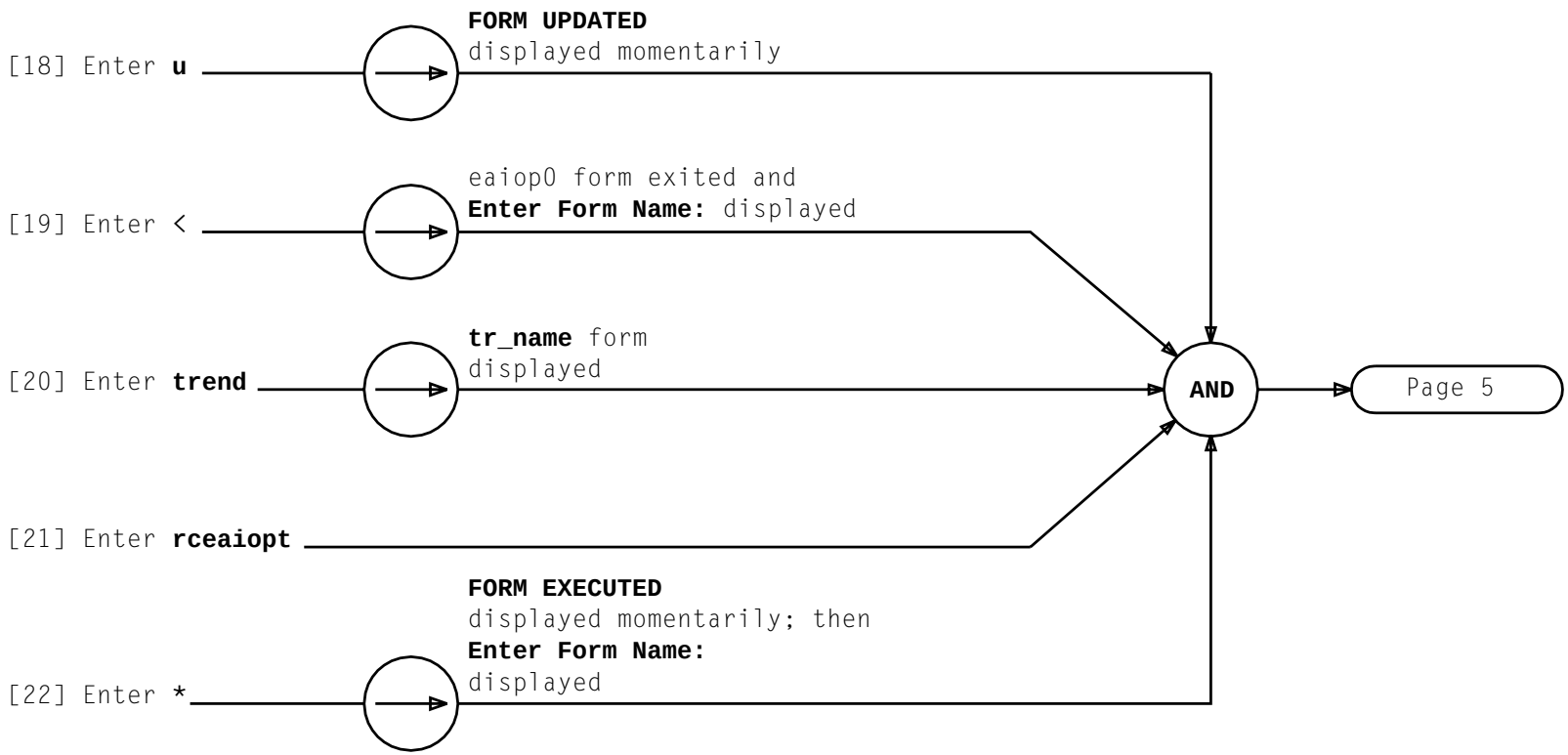
INITIALIZE NEMOS FEATURE AND COPY INCORE ECD TO DISK



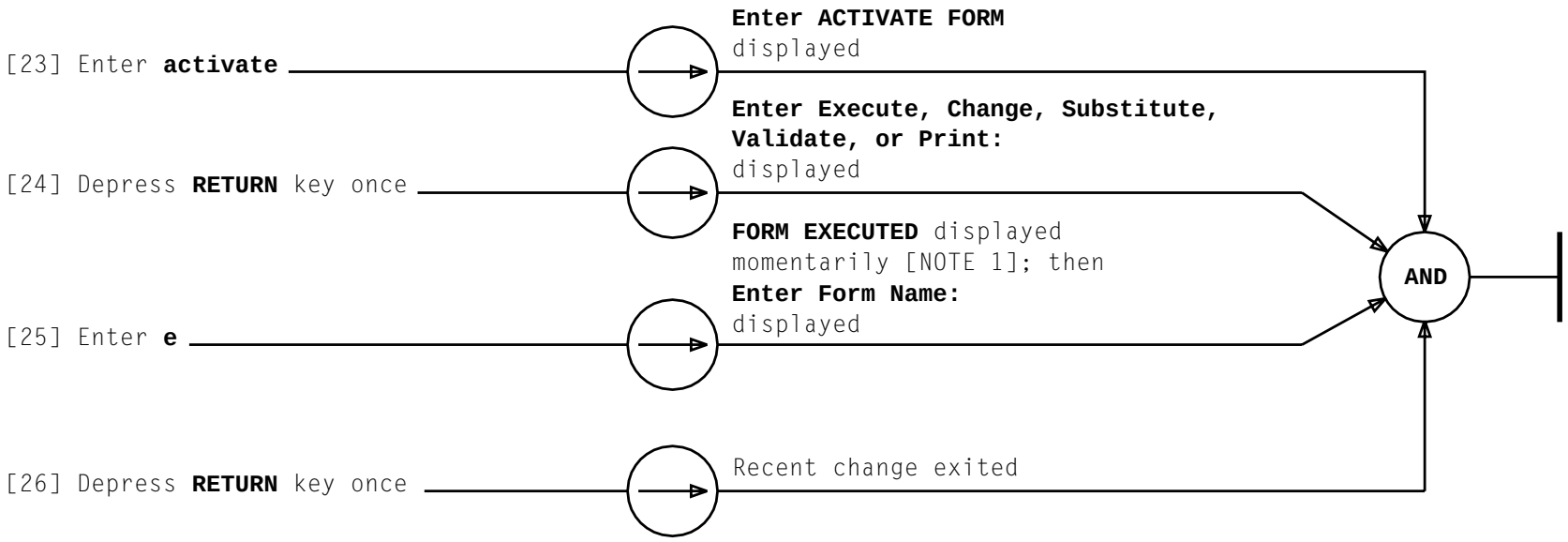
INITIALIZE NEMOS FEATURE AND COPY INCORE ECD TO DISK



INITIALIZE NEMOS FEATURE AND COPY INCORE ECD TO DISK

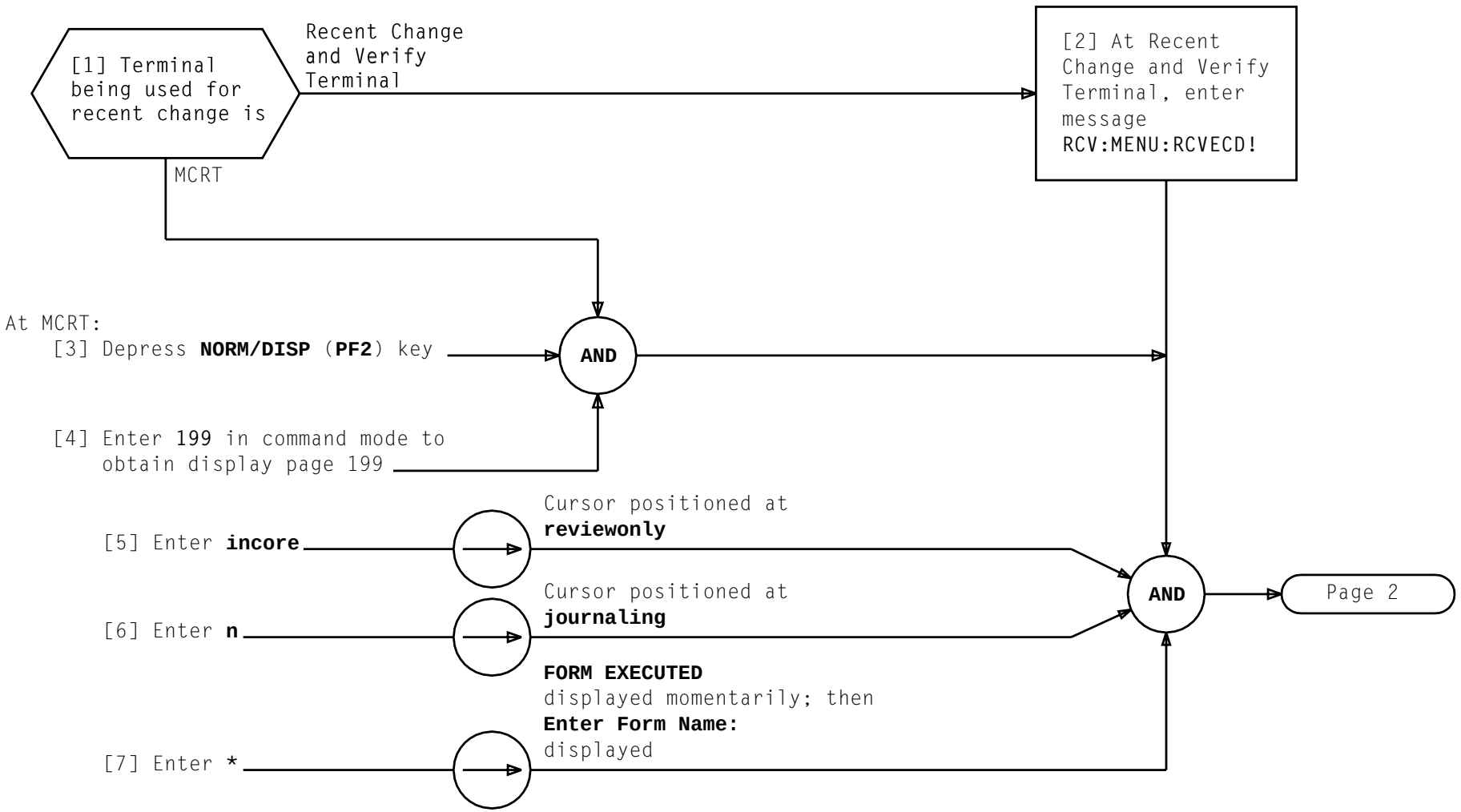


INITIALIZE NEMOS FEATURE AND COPY INCORE ECD TO DISK

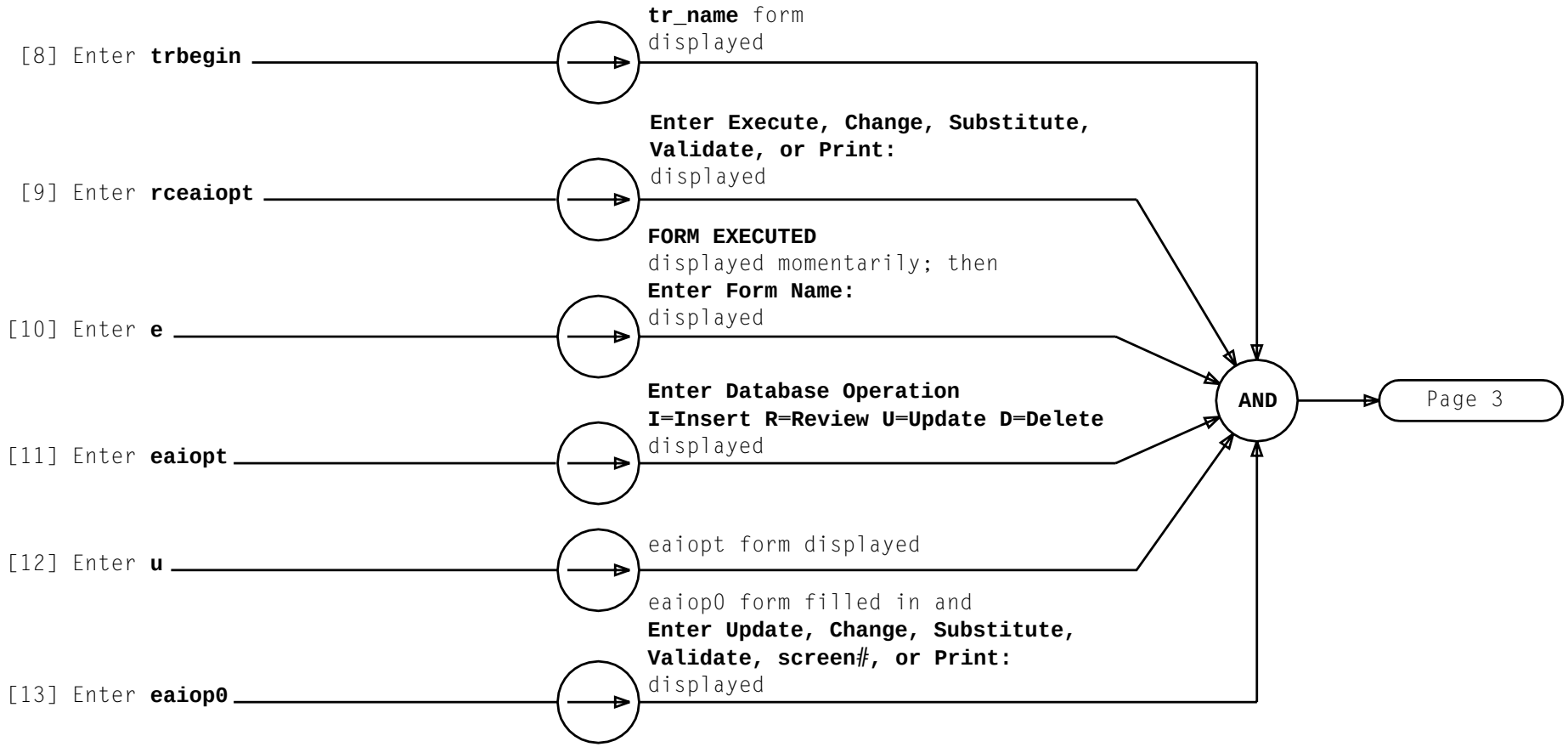


NOTE 1
It may take several minutes before **FORM EXECUTED** is displayed

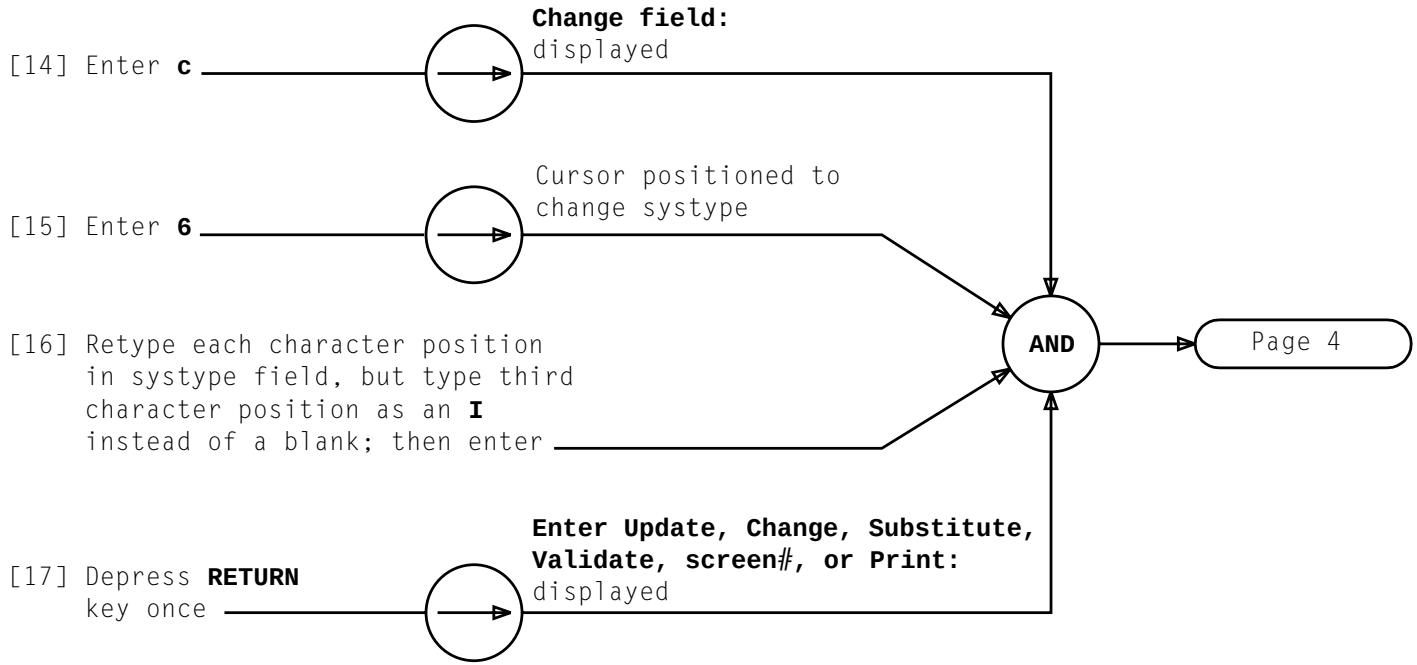
INITIALIZE NEMOS FEATURE AND COPY INCORE ECD TO DISK



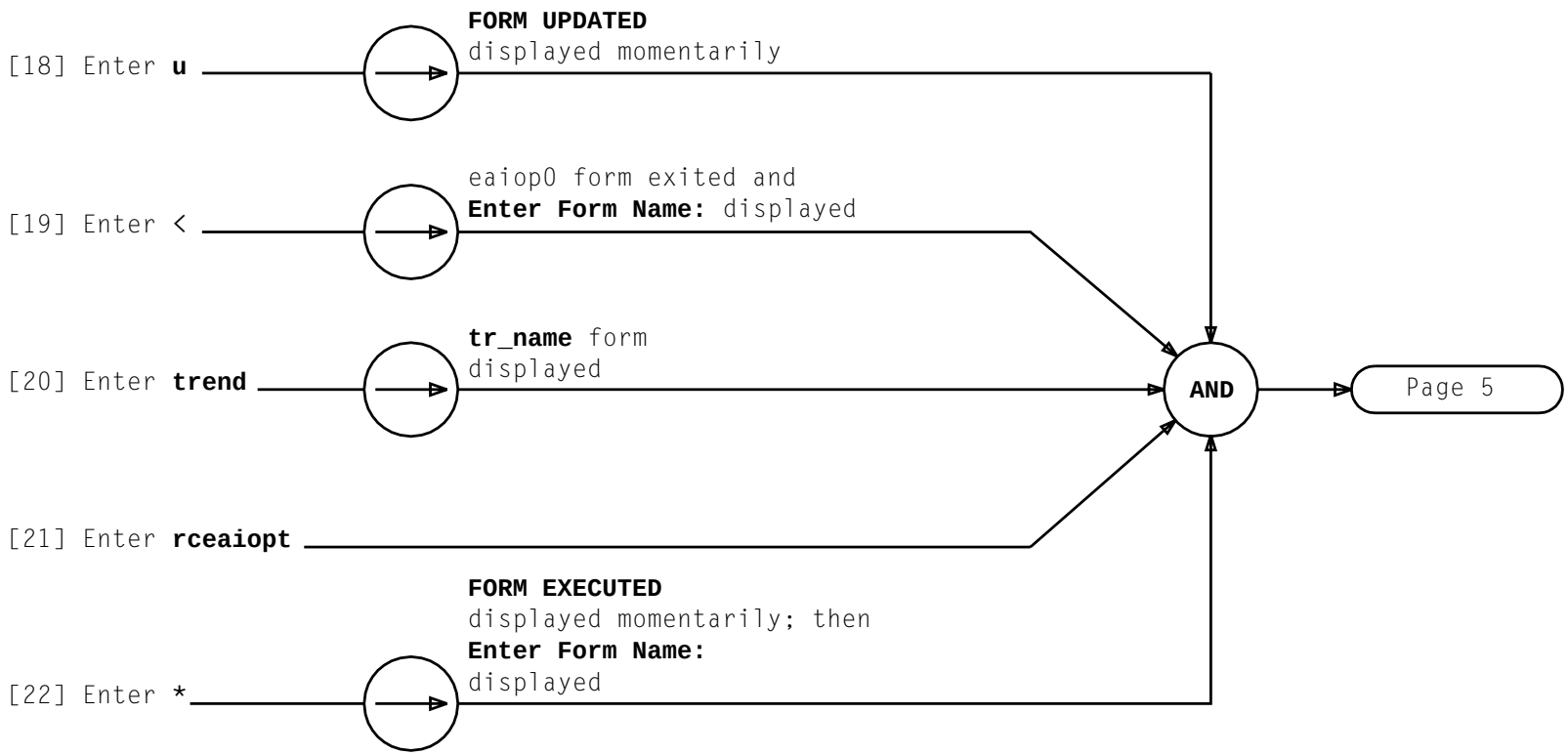
INITIALIZE ICDR FEATURE AND COPY INCORE ECD TO DISK



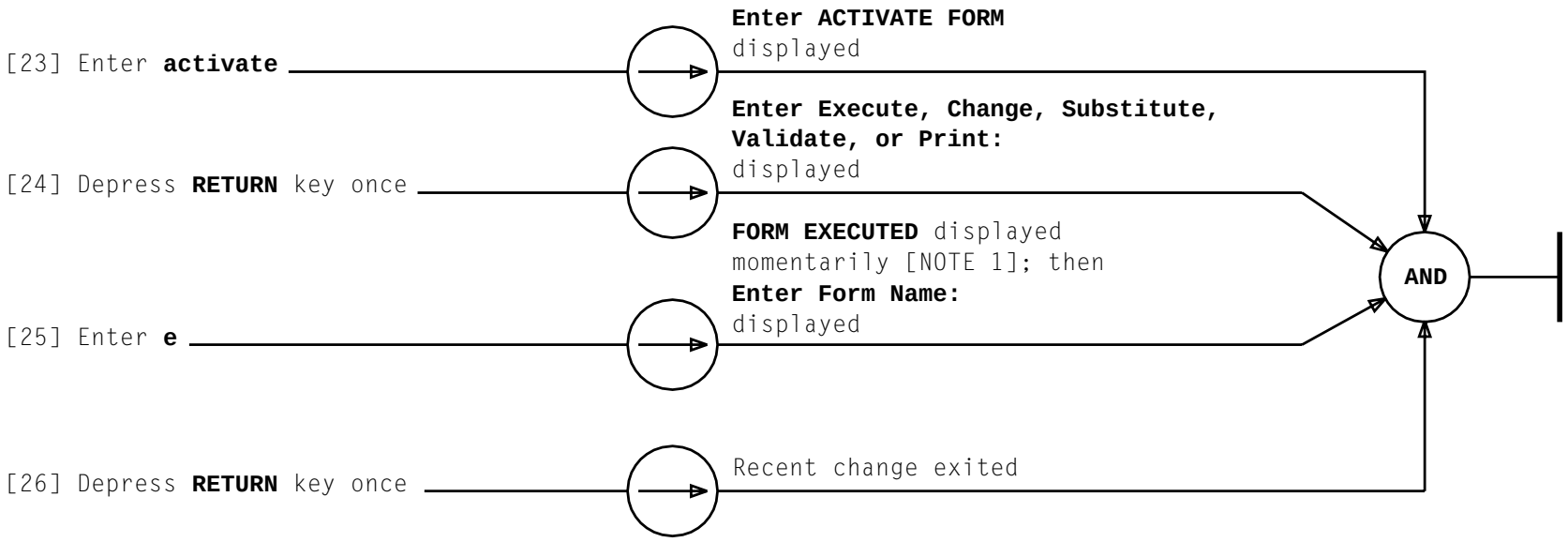
INITIALIZE ICDR FEATURE AND COPY INCORE ECD TO DISK



INITIALIZE ICDR FEATURE AND COPY INCORE ECD TO DISK



INITIALIZE ICDR FEATURE AND COPY INCORE ECD TO DISK

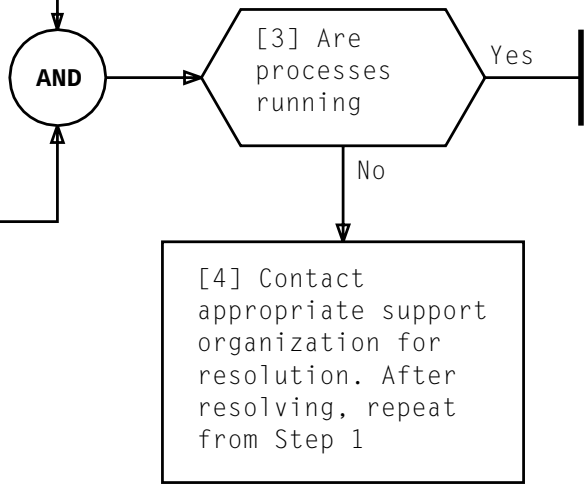


NOTE 1
It may take several minutes before **FORM EXECUTED** is displayed

INITIALIZE ICDR FEATURE AND COPY INCORE ECD TO DISK

[1] At MCRT, enter message
OP:AIM;ALL!

[2] See NOTE 1. Locate ammonic, amdwin, amforma, and amarcvr in printout and verify that LIVE is listed in STATE column for each ICDR process [FIG. 1]



PROCESSES

ID	NAME	INCAR	STATE	FSTAT	PROCESSID	UTILID	RST	LAST CREAT
X'86	ammonic	000	LIVE	0 ON	000262225	X'64e	YES	0586799169
X'87	amdwin	000	LIVE	2 ON	047775837	X'66a	YES	0587245888
X'88	amdwoc	000	LIVE	0 ON	000000042	X'608	YES	0586799045
X'89	amdwic	000	LIVE	0 ON	000065572	X'64d	YES	0586799043
X'8a	amforma	000	LIVE	0 ON	000065568	X'625	YES	0586799040
X'8b	aminit	001	DEAD	0 ON	000000000	X'6ef	NO	0586799019
X'8c	amarcvr	000	LIVE	0 ON	000000030	X'624	YES	0586799018
X'8d	dlncm	000	LIVE	4 ON	000065563	X'6f3	YES	0586799016
X'8e	ringini	000	LIVE	4 ON	000131097	X'6ab	YES	0586799013
X'8f	ksdump	002	DEAD	0 ON	000000000	X'515	NO	0587233717

FIG. 1 – Sample of Partial AIMCHK STATUS Printout

NOTE 1
Process is not running if DEAD is listed in STATE column

VERIFY ICDR PROCESS IS STARTED UP

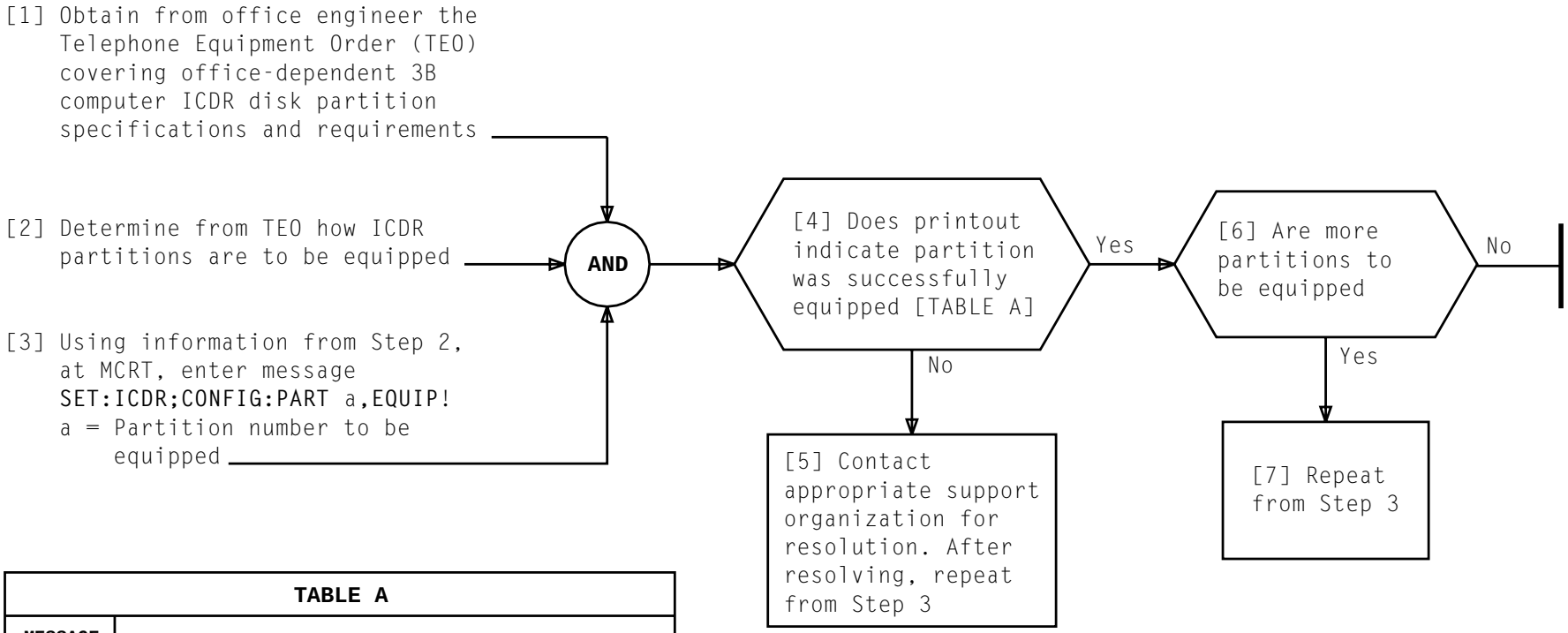
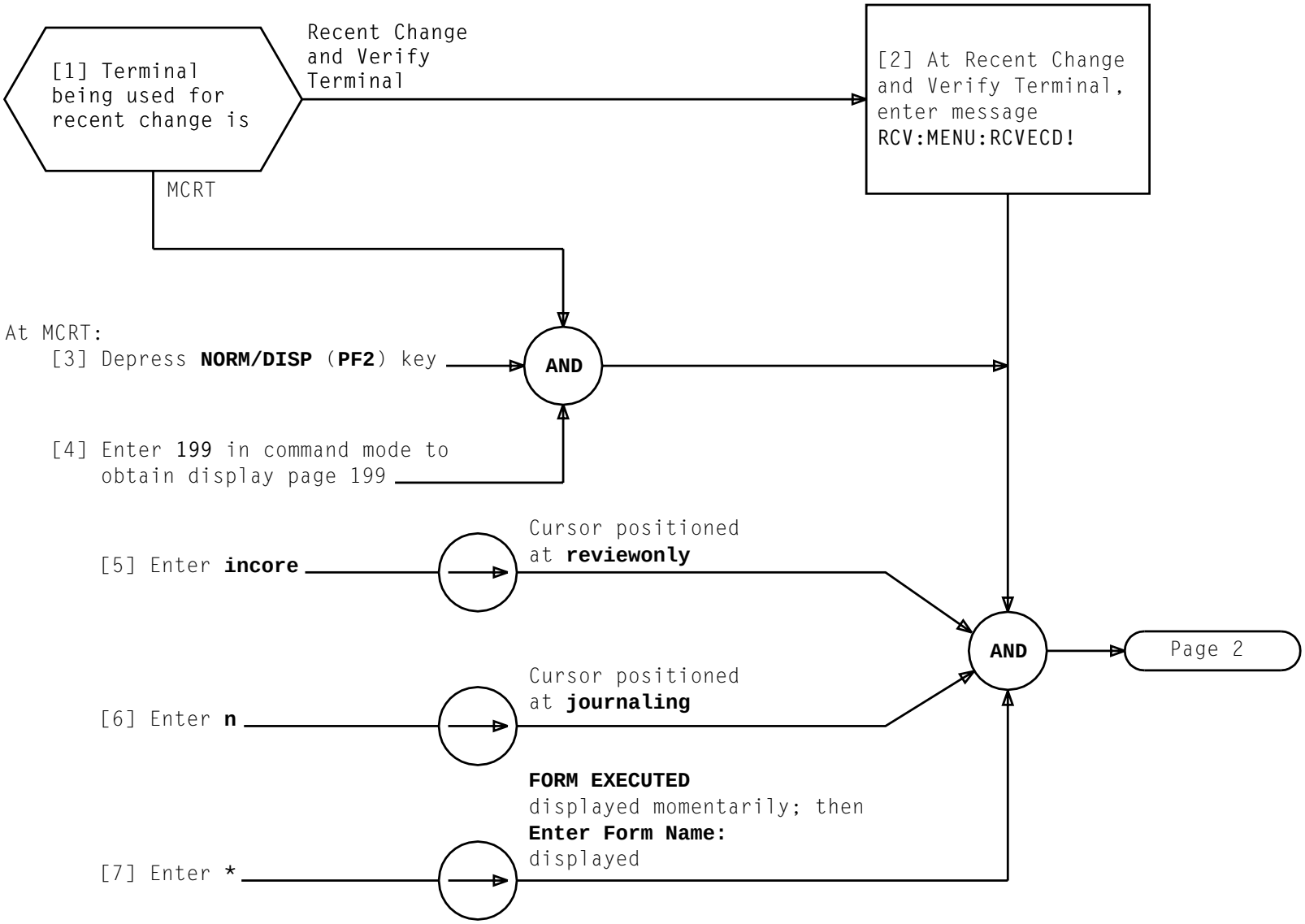


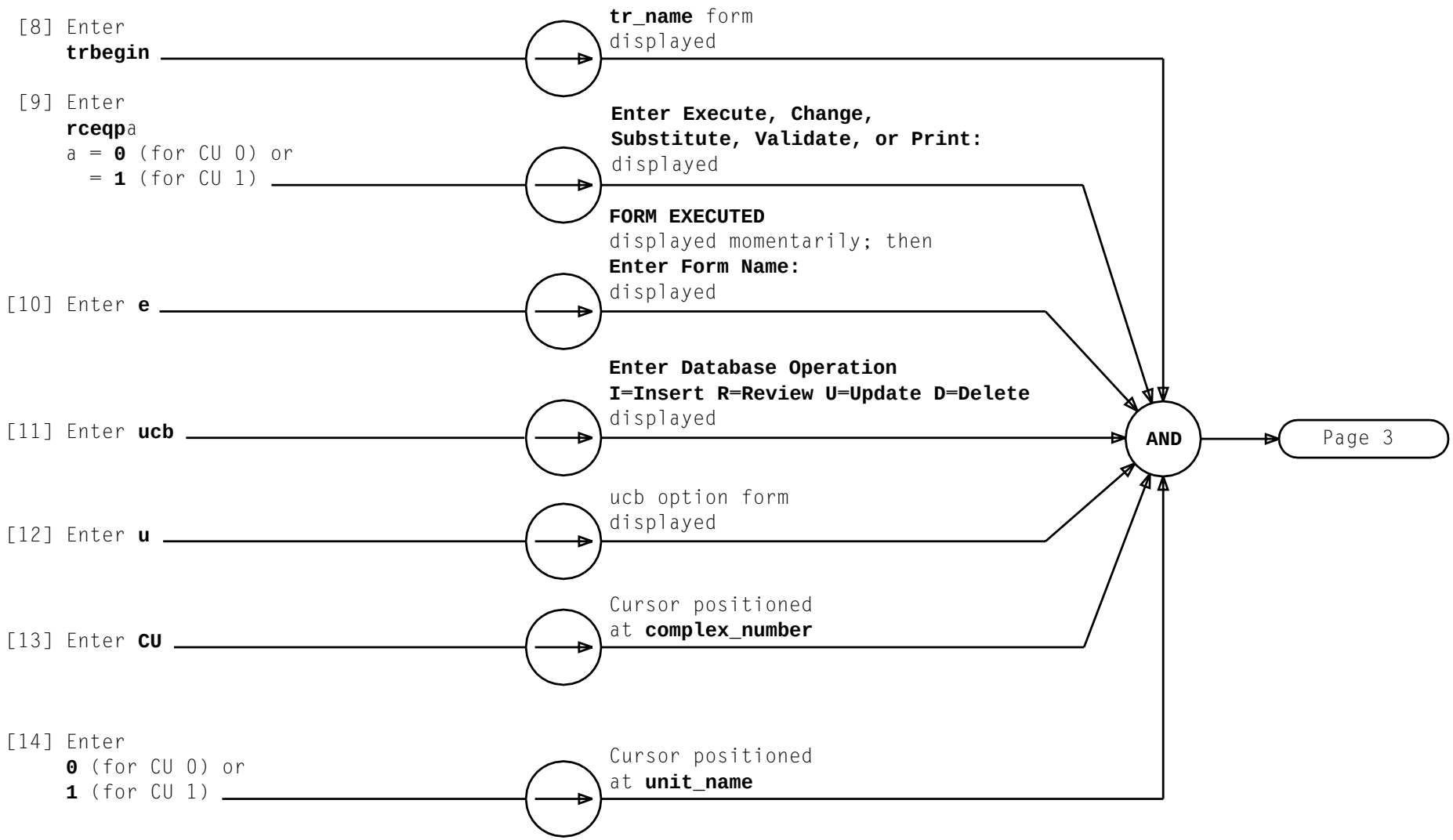
TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR CONFIG FILE NUMBER OF EQUIPPED PARTITIONS a TOTAL NUMBER OF ICDR BLOCKS b c d e a = Number of ICDR partitions equipped b = Number of ICDR blocks c = ICDR partition number d = ICDR partition file name e = Number of ICDR blocks for this partition

EQUIP ICDR PARTITIONS ON 3B COMPUTER DISKS



RECENT CHANGE MAIN STORE MEMORY EQUIPAGE



RECENT CHANGE MAIN STORE MEMORY EQUIPAGE

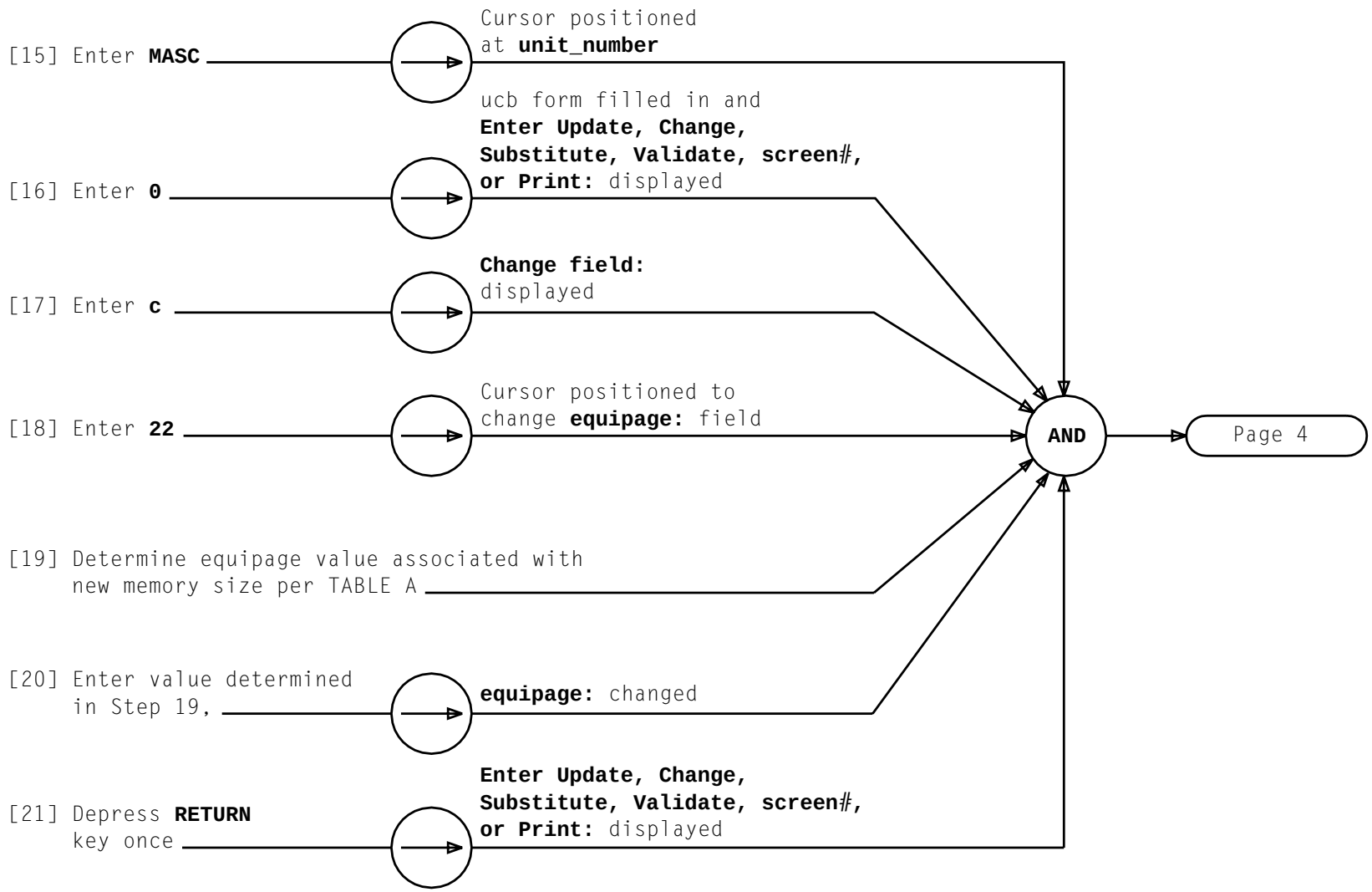
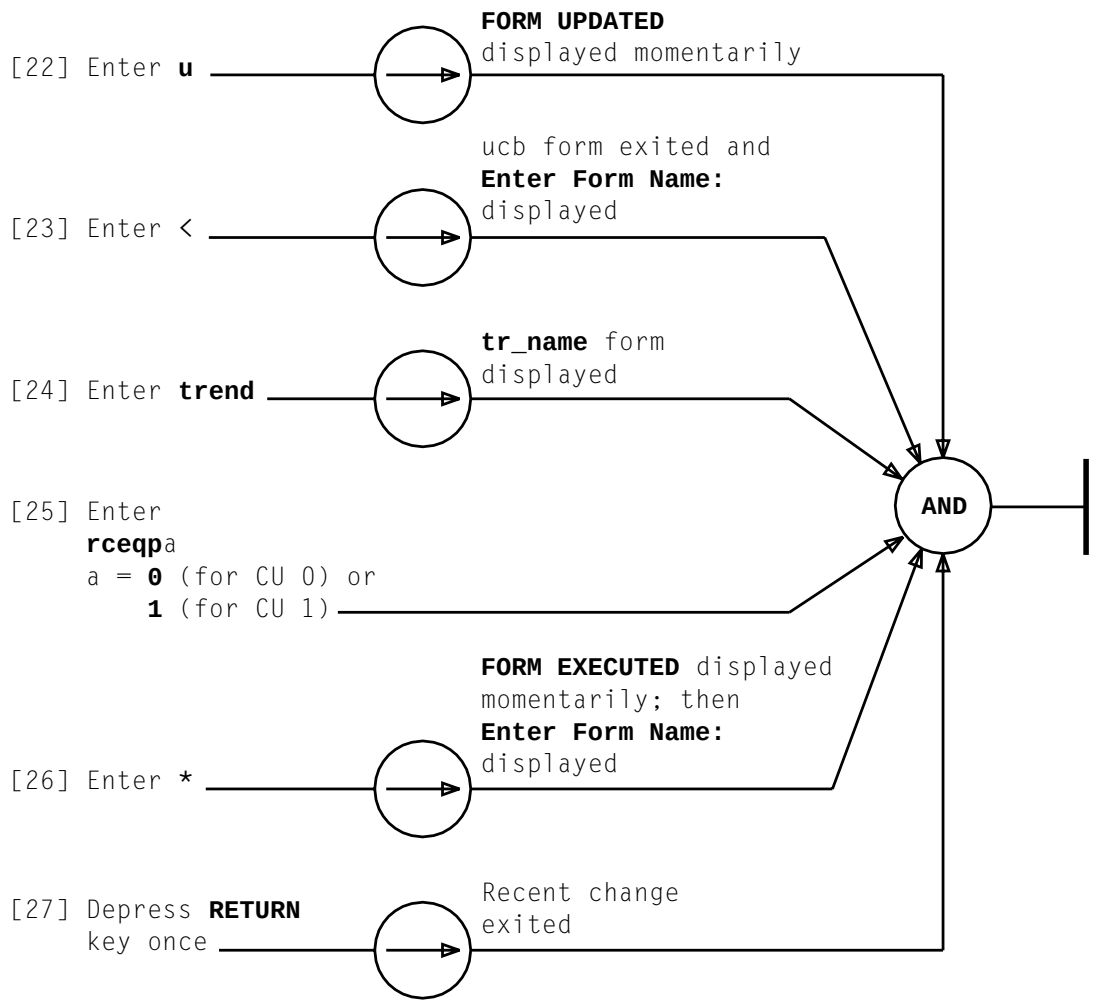


TABLE A	
SIZE	**VALUE**
24MB	**0xfff**
26MB	**0x1fff**
28MB	**0x3fff**
30MB	**0x7fff**
32MB	**0xffff**

RECENT CHANGE MAIN STORE MEMORY EQUIPAGE



RECENT CHANGE MAIN STORE MEMORY EQUIPAGE

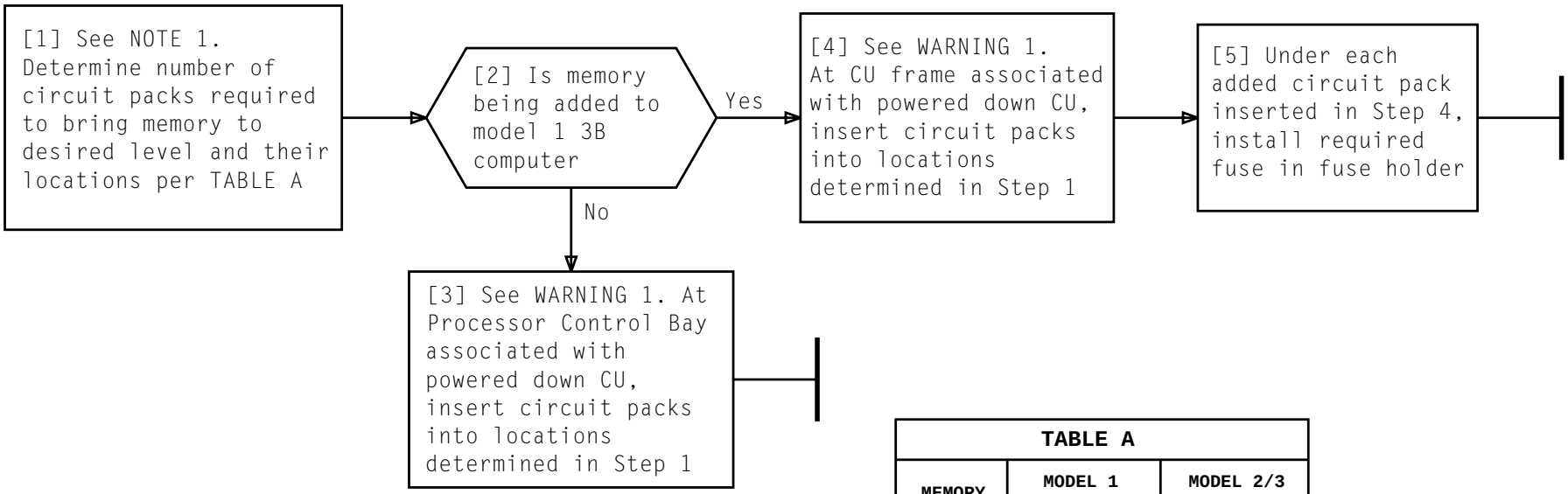


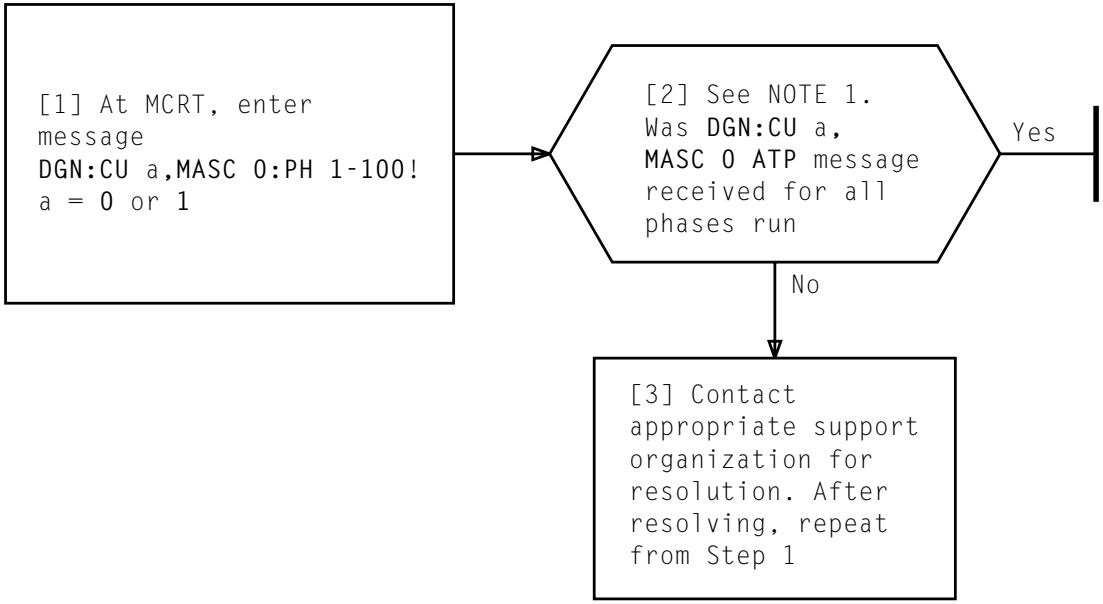
TABLE A

MEMORY SIZE	MODEL 1 TN56 LOCATION	MODEL 2/3 TN56 LOCATION
24MB	56-128	42-138
26MB	56-136	42-144
28MB	56-144	42-150
30MB	56-152	42-156
32MB	56-160	42-162

NOTE 1
All locations up to desired memory level must have appropriate memory circuit packs installed

WARNING 1
An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling

INSTALL TN56 MEMORY CIRCUIT PACKS AND FUSES AS REQUIRED



DIAGNOSE CONTROL UNIT

NOTE 1
Diagnostics will take approximately 20 minutes.

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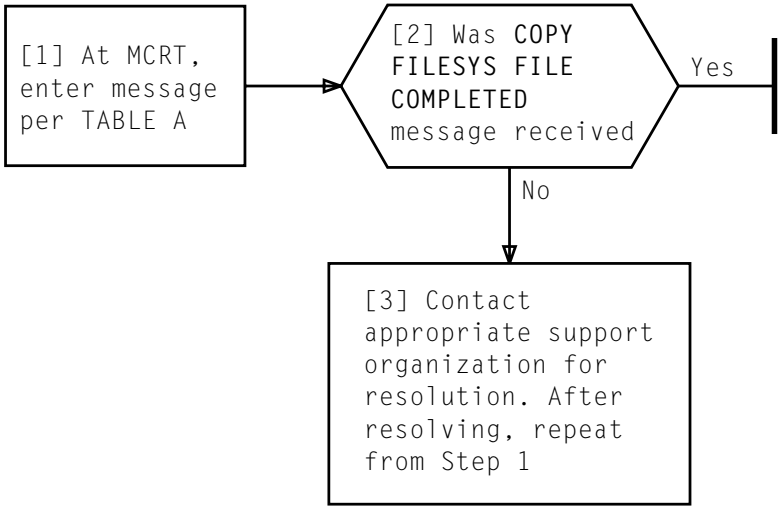
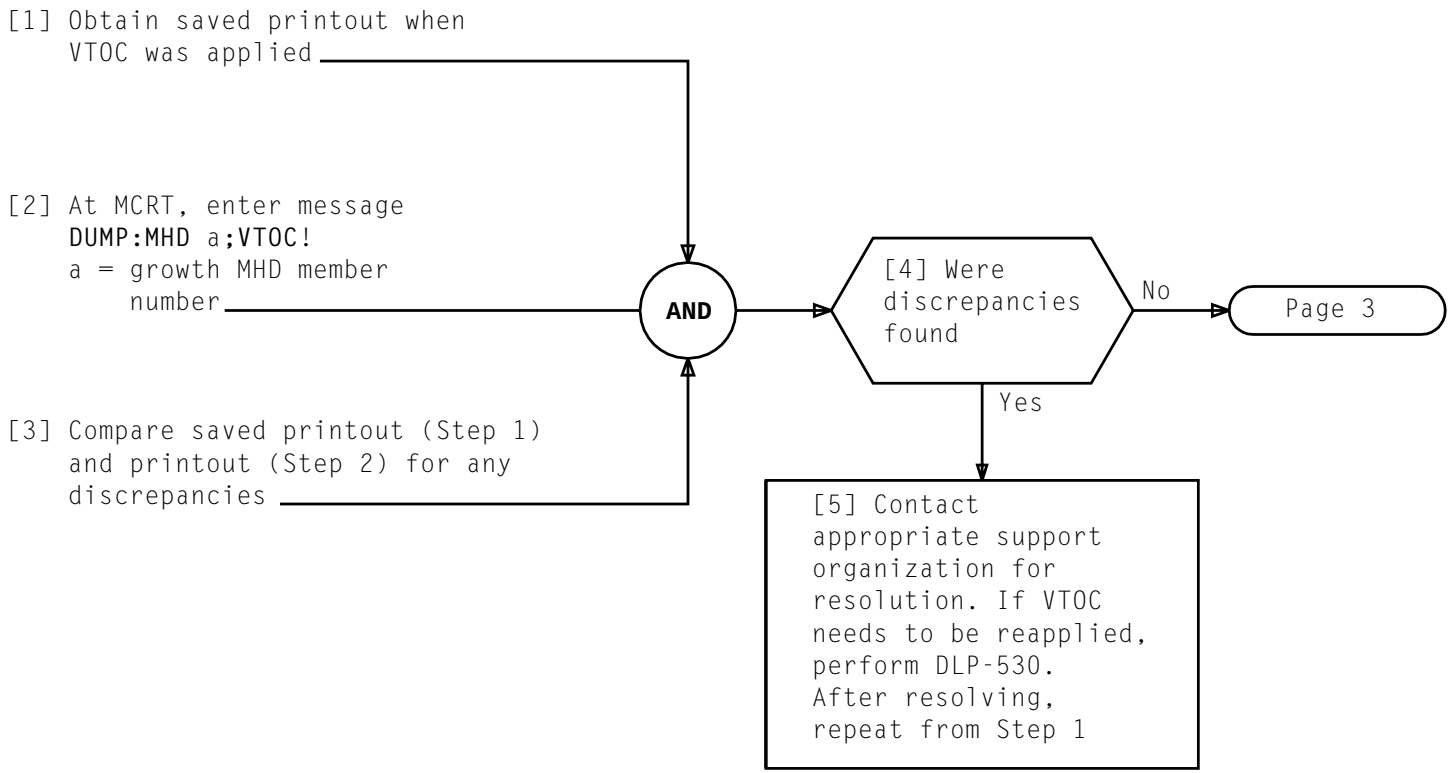


TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	COPY:FILESYS:FILE,SRC"/amafiles/config.in",DEST"/amabfiles/config.in"!

COPY ICDR FILES



EQUIP AMA PARTITION(S) ON GROWTH MHD

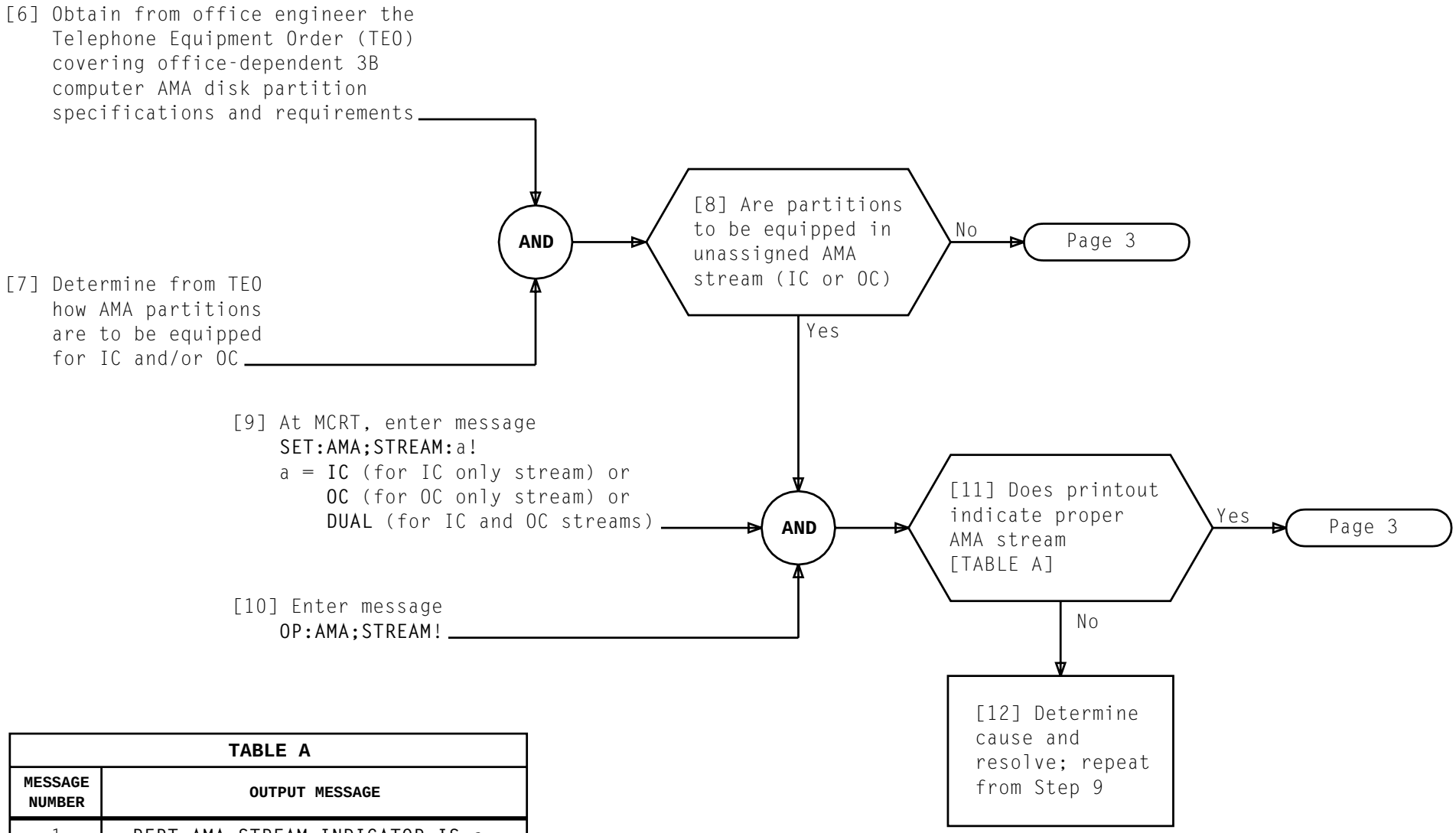


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA STREAM INDICATOR IS a a = IC (for IC only stream) or OC (for OC only stream) or DUAL (for IC and OC streams)

EQUIP AMA PARTITION(S) ON GROWTH MHD

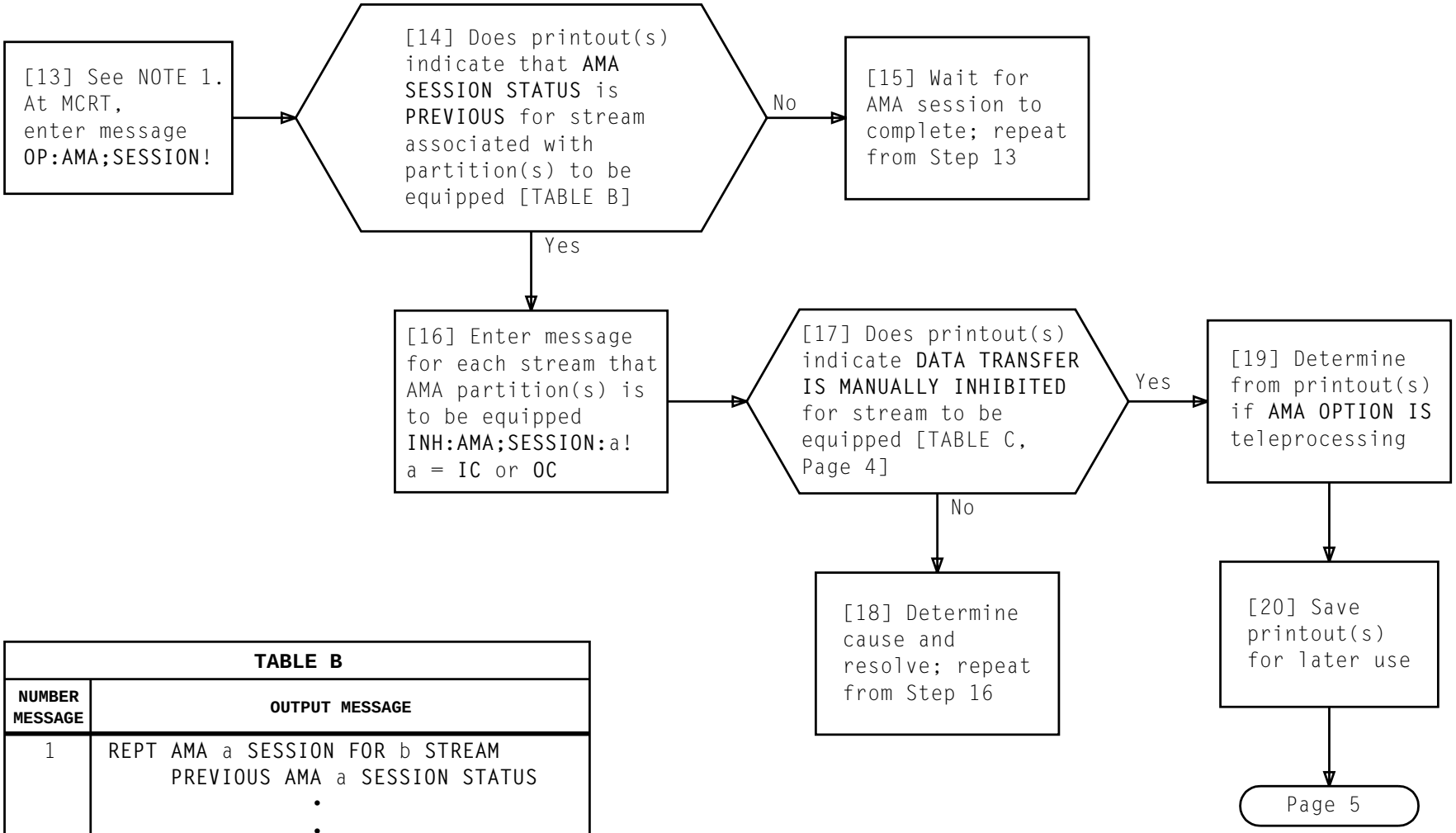


TABLE B	
NUMBER MESSAGE	**OUTPUT MESSAGE**
1	REPT AMA a SESSION FOR b STREAM PREVIOUS AMA a SESSION STATUS • • • a = TAPE or TELEPROCESSING b = IC or OC

NOTE 1
Printout is received for each equipped AMA stream

EQUIP AMA PARTITION(S) ON GROWTH MHD

TABLE C	
MESSAGE NUMBER	**OUTPUT MESSAGE**
1	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
2	Message 1 is received for each stream in office

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

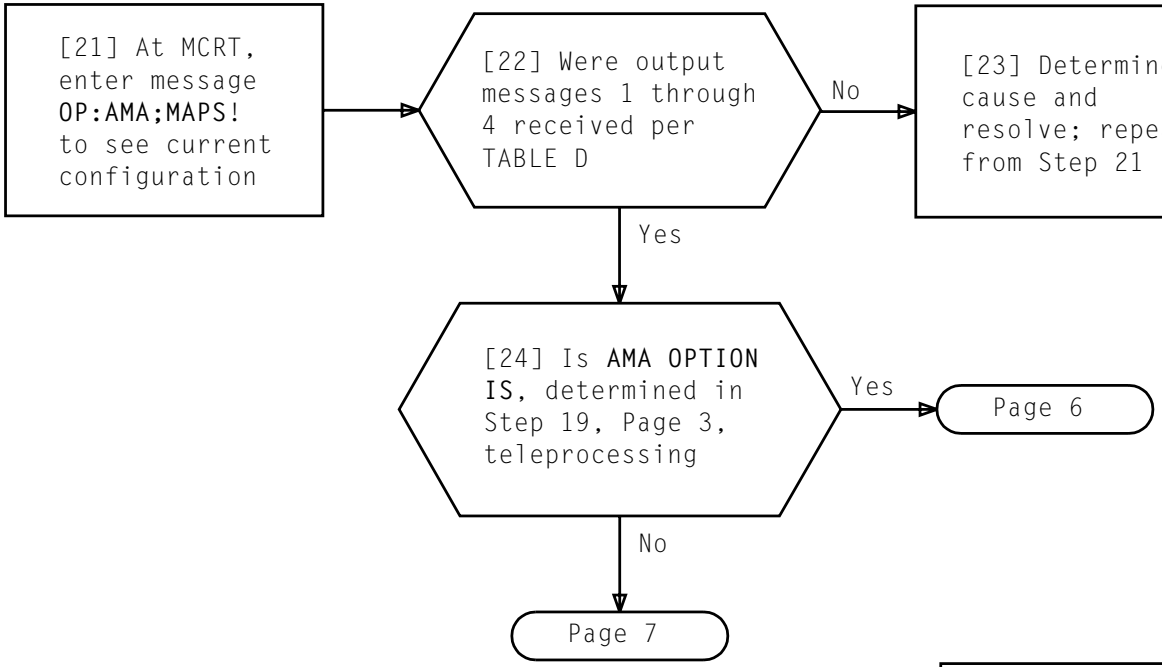


TABLE D	
MESSAGE NUMBER	**OUTPUT MESSAGE**
1	REPT AMA DISK MAPS FOR a STREAM WRITE PARTITION _ READ PARTITION _ a = IC or OC
2	PARTITION b DISK MAP FPO: _____ LPO: _____ FPS: _____ LPS: _____ FSO: _____ LSO: _____ FSS: _____ LSS: _____ FBO: _____ LBO: _____ FBS: _____ LBS: _____ b = Equipped partition number
3	Message 2 is repeated for each equipped partition
4	Messages 1 through 3 are repeated for each stream in office

EQUIP AMA PARTITION(S) ON GROWTH MHD

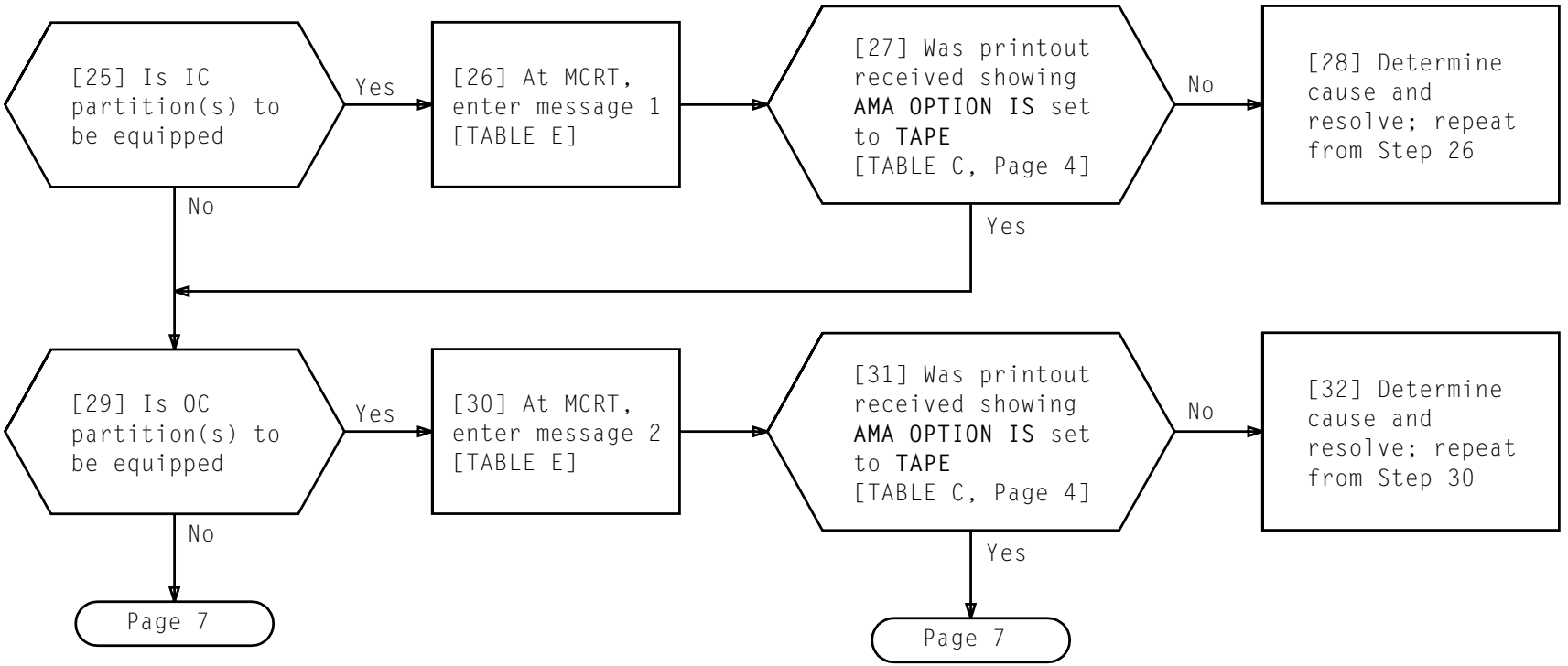


TABLE E

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;IC:OPTION TAPE!
2	SET:AMA;CONTROL;OC:OPTION TAPE!

EQUIP AMA PARTITION(S) ON GROWTH MHD

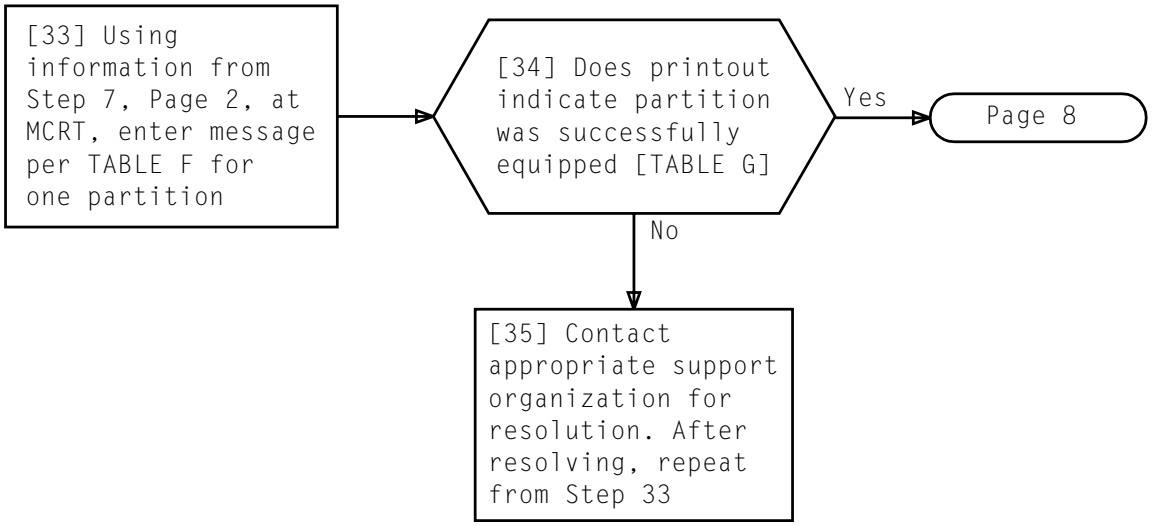


TABLE F

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONFIG;a:PART b,EQUIP! a = IC or OC b = Partition number to be equipped

TABLE G

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA CONFIG FILE FOR a STREAM NUMBER OF EQUIPPED PARTITIONS b TOTAL NUMBER OF AMA BLOCKS c d e f a = IC or OC b = Number of AMA partitions equipped for this stream c = Number of AMA blocks for this stream d = AMA partition number e = AMA partition file name f = Number of AMA blocks for this partition

EQUIP AMA PARTITION(S) ON GROWTH MHD

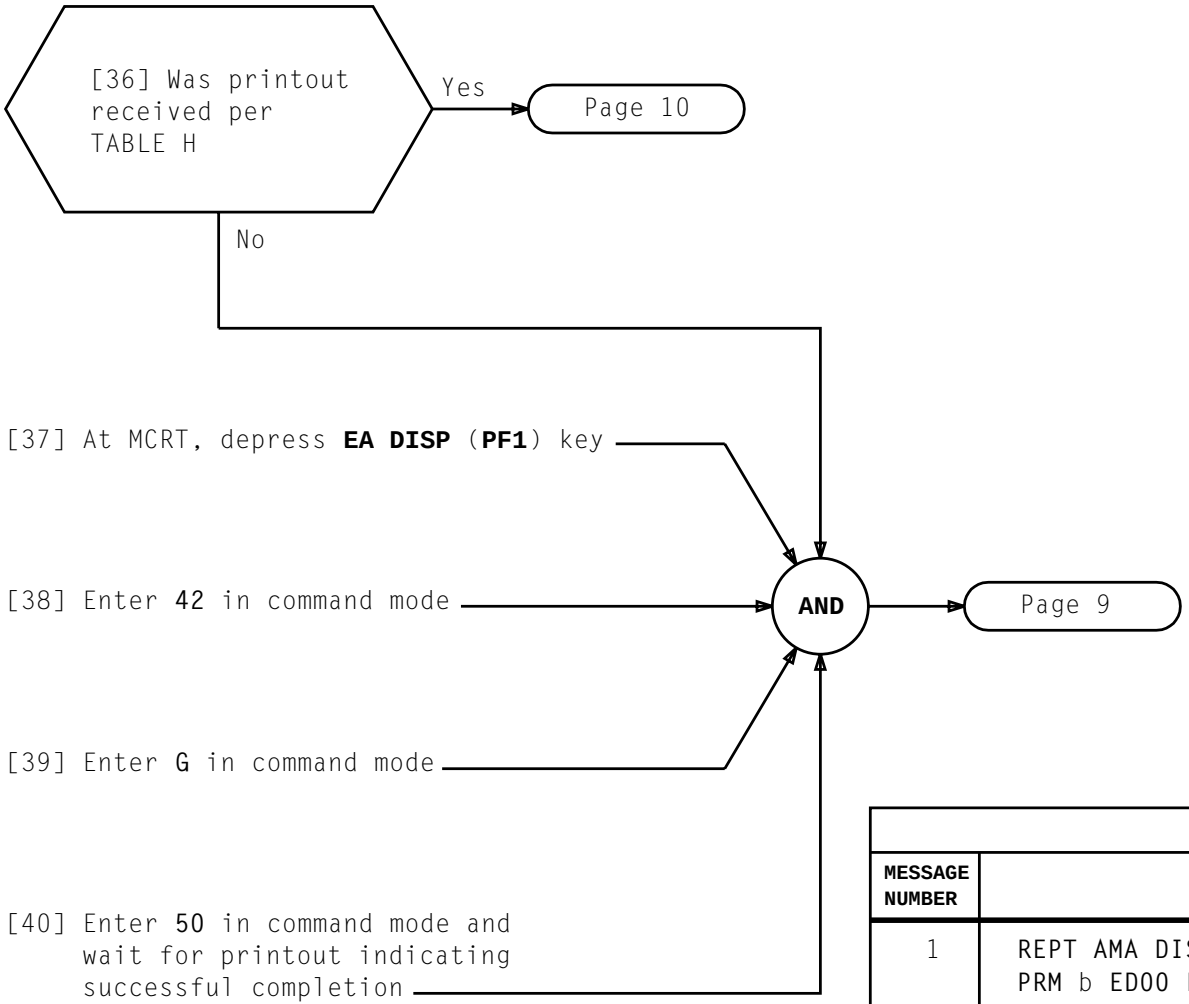
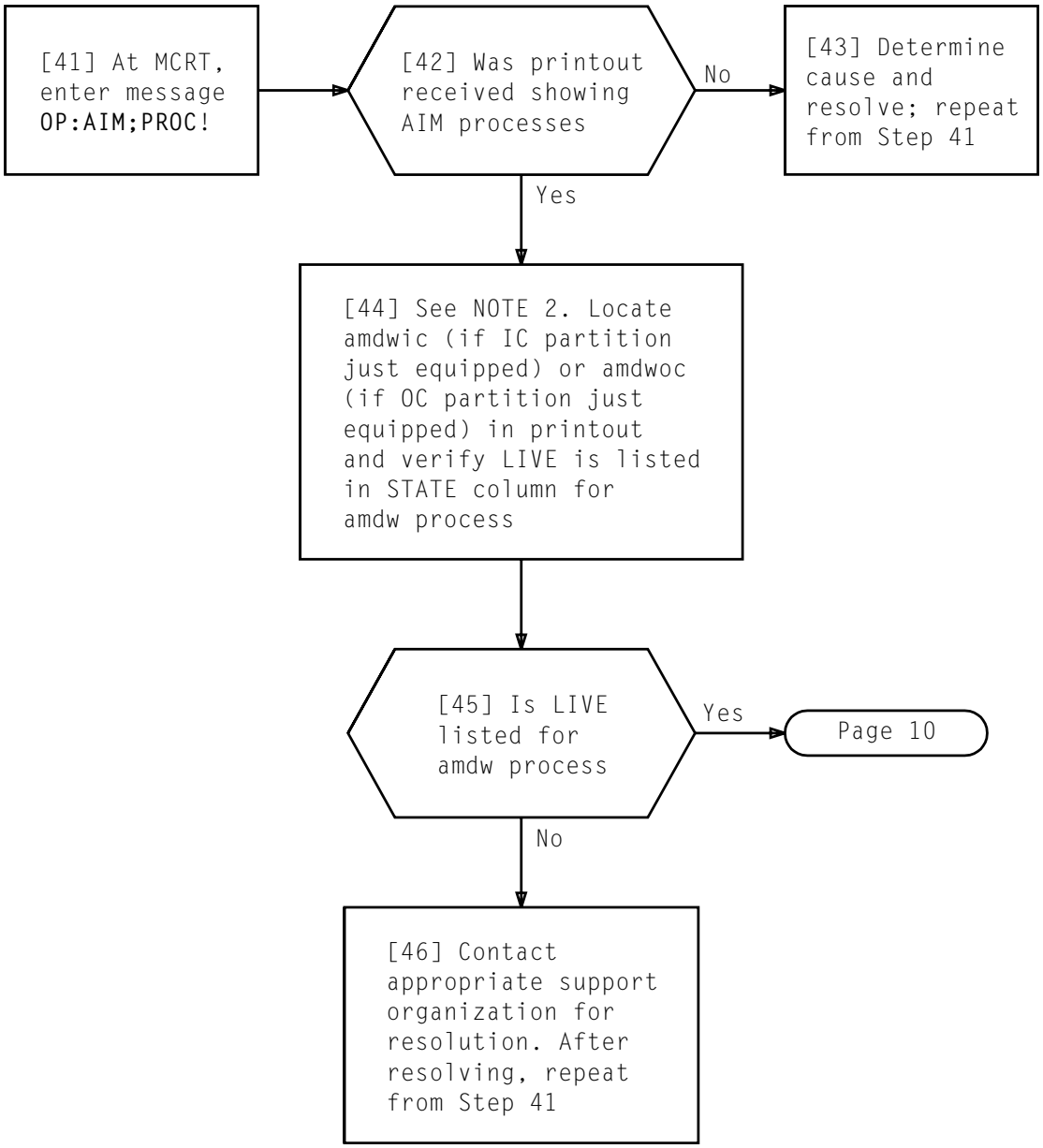


TABLE H

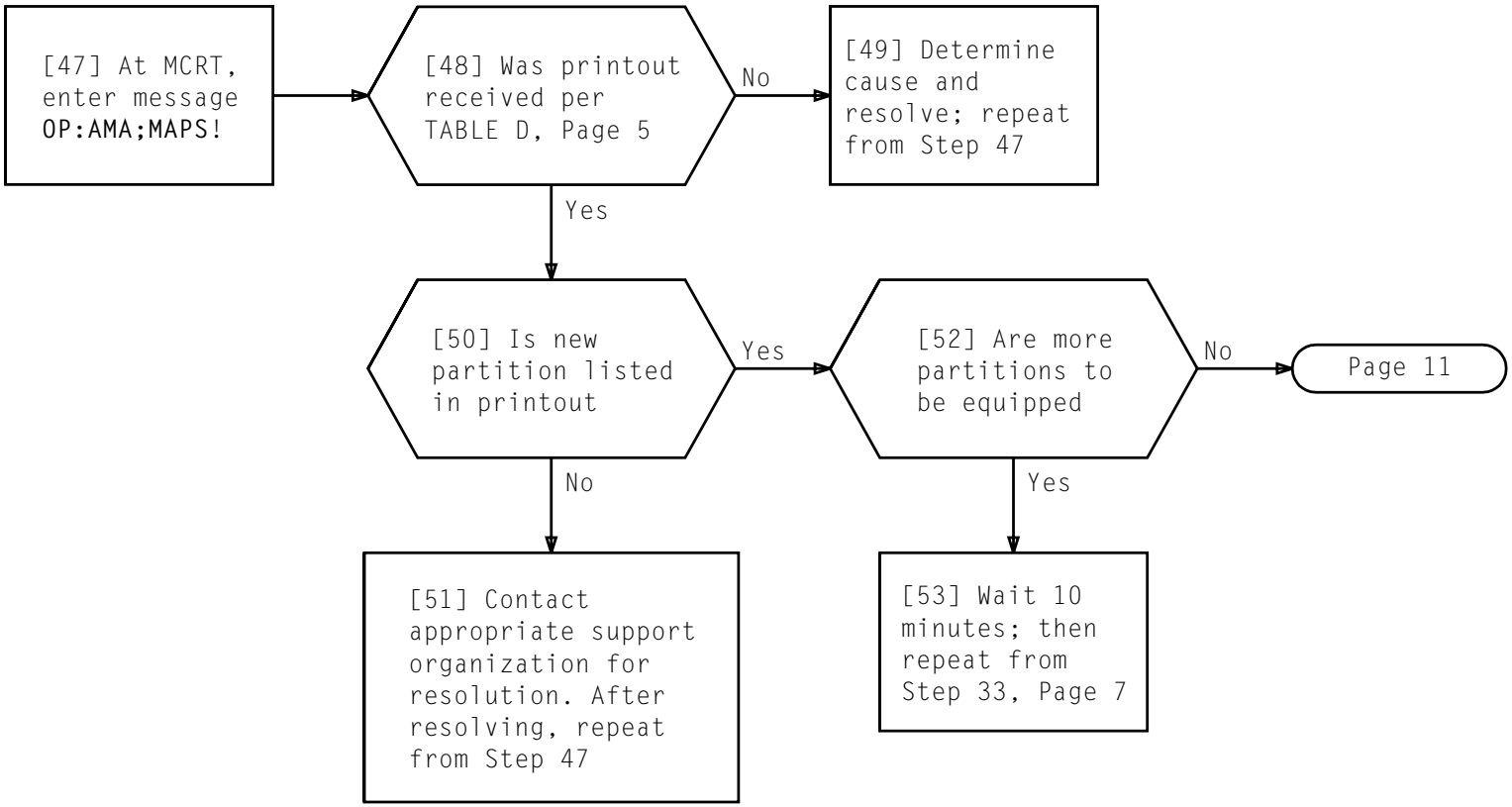
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA DISK WRITER FOR a STREAM TERMINATION CODE 2 PRM b ED00 F308 064D 405F 79 C0 00 PRM b ED00 F303 064D 4069 79 C0 00 REPT AMA DISK WRITER FOR a STREAM INITIALIZATION COMPLETE a = IC or OC b = 0 or 1

EQUIP AMA PARTITION(S) ON GROWTH MHD



NOTE 2
Process is not running if DEAD is listed in STATE column

EQUIP AMA PARTITION(S) ON GROWTH MHD



EQUIP AMA PARTITION(S) ON GROWTH MHD

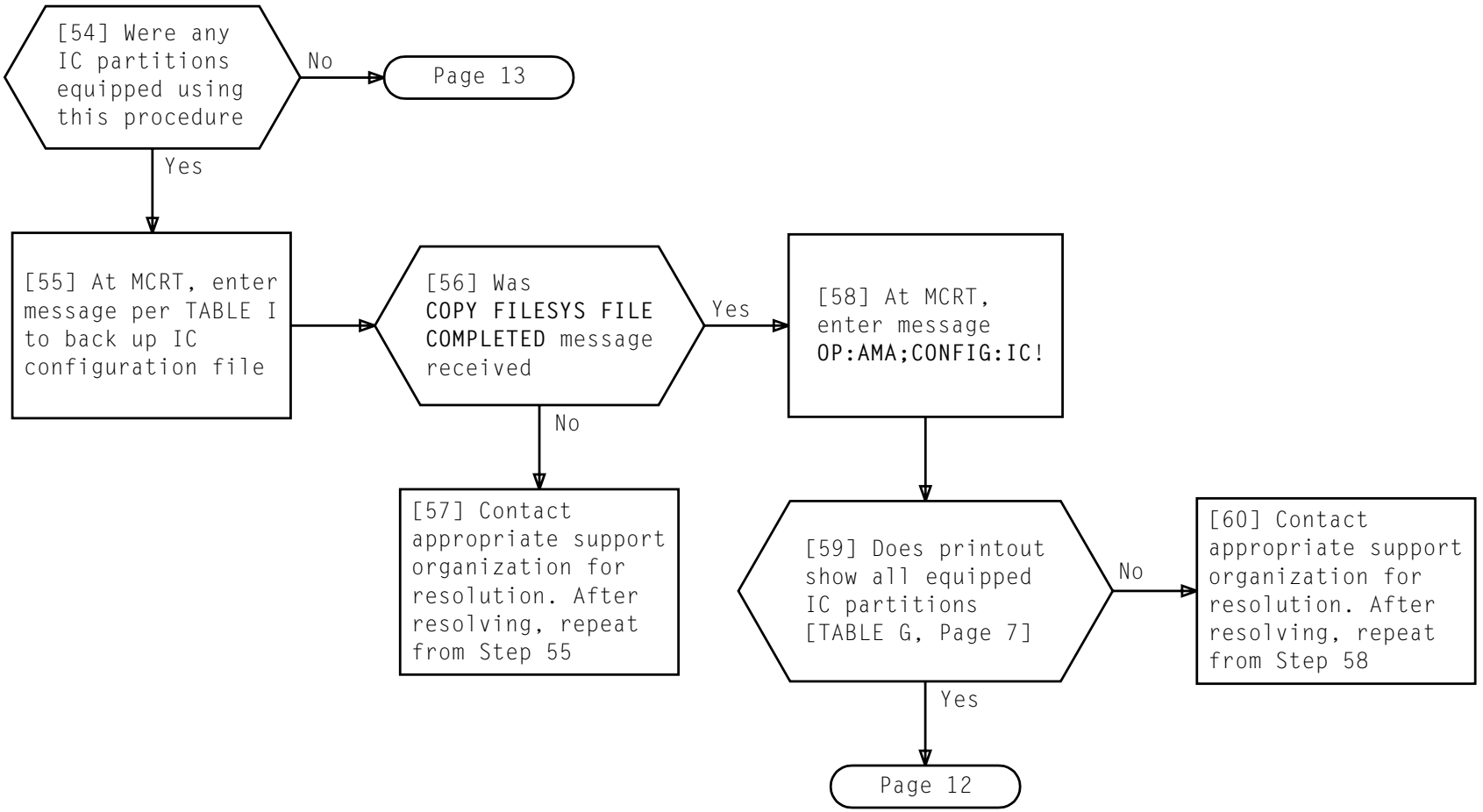


TABLE I

MESSAGE NUMBER	INPUT MESSAGE
1	COPY:FILESYS:FILE,SRC "/amafiles/config.ic",DEST "/amabfiles/config.ic"!

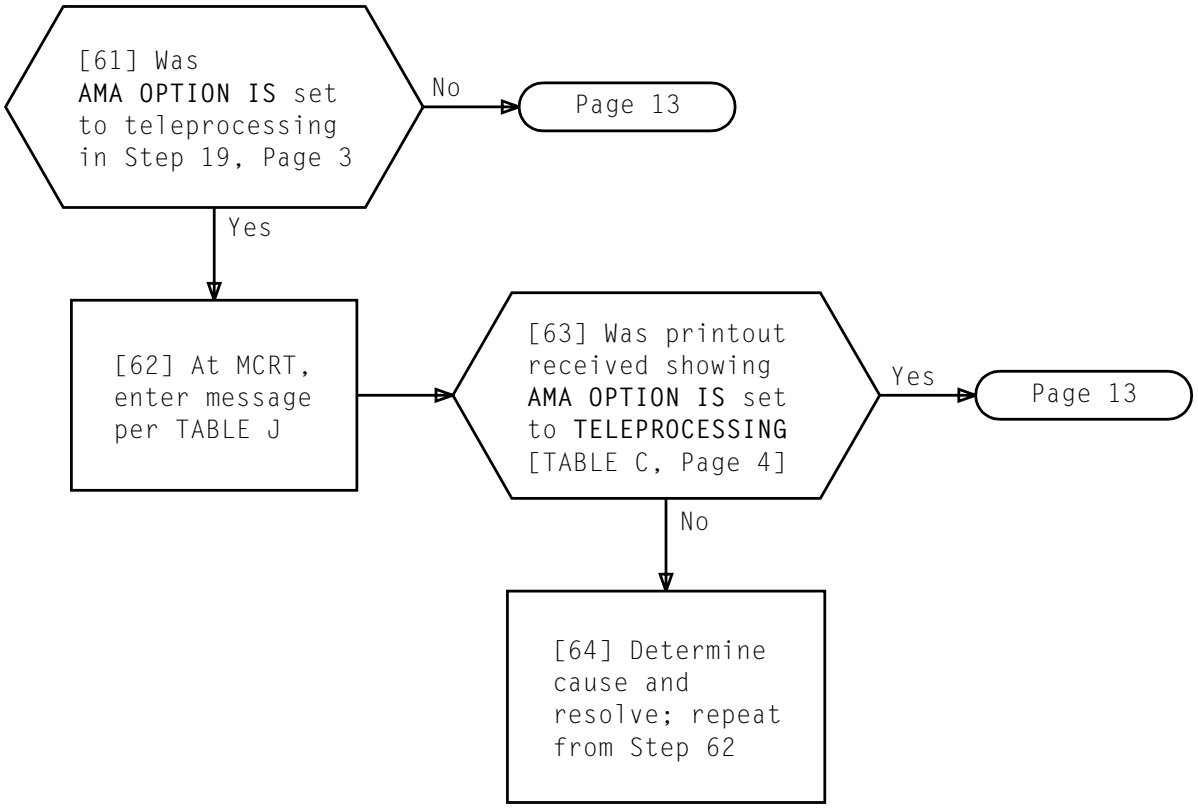


TABLE J

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;IC:OPTION TP!

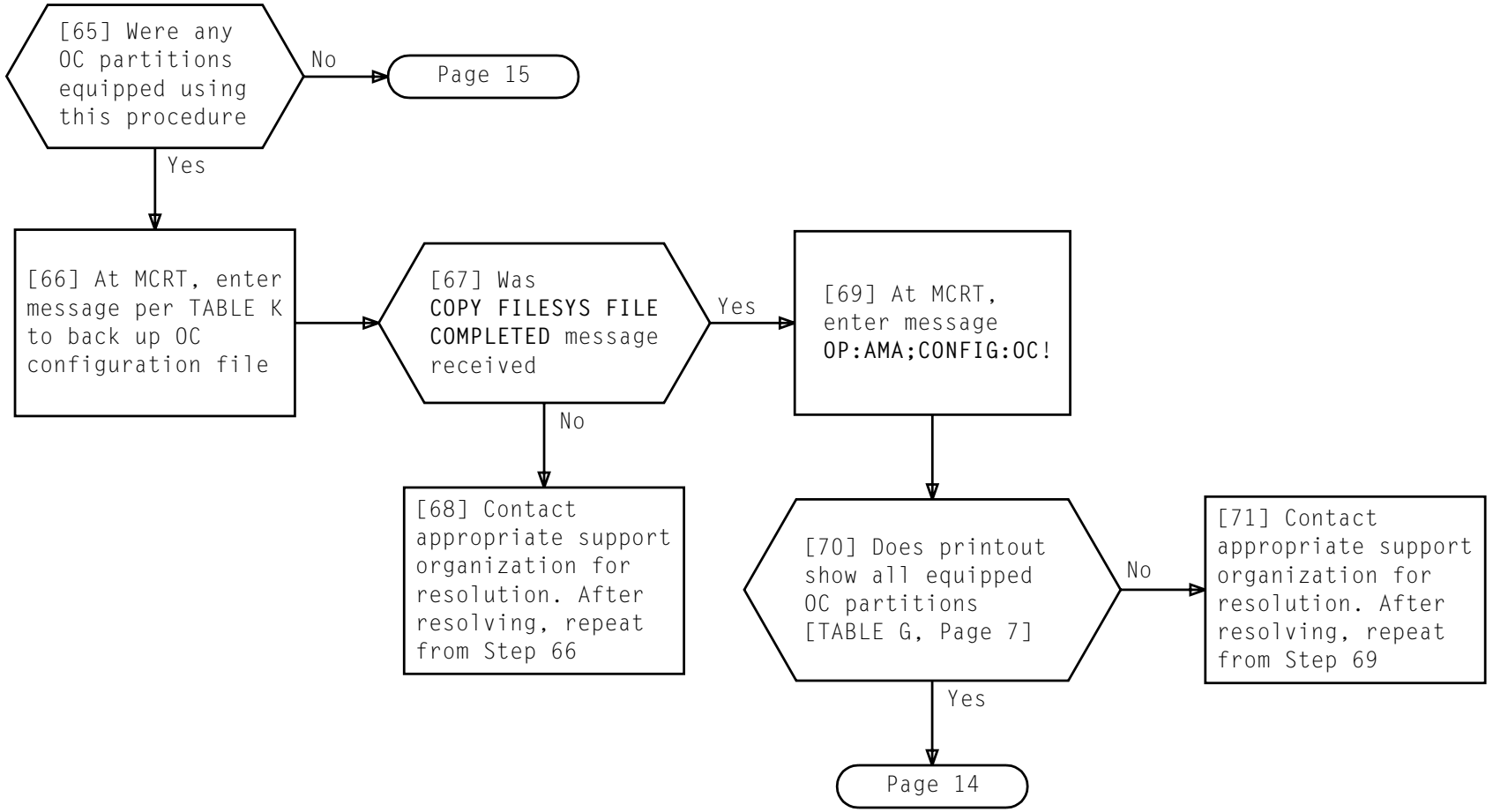


TABLE K

MESSAGE NUMBER	INPUT MESSAGE
1	COPY:FILESYS:FILE,SRC "/amafiles/config.oc",DEST "/amabfiles/config.oc"!

EQUIP AMA PARTITION(S) ON GROWTH MHD

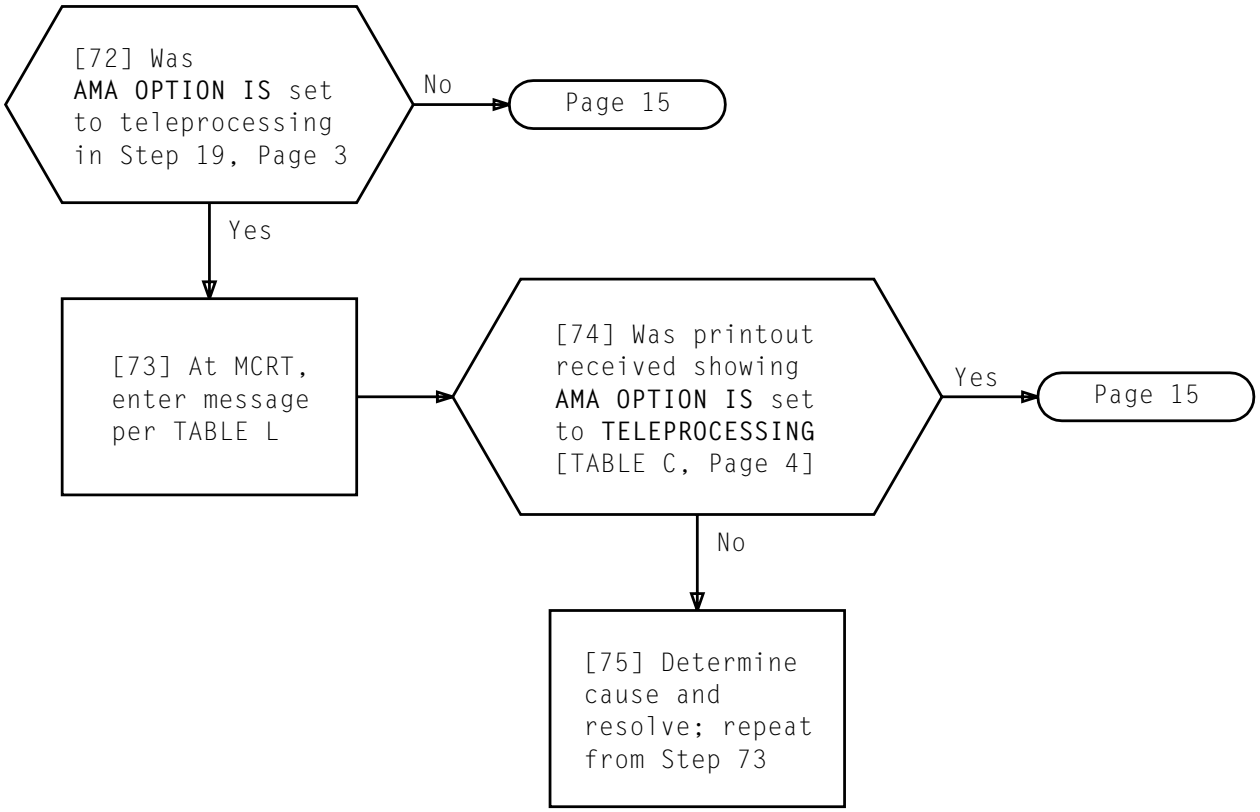


TABLE L

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;OC:OPTION TP!

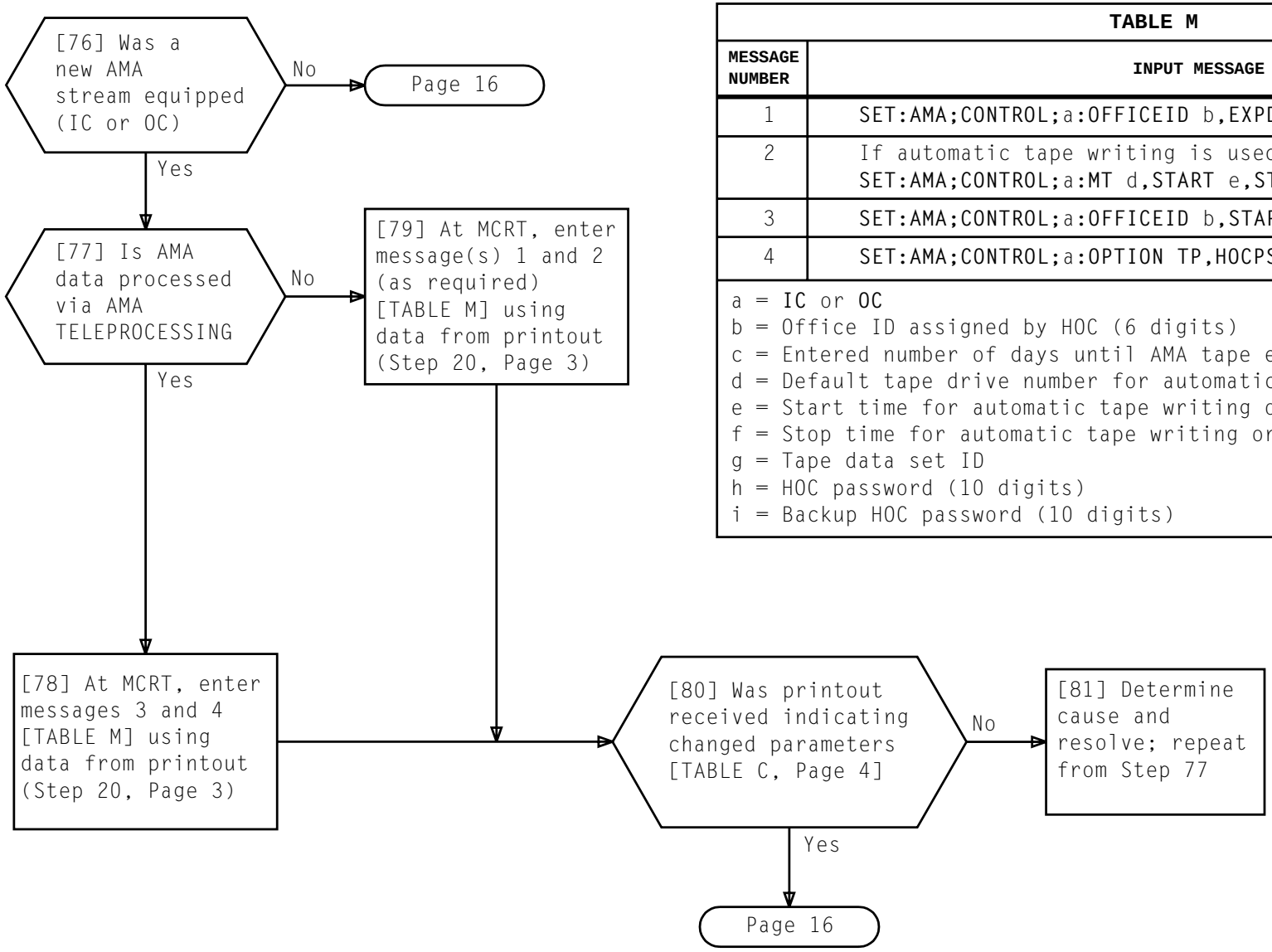


TABLE M

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;a:OFFICEID b,EXPDATE c,OPTION TAPE!
2	If automatic tape writing is used in office SET:AMA;CONTROL;a:MT d,START e,STOP f,TAPEID "g"!
3	SET:AMA;CONTROL;a:OFFICEID b,START (e),STOP (f)!
4	SET:AMA;CONTROL;a:OPTION TP,HOCPSWD h,BACKUPSWD i!

a = IC or OC
b = Office ID assigned by HOC (6 digits)
c = Entered number of days until AMA tape expires
d = Default tape drive number for automatic tape process
e = Start time for automatic tape writing or teleprocessing (hh,mm)
f = Stop time for automatic tape writing or teleprocessing (hh,mm)
g = Tape data set ID
h = HOC password (10 digits)
i = Backup HOC password (10 digits)

EQUIP AMA PARTITION(S) ON GROWTH MHD

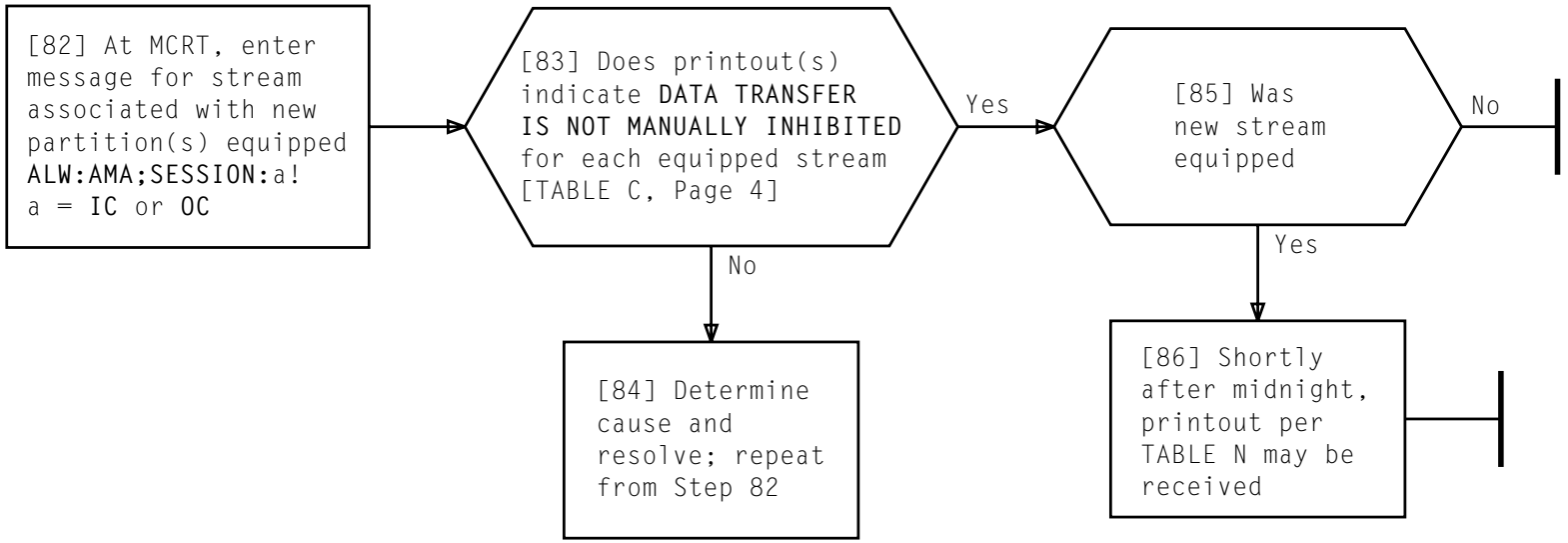


TABLE N

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA MONITOR FOR a STREAM AMA MAINTENANCE FILE INITIALIZATION REPT AMA MONITOR FOR a STREAM SOME AMA MTCE RECORDS UNREADABLE a = IC or OC

EQUIP AMA PARTITION(S) ON GROWTH MHD

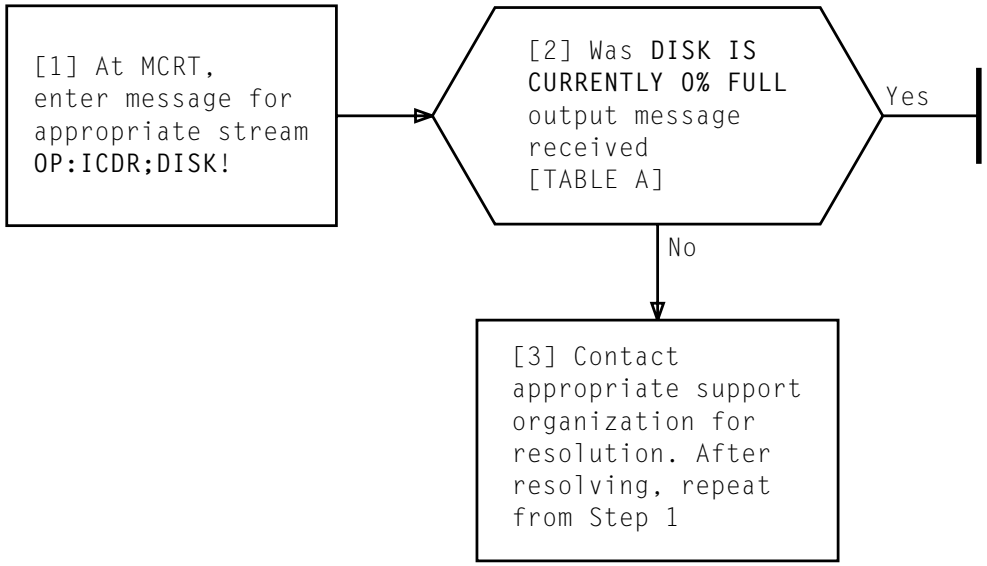


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR DISK SUMMARY DISK IS CURRENTLY 0% FULL

ENSURE DISK IS 0% FULL

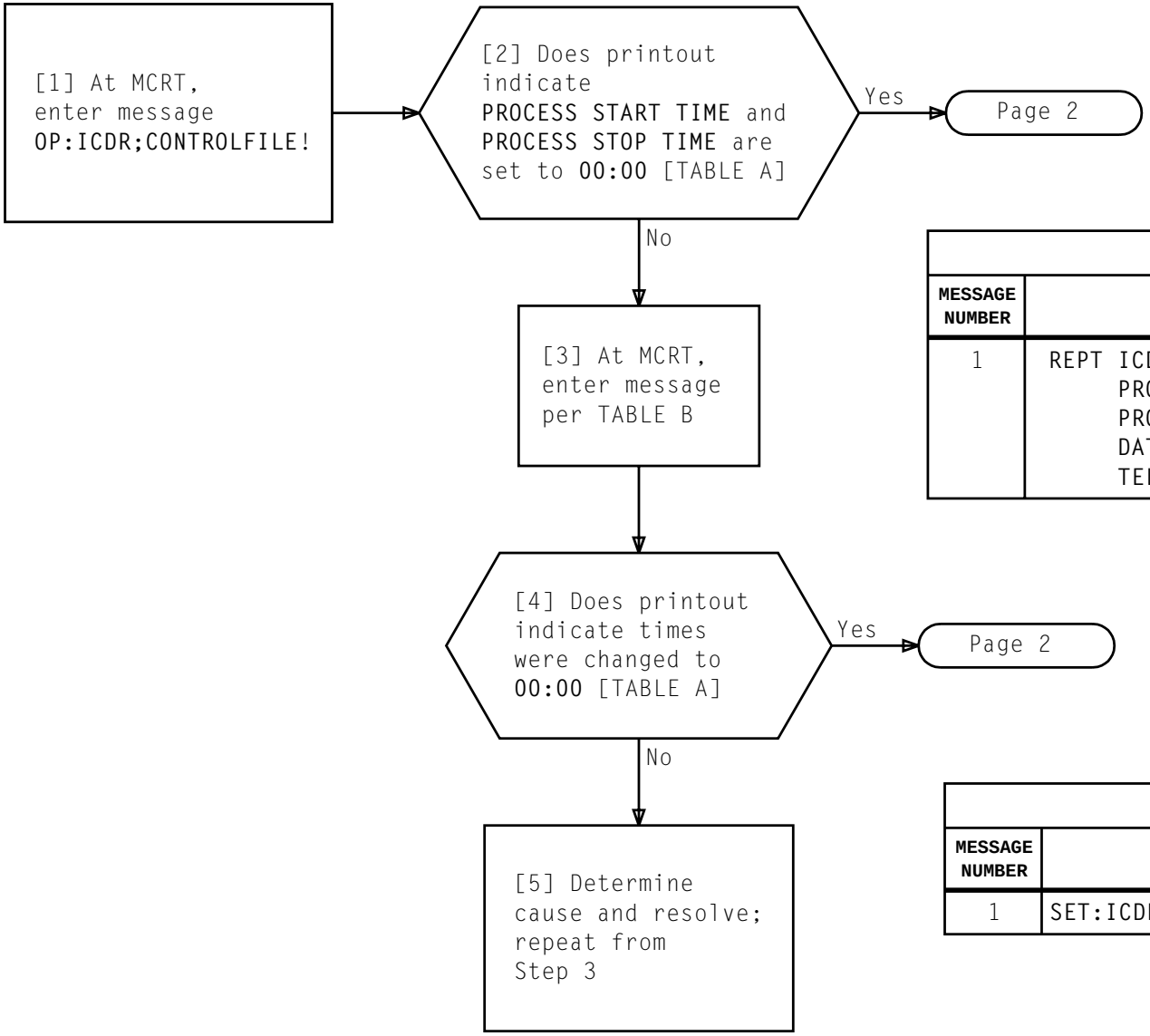


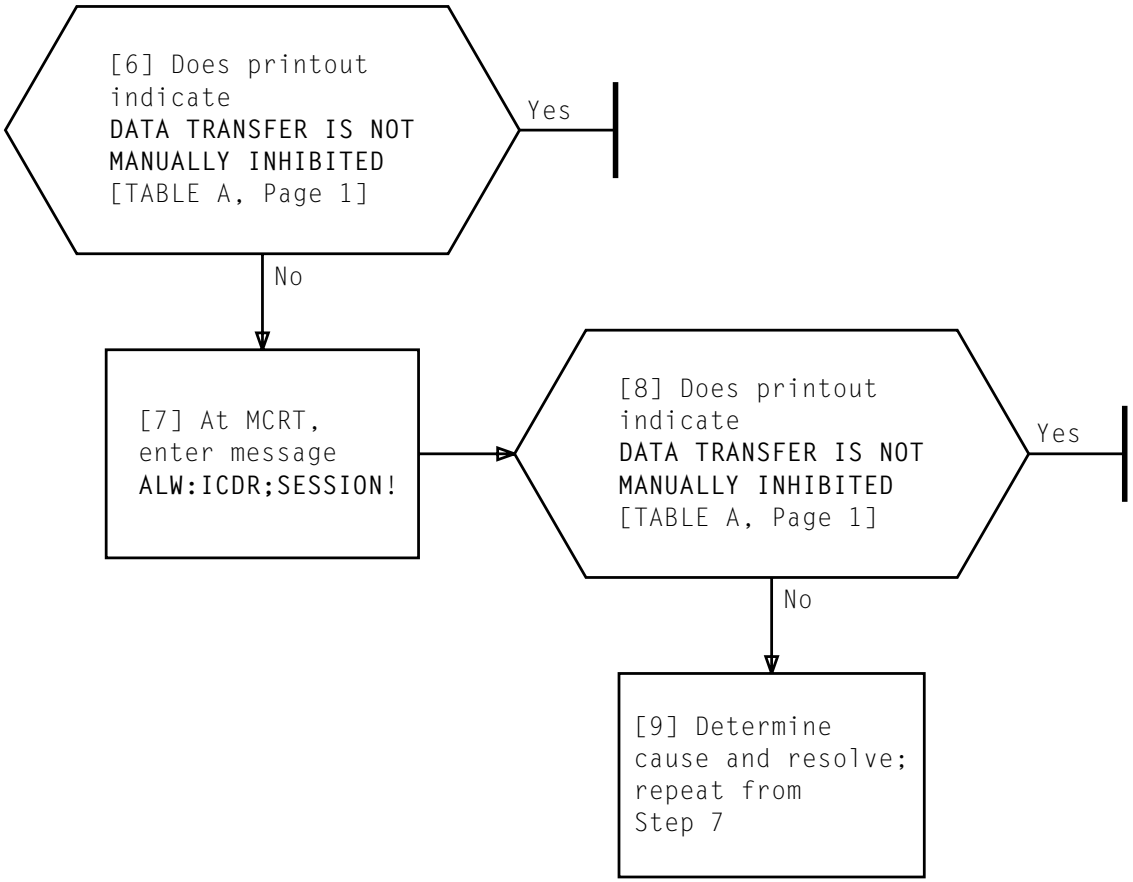
TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR CONTROL FILE PROCESS START TIME 00:00 PROCESS STOP TIME 00:00 DATA TRANSFER IS NOT MANUALLY INHIBITED TELEPROCESSING SESSION IS NOT IN PROGRESS

TABLE B

MESSAGE NUMBER	INPUT MESSAGE
1	SET:ICDR;CONTROL:START (00,00),STOP (00,00)!

SET ICDR CONTROL FILE PARAMETERS



SET ICDR CONTROL FILE PARAMETERS

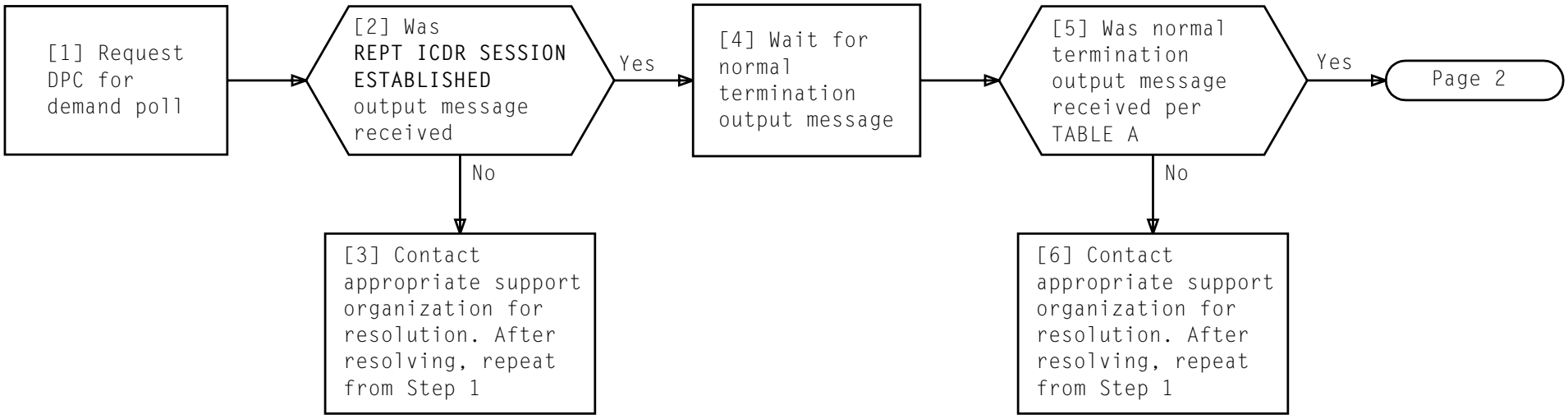
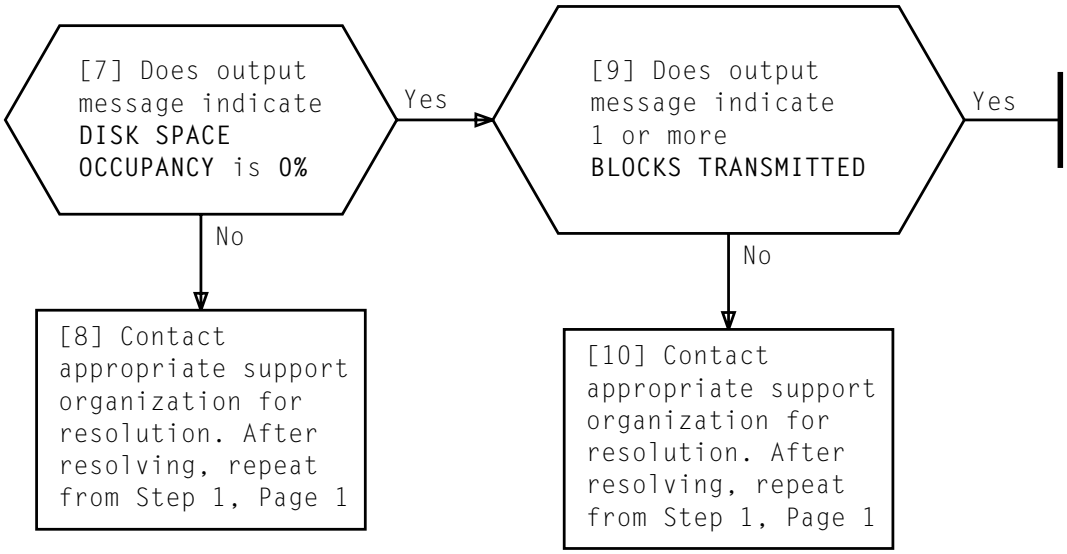


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR SESSION TERMINATED NORMAL TERMINATION FIRST BLOCK TRANSMITTED ____ LAST BLOCK TRANSMITTED ____ BLOCKS TRANSMITTED a RECORDS TRANSMITTED ____ PRIMARY POLLS REJECTED 0 SECONDARY POLLS REJECTED 0 CURRENT DISK SPACE OCCUPANCY IS 0% SESSION START TIME ___ __ __:__:__ SESSION STOP TIME ___ __ __:__:__ SESSION LENGTH __:__:__ a = Number of ICDR blocks transmitted

REQUEST DPC FOR DEMAND POLL



REQUEST DPC FOR DEMAND POLL

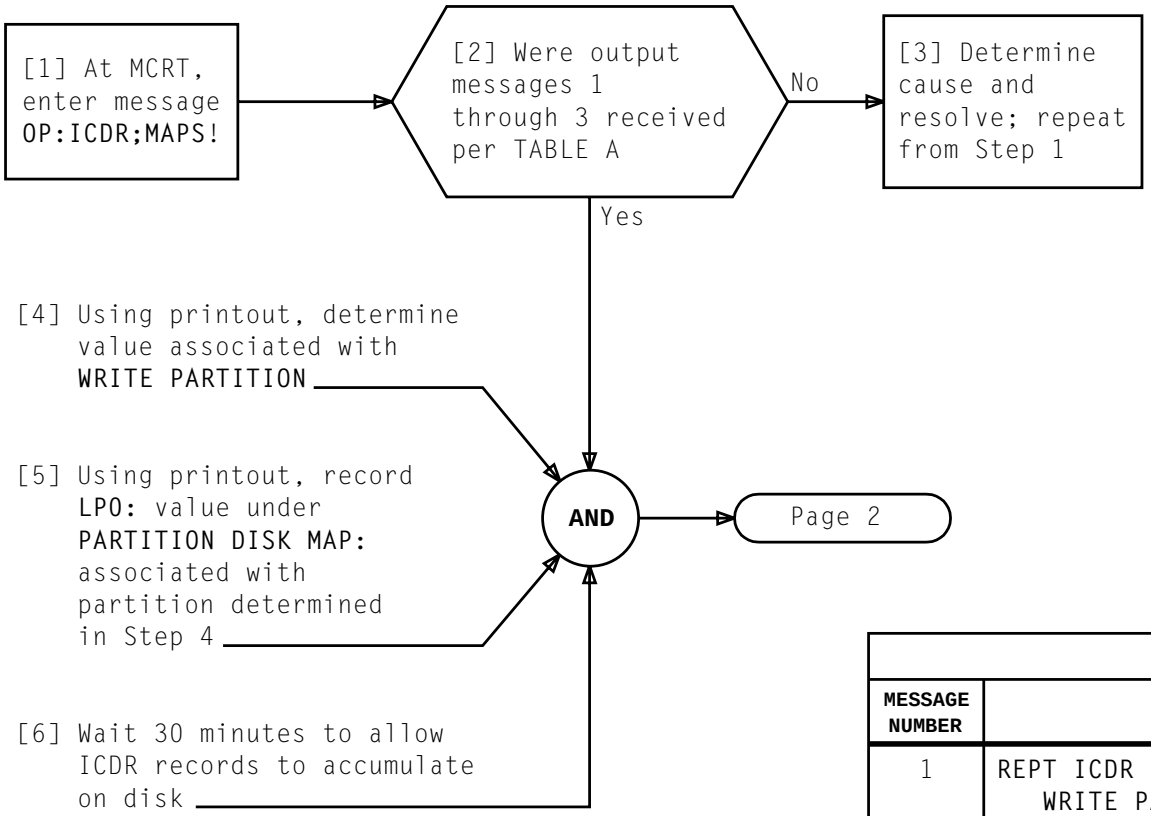
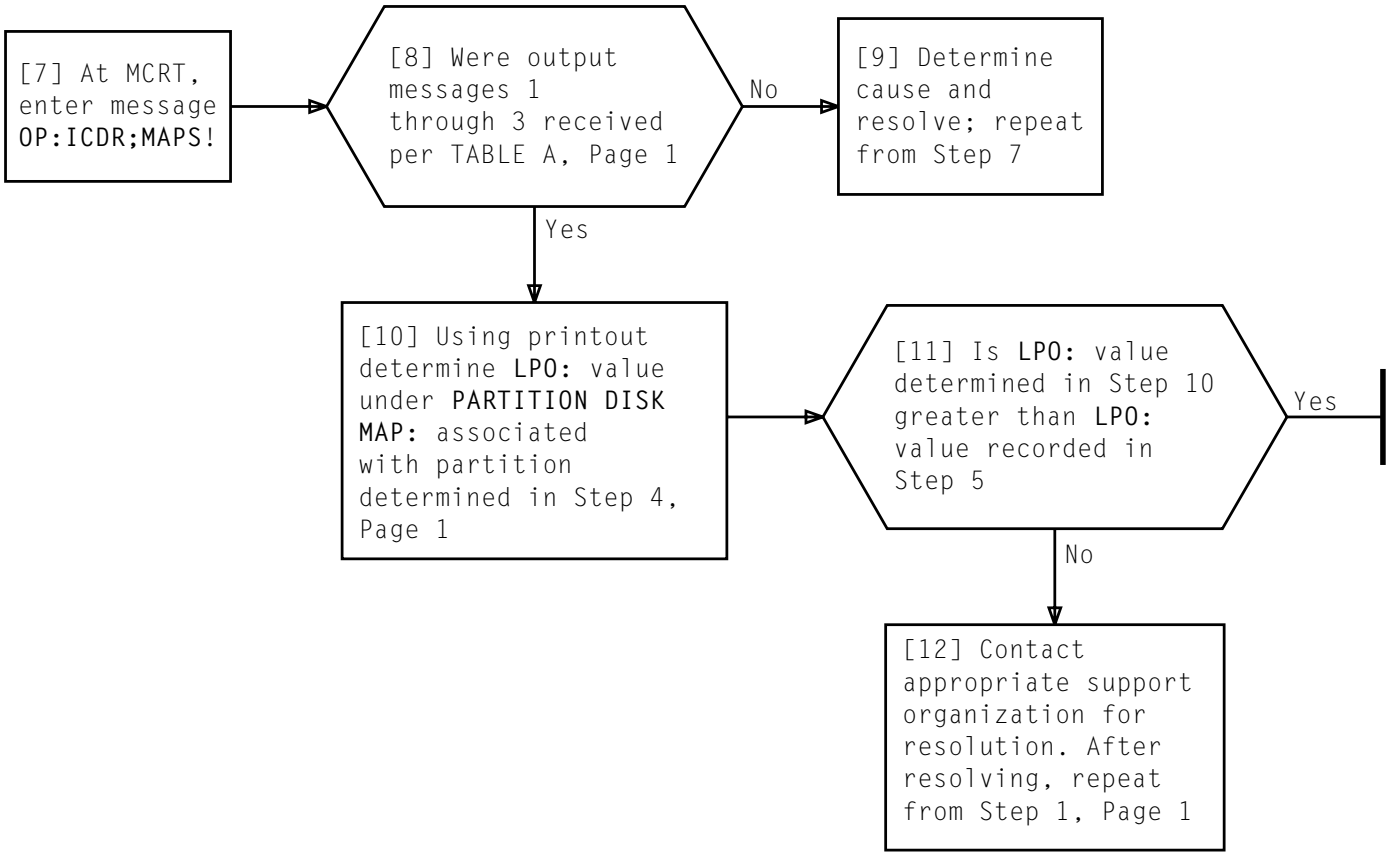


TABLE A

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

VERIFY ICDR DATA TRANSFER TO 3B COMPUTER DISK



VERIFY ICDR DATA TRANSFER TO 3B COMPUTER DISK

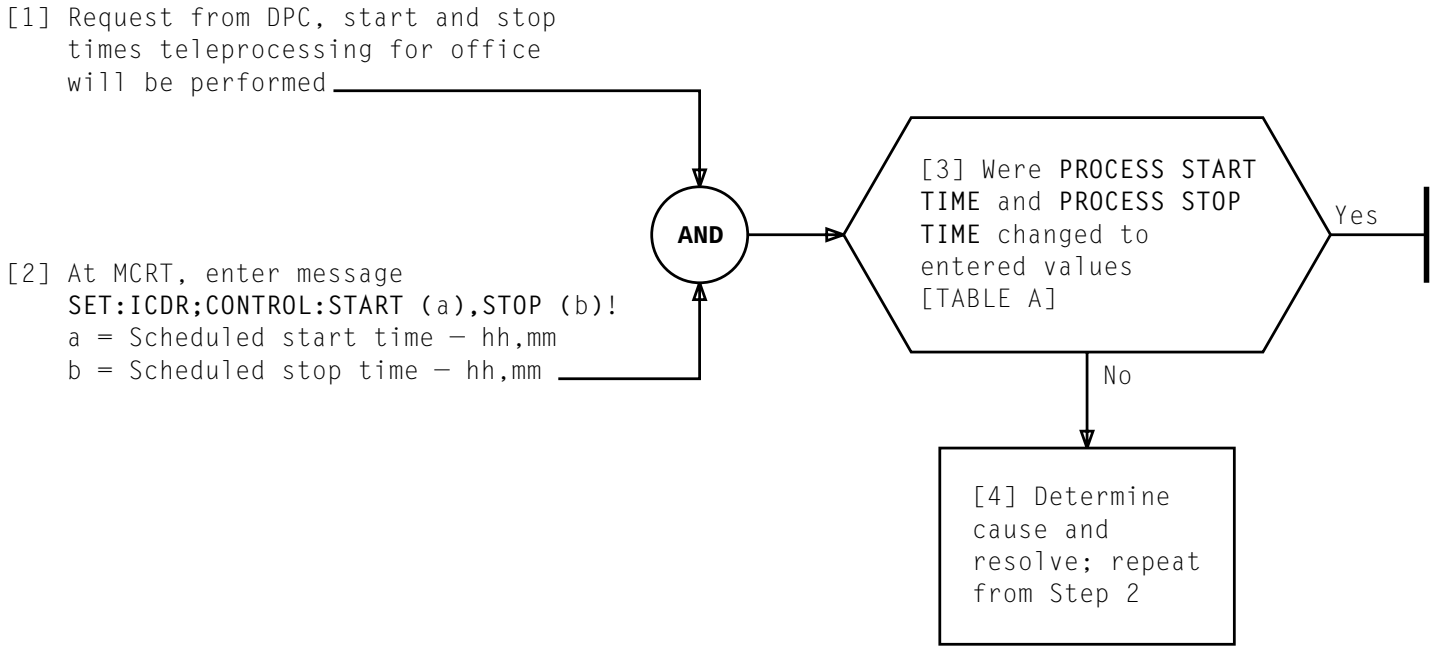
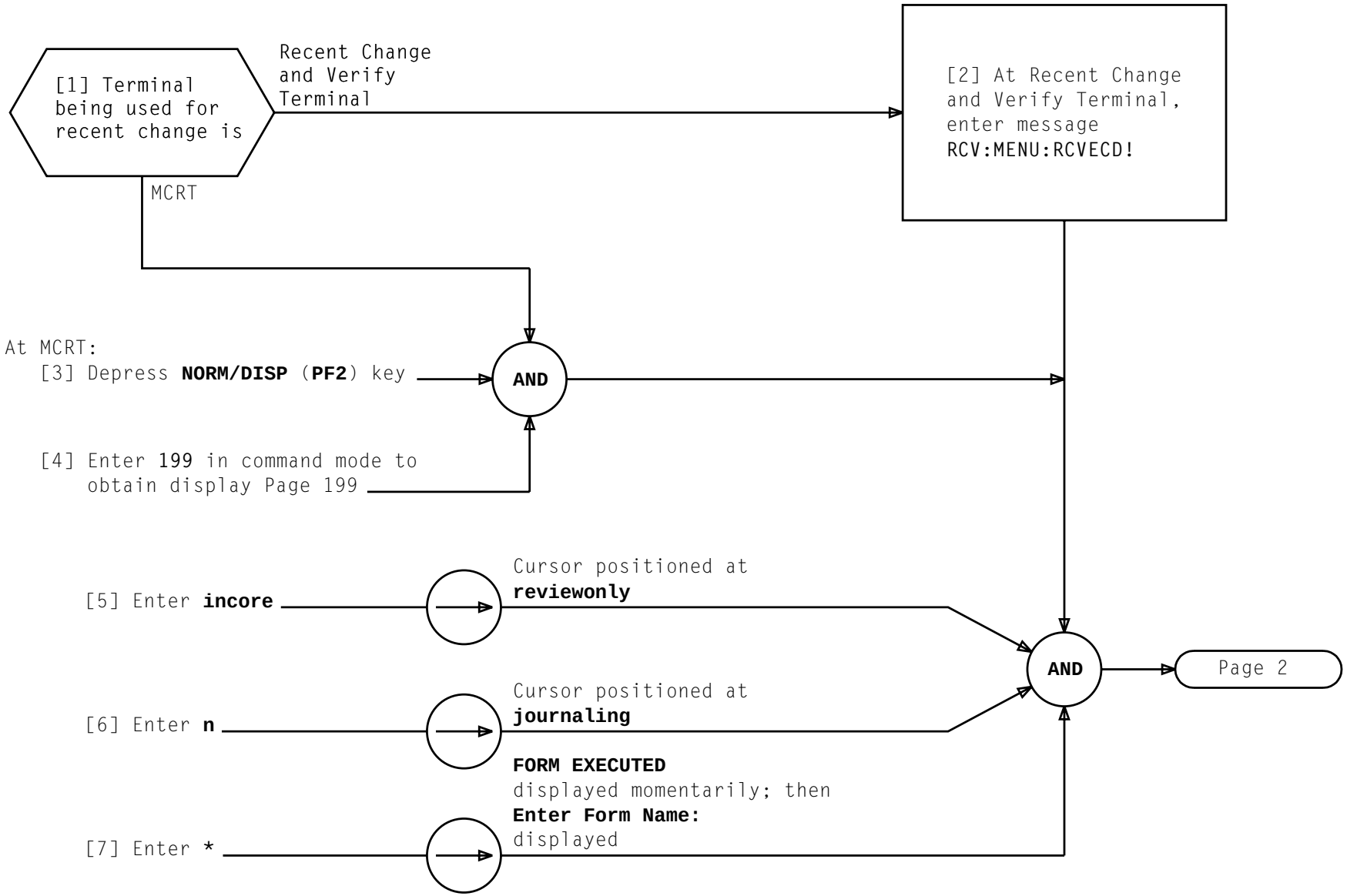


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR CONTROL FILE PROCESS START TIME a PROCESS STOP TIME b DATA TRANSFER IS NOT MANUALLY INHIBITED TELEPROCESSING SESSION IS NOT IN PROGRESS a = Entered start time – hh:mm b = Entered stop time – hh:mm

SET DPC TELEPROCESSING START AND STOP TIMES



DEGROW SDL AND SDLC TO UNEQIP

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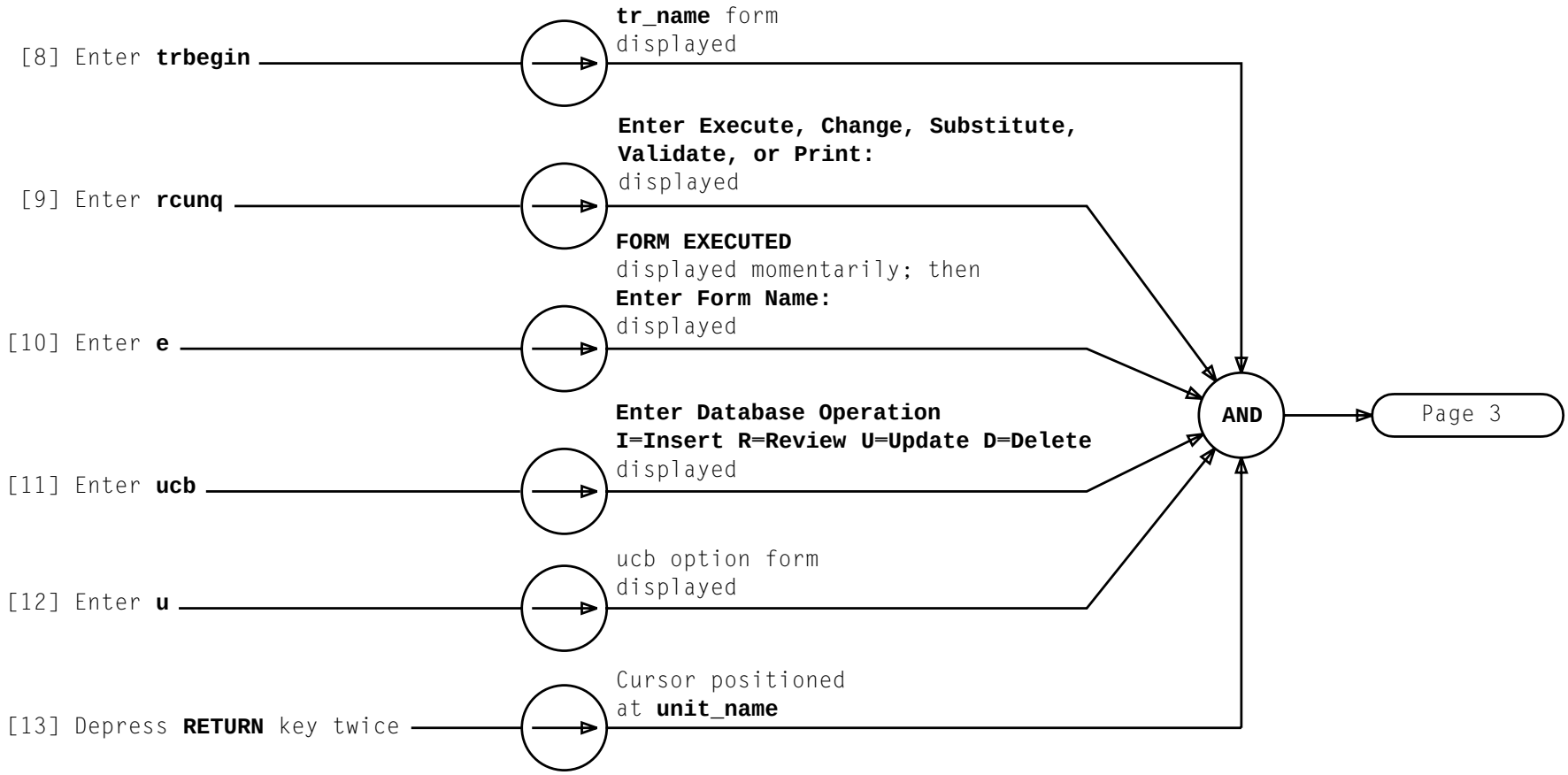
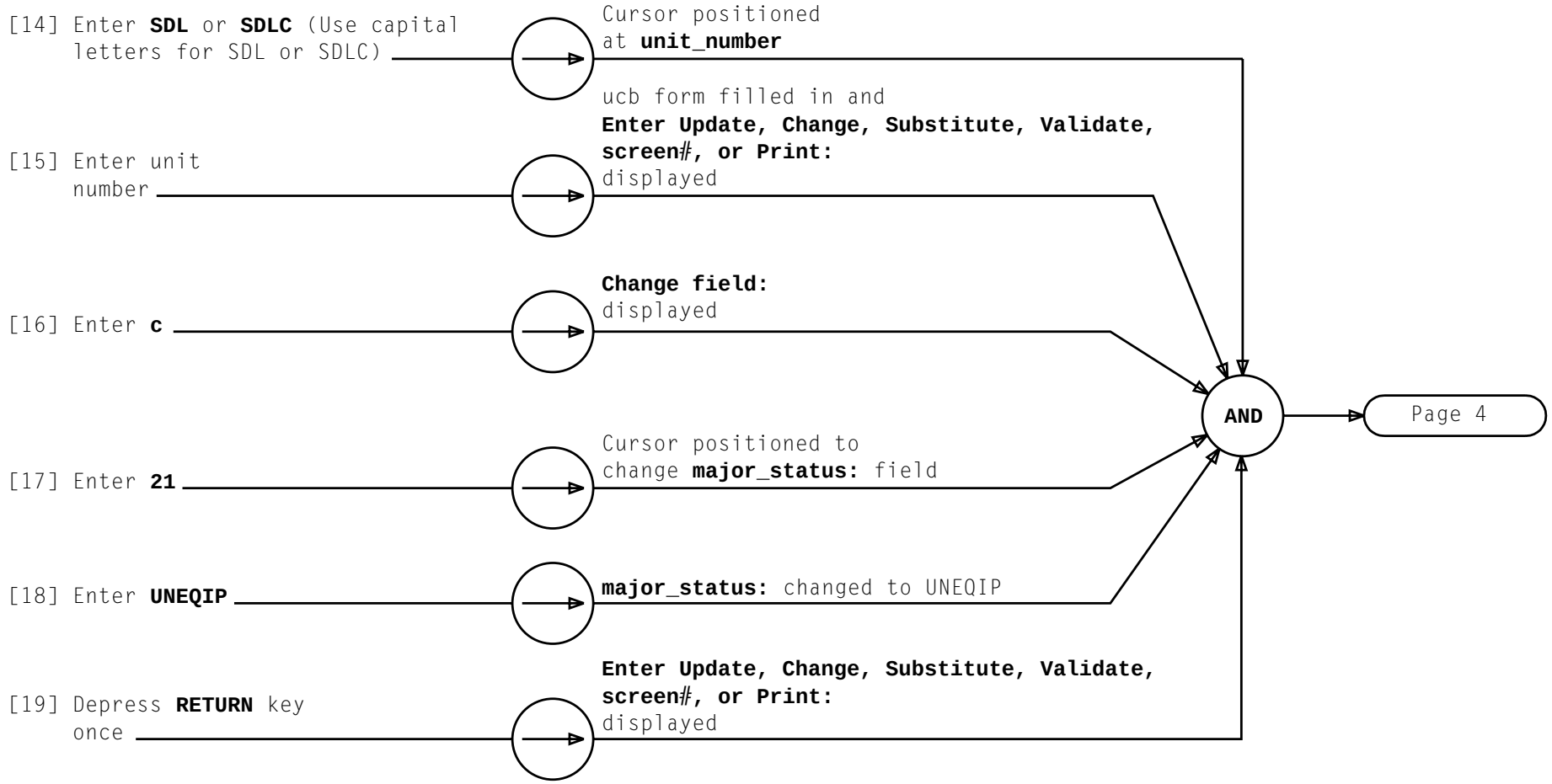
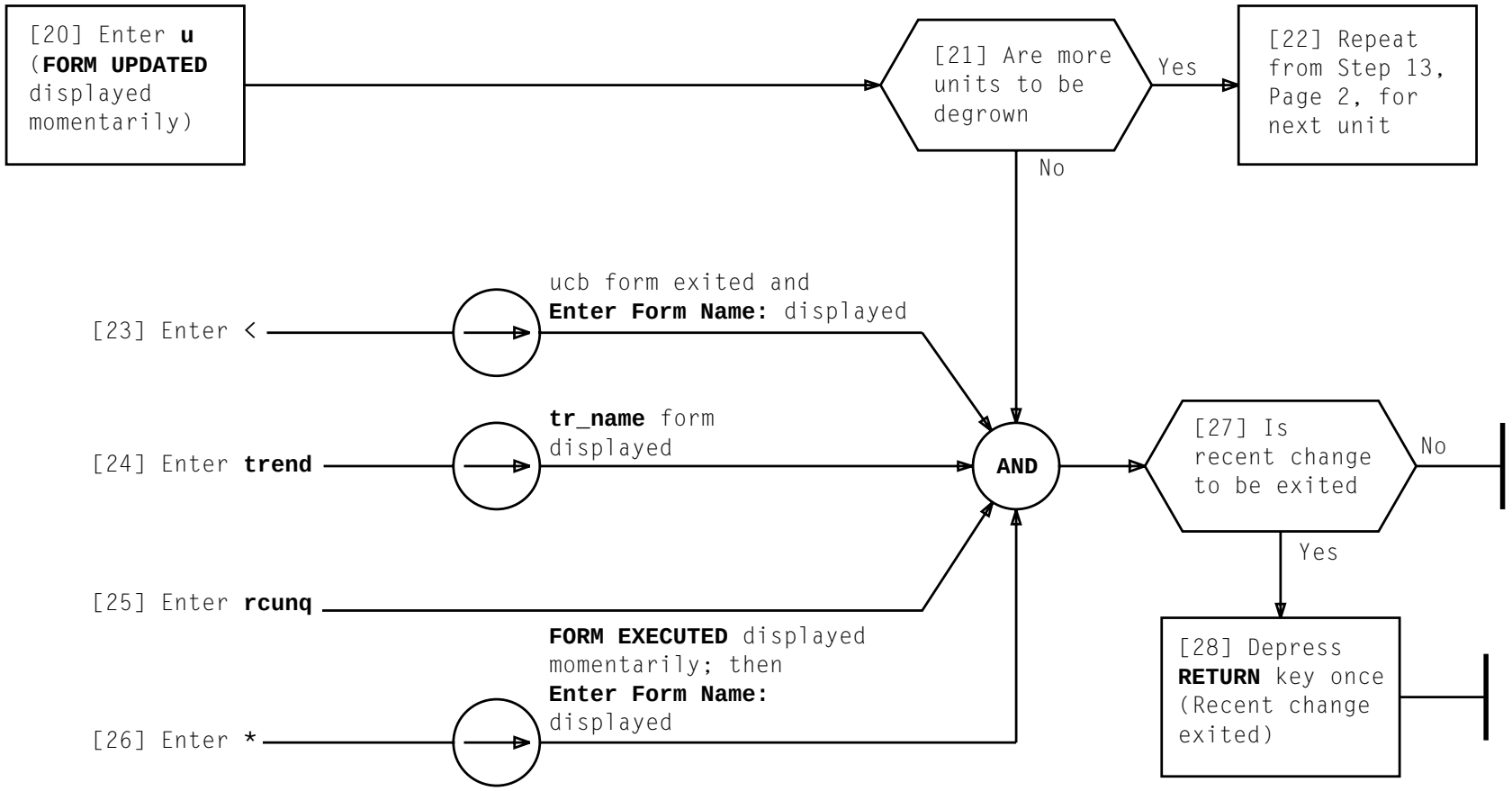


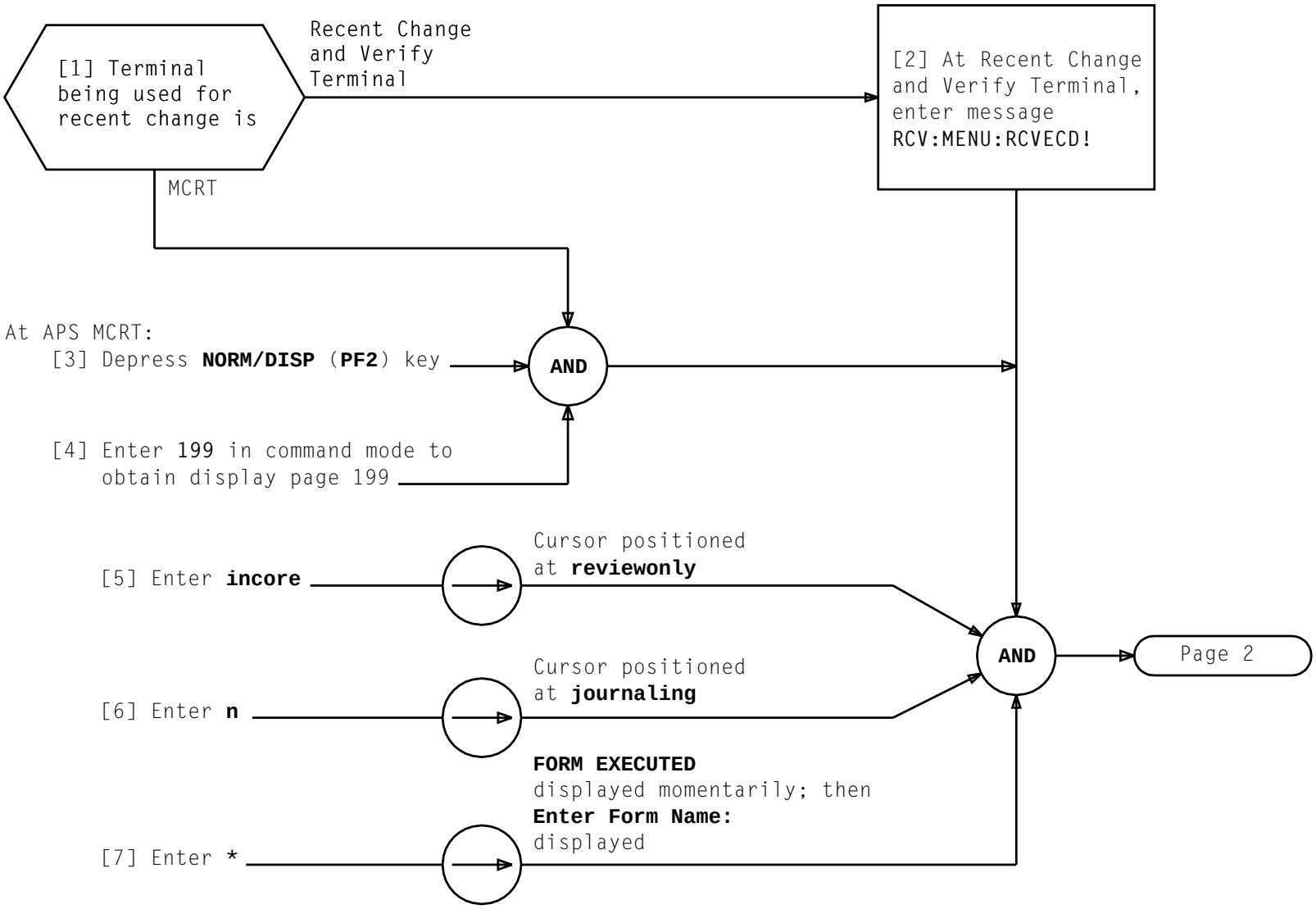
DEGROW SDL AND SDLC TO UNEQIP



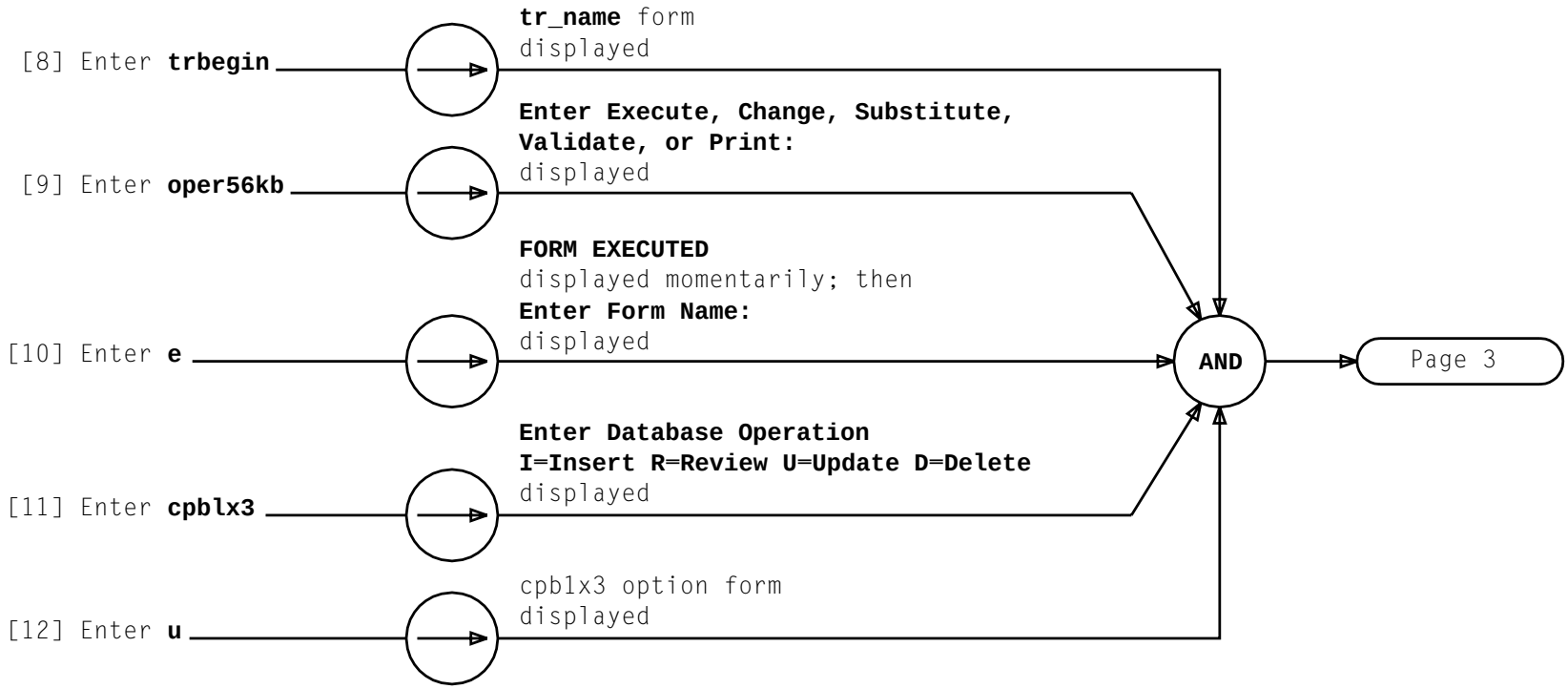
DEGROW SDL AND SDLC TO UNEQIP



DEGROW SDL AND SDLC TO UNEQIP



CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION



CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION

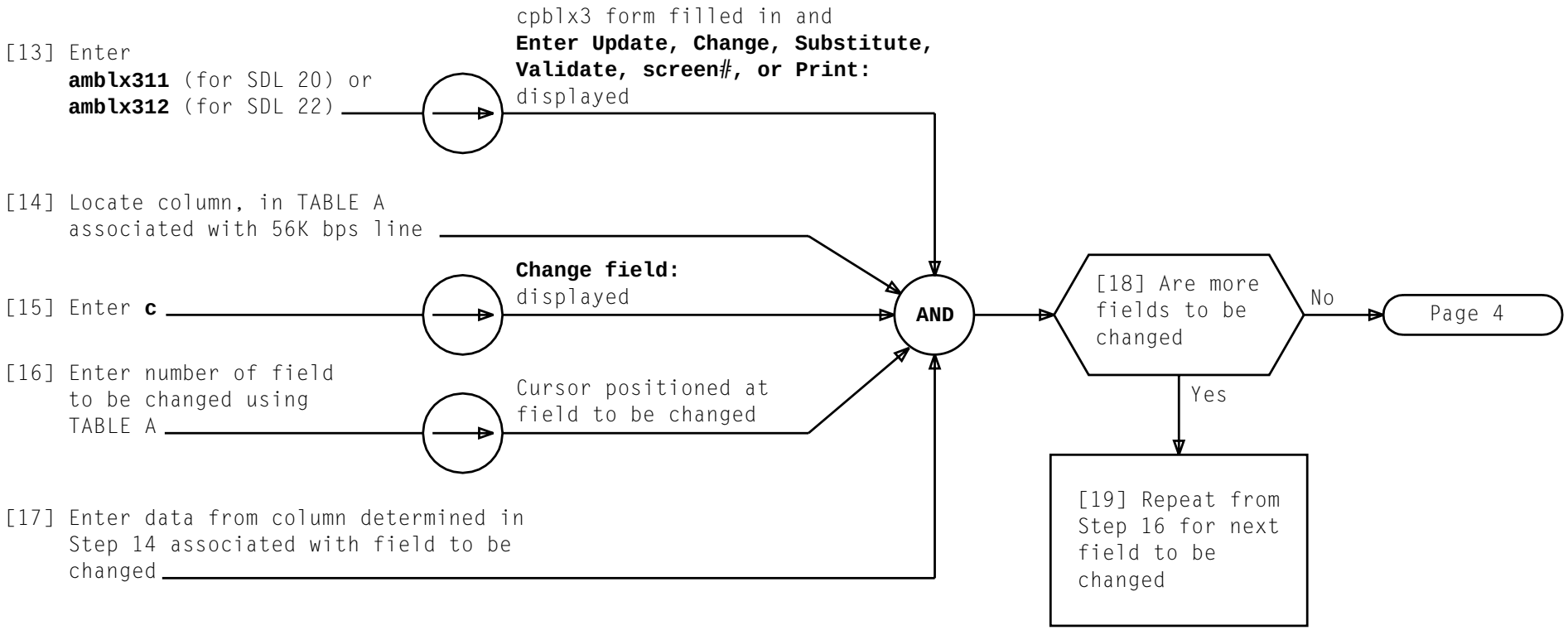
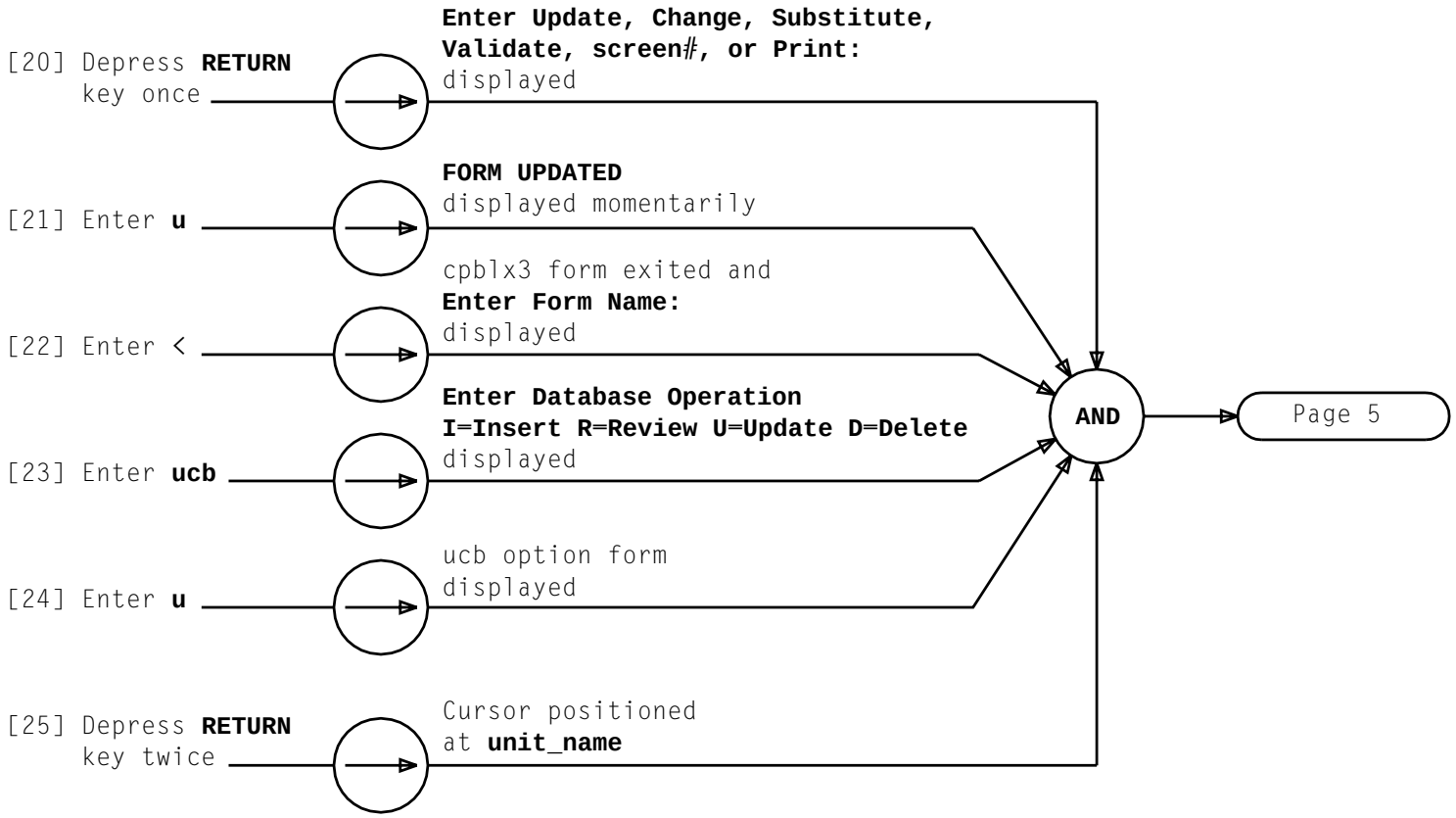


TABLE A

FIELD TO BE CHANGED	DATA TO BE ENTERED IF DEDICATED 56K BPS LINE	DATA TO BE ENTERED IF SWITCHED 56K BPS LINE
2	56000	56000
4	CCITT	CCITT
5	c	s
6	private	noACU
19	n	y
62	y	y

CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION



CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION

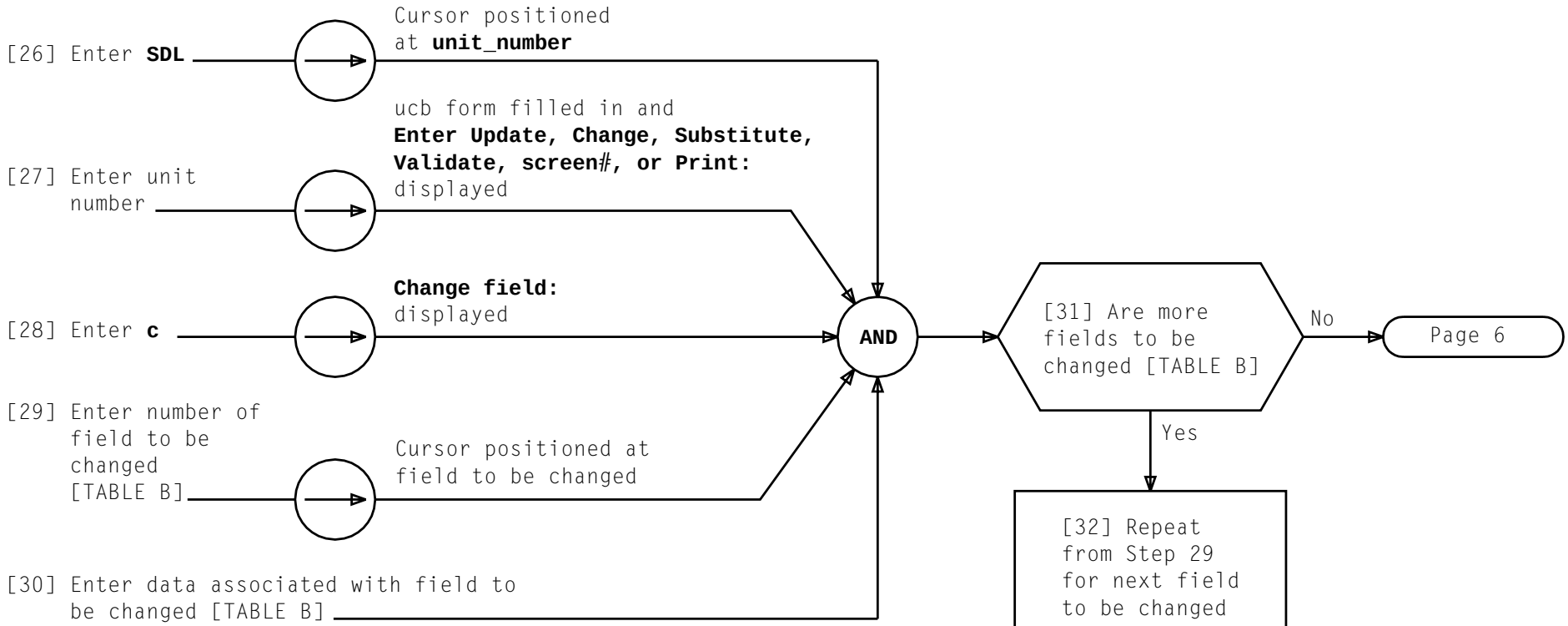
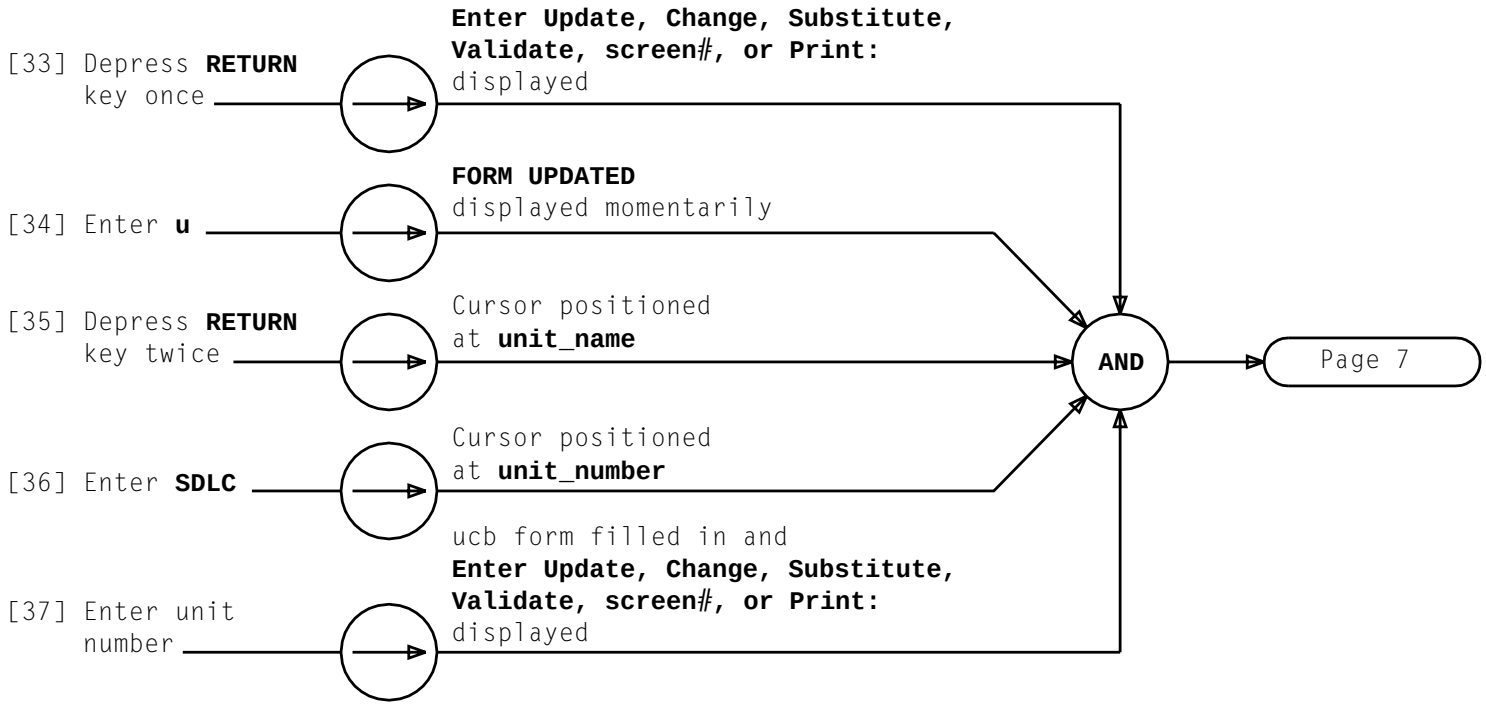


TABLE B

FIELD TO BE CHANGED	DATA TO BE ENTERED
12	HSD
30	pu/dui

CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION



CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION

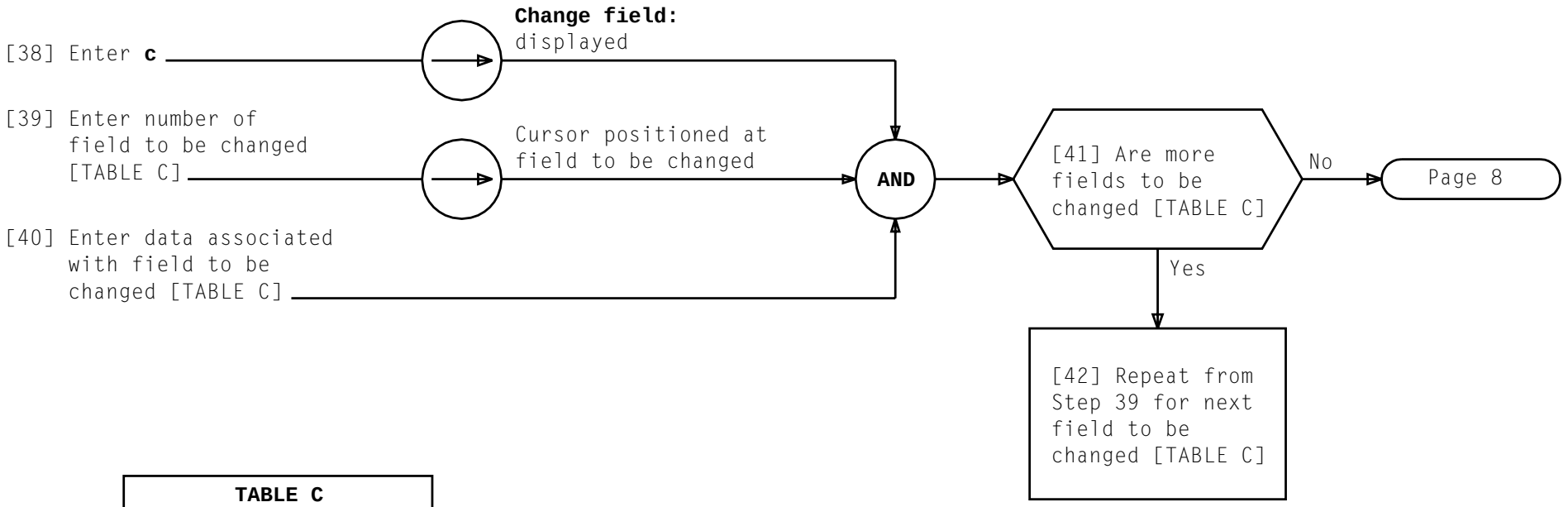
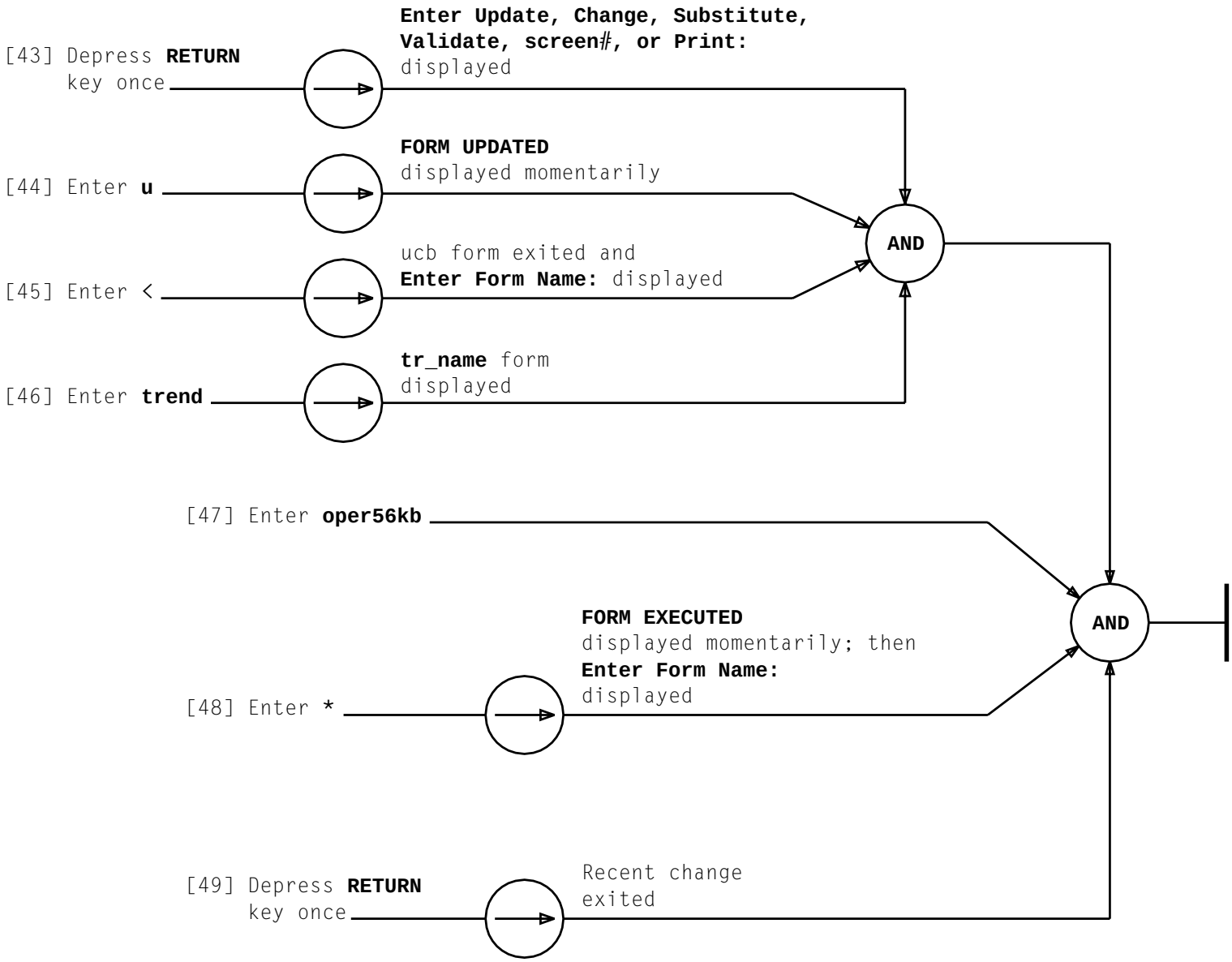


TABLE C

FIELD TO BE CHANGED	DATA TO BE ENTERED
12	HSDC
22	0x2
27	0x52
30	pu/duic
62	t082
64	21



CHANGE SDL AND SDLC ECD PARAMETERS TO 56K BPS OPERATION

[1] See CAUTION 1. At powered down CU, remove **TN28** circuit packs at locations per TABLE A as equipped

TABLE A

MODEL 1 TN28 LOCATION	MODEL 2/3 TN28 LOCATION
56-032	51-120
56-040	51-126
56-048	51-132
56-056	51-138
56-068	51-144
56-076	51-150
56-084	51-156
56-092	51-162
56-100	42-120
56-108	42-126
56-116	42-132
56-128	42-138
56-136	42-144
56-144	42-150
56-152	42-156
56-160	42-162

CAUTION 1
An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling

REMOVE ALL TN28 CIRCUIT PACKS FROM CU

[1] See NOTE 1. Determine number of **TN56** circuit packs required to bring memory to desired level and their locations per TABLE A

AND

[2] See CAUTION 1. At powered down CU, insert **TN56** circuit packs into locations determined in Step 1

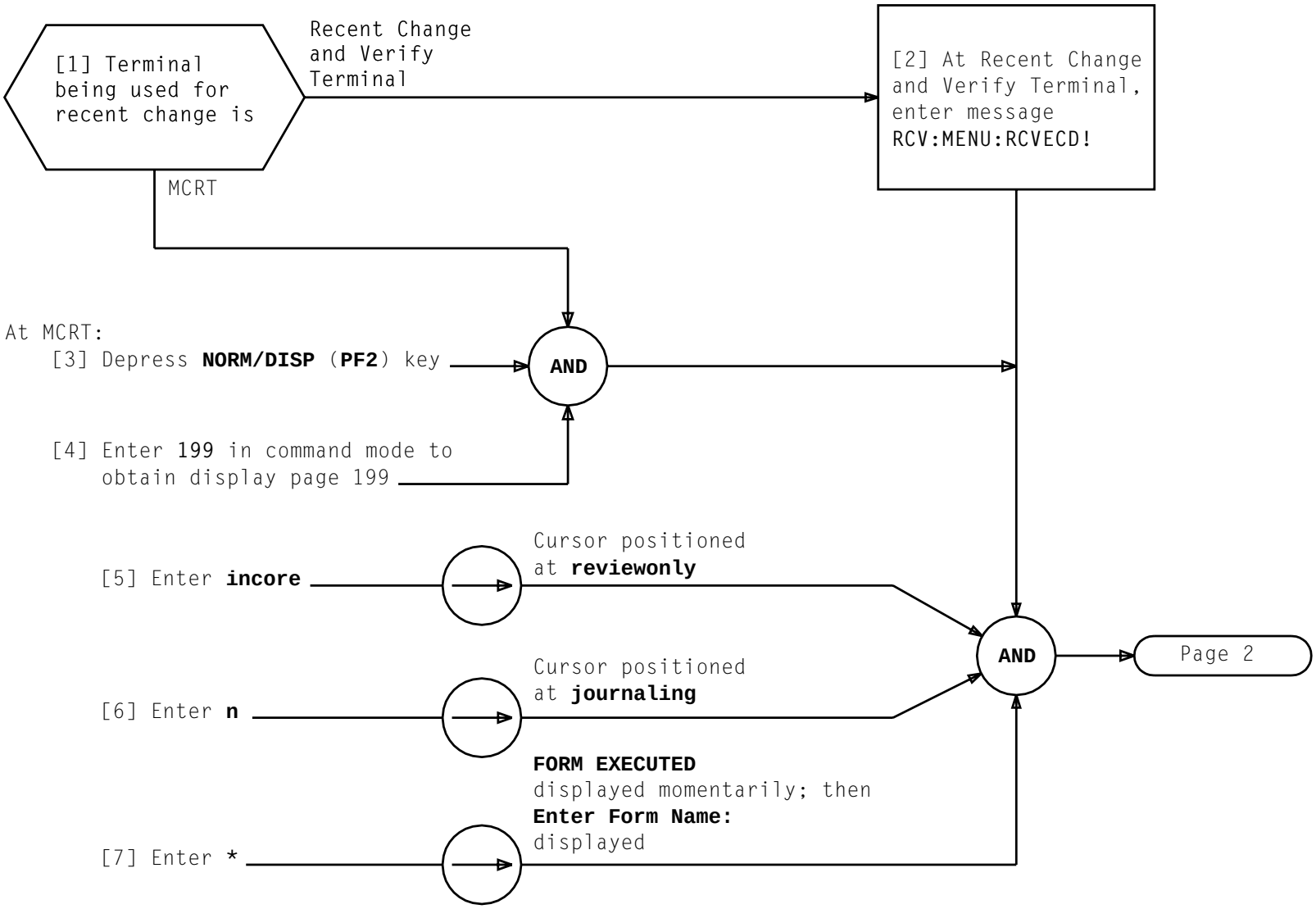
TABLE A

MEMORY SIZE	MODEL 1 TN56 LOCATION	MODEL 2/3 TN56 LOCATION
2MB	56-032	51-120
4MB	56-040	51-126
6MB	56-048	51-132
8MB	56-056	51-138
10MB	56-068	51-144
12MB	56-076	51-150
14MB	56-084	51-156
16MB	56-092	51-162

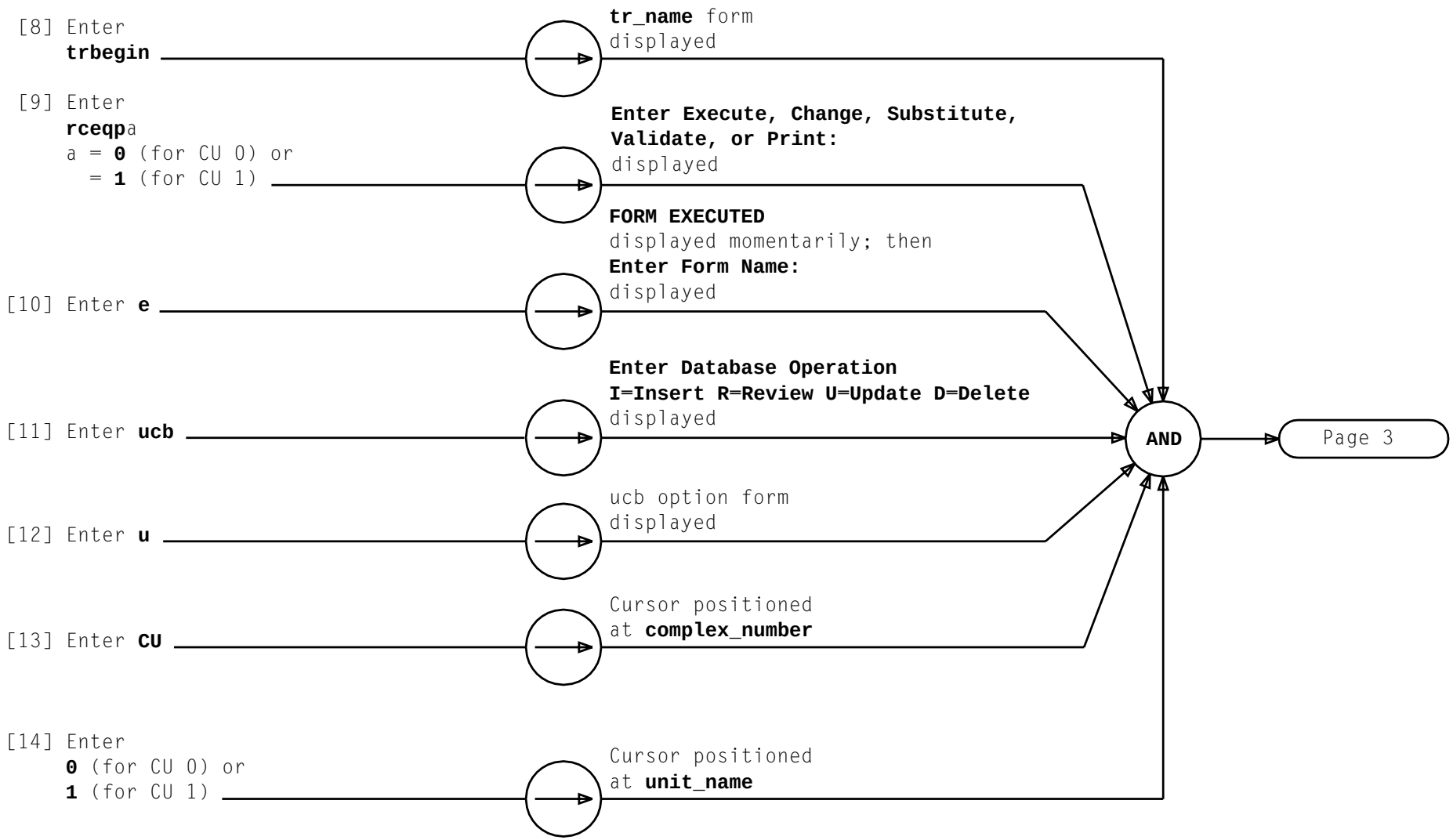
NOTE 1
All locations up to desired memory level must have **TN56** circuit packs installed

CAUTION 1
An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling

INSTALL TN56 CIRCUIT PACKS



RECENT CHANGE MAIN STORE MEMORY EQUIPAGE AND MEMBER VERSION



RECENT CHANGE MAIN STORE MEMORY EQUIPAGE AND MEMBER VERSION

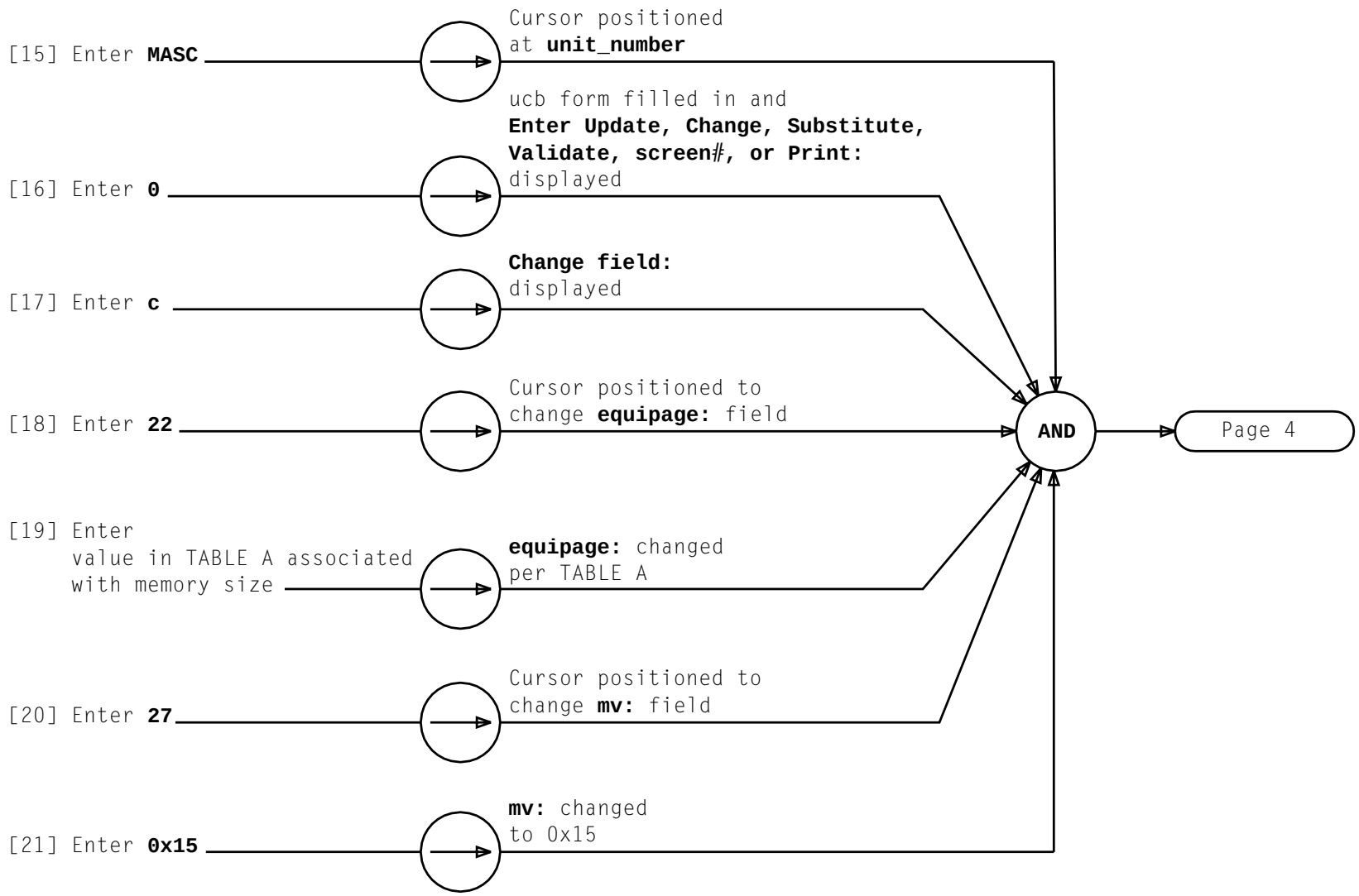
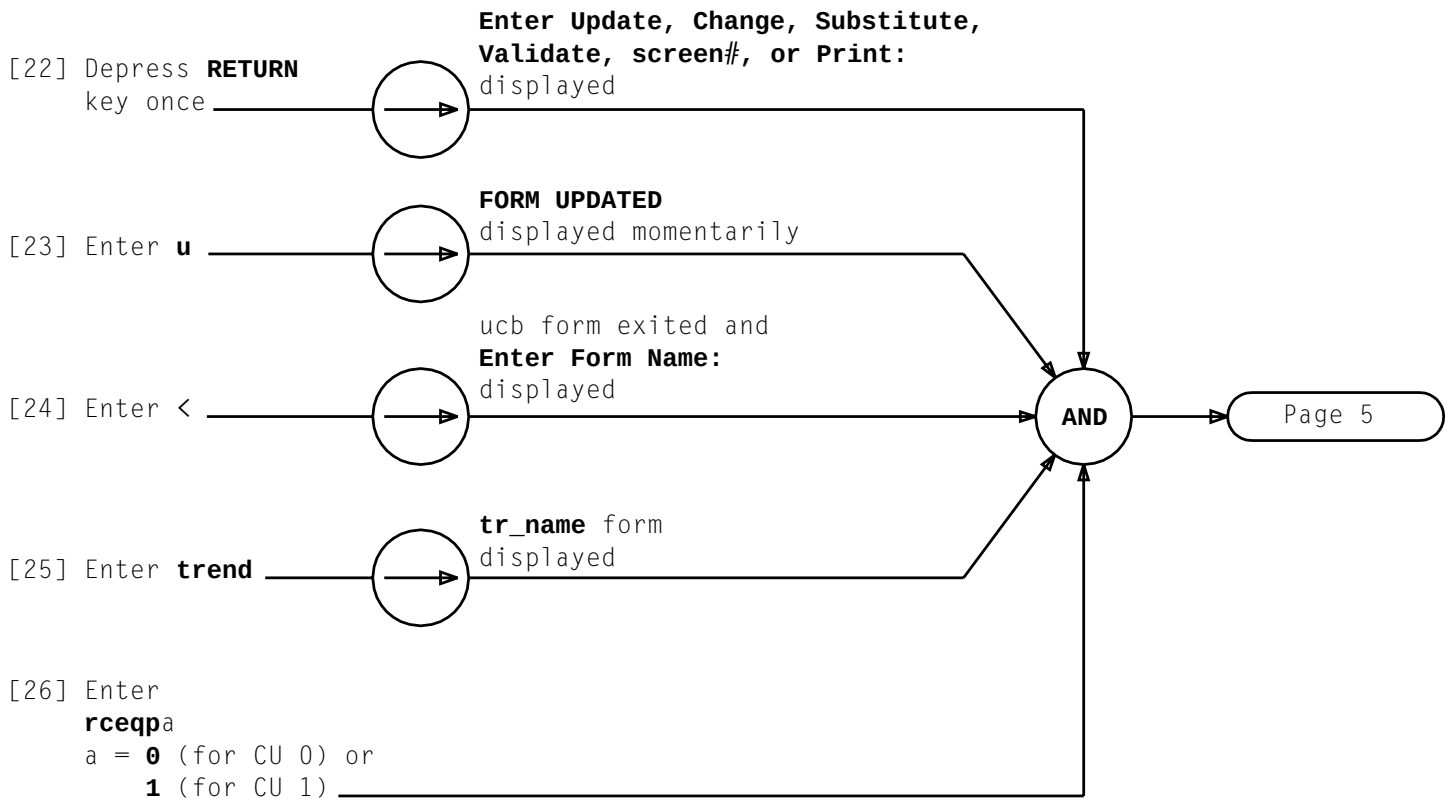
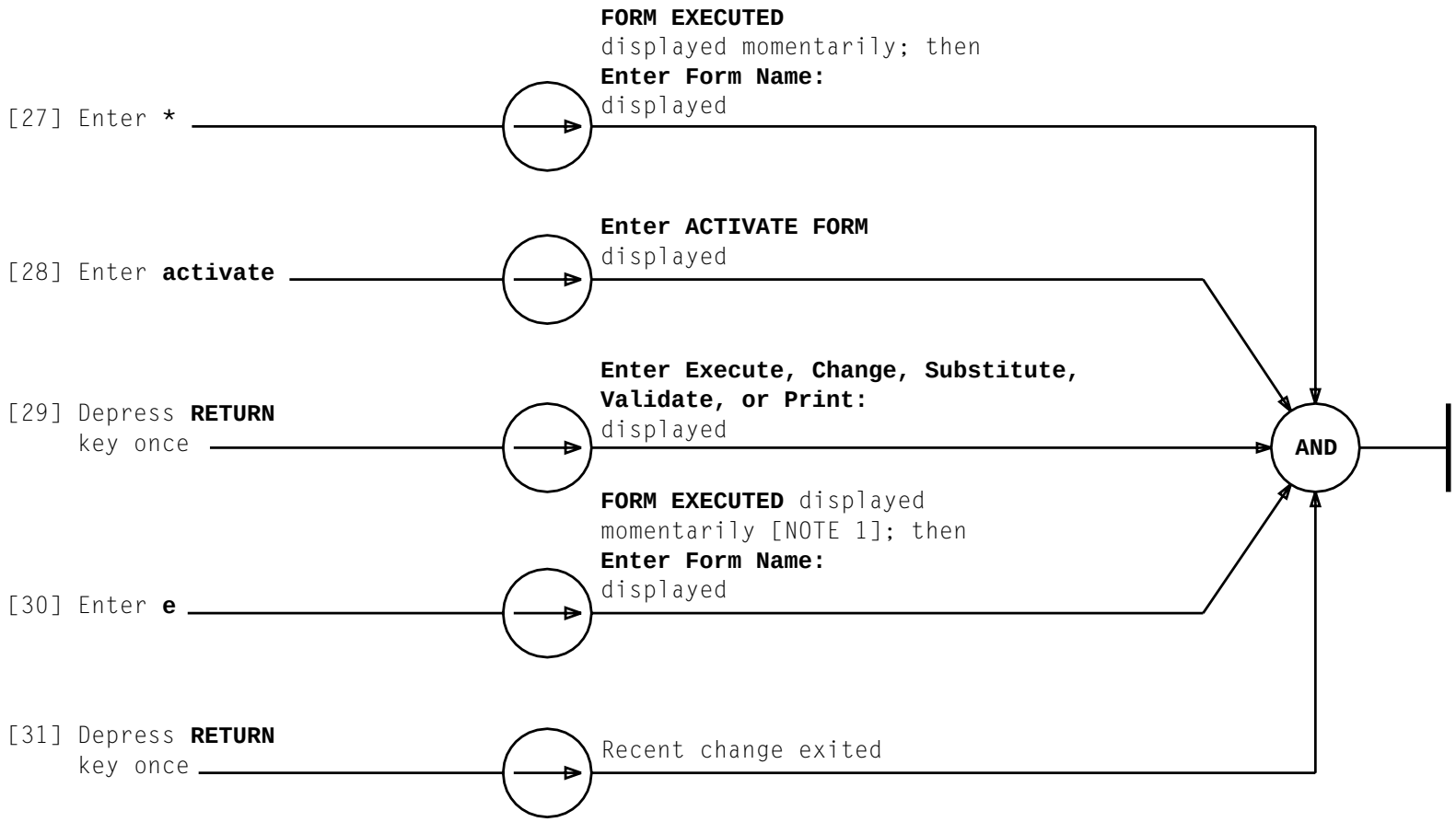


TABLE A	
SIZE	**VALUE**
12MB	**0x3f**
14MB	**0x7f**
16MB	**0xff**

RECENT CHANGE MAIN STORE MEMORY EQUIPAGE AND MEMBER VERSION



RECENT CHANGE MAIN STORE MEMORY EQUIPAGE AND MEMBER VERSION



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

RECENT CHANGE MAIN STORE MEMORY EQUIPAGE AND MEMBER VERSION

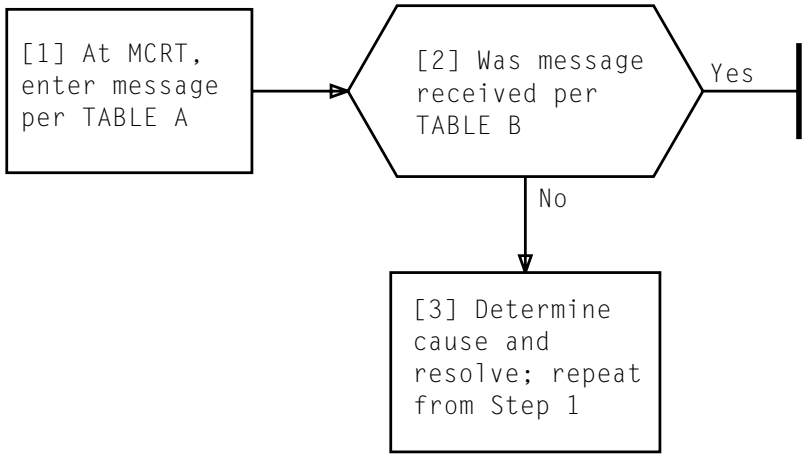


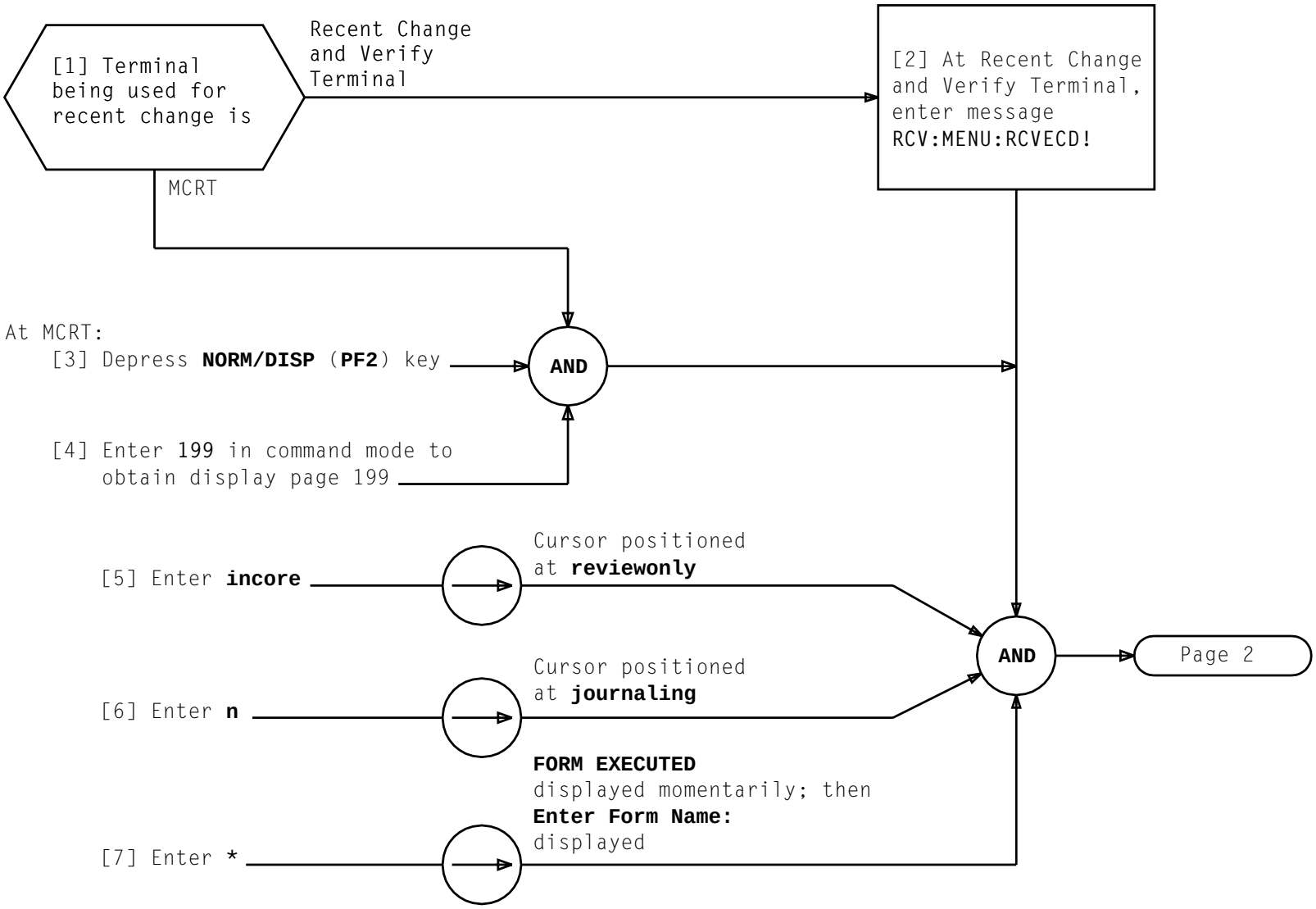
TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	SET:AMA;CONTROL;a:OPTION TP,OFFICEID b,HOCPSWD c,BACKUPSWD d! a = IC or OC b = 6-digit office ID assigned by HOC c = 10-digit password for normal HOC d = 10-digit password for backup HOC

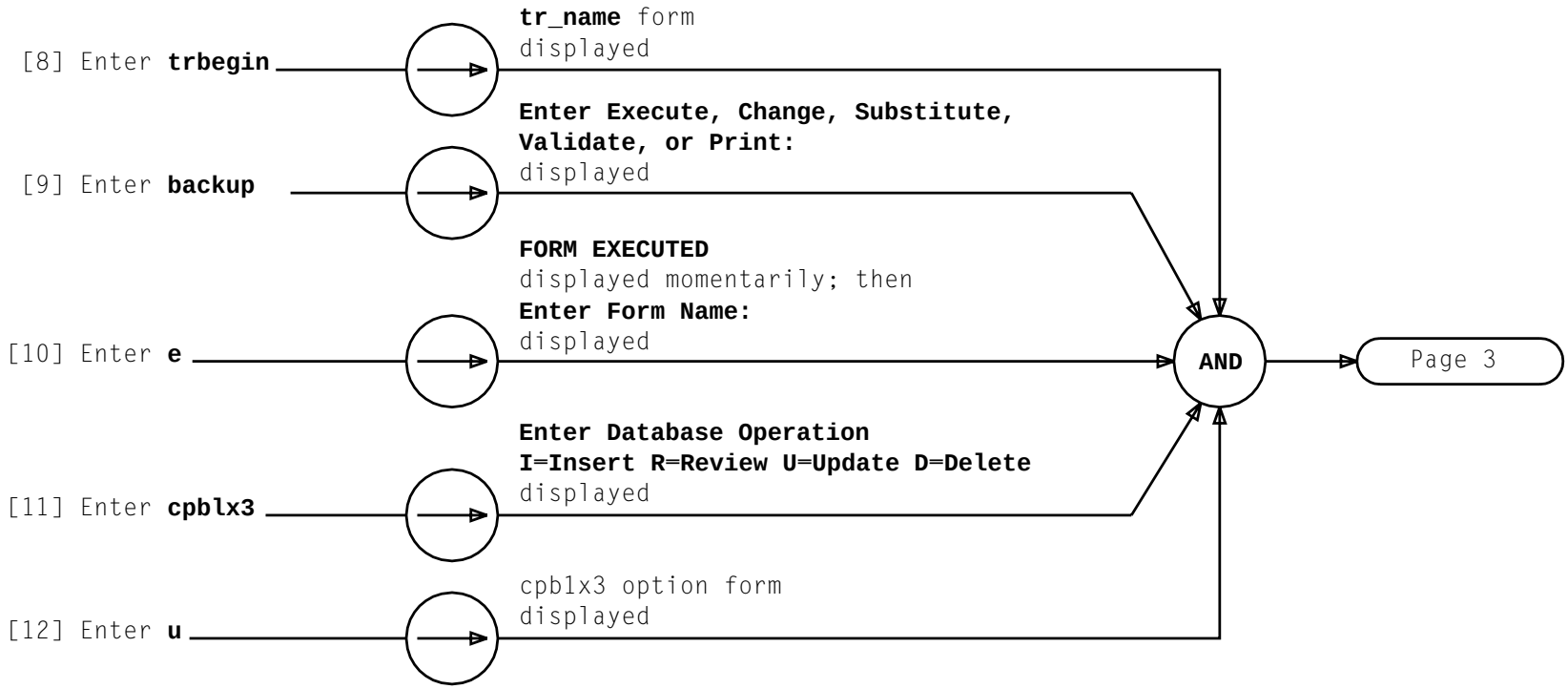
TABLE B

MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMA CONTROL FILE FOR a STREAM OFFICE ID b DAYS UNTIL EXPIRATION x PROCESS START TIME 00:00 PROCESS STOP TIME 00:00 DEFAULT MT FOR AUTO TAPE START x AMA OPTION IS TELEPROCESSING DATA TRANSFER c MANUALLY INHIBITED AMAT PASSWORD 0040b HOC PASSWORD d BACKUP HOC PASSWORD e PASSWORD FROM LAST SESSION x TAPE SESSION IS NOT IN PROGRESS TELEPROCESSING SESSION IS NOT IN PROGRESS AUTOMATIC TAPE WRITING f INHIBITED TAPE SEQUENCE NUMBER x TAPE DATA SET ID x a = IC or OC b = Entered office ID c = IS (if AMA session is inhibited) or IS NOT (if AMA session is allowed) d = Entered normal HOC password e = Entered backup HOC password f = IS (if tape writing is inhibited) or IS NOT (if tape writing is allowed) x = Don't care

DEFINE OFFICE-DEPENDENT DATA ON 3B COMPUTER



CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED



CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED

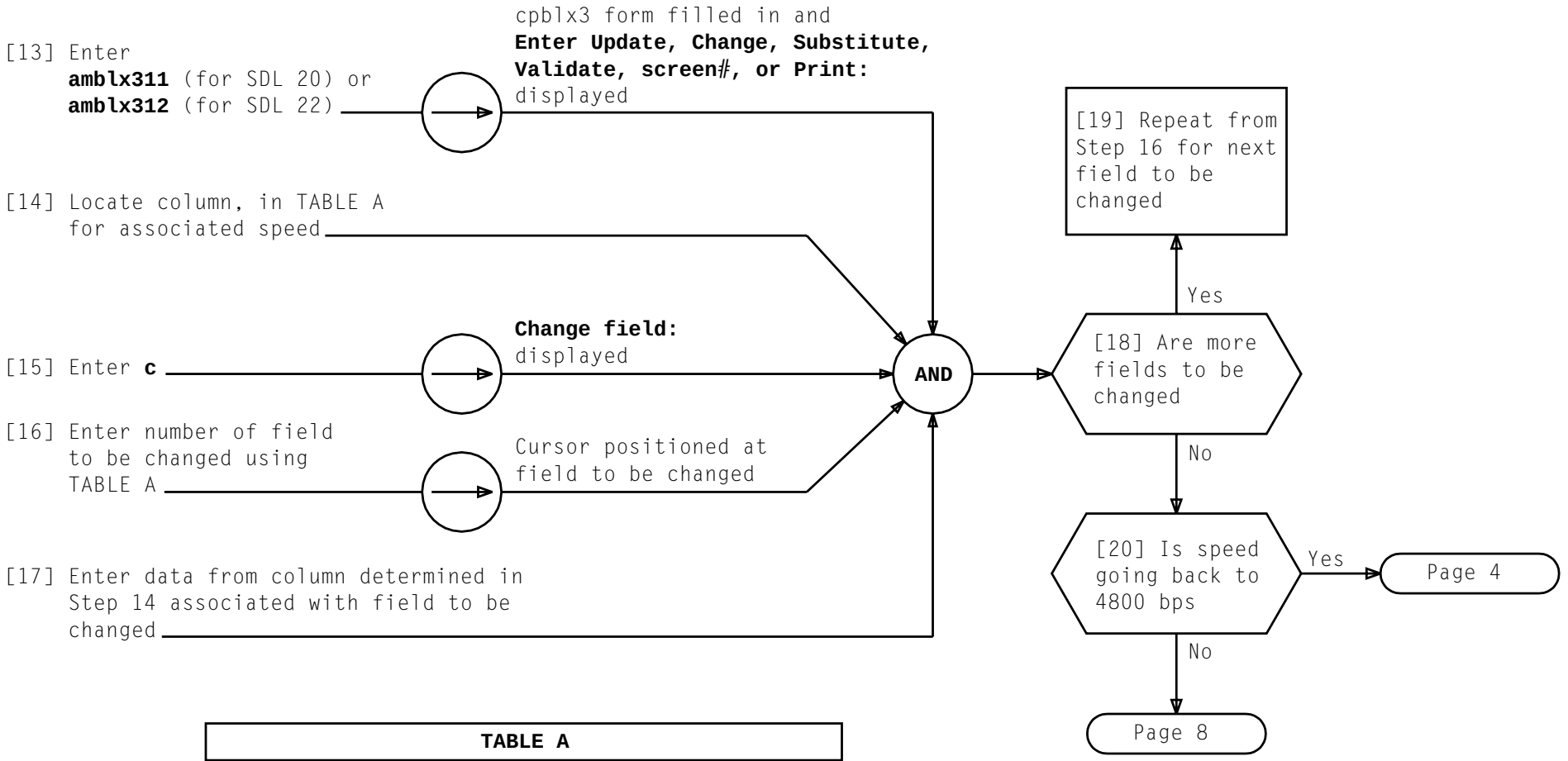
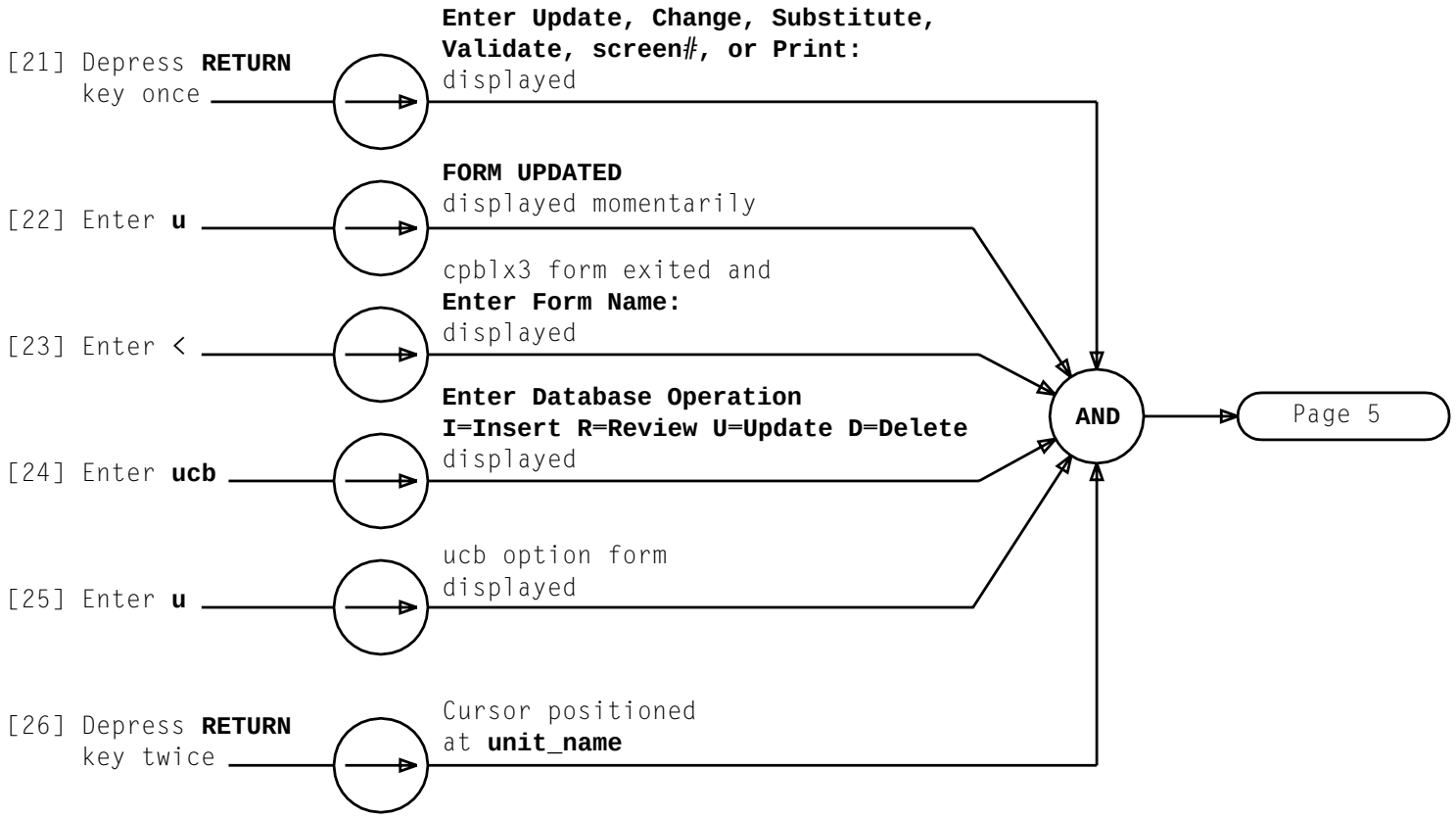


TABLE A

FIELD TO BE CHANGED	DATA TO BE ENTERED IF 4800 BPS	DATA TO BE ENTERED IF 9600 BPS
2	4800	9600
4	2048A	209A
6	noACU	private
19	y	y

CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED



CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED

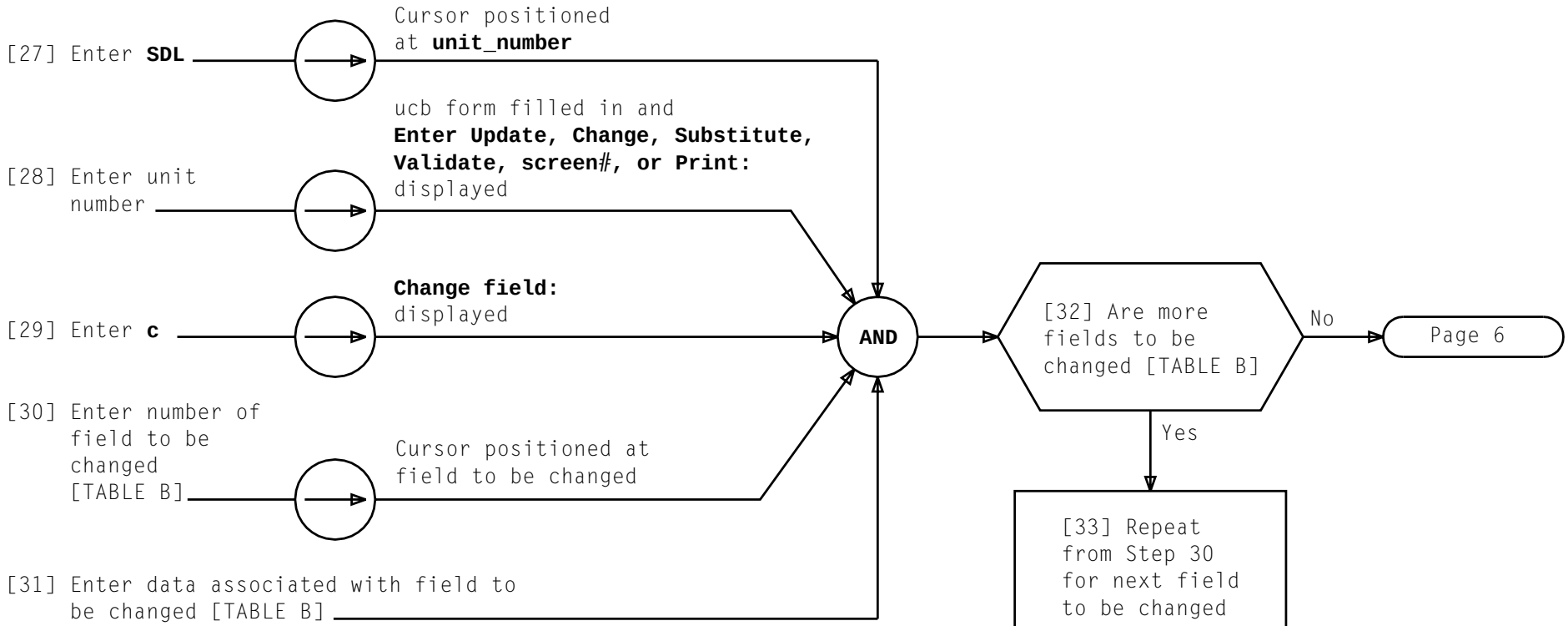
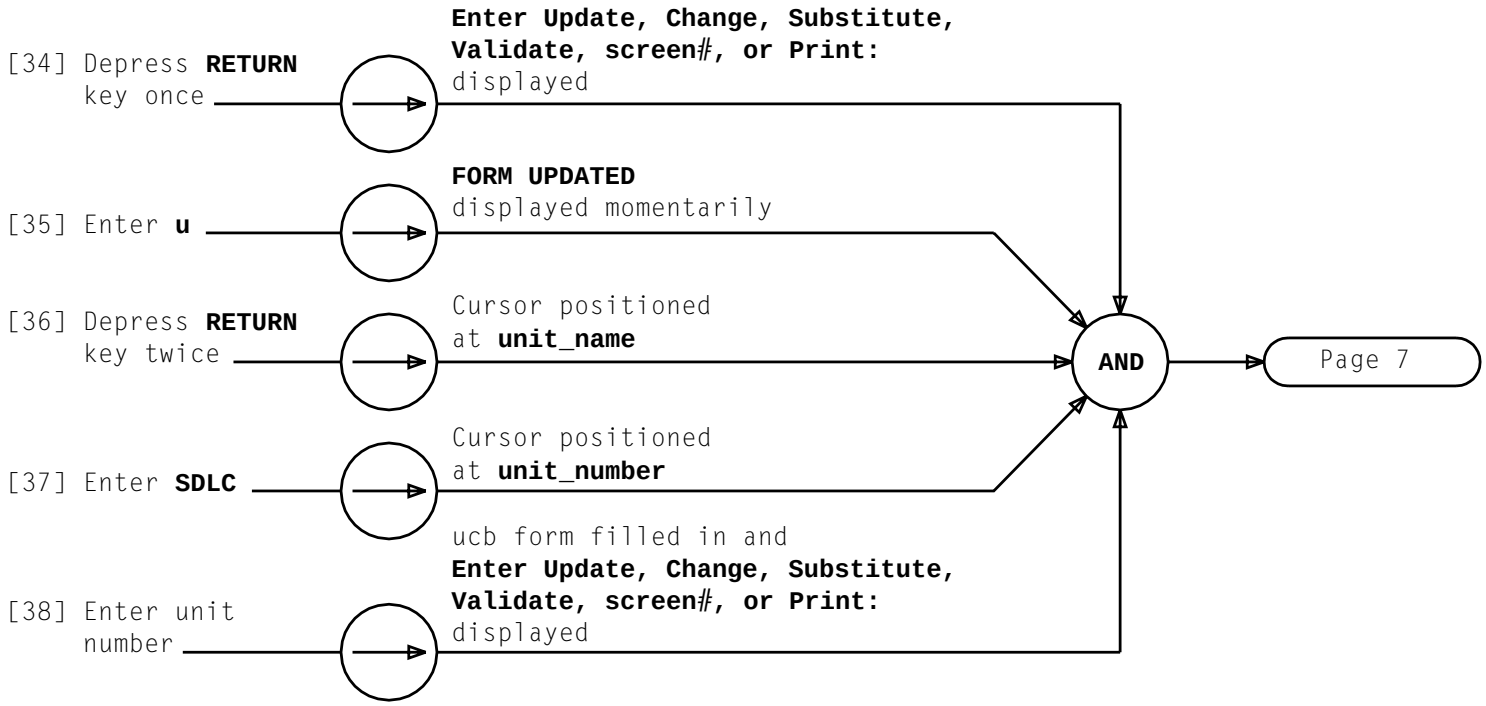


TABLE B

FIELD TO BE CHANGED	DATA TO BE ENTERED
12	SDL
30	pu/sdl

CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED



CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED

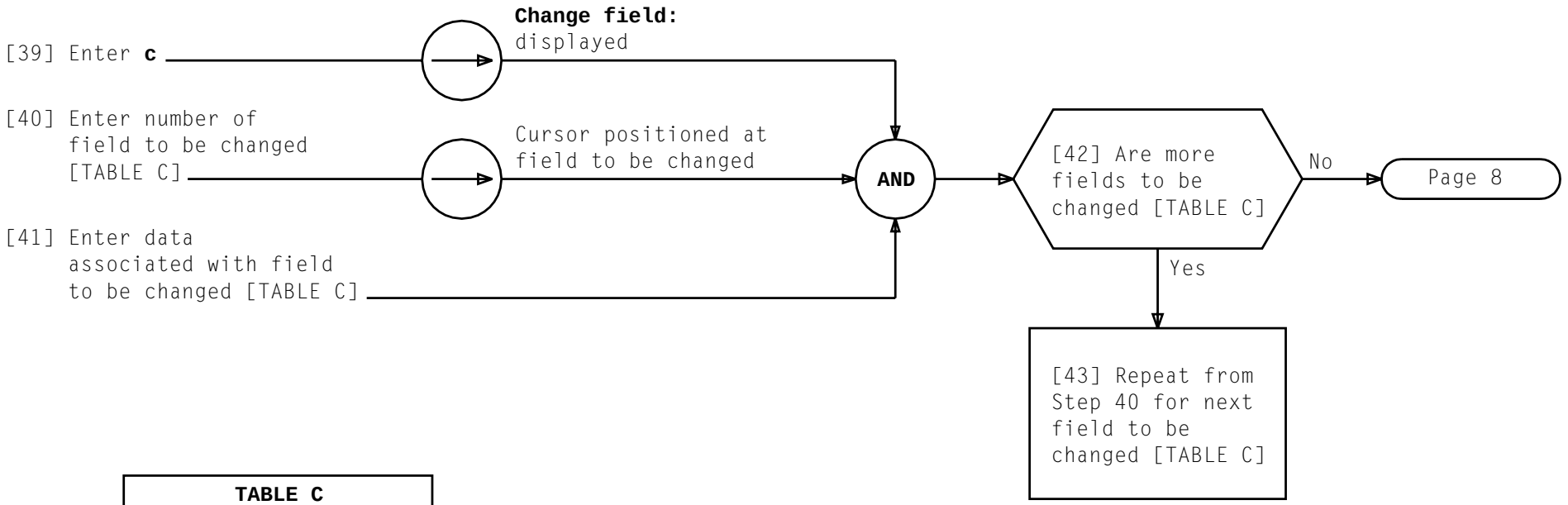
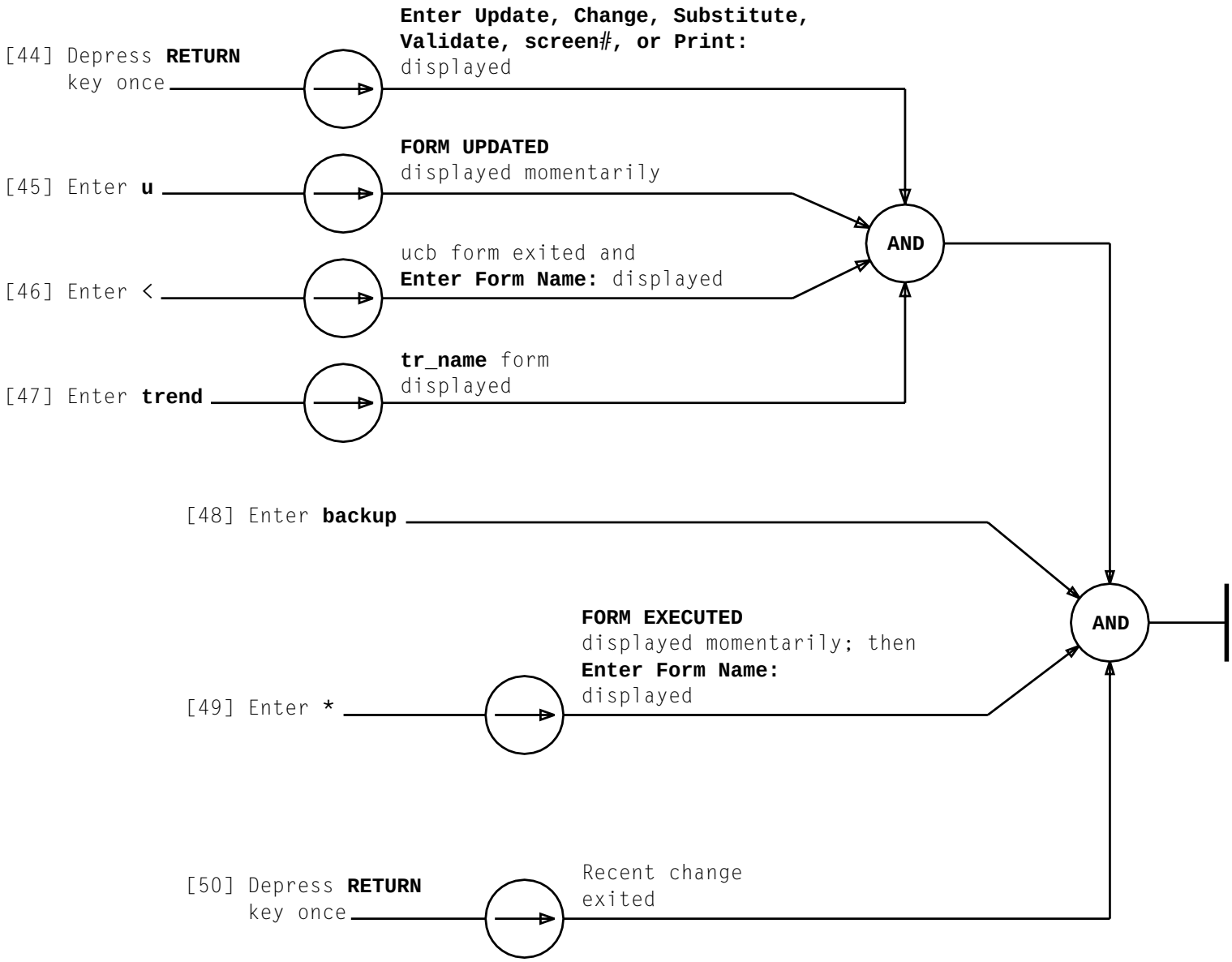


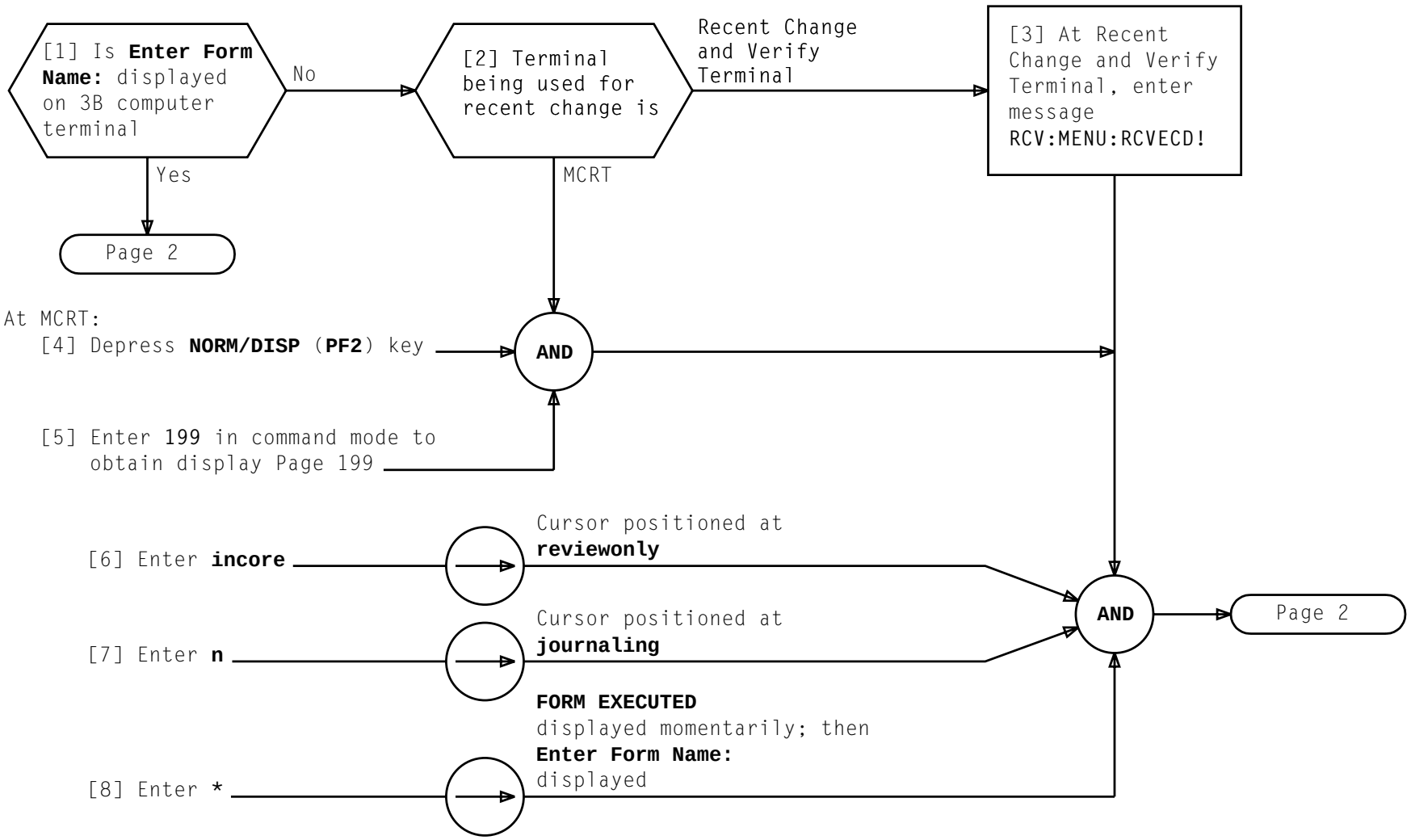
TABLE C

FIELD TO BE CHANGED	DATA TO BE ENTERED
12	SDLC
22	' (apostrophe)
27	' (apostrophe)
30	pu/sdlc
62	t075
64	15

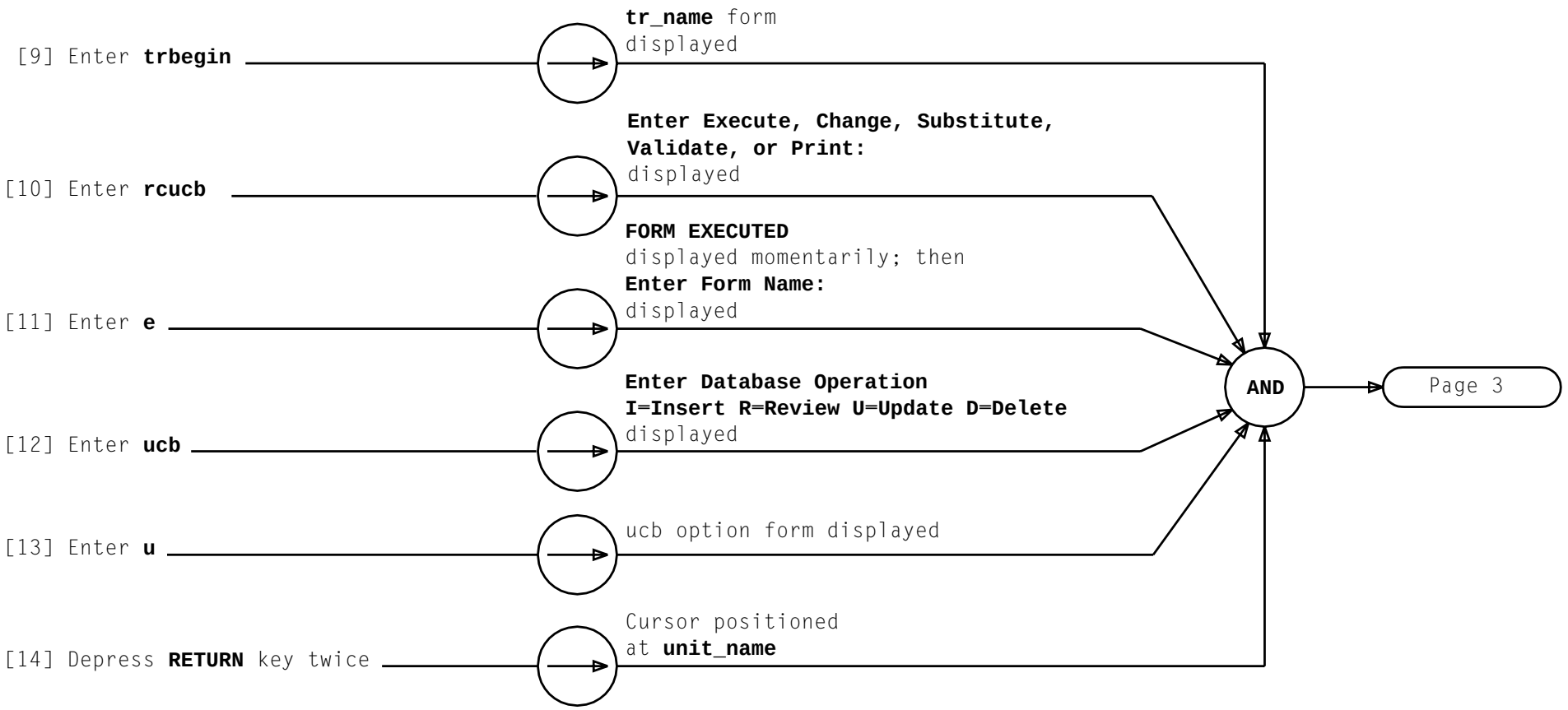
CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED



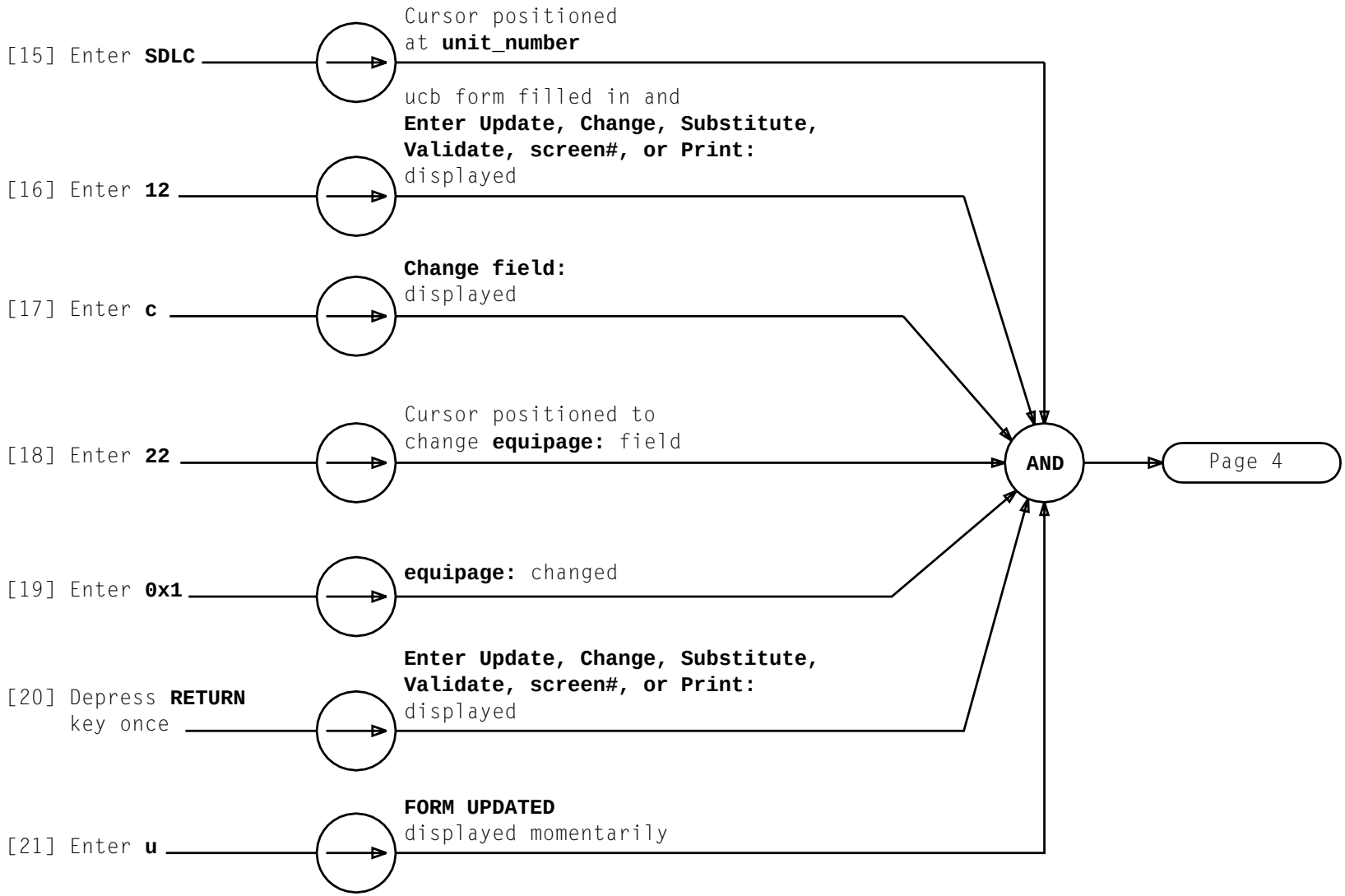
CHANGE SDL AND SDLC ECD PARAMETERS BACK TO LOWER SPEED



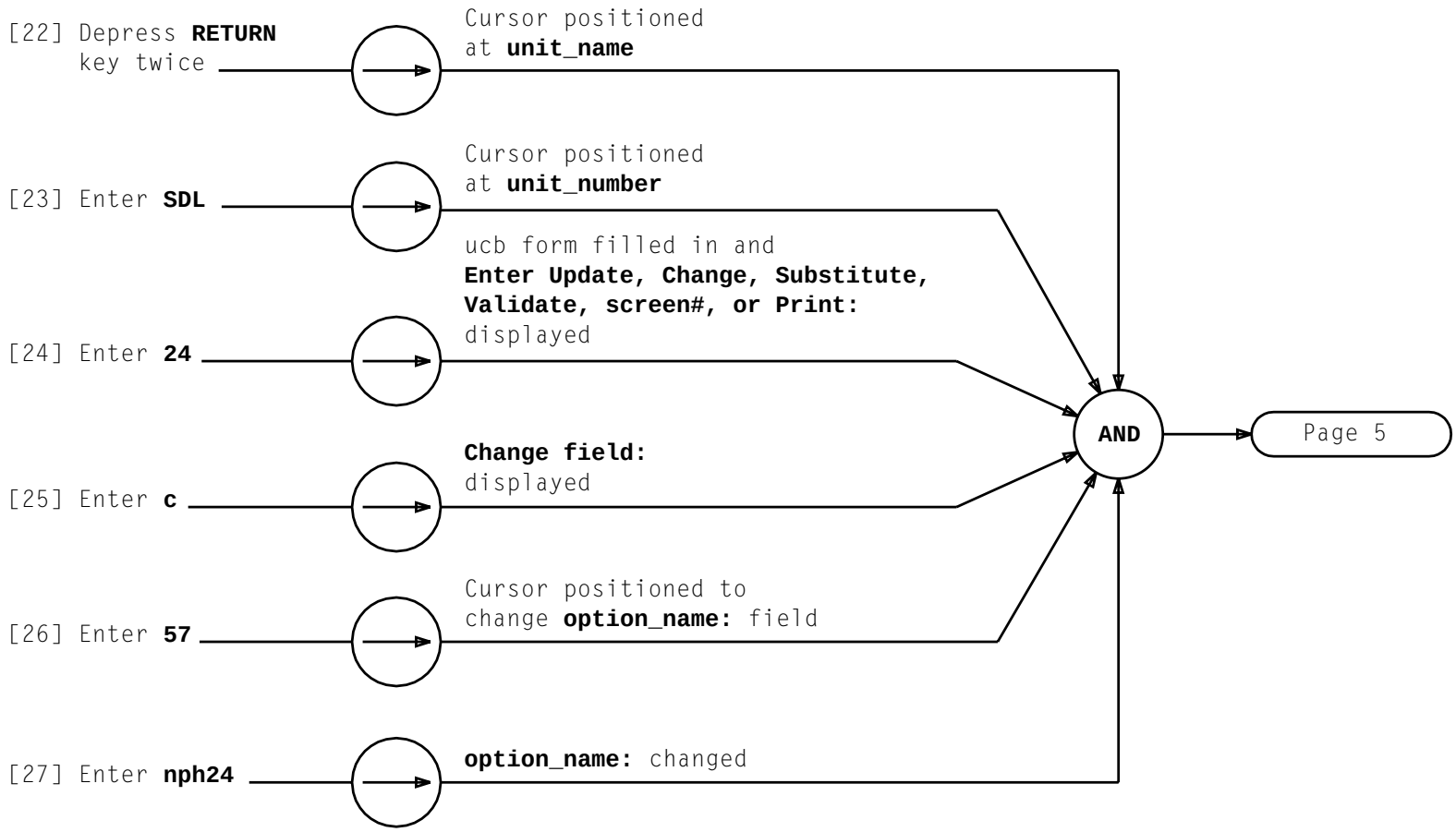
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



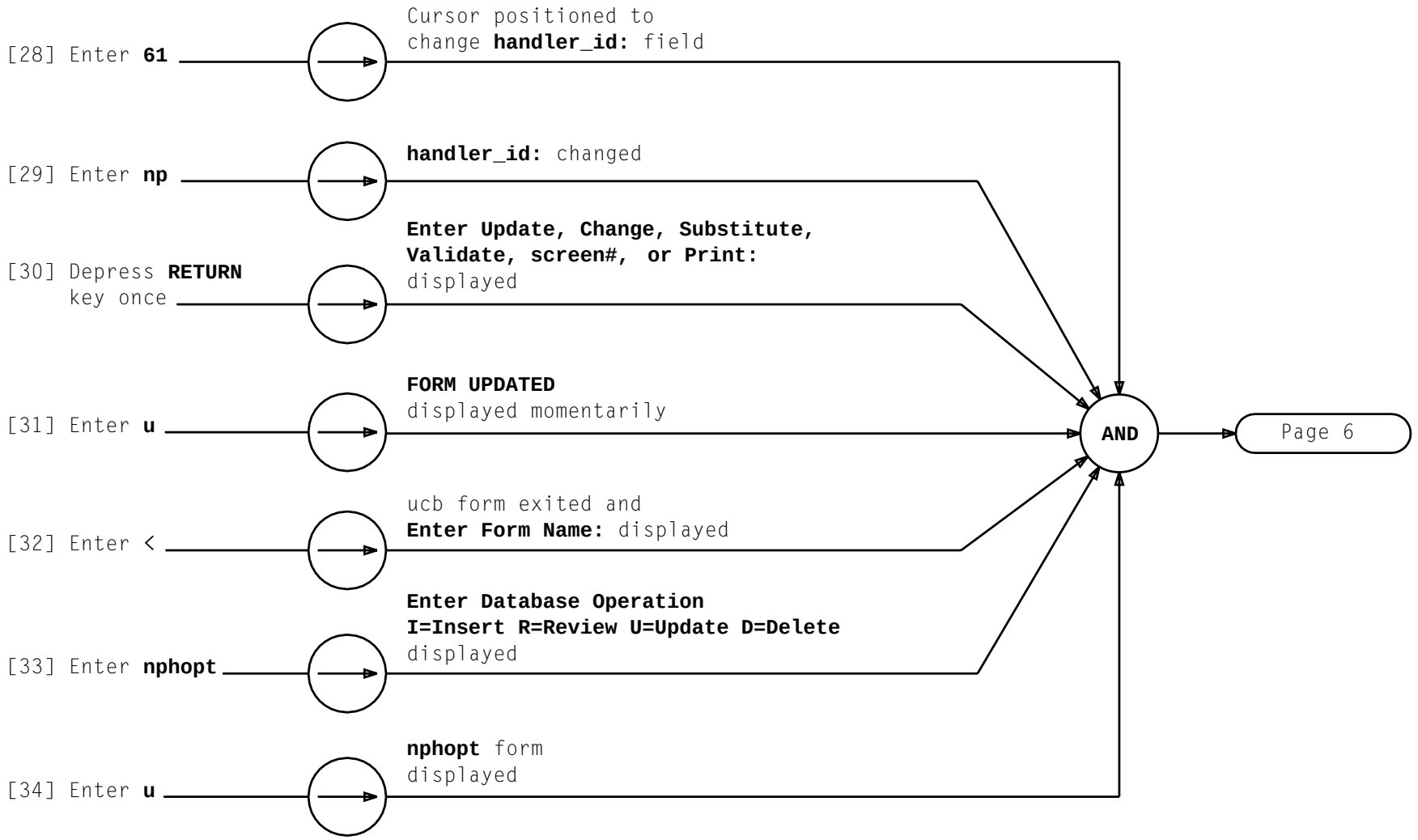
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



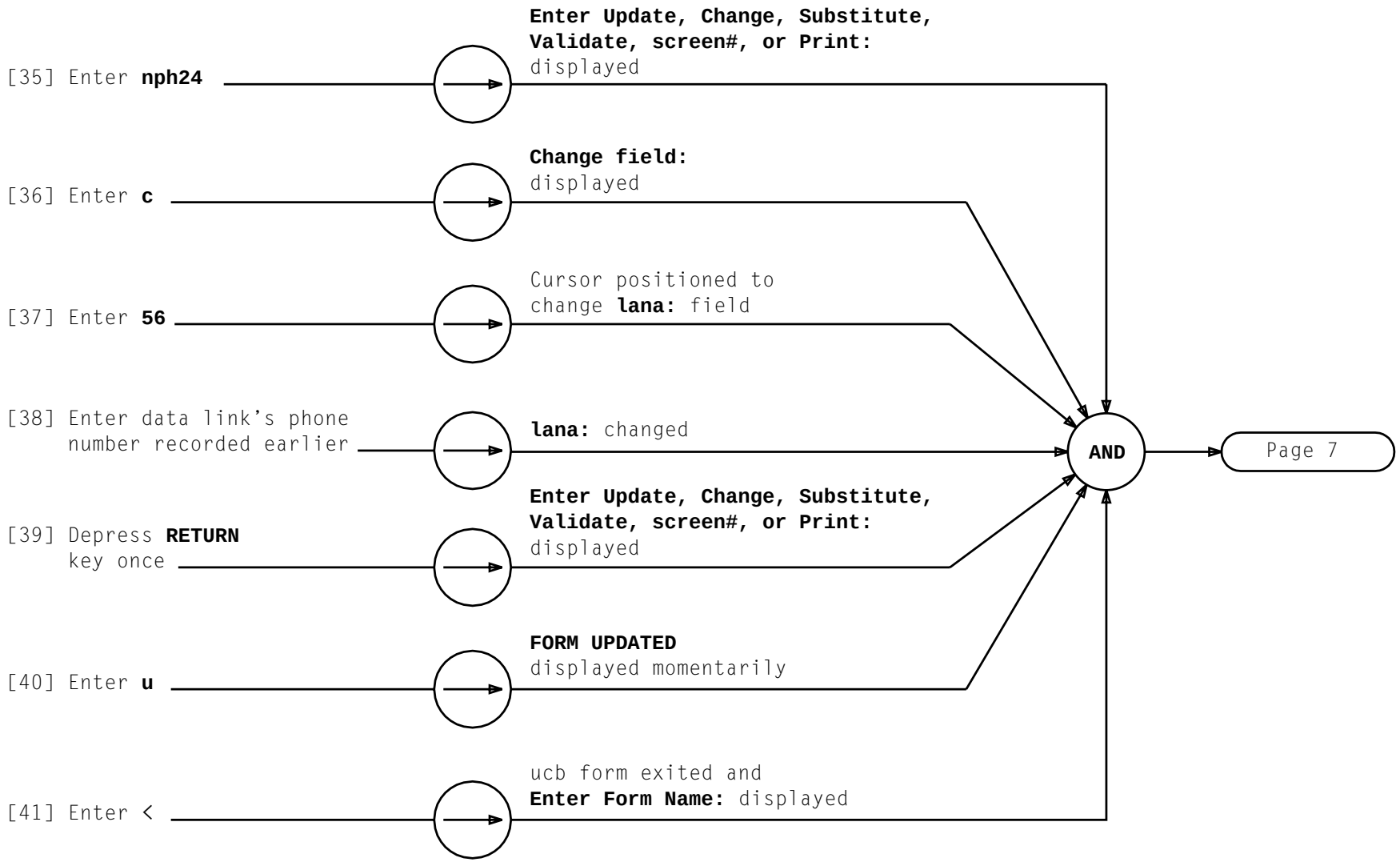
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



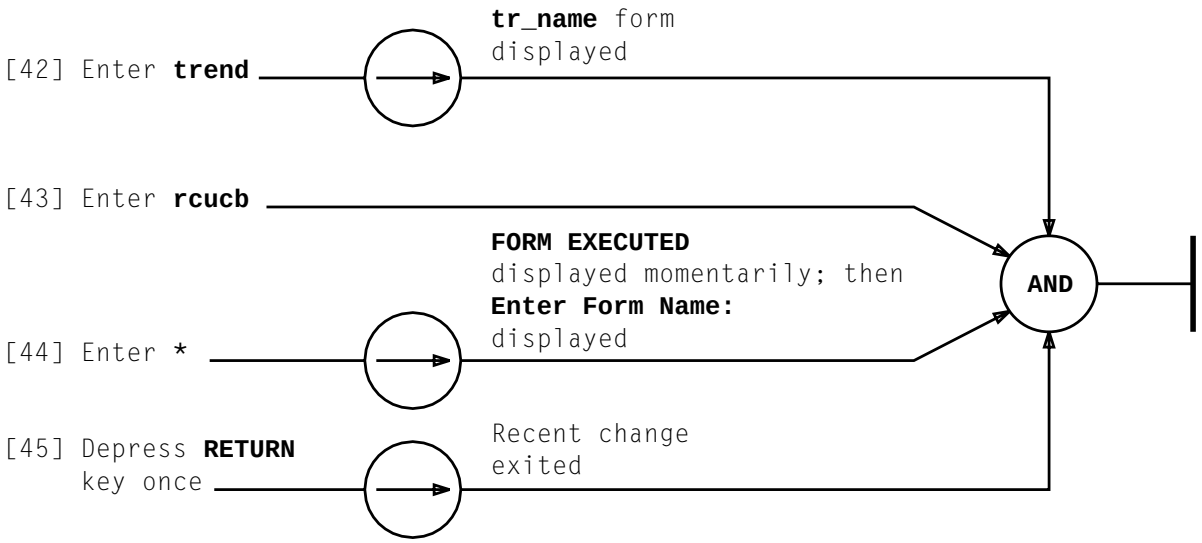
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA

[1] Mount 2400-foot tape on available tape drive (write enable ring attached) [DLP-511]

[2] At APS MCRT, enter message
EXC:ENVIR:UPROC,FN"/tools/bootaud**"!**

[3] Wait for **EXC ENV UPROC** /tools/bootaud **COMPLETED** message and ensure no errors received. Do not continue until errors, if received, are corrected

[4] Enter message
DUMP:FILE:ALL,FN"/etc/pdtspec**"!** and ensure that printout in TABLE A is received

[5] Enter message
COPY:BKDISK;START:SRC"/dev/vtoc**",TD"**/dev/mtX**8",TPSIZE 2200!**
X = tape drive number (Step 1)

[6] Wait for
COPY BKDISK DISMOUNT GENERIC TAPE LABEL AND MOUNT NEXT TAPE message

[7] Demount tape [DLP-512] label rt0 1, and remove write ring from tape

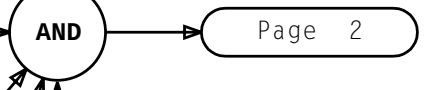


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	DUMP FILE ALL COMPLETED /dev/vtoc /dev/lboot /dev/lboot21 (4AP16) /dev/boot /dev/bboot /dev/root /dev/etc /dev/db /dev/amafiles /dev/amabfiles

WRITE BACKUP TAPES

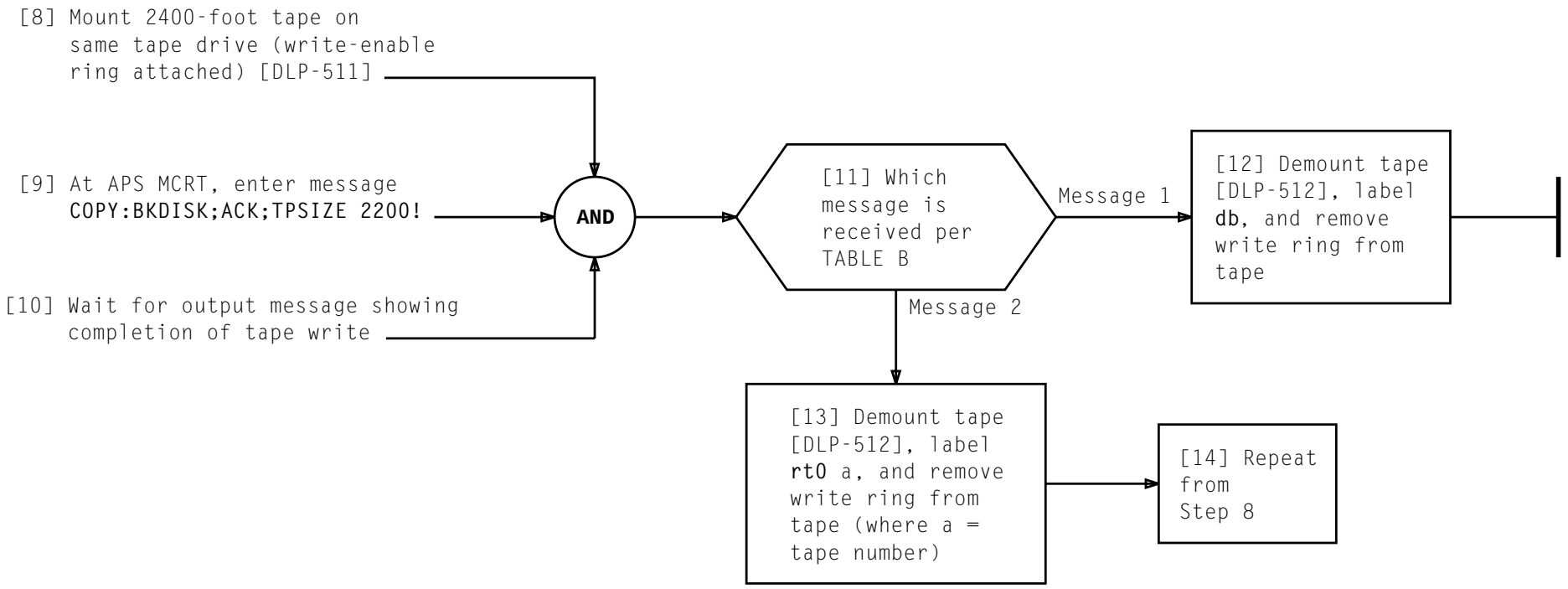


TABLE B

MESSAGE NUMBER	OUTPUT MESSAGE
1	COPY BKDISK COMPLETED, DISMOUNT DATABASE TAPE AND LABEL
2	COPY DISMOUNT GENERIC TAPE LABEL AND MOUNT NEXT TAPE

WRITE BACKUP TAPES

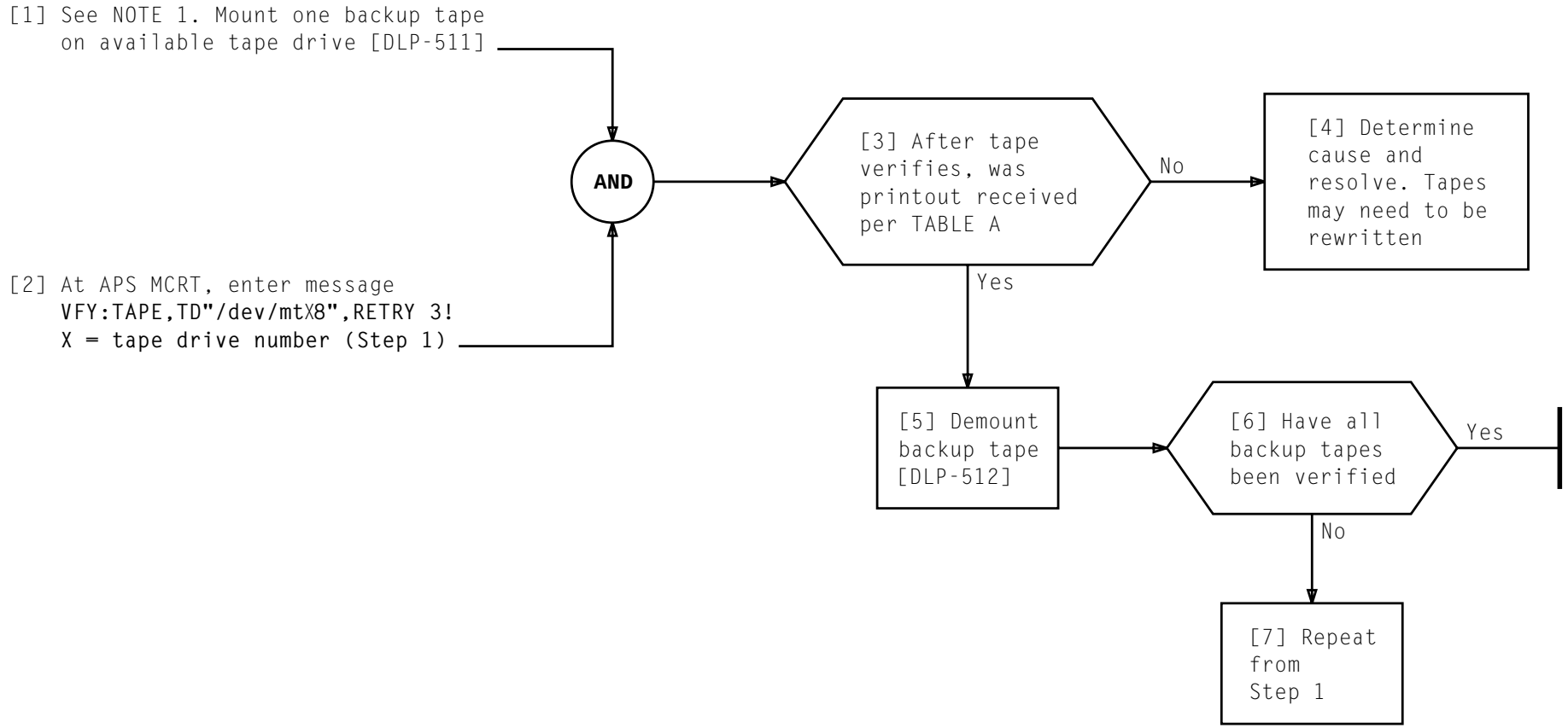


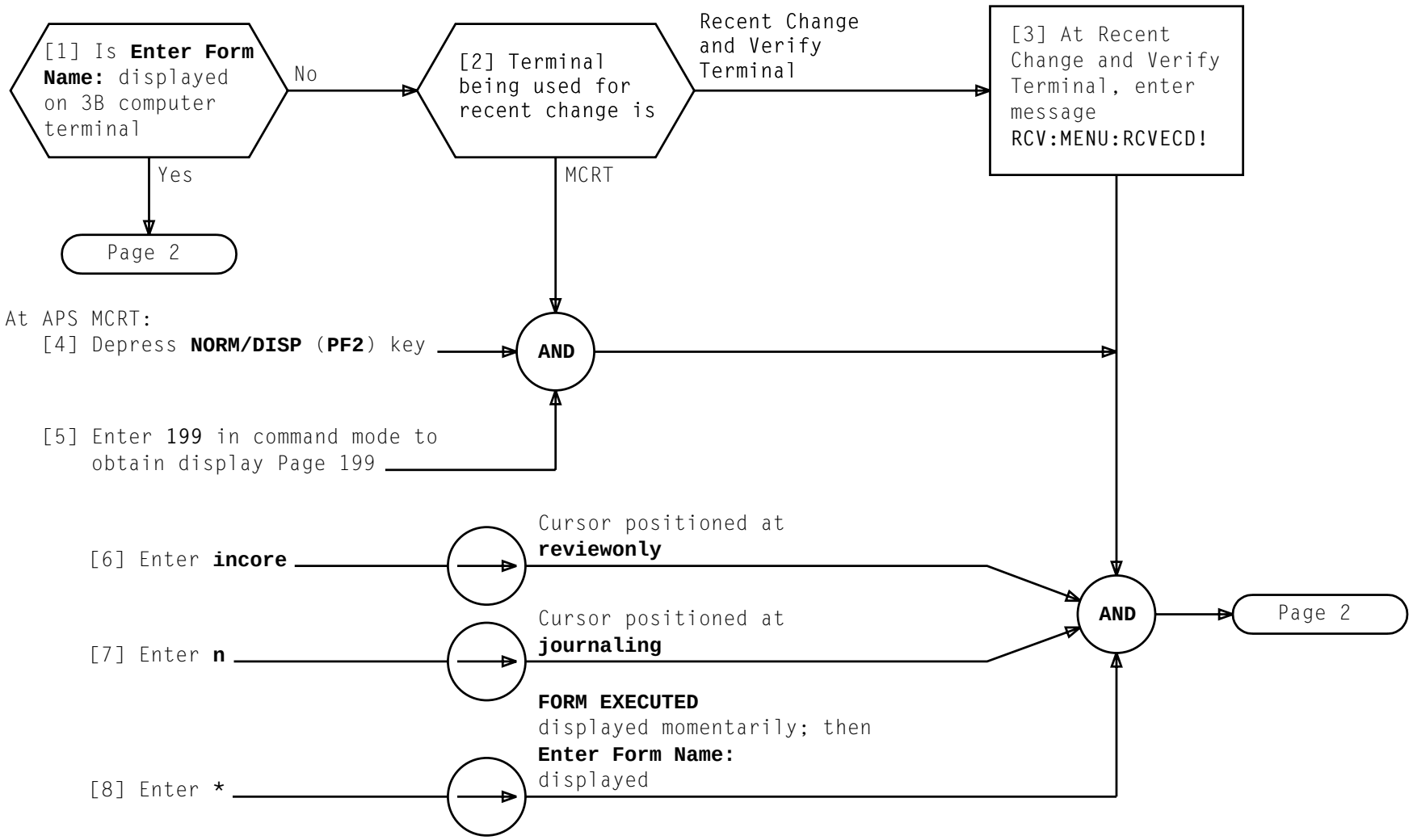
TABLE A

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

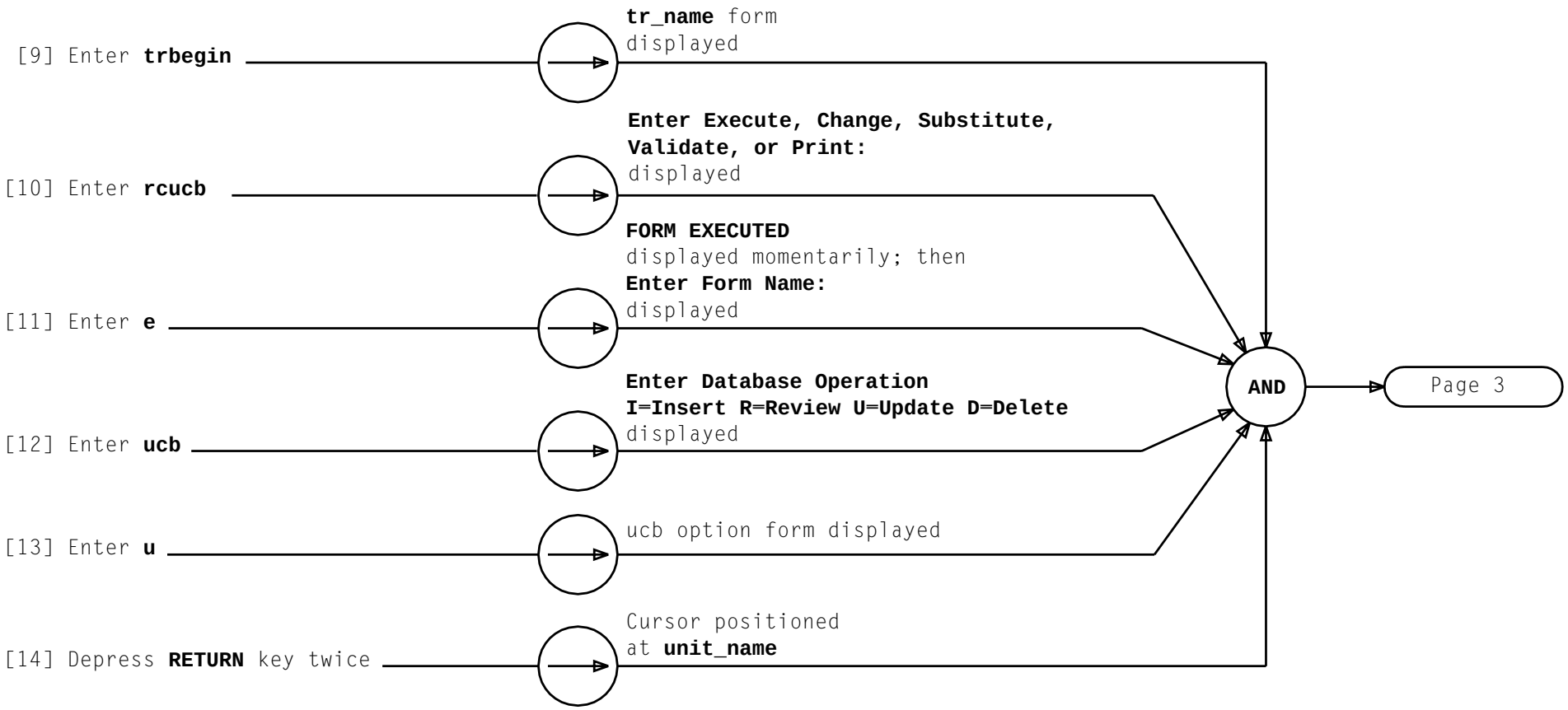
NOTE 1

Verify backup generic tapes from lowest to highest **rt0** number; then backup **db** tape

VERIFY BACKUP TAPES



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA

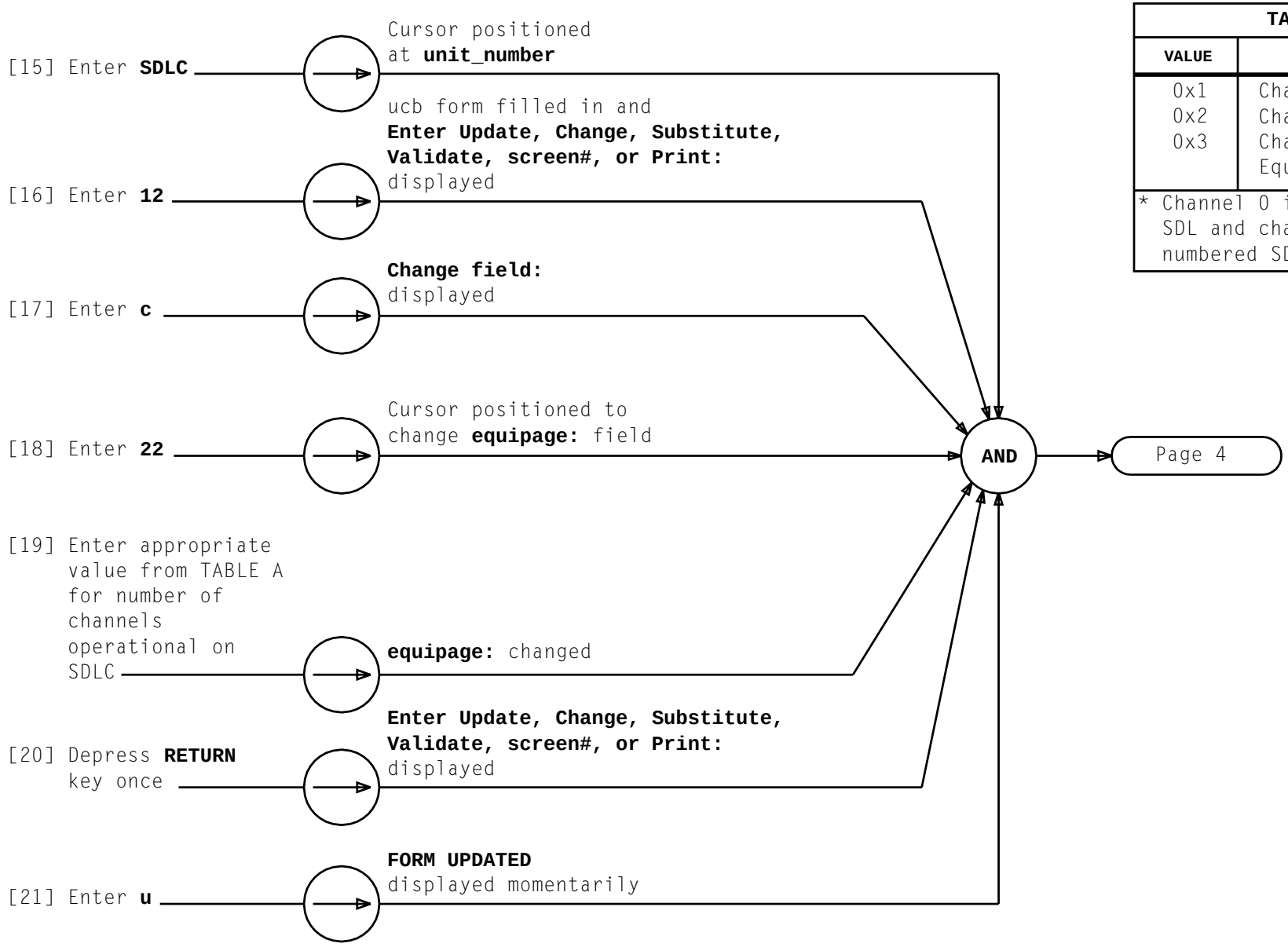
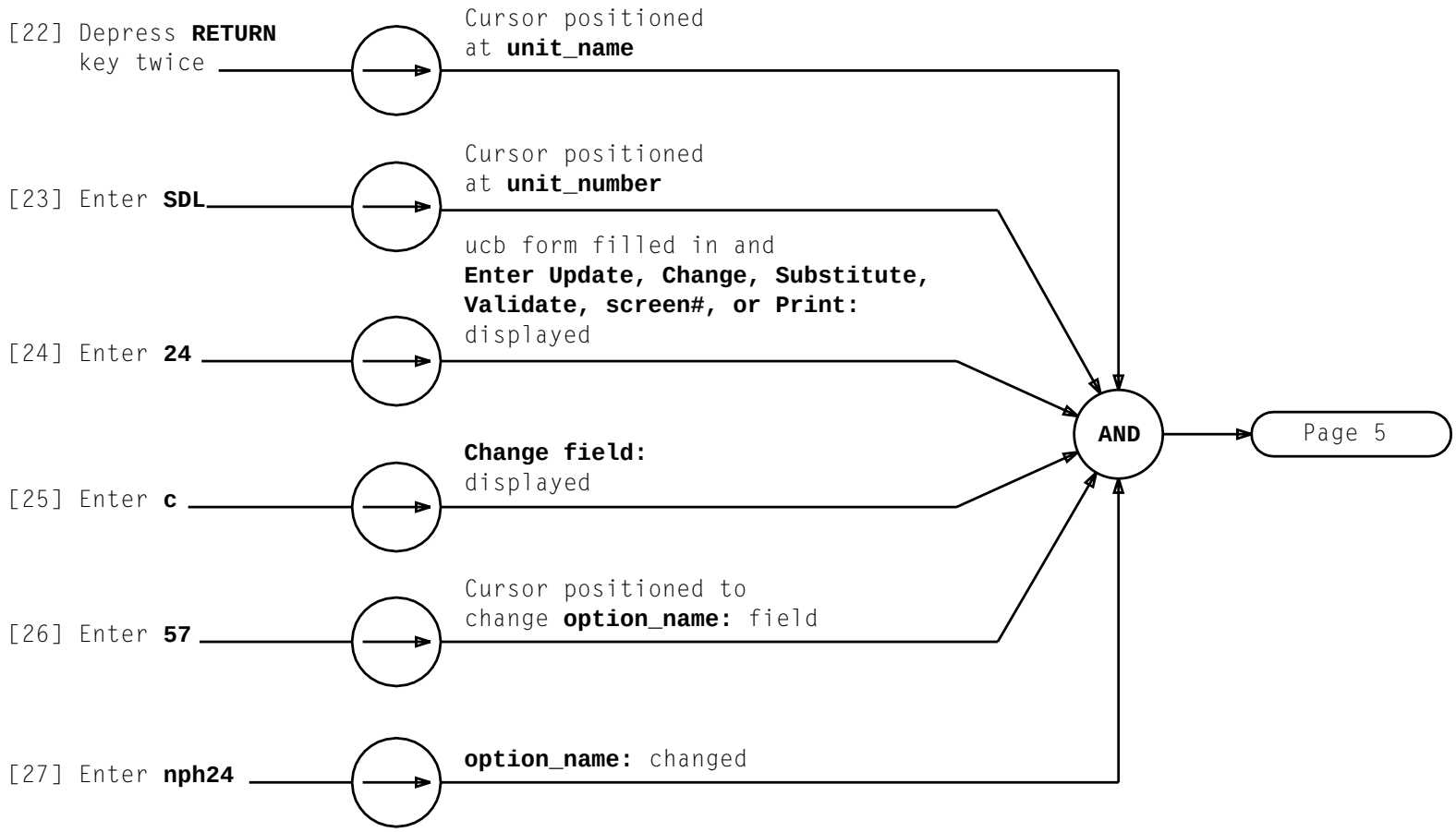


TABLE A

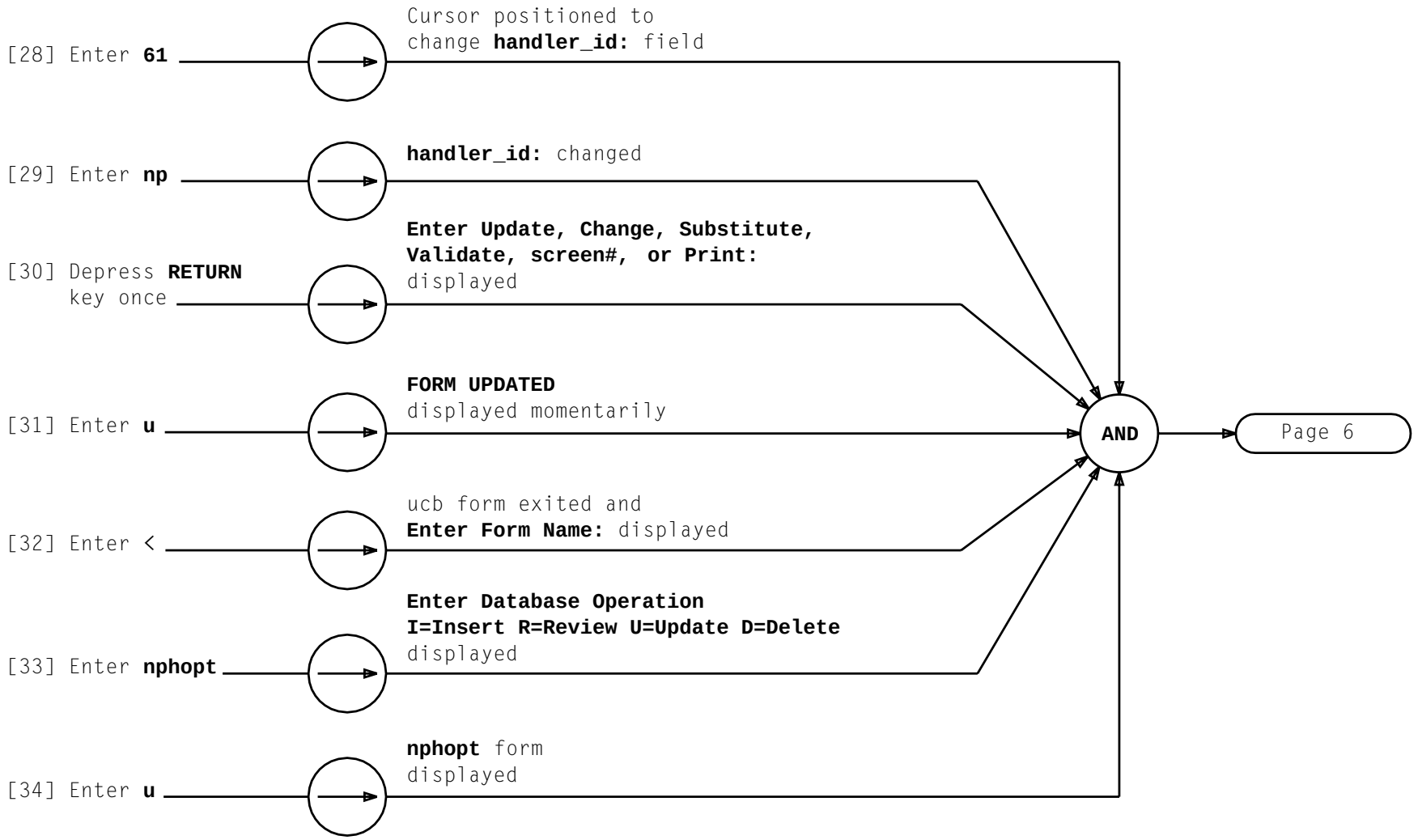
VALUE	MEANING*
0x1	Channel 0 Equipped
0x2	Channel 1 Equipped
0x3	Channels 0 and 1 Equipped

* Channel 0 is even numbered SDL and channel 1 is odd numbered SDL

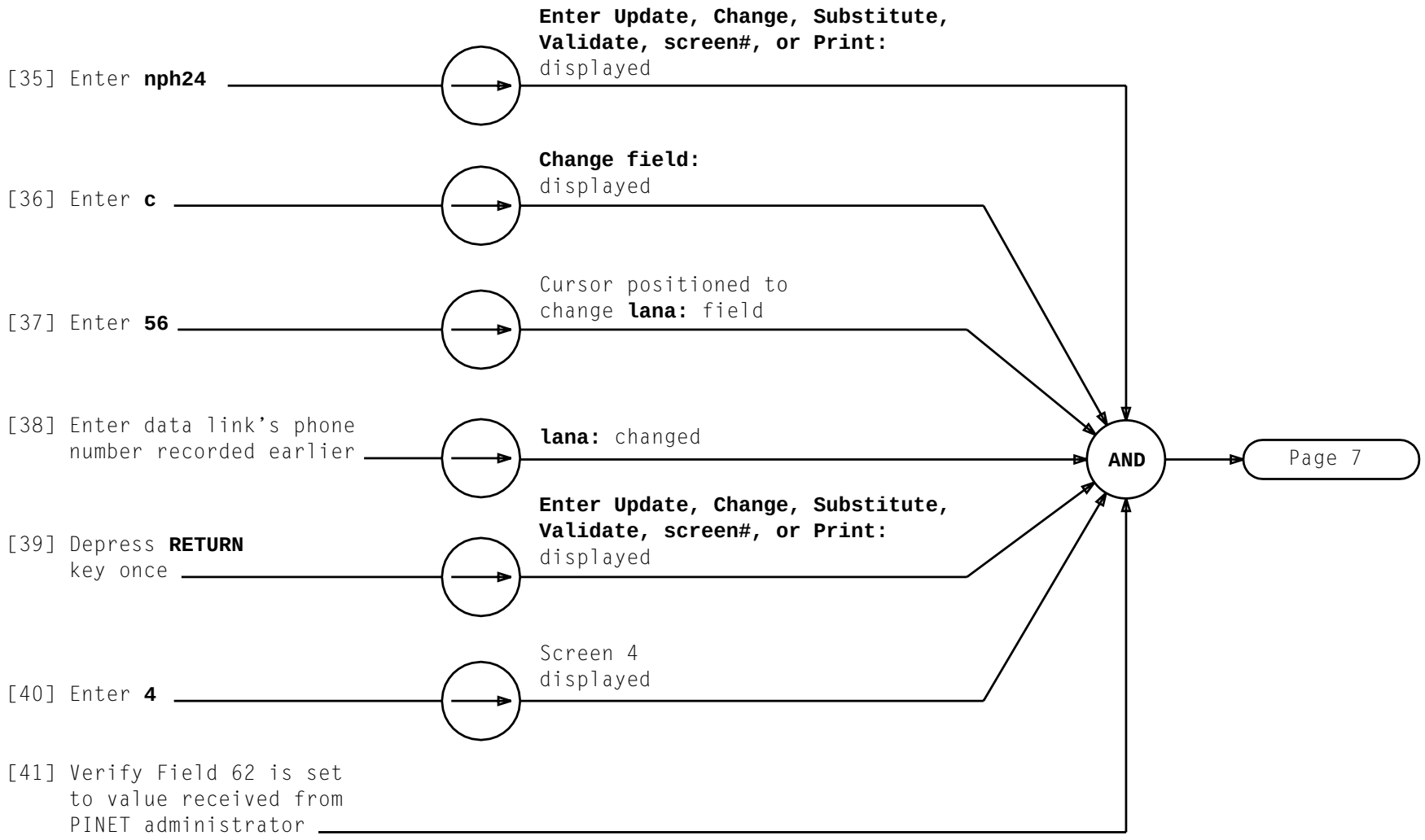
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



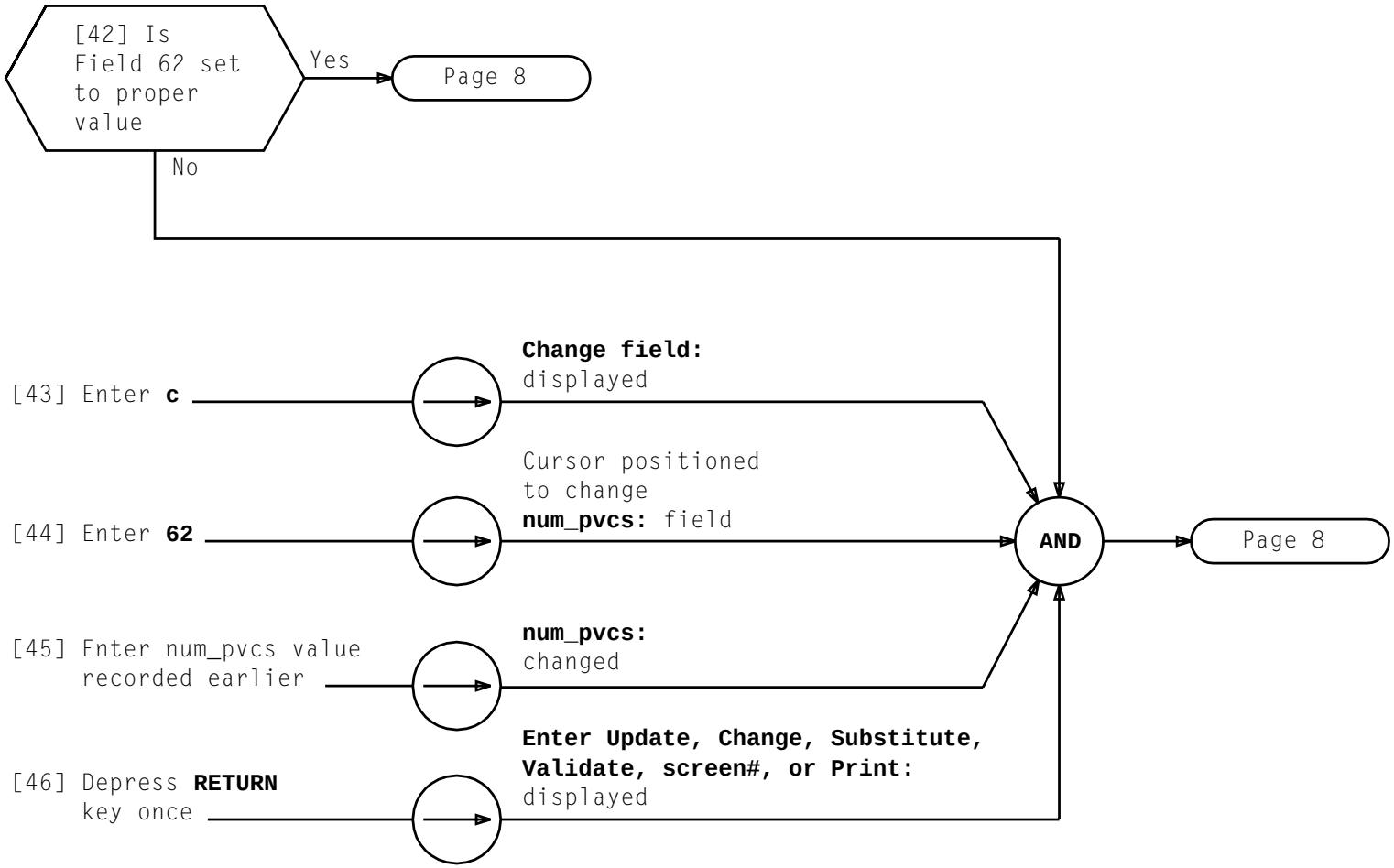
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



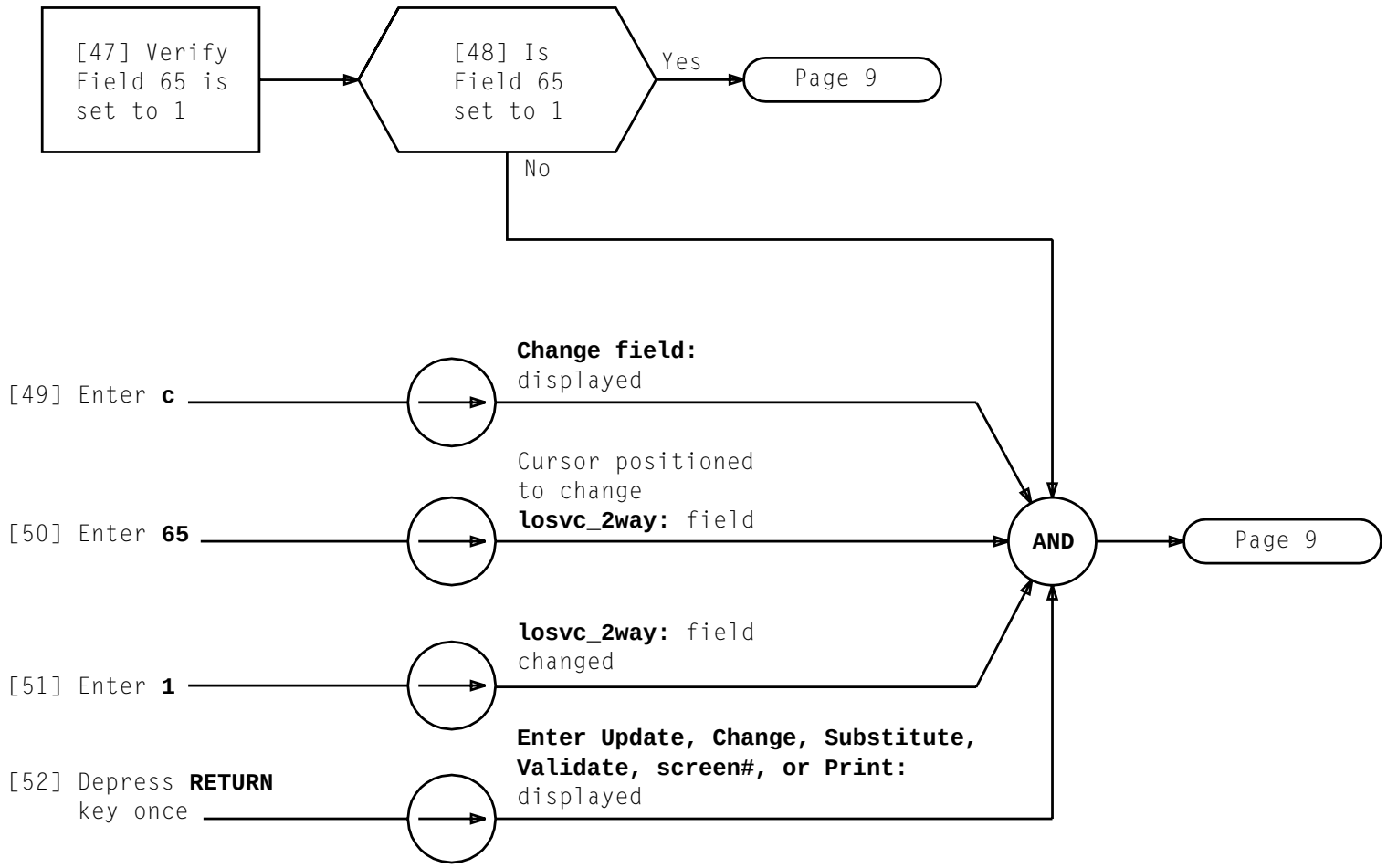
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



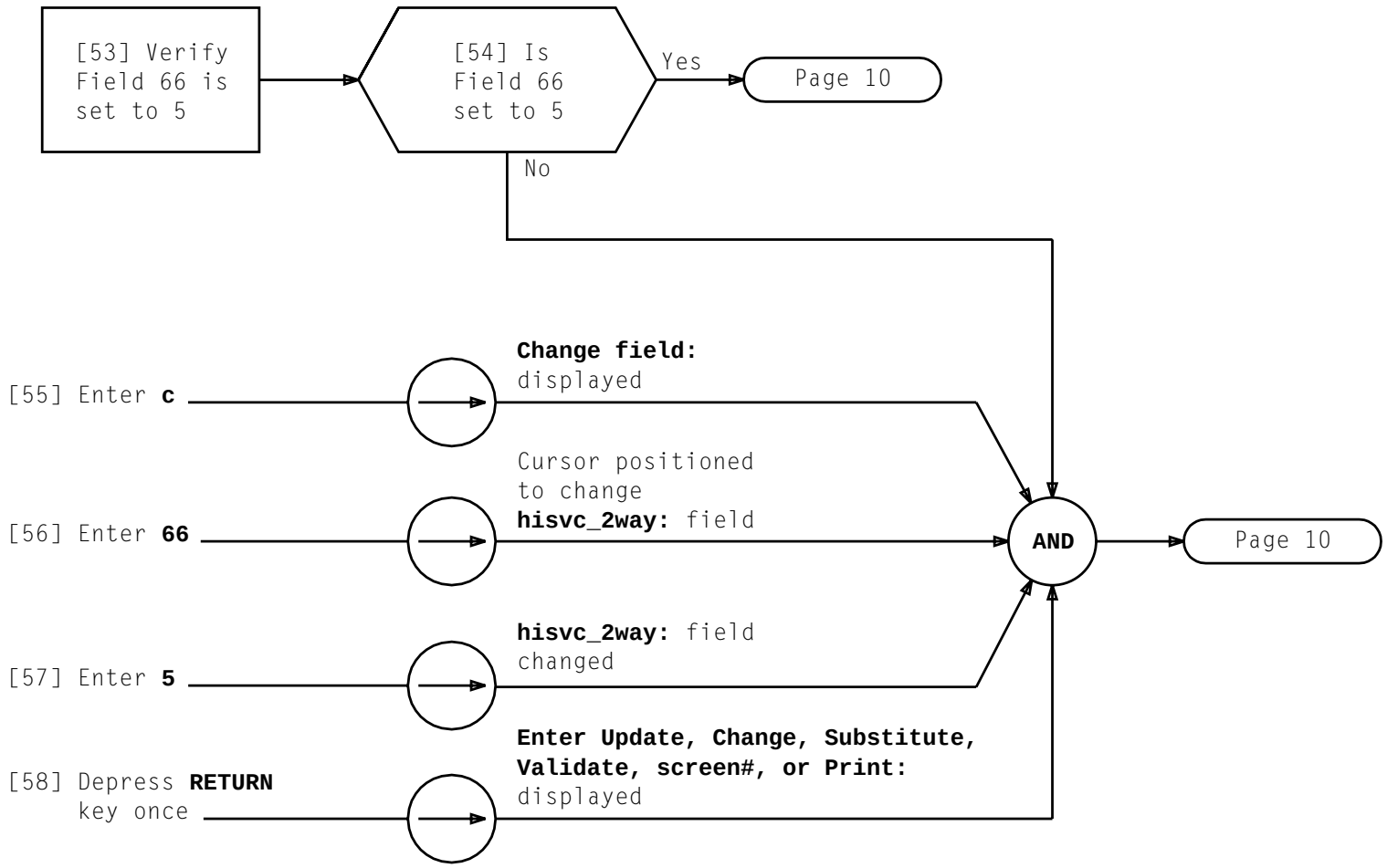
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA

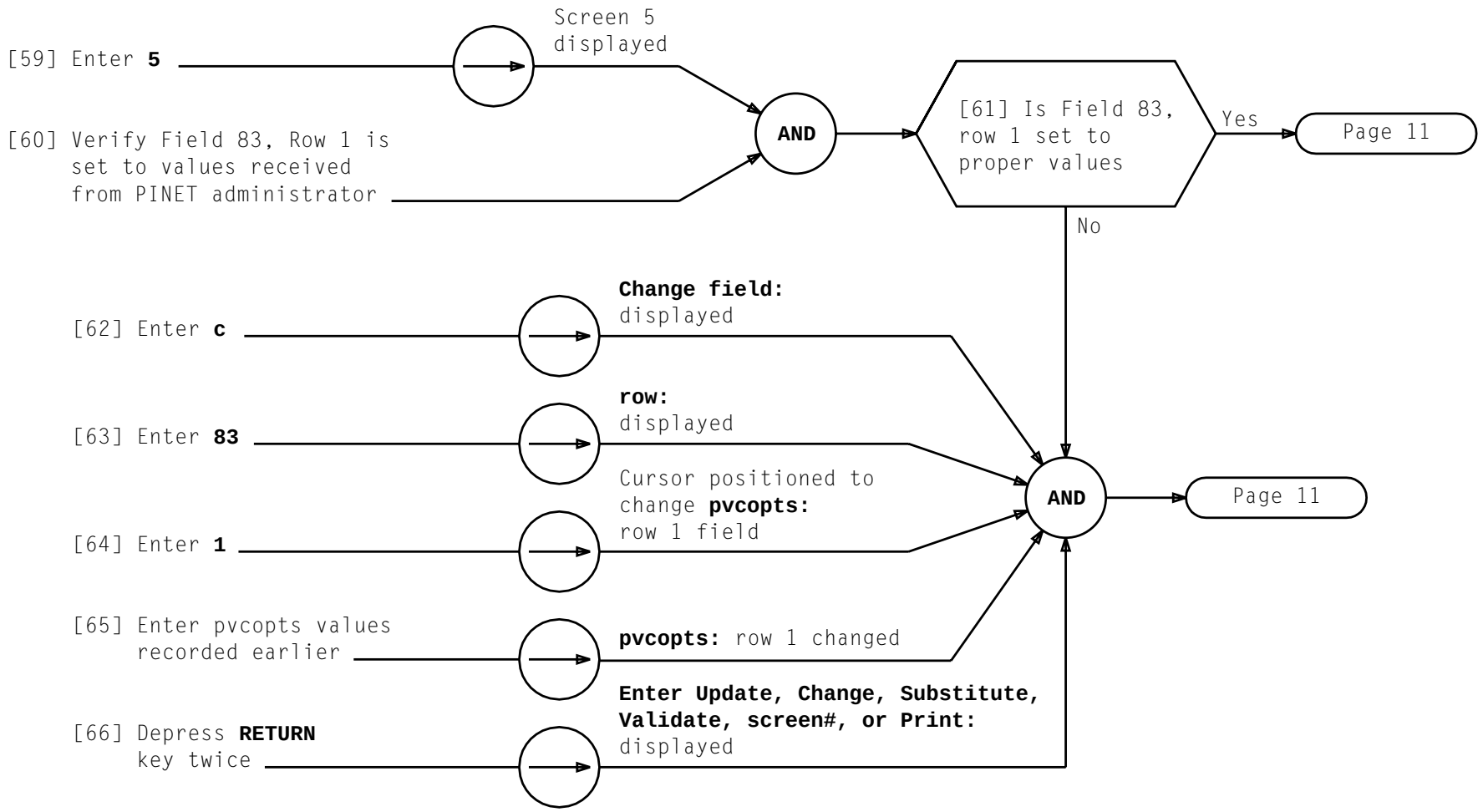


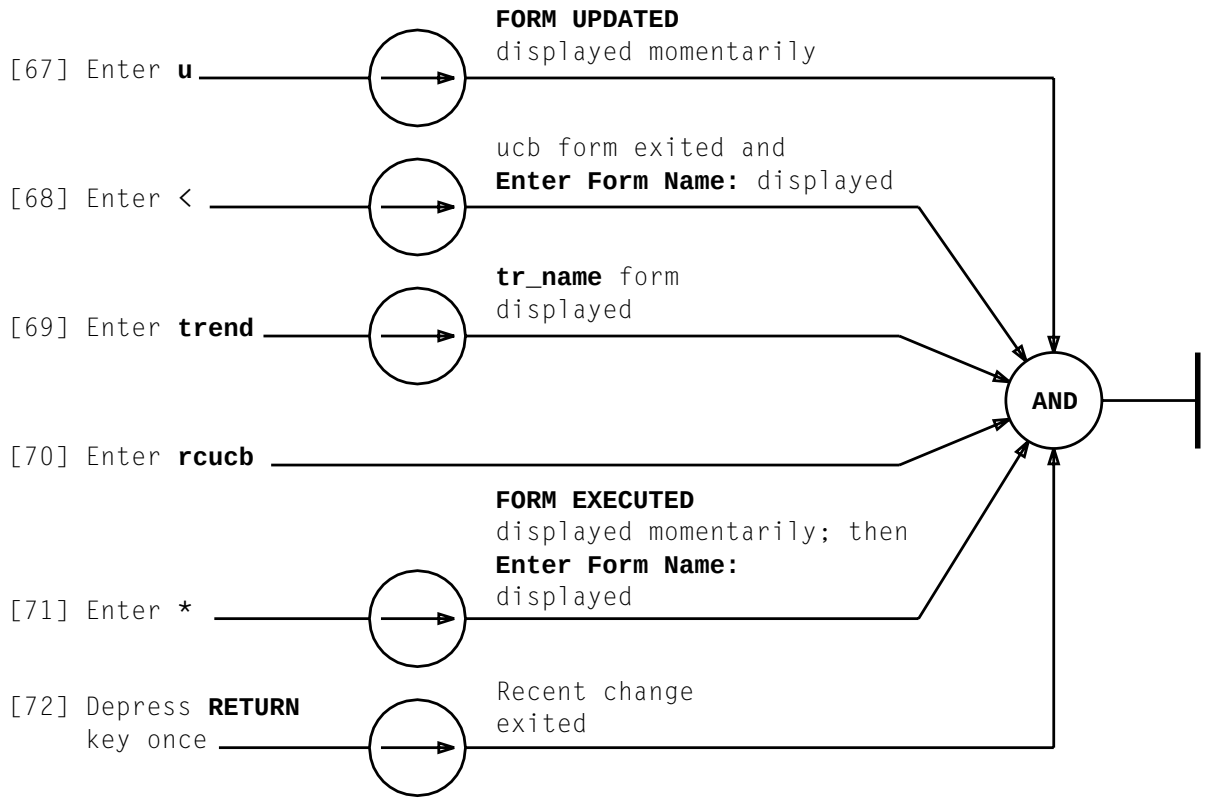
RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA


[53] Verify Field 66 is set to 5
[54] Is Field 66 set to 5
Yes
Page 10
No
[55] Enter **c**
Change field: displayed
Cursor positioned to change **hisvc_2way:** field
[56] Enter **66**
AND
Page 10
hisvc_2way: field changed
[57] Enter **5**
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed
[58] Depress **RETURN** key once


[59] Enter **5**
Screen 5 displayed
[60] Verify Field 83, Row 1 is set to values received from PINET administrator
AND
[61] Is Field 83, row 1 set to proper values
Yes
Page 11
No
[62] Enter **c**
Change field: displayed
[63] Enter **83**
row: displayed
[64] Enter **1**
Cursor positioned to change **pvcopts:** row 1 field
AND
Page 11
[65] Enter pvcopts values recorded earlier
pvcopts: row 1 changed
[66] Depress **RETURN** key twice
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed



RECENT CHANGE UCB AND NETWORK PACKET HANDLER DATA

1. Ensure that 3B Computer has not experienced terminal suspends, bootstraps, diagnostic failures, or overloads within past 24 hours.

2. Ensure that both CUs have been diagnosed ATP within past 24 hours.

3. Ensure that all 3B Computer and/or system problems have been cleared.

4. Ensure that disks and IOPs are duplex and CUs are in ACTIVE-STANDBY mode.

5. At APS MCRT, enter message **OP:STATUS:FILESYS!**.

6. Using ROP printout, determine if /dev/root or dev/broot listed.

7. If /dev/root listed, enter **31** in command mode (EAI page).

8. If /dev/broot listed, enter **30** in command mode (EAI page).

9. Enter **33** in command mode (EAI page).

10. At APS MCRT, enter message **SW:PORTSW!**.

11. If /dev/root listed (Step 6), enter **31** in command mode (EAI page).

12. If /dev/broot listed (Step 6), enter **30** in command mode (EAI page).

13. Enter **33** in command mode (EAI page).

14. Ensure that all link nodes in common network interface (CNI) ring are in Active-Usable (ACT-USBL) state and have not experienced any problems within past 24 hours.

15. Ensure that any CNI ring problems have been cleared.

16. Ensure that any signaling link problems have been cleared.

17. At 1B MCC, enter poke command **810** (SDC) on **108** Page to obtain service degrading report printout. If there are any units listed, make correction action to clear service degrading condition of each unit listed before continuing.

18. At APS MCRT, enter message **OP:RING;DETD!** and ensure that no **"i"** is listed for any link node (i=link node isolated).

19. Verify API-DLN stream status (**OP:DLNCM,STREAM!**) [DLP-570].

20. At APS MCRT, depress **NORM/DISP** (**PF2**) key and enter **1107** in command mode to obtain display Page 1107.

21. Ensure that 1107 page displays **ACT** for **HDWR STATE** and **APPL STATE** for two DLNs. Ensure **MODE** is **1WAY IN** and **STREAM** is **SCANIN** for one DLN, and **MODE** is **1WAY OUT** and **STREAM** is **SCANOUT** for other DLN.

22. At APS MCRT, enter message **OP:DLNCM,DLNMAP!** and ensure that DLN states in printout are same as indicated in 1107 page (Step 21).

VERIFY SYSTEM STATUS

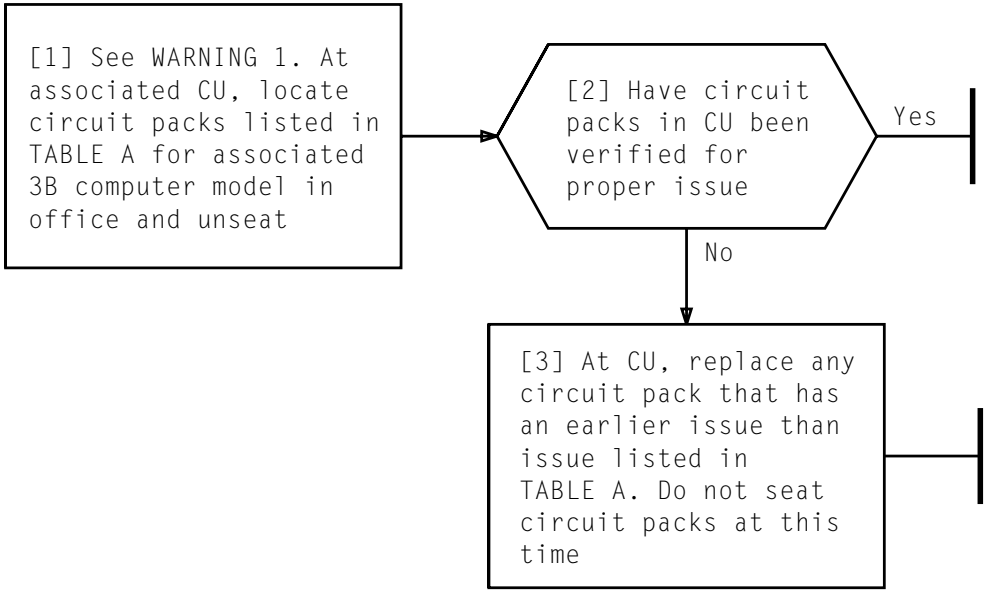
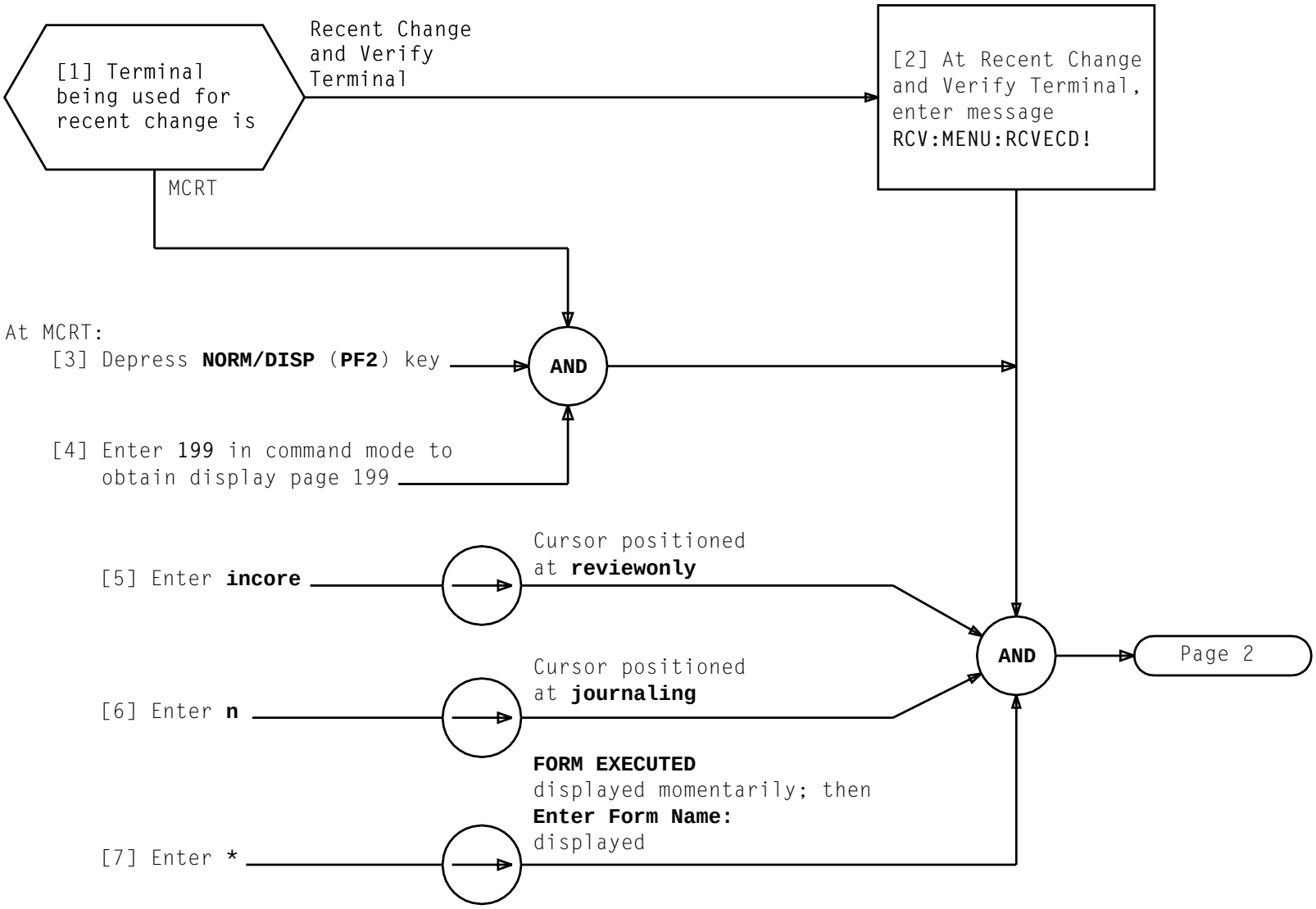


TABLE A

CIRCUIT PACKS	LOCATIONS	
	MODEL 1	MODEL 2/3
UN59C	56-168	51-112
UN133B	66-160	60-146
UN11C	66-152	60-138
UN10C	66-144	60-130
UN10C	66-136	60-124
UN43D	66-108	60-104
UN45C	66-116	60-110
UN28B (MC4C077A1C)	66-008	60-036

WARNING 1
An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling

VERIFY AND UNSEAT CU CIRCUIT PACKS



RECENT CHANGE HV VALUE AND EQUIP FIELDS

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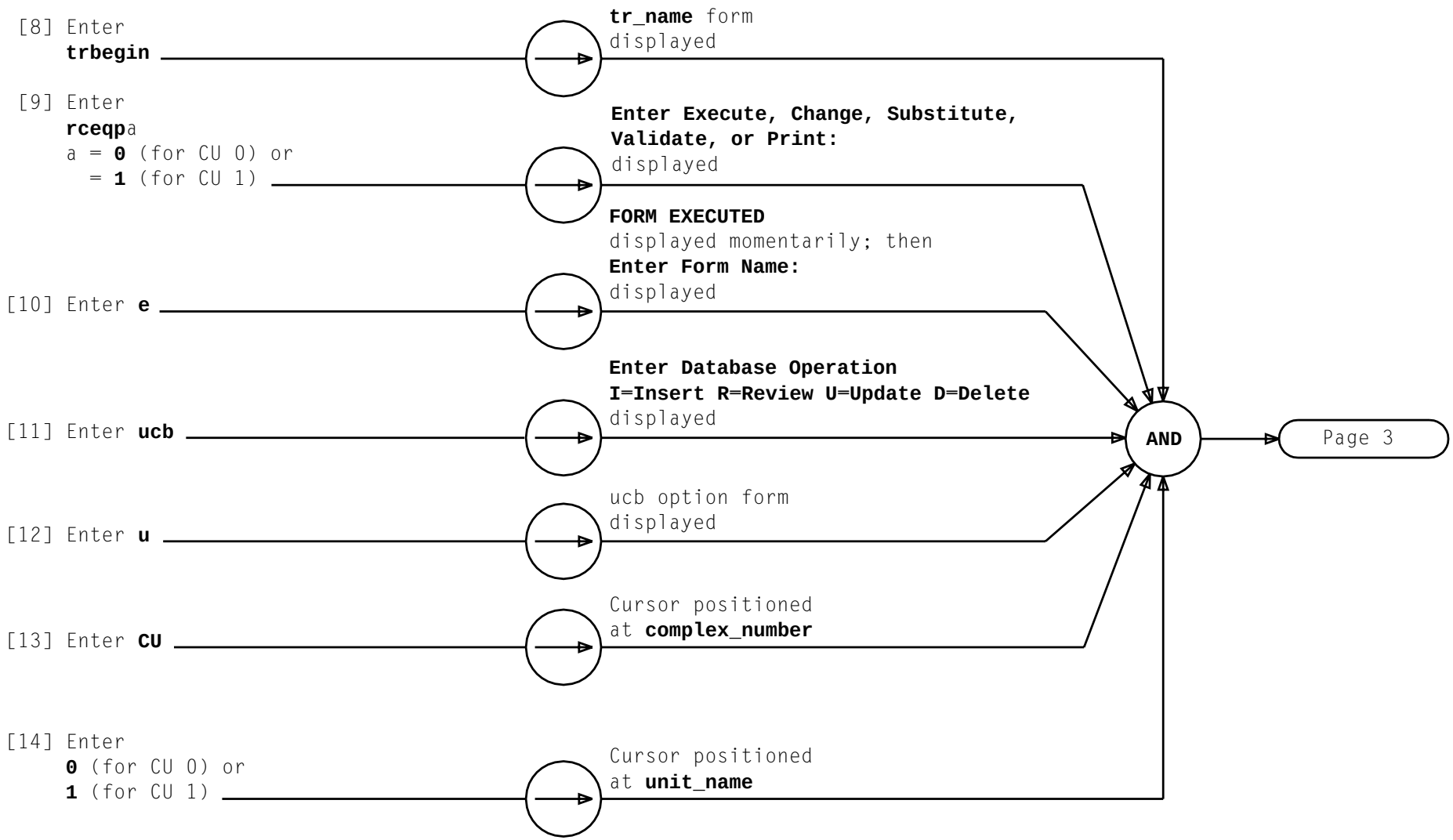
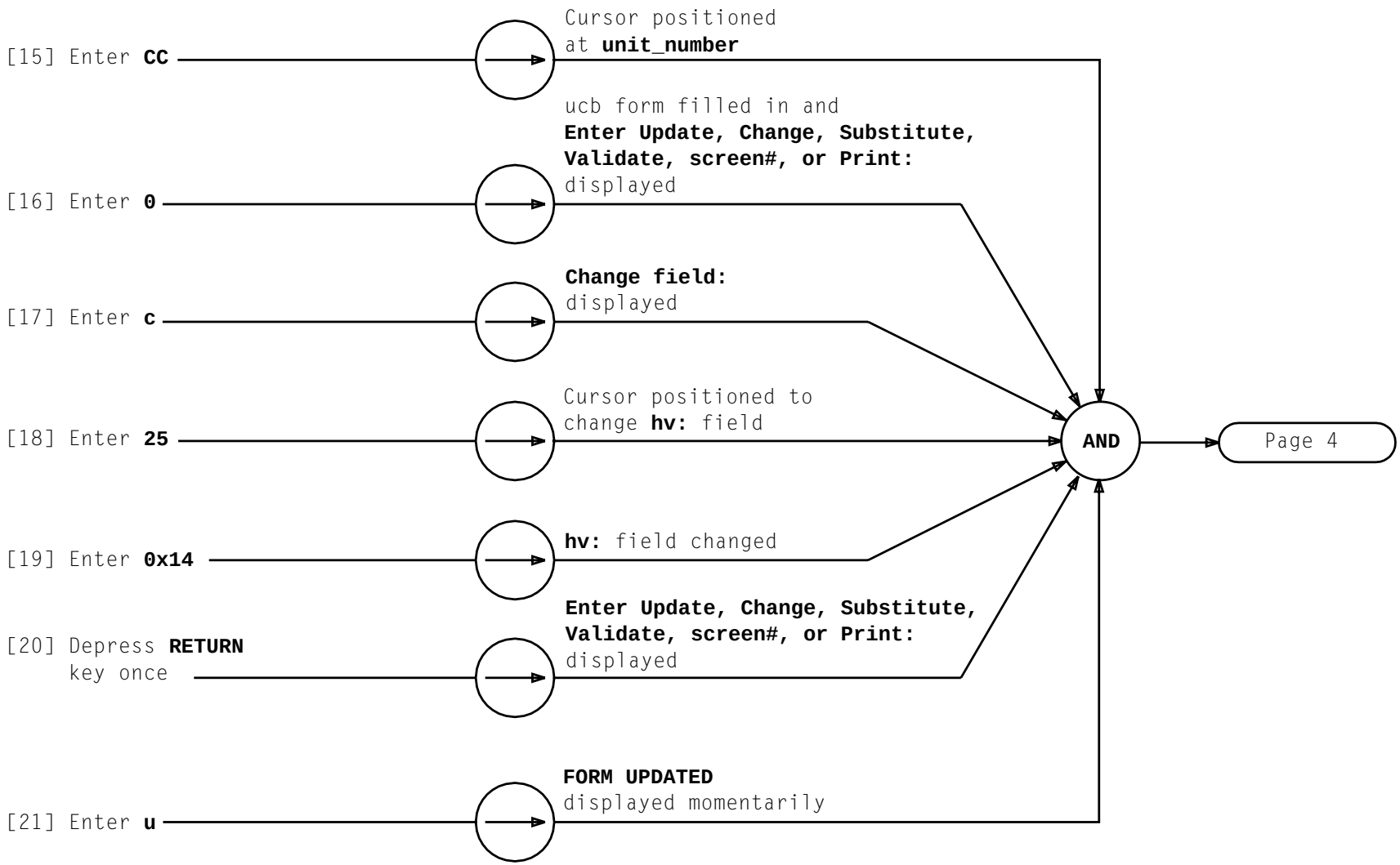
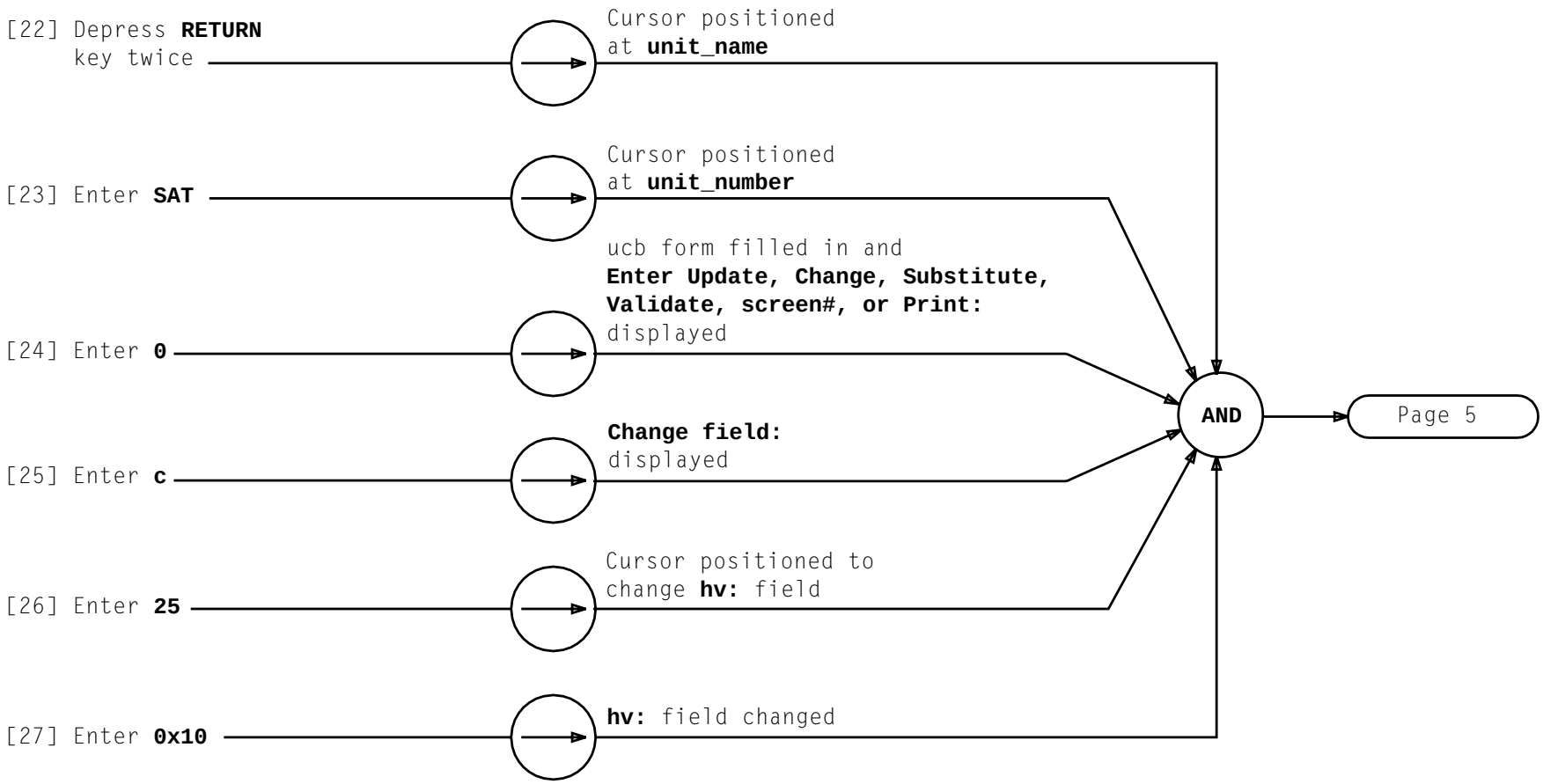


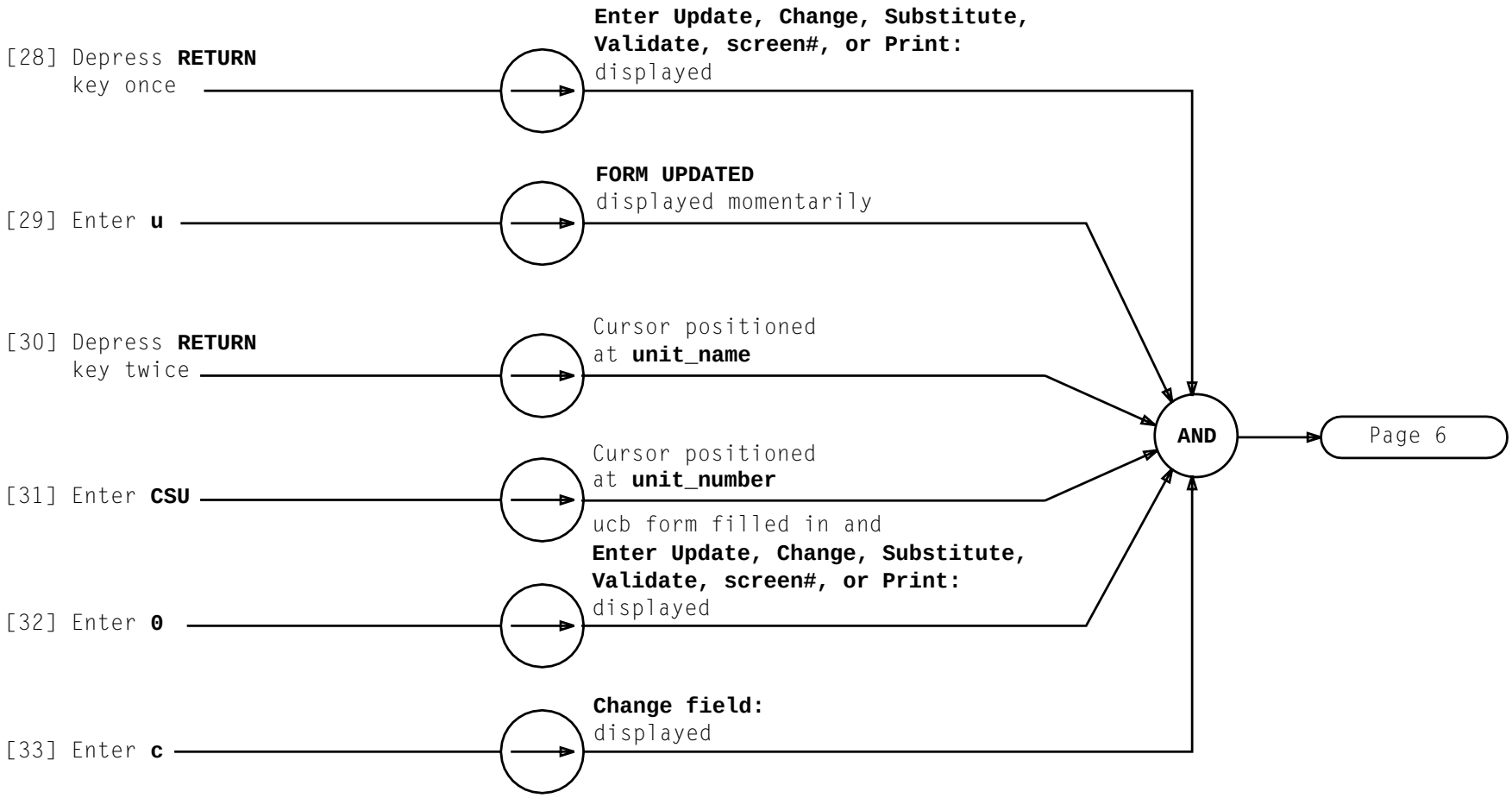
RECENT CHANGE HV VALUE AND EQUIP FIELDS



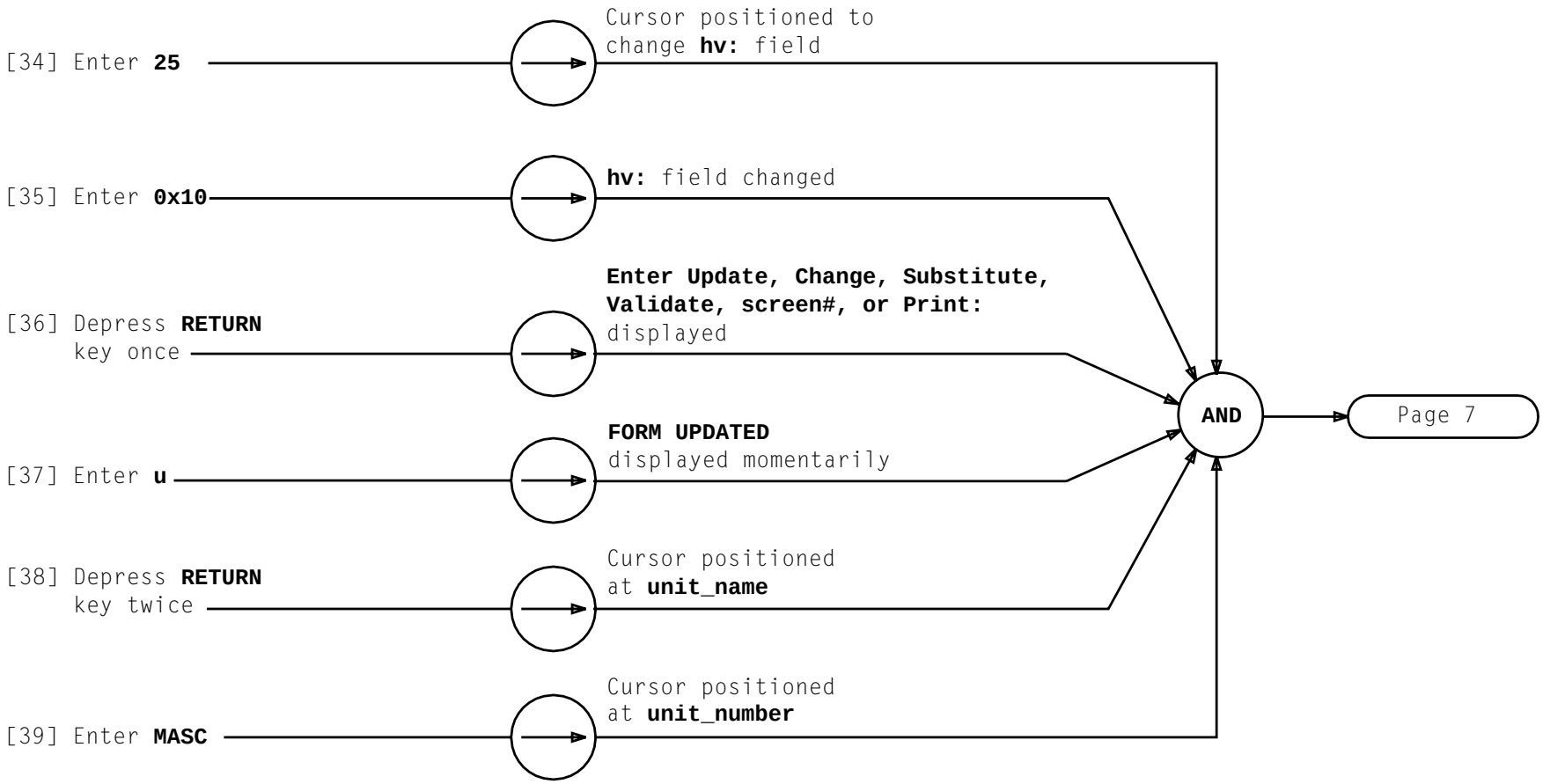
RECENT CHANGE HV VALUE AND EQUIP FIELDS



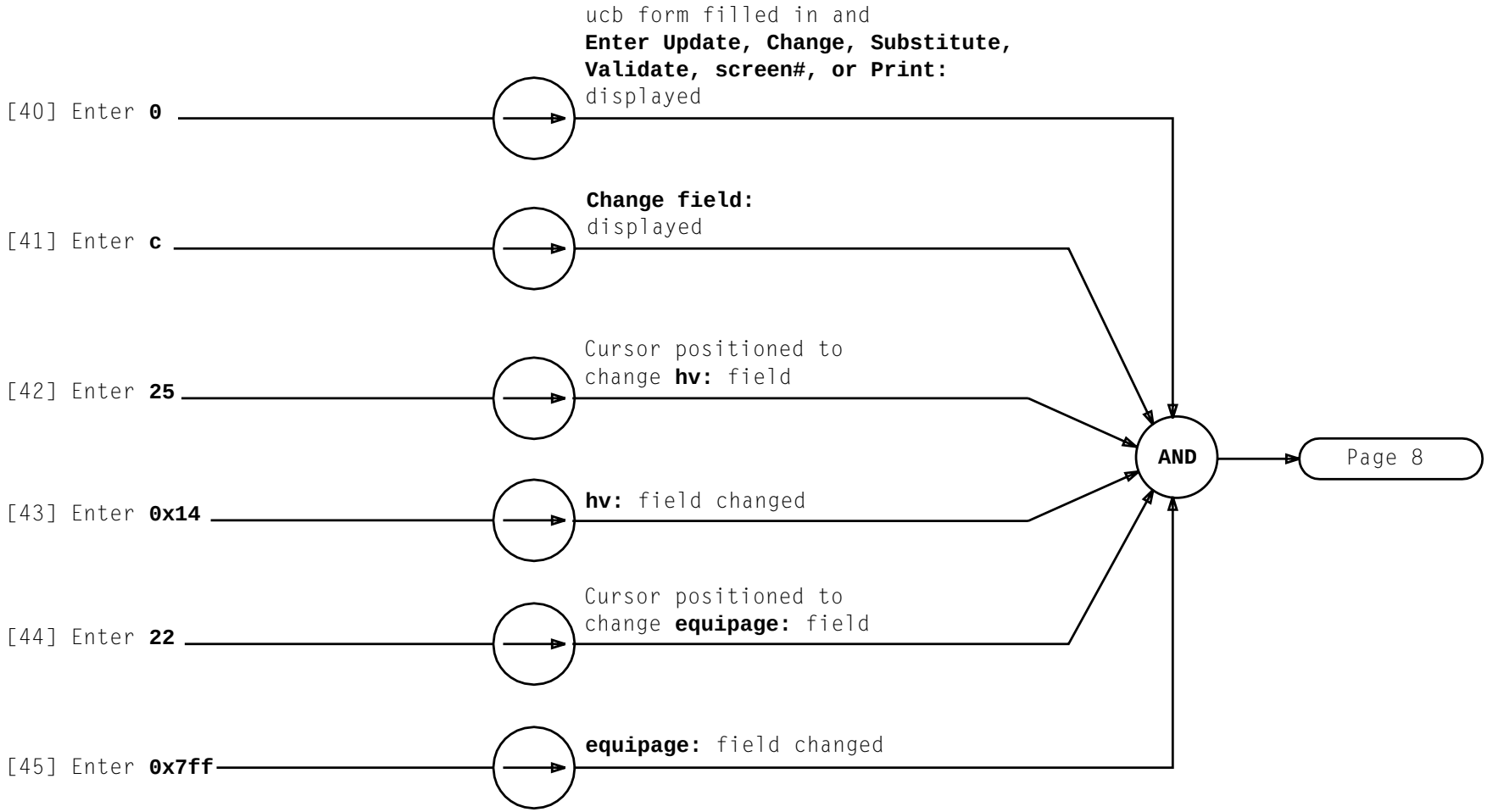
RECENT CHANGE HV VALUE AND EQUIP FIELDS



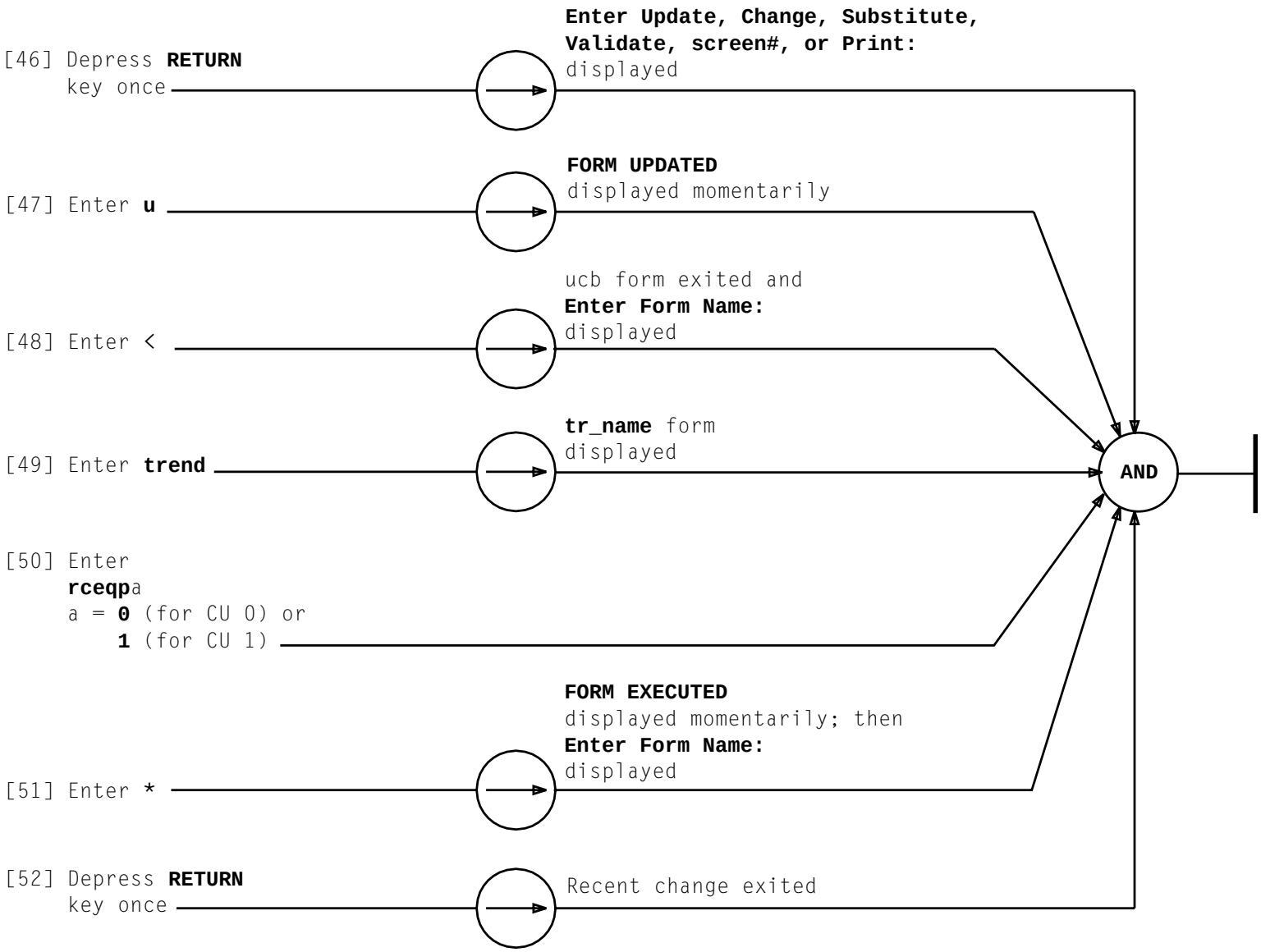
RECENT CHANGE HV VALUE AND EQUIP FIELDS



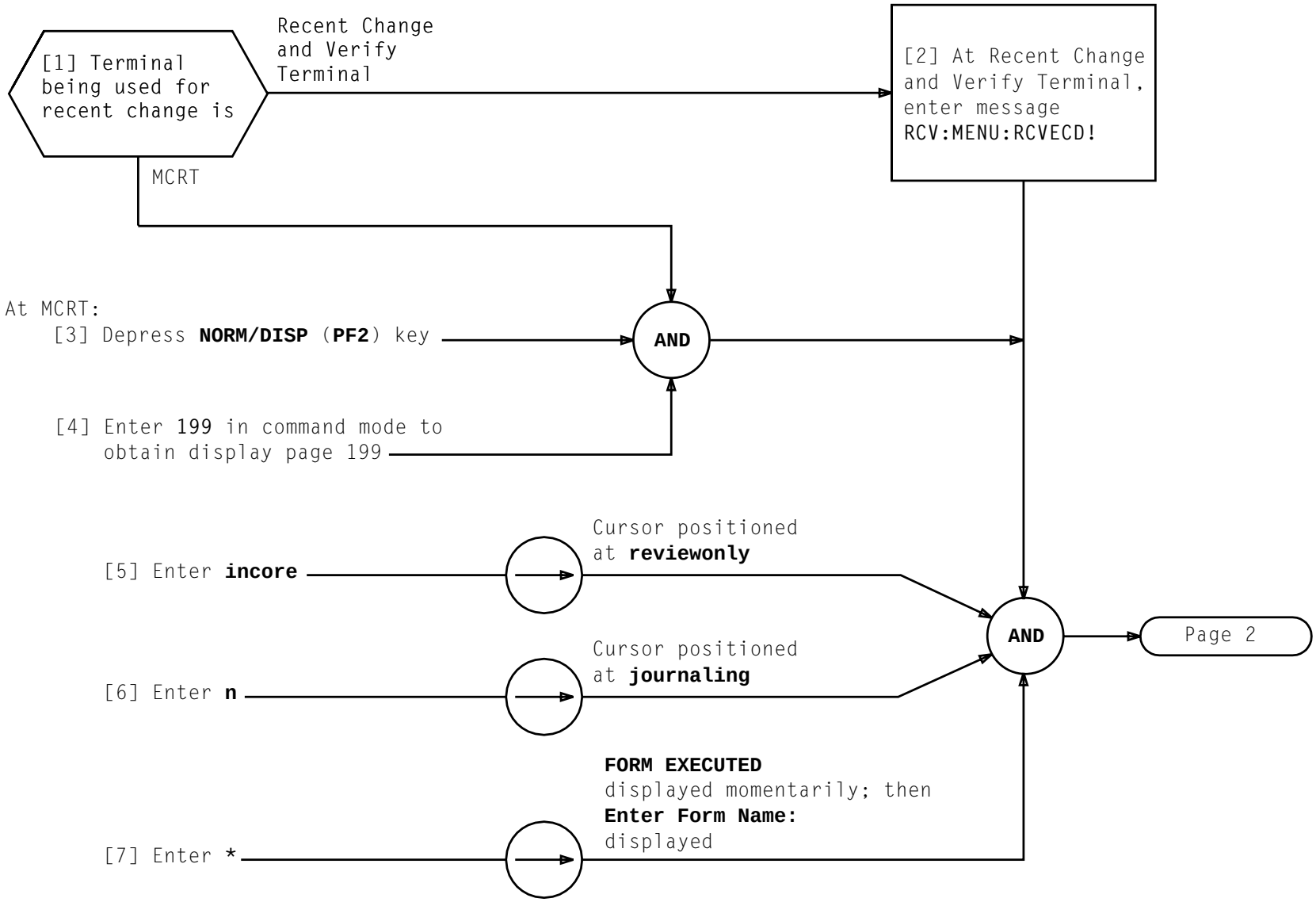
RECENT CHANGE HV VALUE AND EQUIP FIELDS



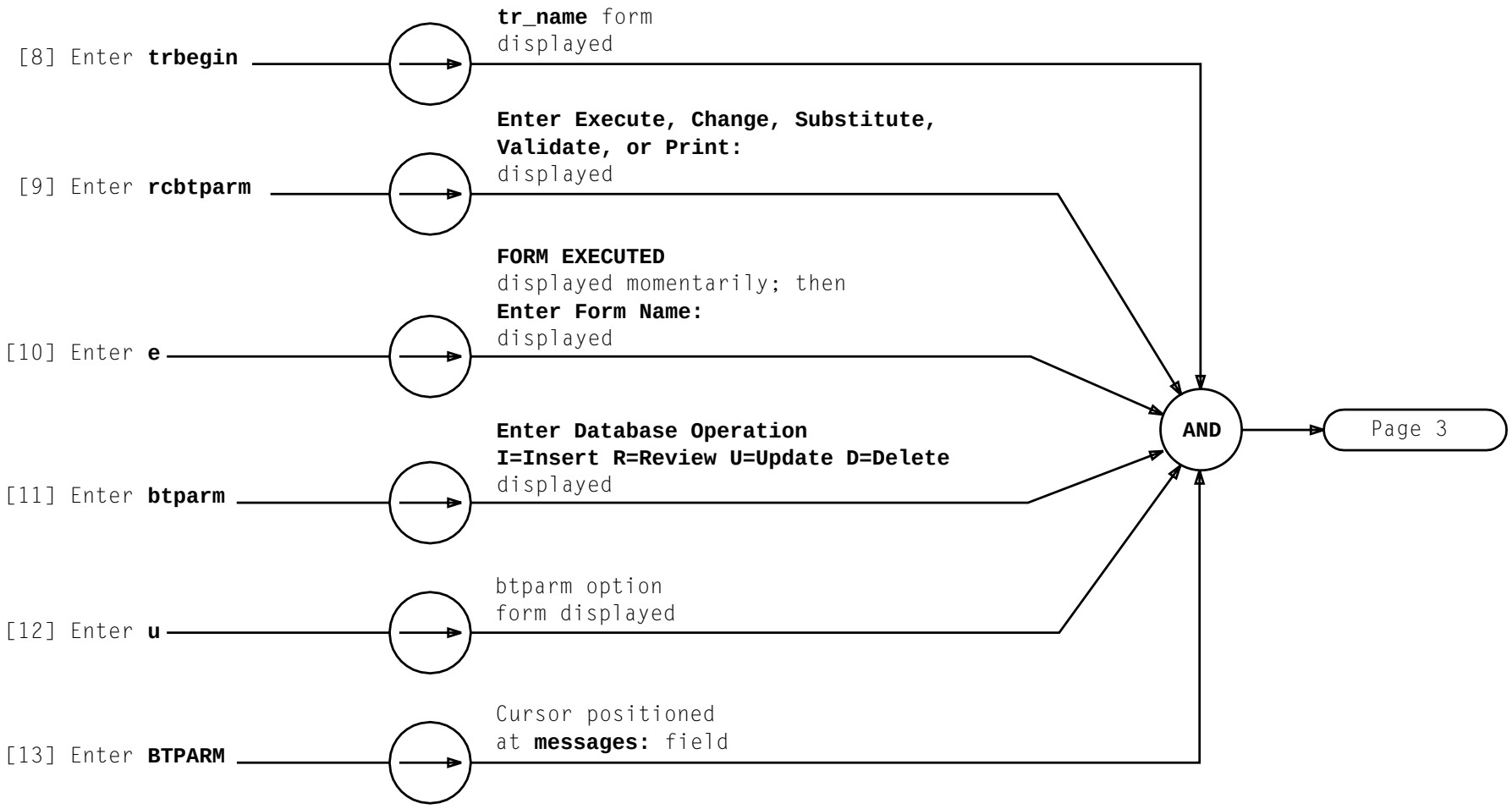
RECENT CHANGE HV VALUE AND EQUIP FIELDS



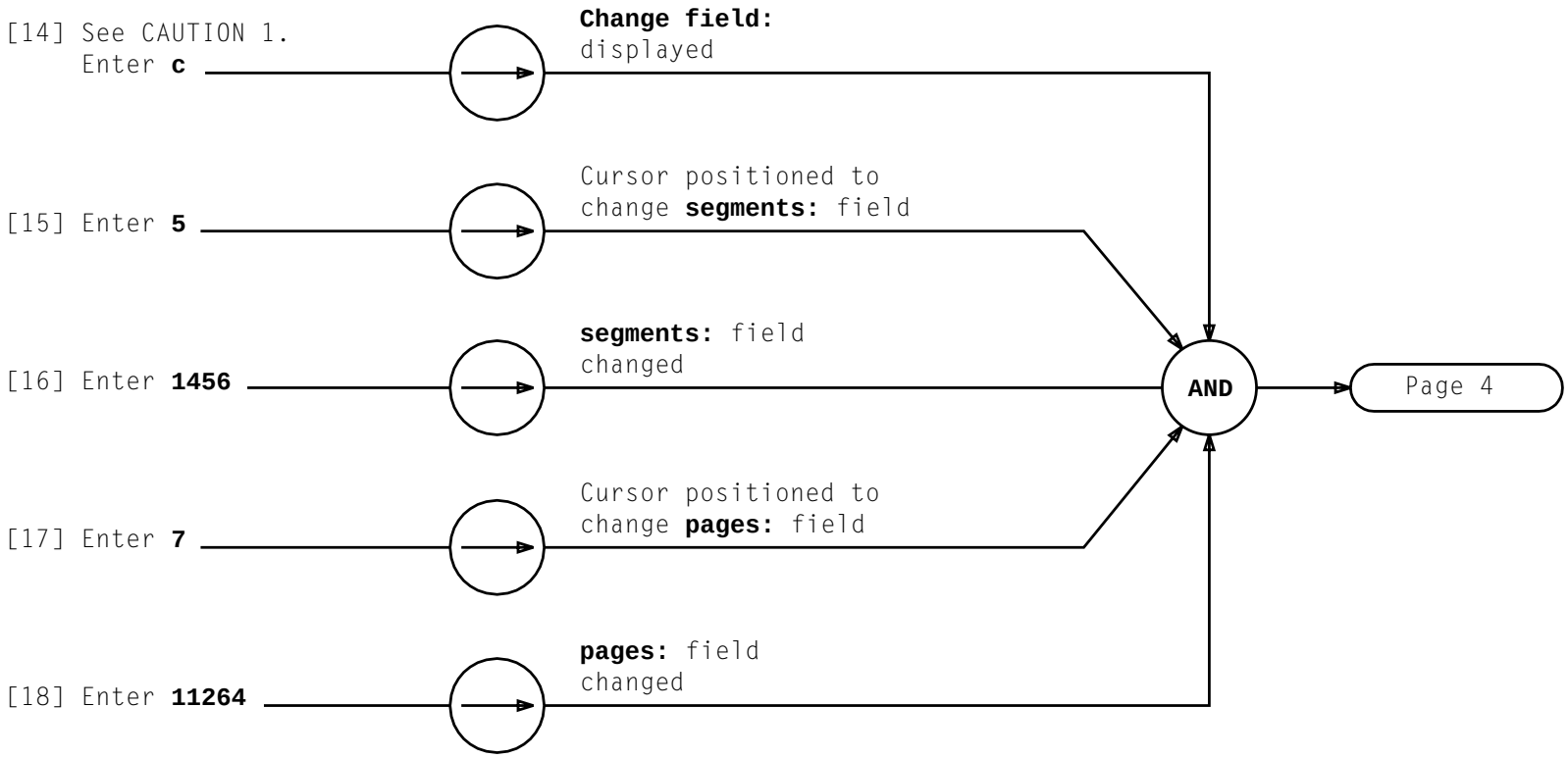
RECENT CHANGE HV VALUE AND EQUIP FIELDS



RECENT CHANGE btparm FORM AND ACTIVATE

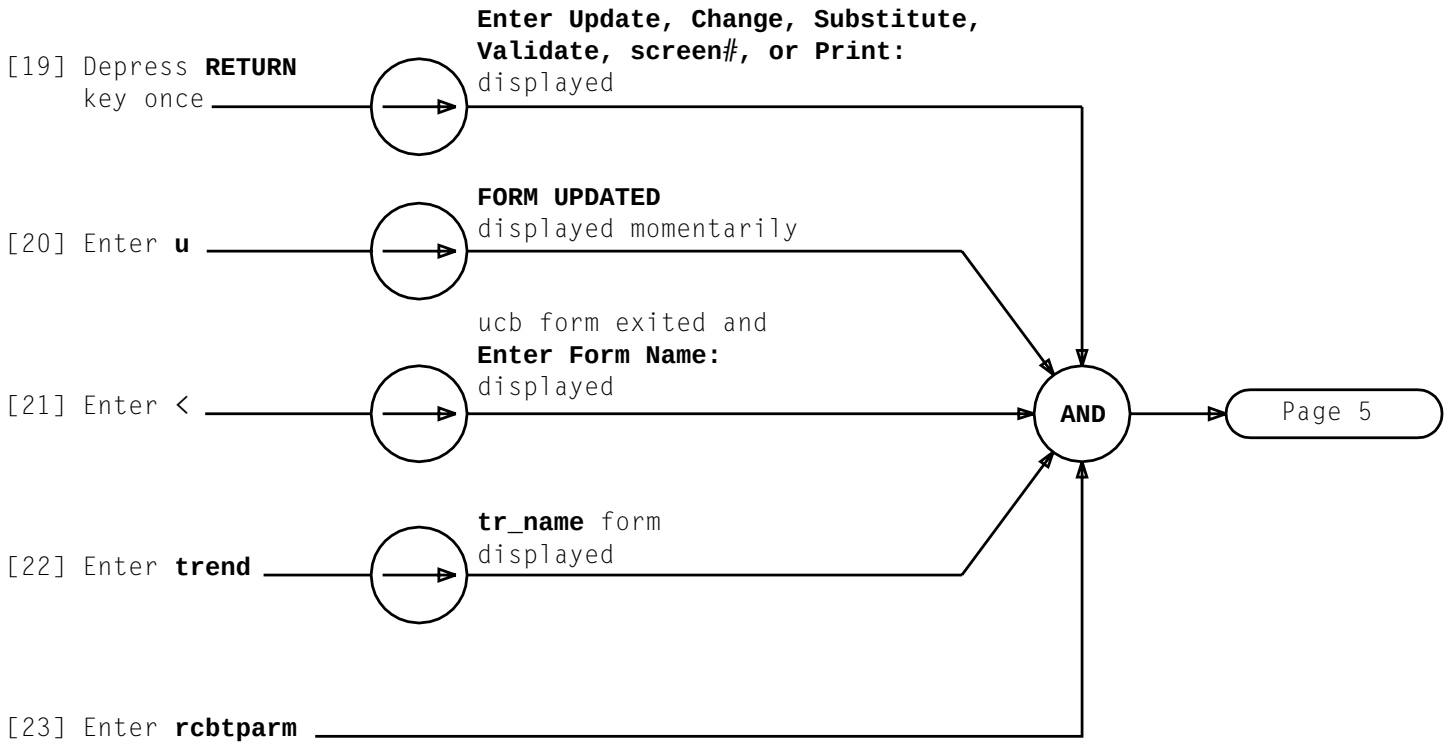


RECENT CHANGE btparm FORM AND ACTIVATE

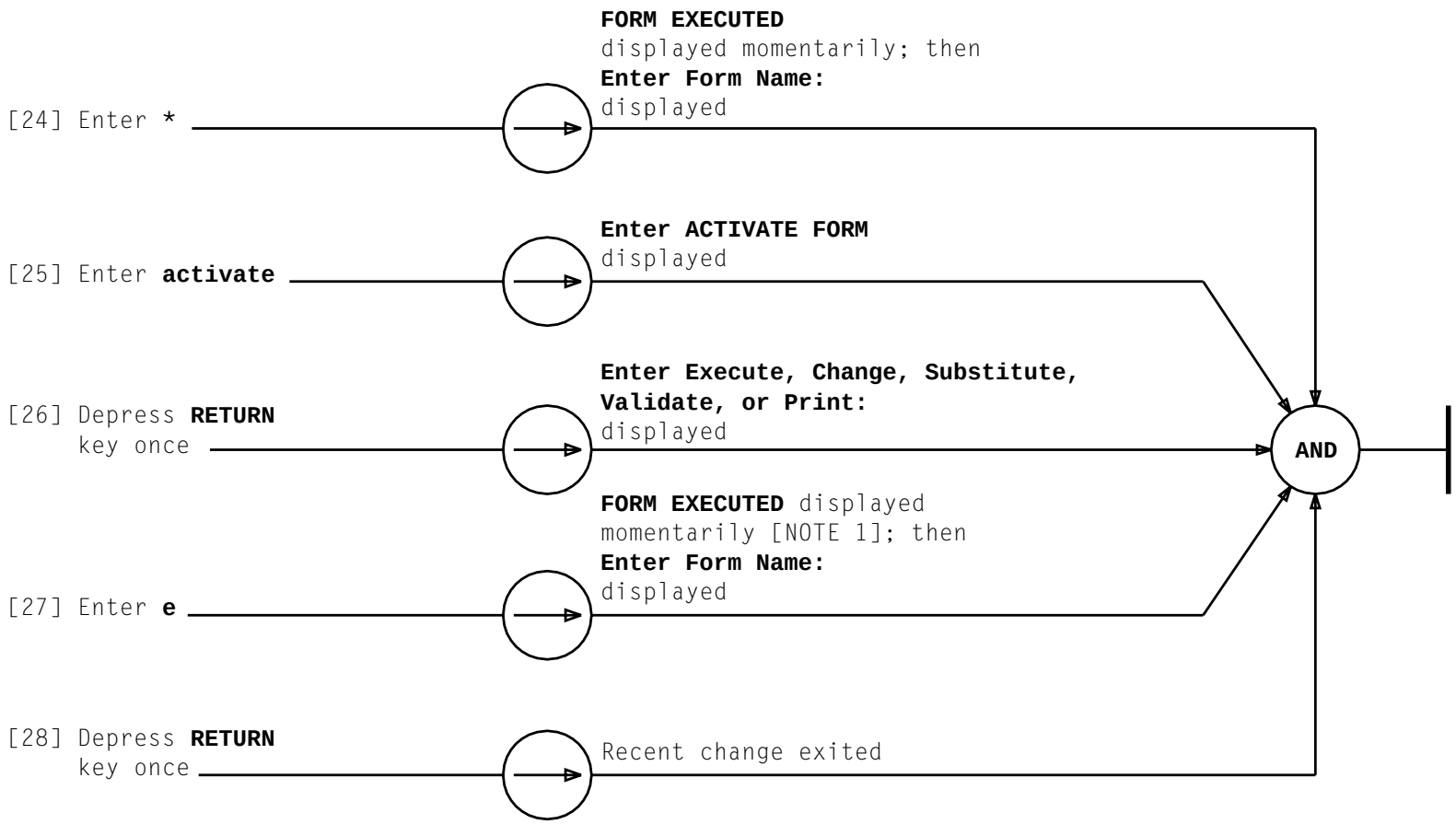


CAUTION 1
Extreme care must be used when recent changing btparm form

RECENT CHANGE btparm FORM AND ACTIVATE



RECENT CHANGE btparm FORM AND ACTIVATE

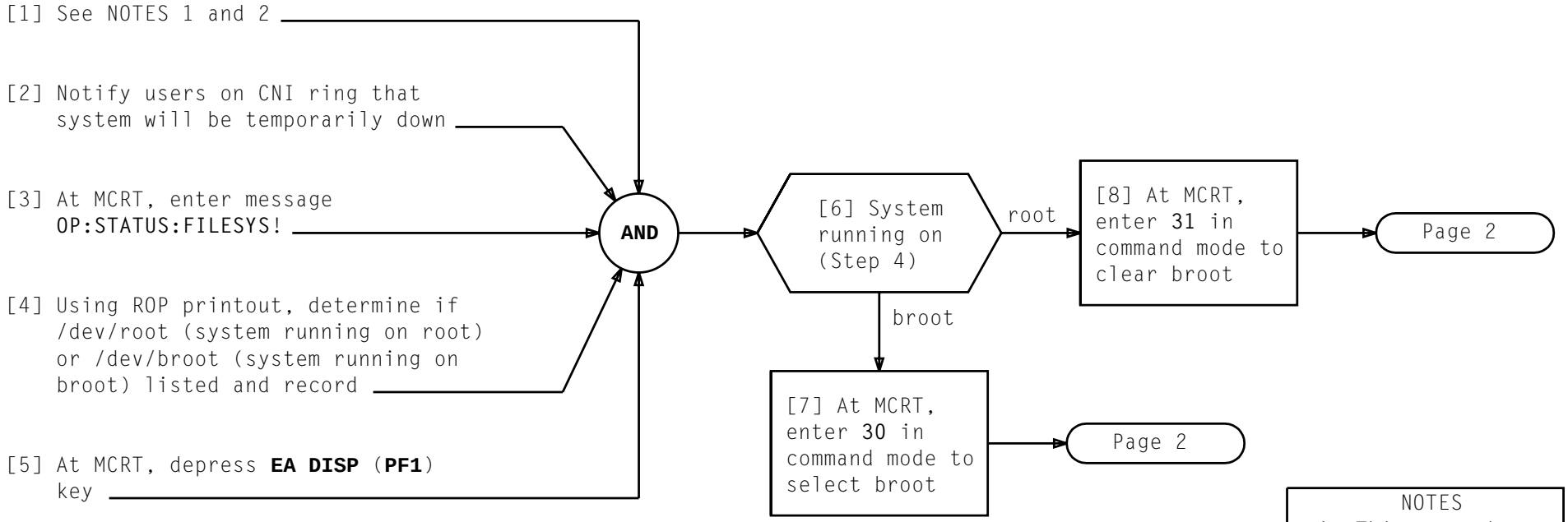


NOTE 1
It may take several minutes before **FORM EXECUTED** is displayed

RECENT CHANGE btparm FORM AND ACTIVATE

SUMMARY

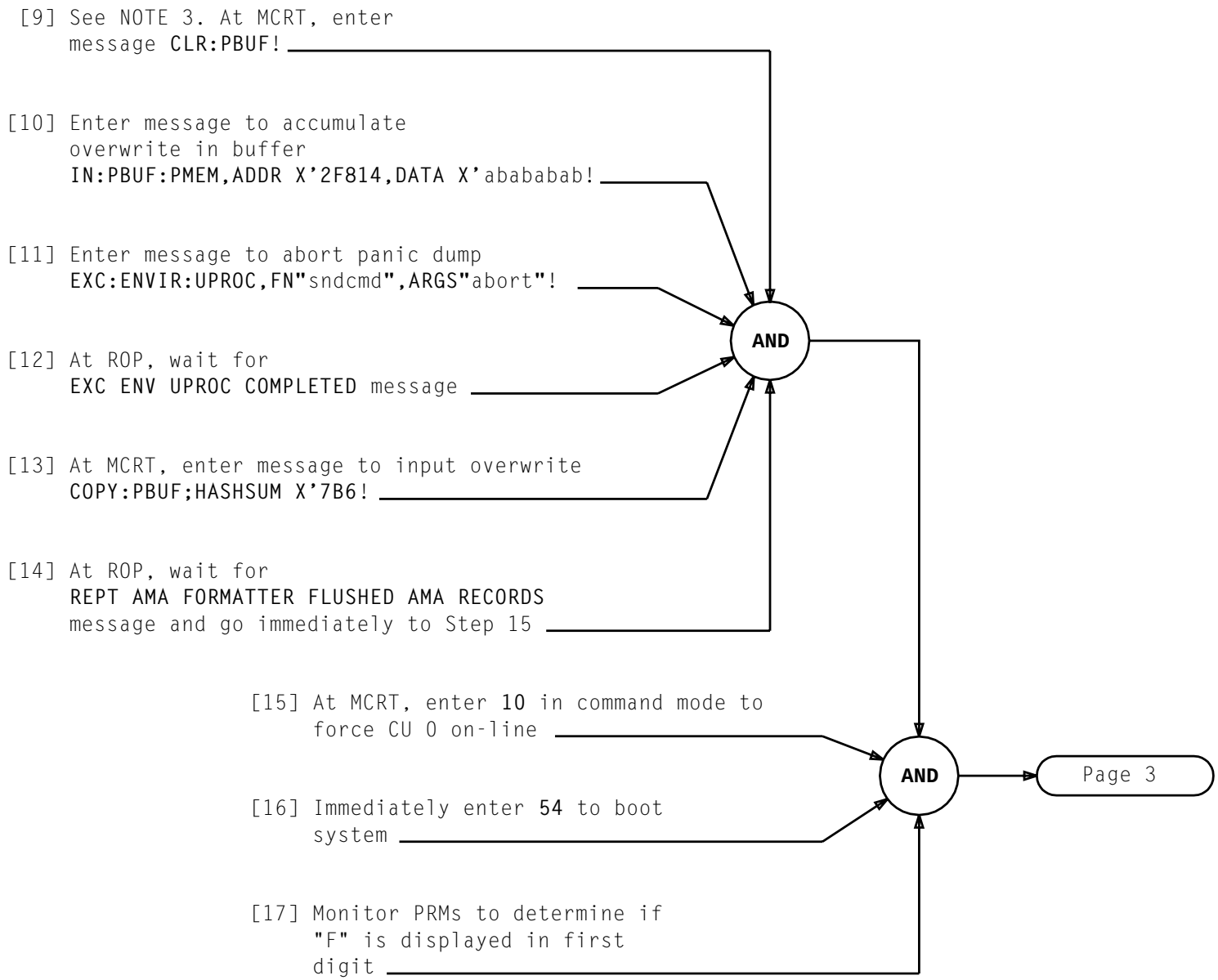
Users on CNI ring are notified that system will be temporarily down. After active file system is determined and if broot is the active file system, BACKUP-ROOT is set. Input messages are entered to stop AMA data collection. IMMEDIATELY after AMA is verified to have been stopped, CU 0 is forced on-line and system booted. If boot is not successful, CU 1 is then forced on-line and boot is repeated. If problems still exist, IMMEDIATELY contact support organization, configure the system for booting to other file system, and boot



NOTES

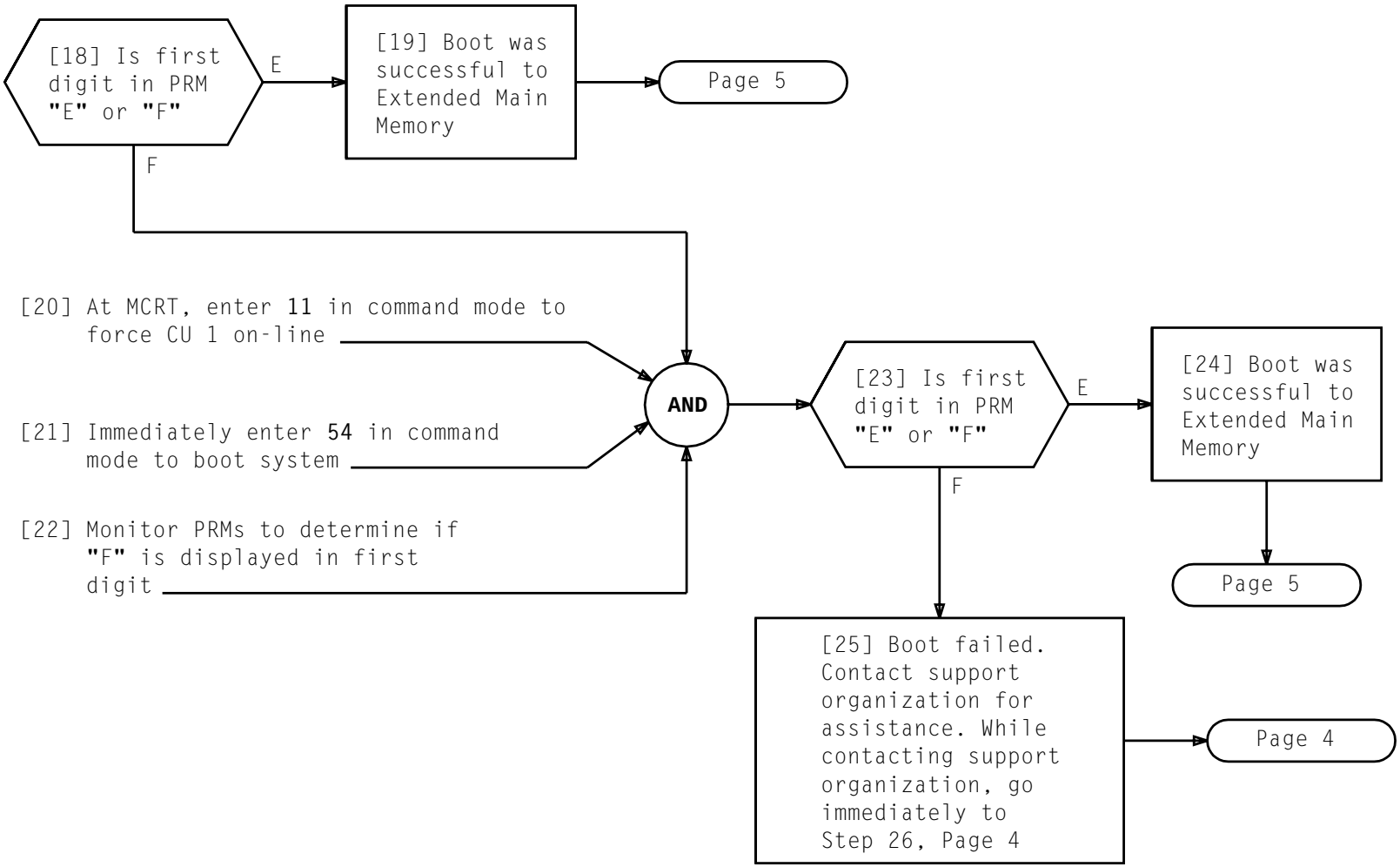
1. This procedure must only be performed in 4AP<8> generic
2. This procedure must be read and thoroughly understood before performing

BOOT SYSTEM TO ENABLE EXTENDED MAIN MEMORY

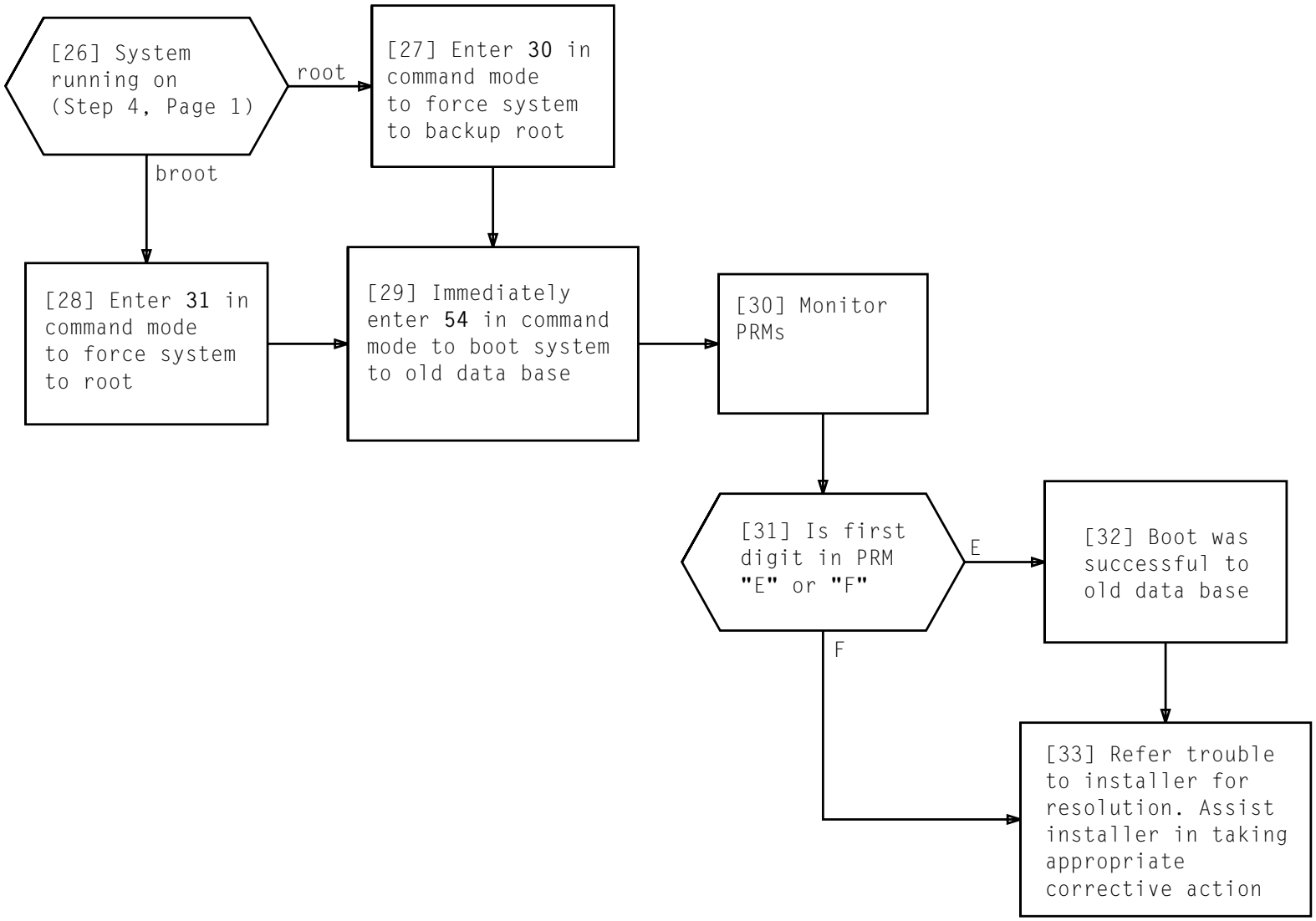


NOTE 3
Steps 9 through 32, Page 4 must be performed, as required, without interruption

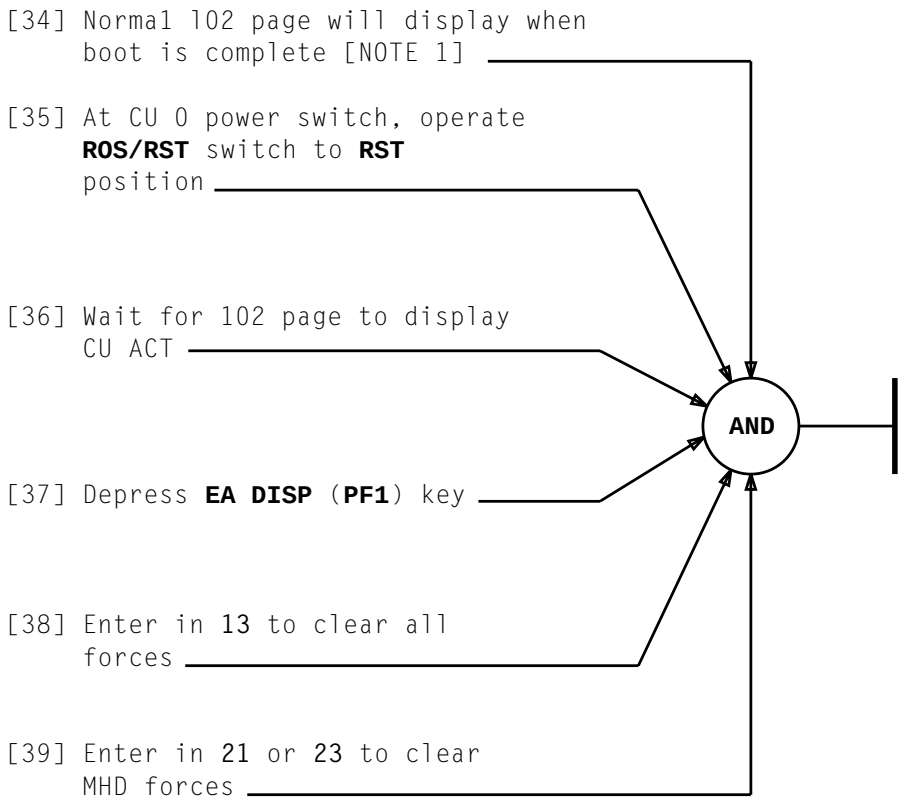
BOOT SYSTEM TO ENABLE EXTENDED MAIN MEMORY



BOOT SYSTEM TO ENABLE EXTENDED MAIN MEMORY

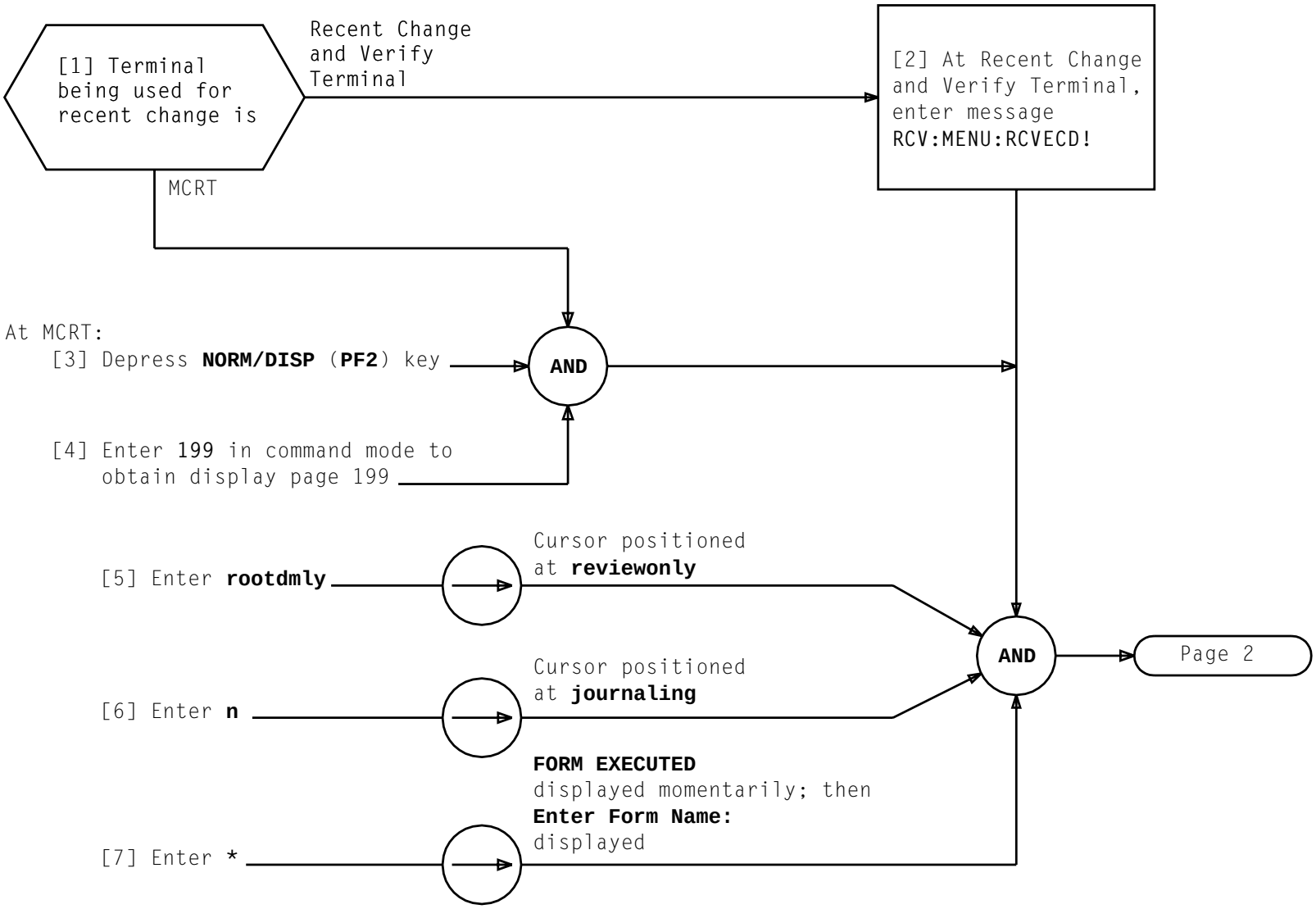


BOOT SYSTEM TO ENABLE EXTENDED MAIN MEMORY



NOTE 1
It may take several minutes for page to be displayed

BOOT SYSTEM TO ENABLE EXTENDED MAIN MEMORY



RECENT CHANGE rootdmly DATA BASE

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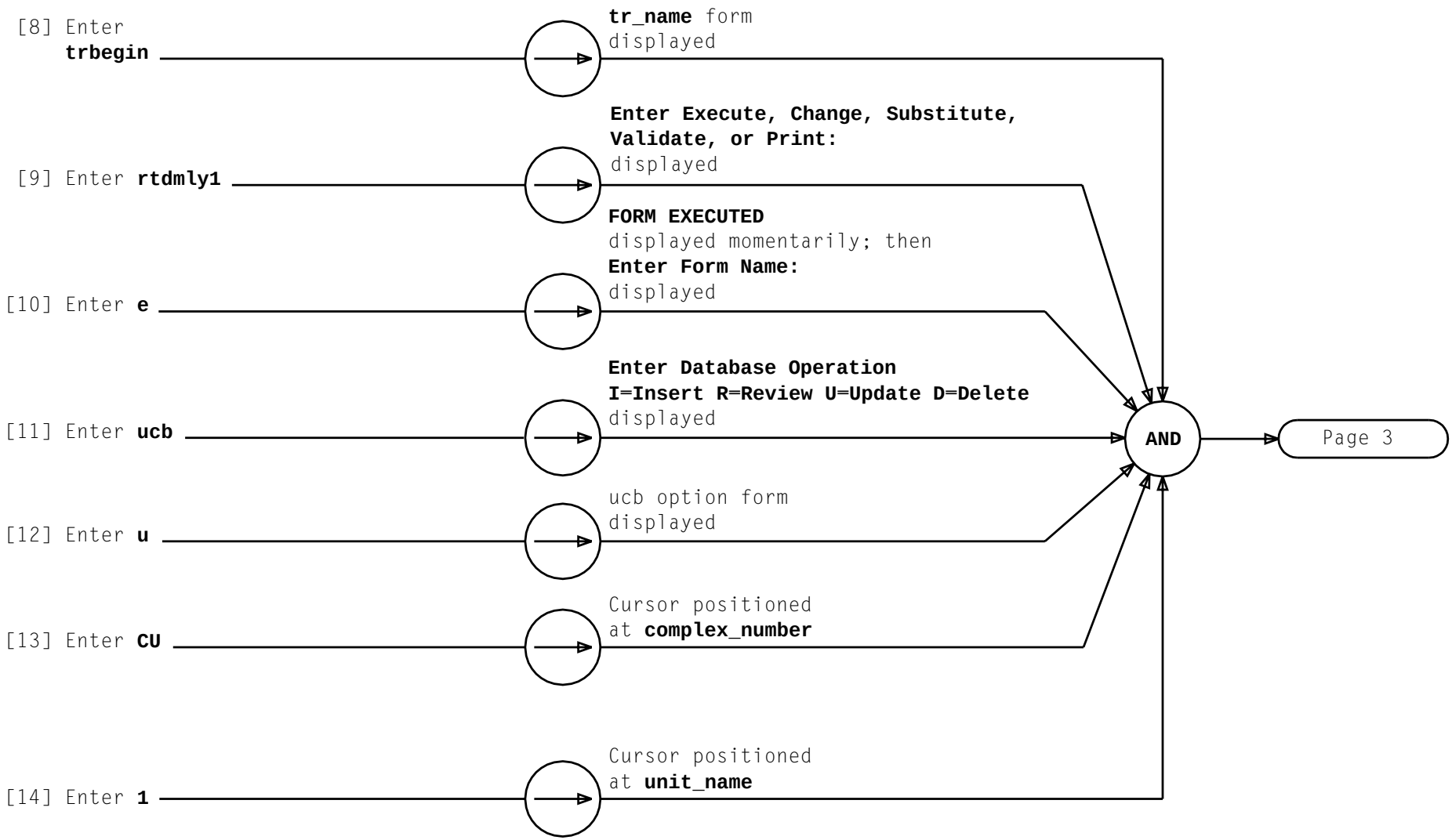
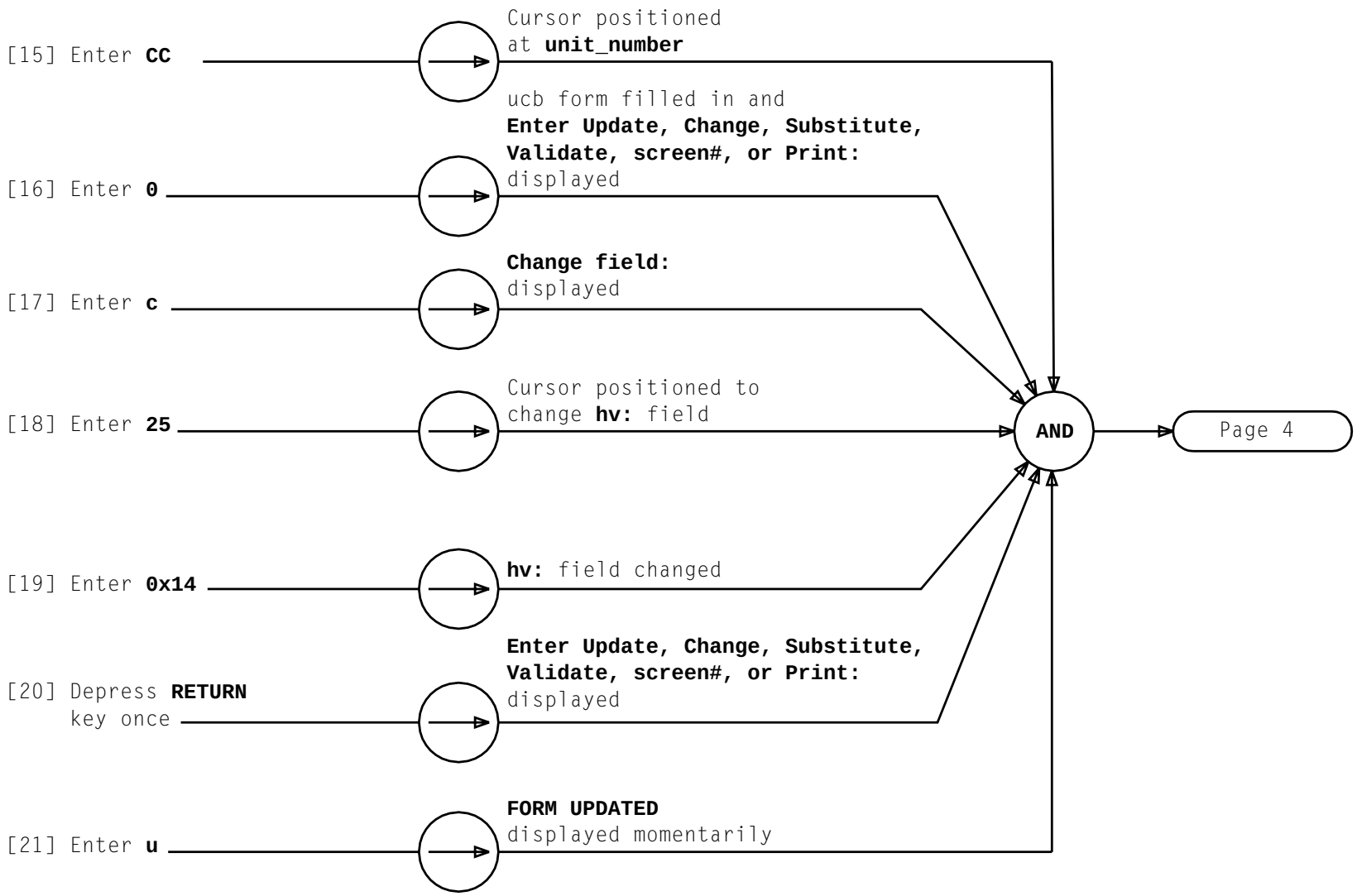
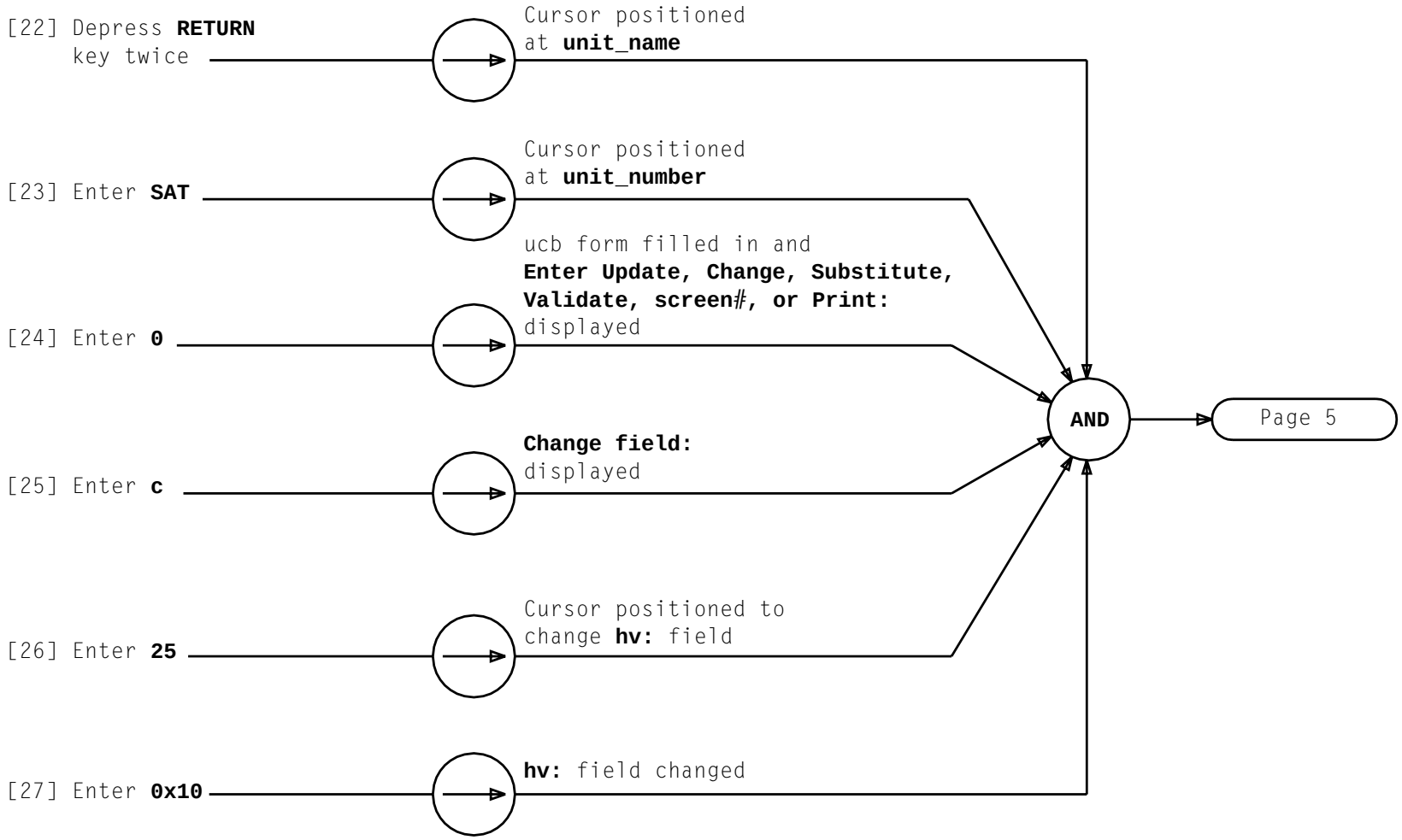
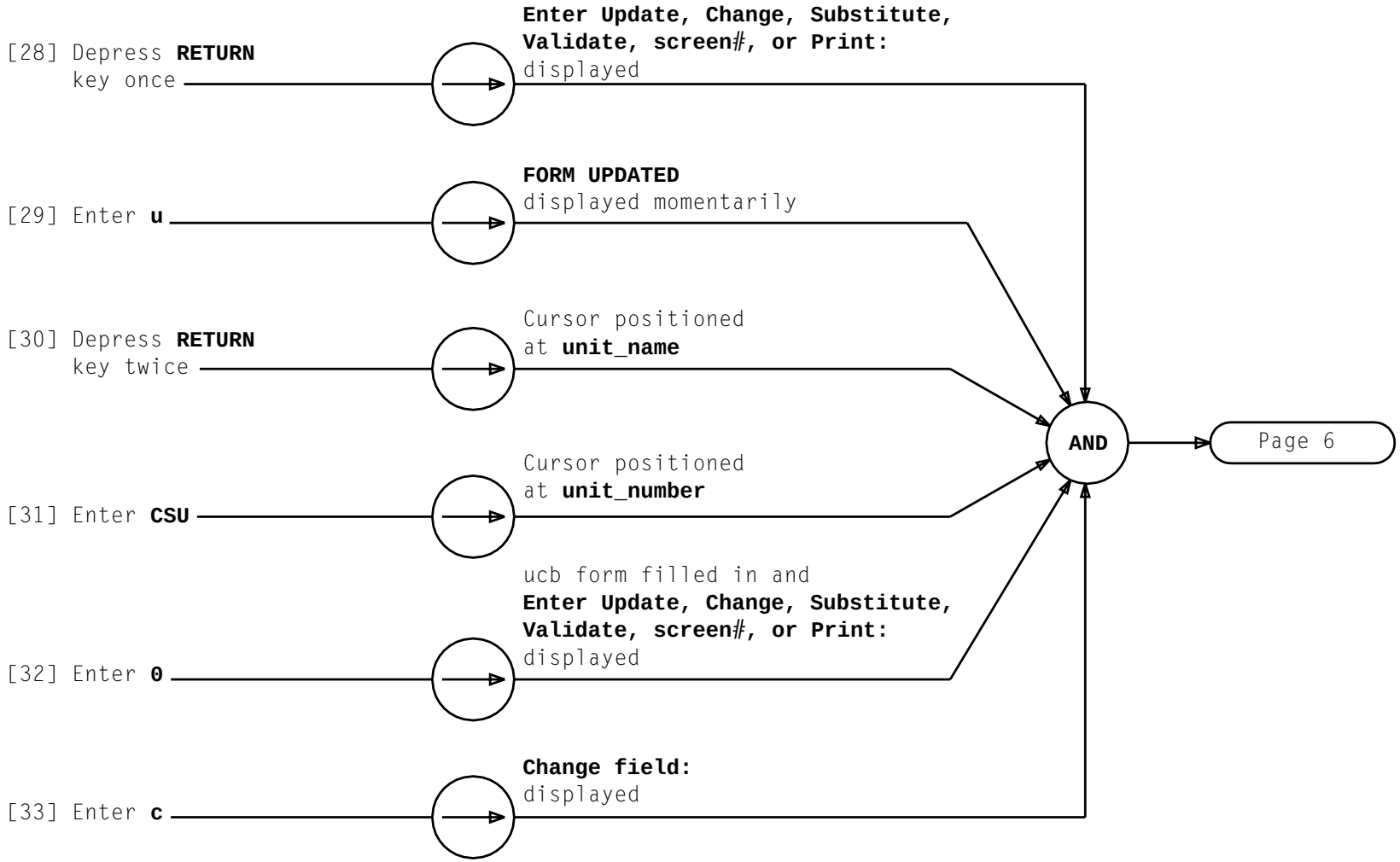


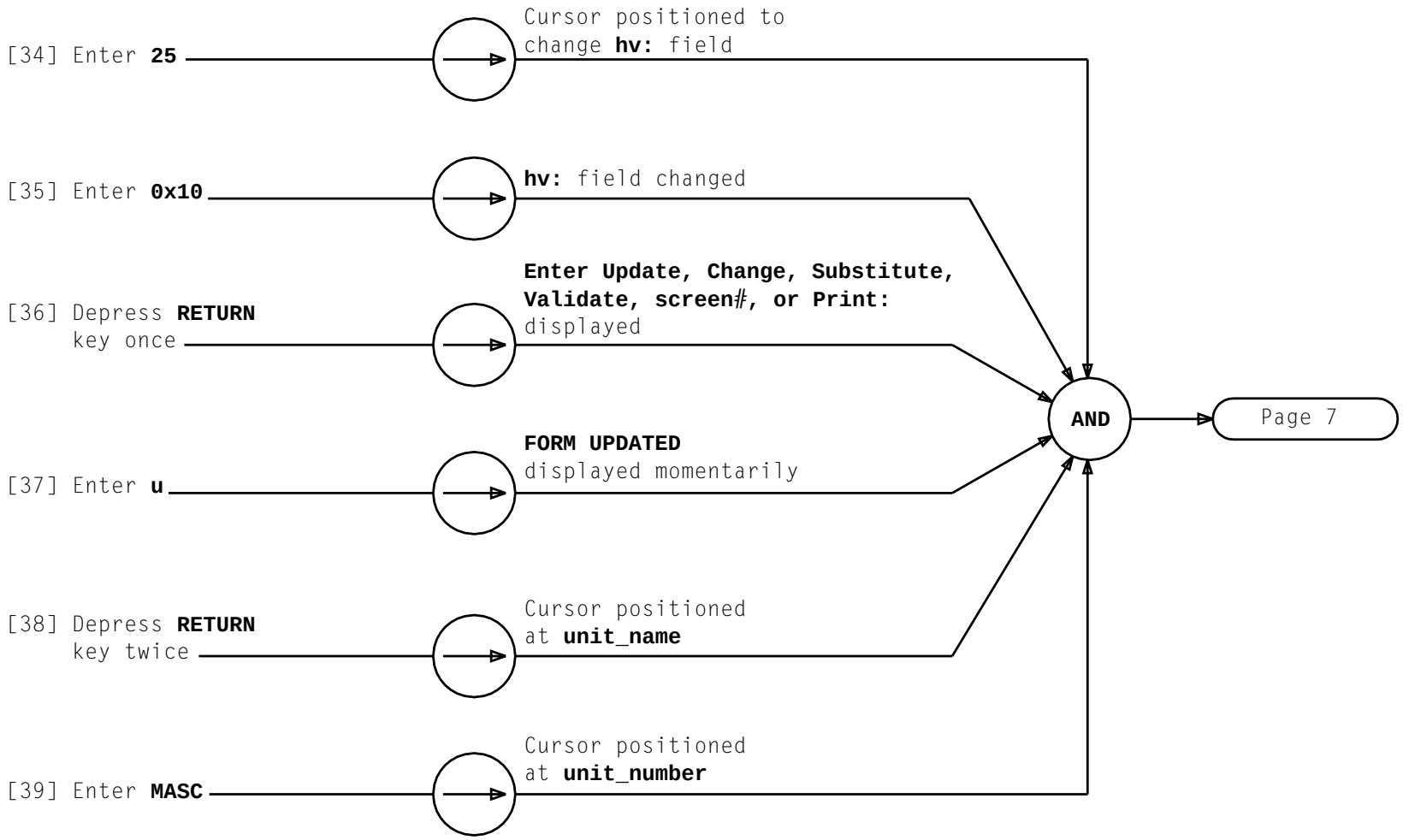
RECENT CHANGE rootdmly DATA BASE

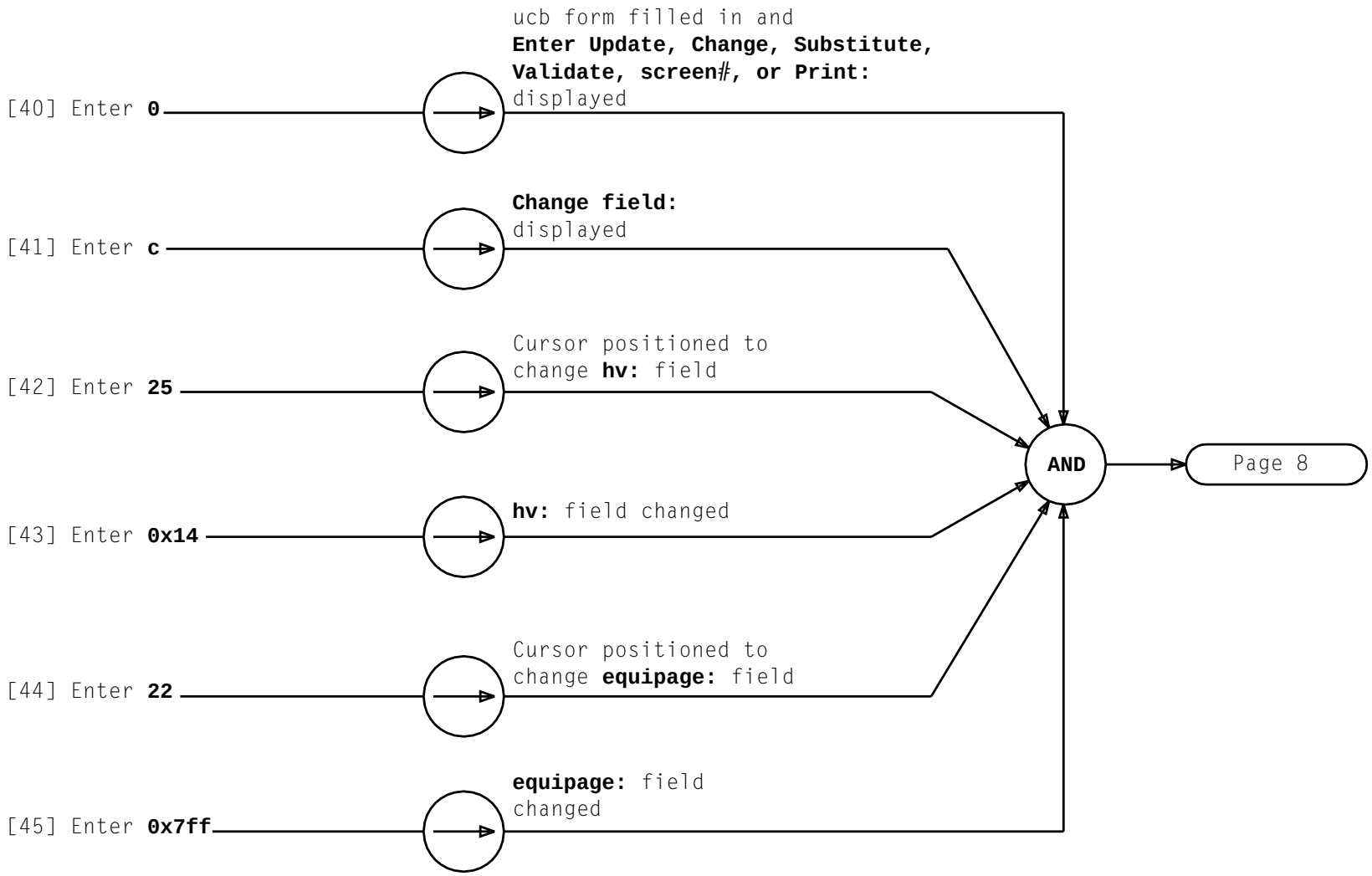

[15] Enter **CC**
Cursor positioned at **unit_number**
ucb form filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** displayed
[16] Enter **0**
Change field: displayed
[17] Enter **c**
Cursor positioned to change **hv:** field
[18] Enter **25**
AND
Page 4
hv: field changed
[19] Enter **0x14**
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed
[20] Depress **RETURN** key once
FORM UPDATED displayed momentarily
[21] Enter **u**



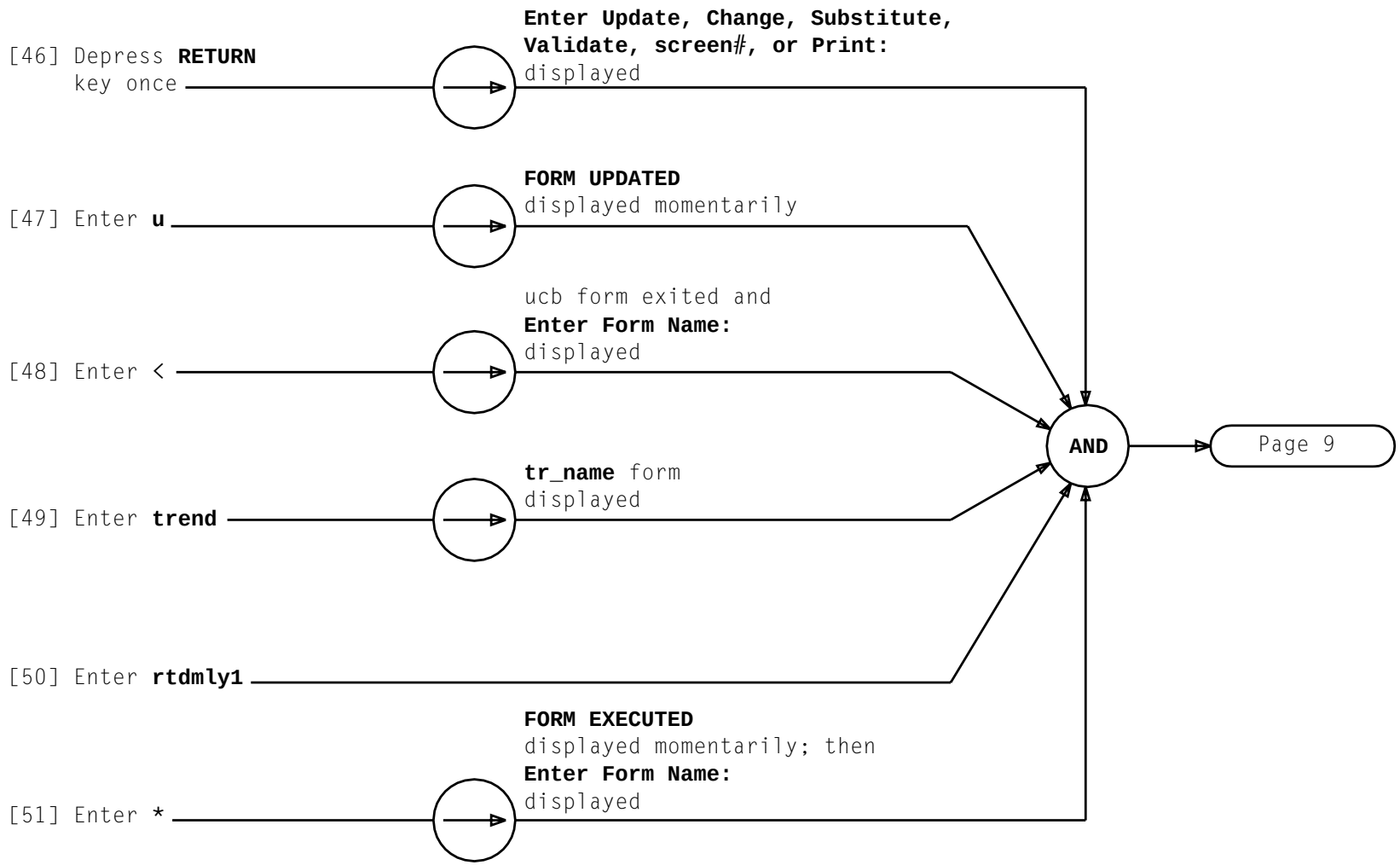
RECENT CHANGE rootdmly DATA BASE


[28] Depress **RETURN** key once
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed
[29] Enter **u**
FORM UPDATED displayed momentarily
[30] Depress **RETURN** key twice
Cursor positioned at **unit_name**
[31] Enter **CSU**
Cursor positioned at **unit_number**
[32] Enter **0**
ucb form filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** displayed
[33] Enter **c**
Change field: displayed
AND
Page 6

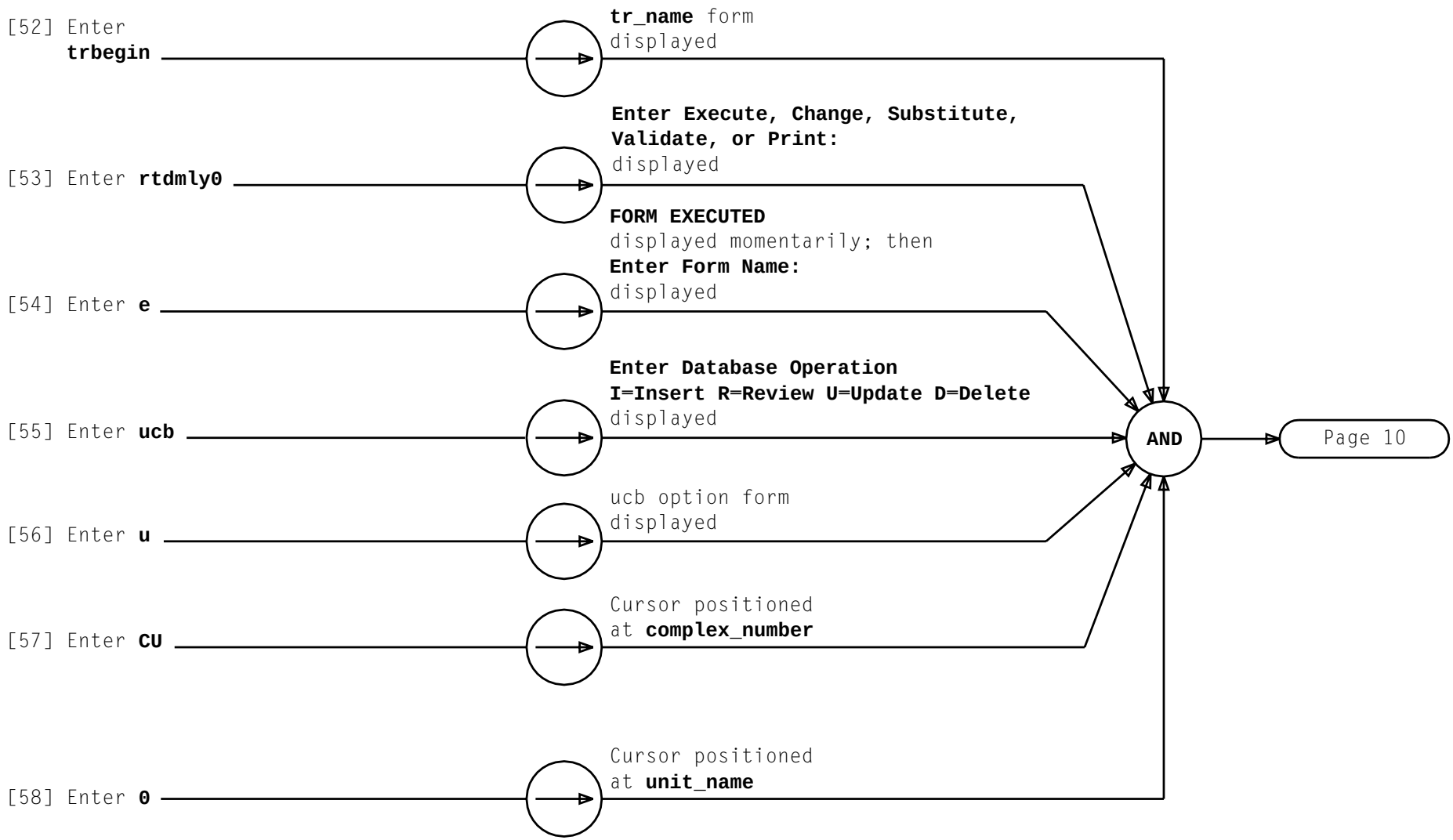

[34] Enter **25**
Cursor positioned to change **hv:** field
[35] Enter **0x10**
hv: field changed
[36] Depress **RETURN** key once
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed
[37] Enter **u**
FORM UPDATED displayed momentarily
[38] Depress **RETURN** key twice
Cursor positioned at **unit_name**
[39] Enter **MASC**
Cursor positioned at **unit_number**
AND
Page 7



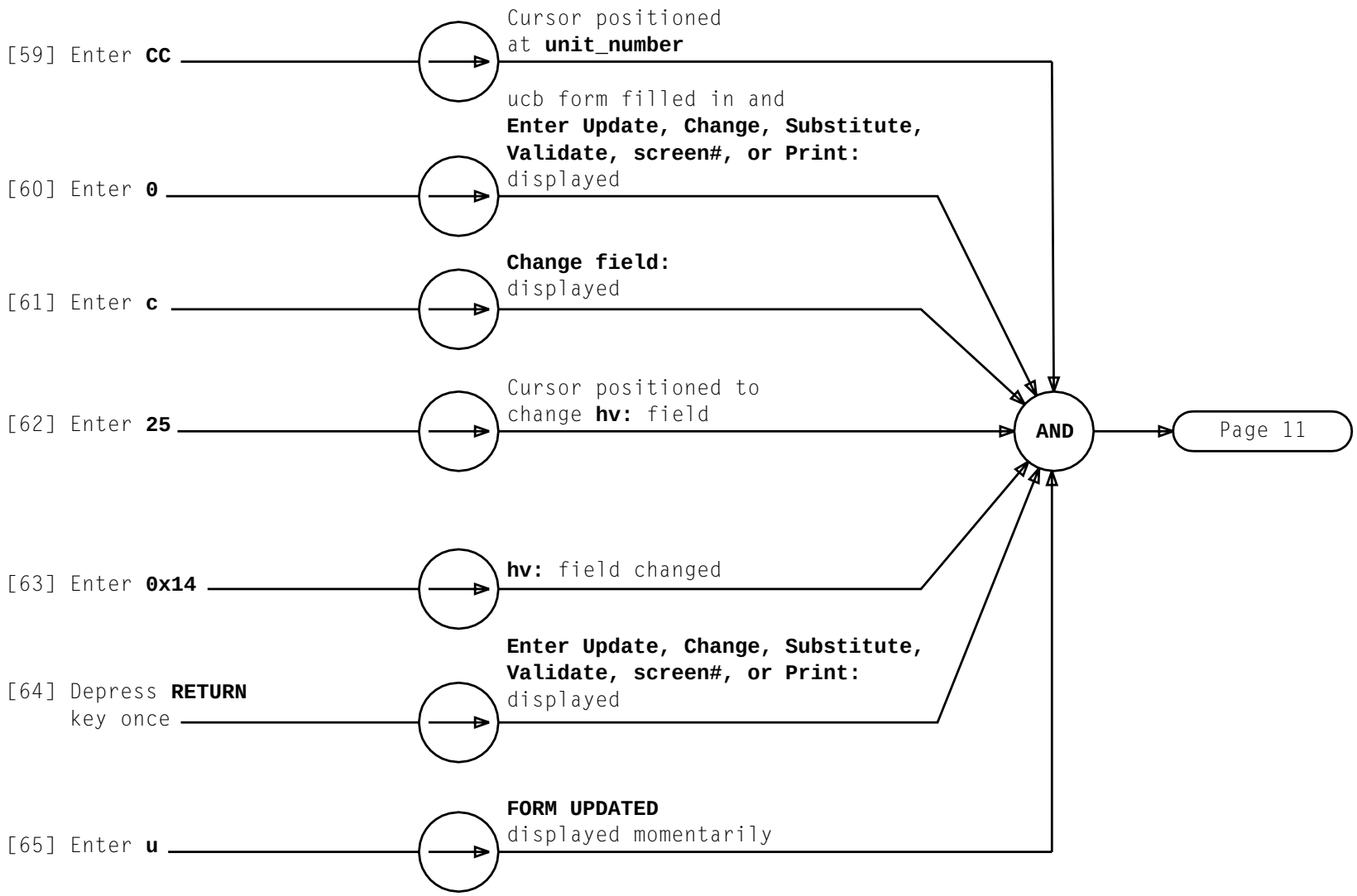
RECENT CHANGE rootdmly DATA BASE



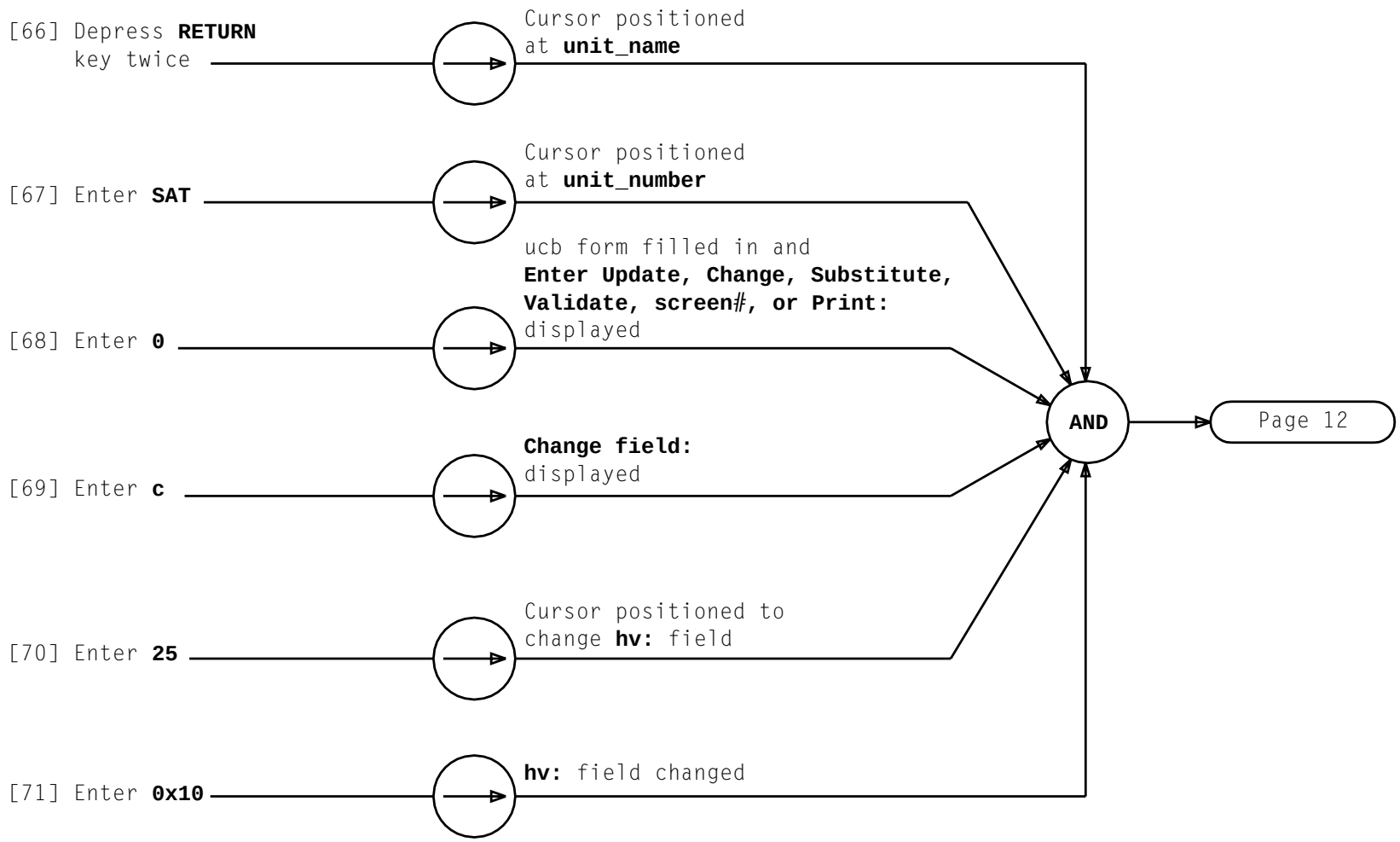
RECENT CHANGE rootdmly DATA BASE



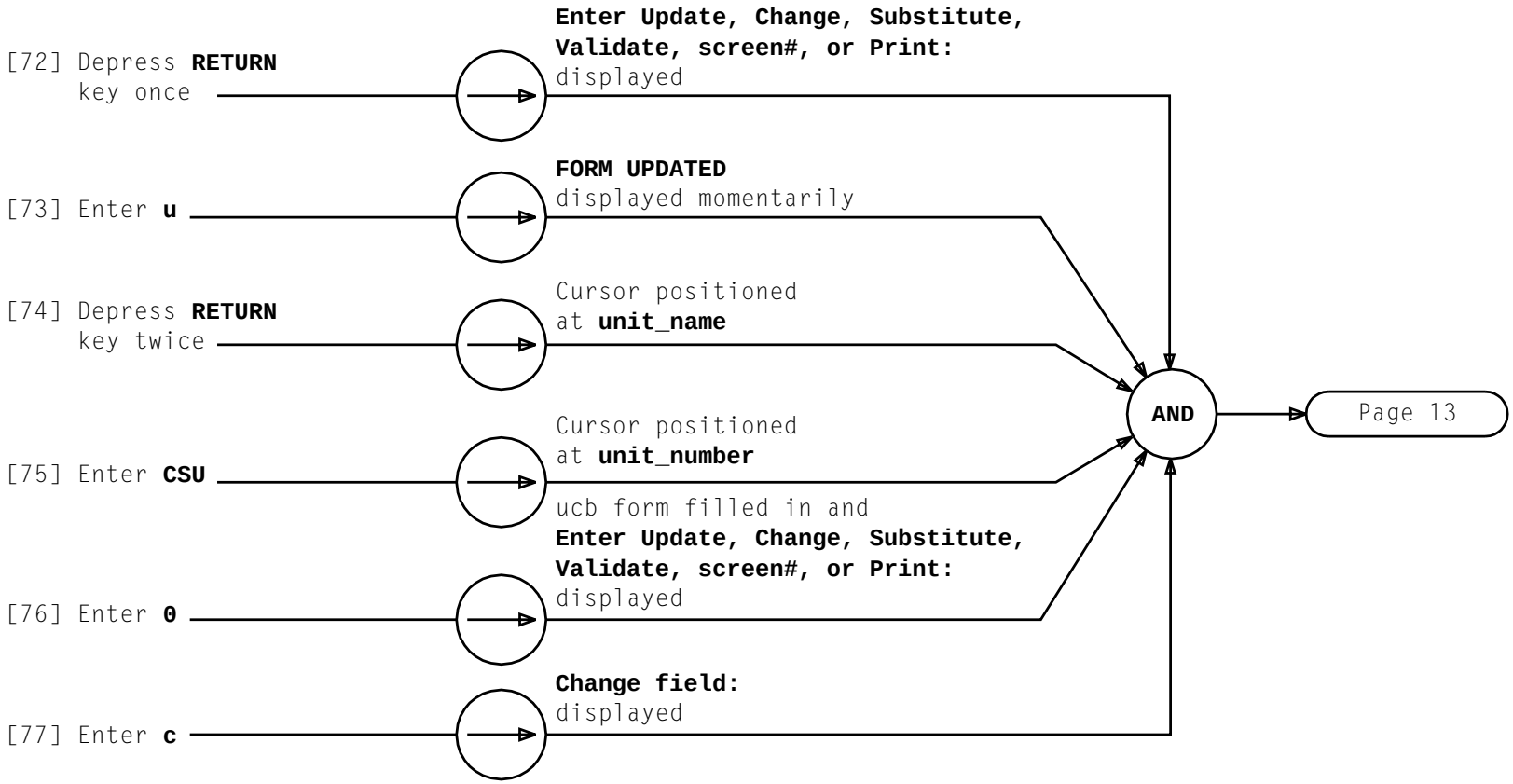
RECENT CHANGE rootdmly DATA BASE

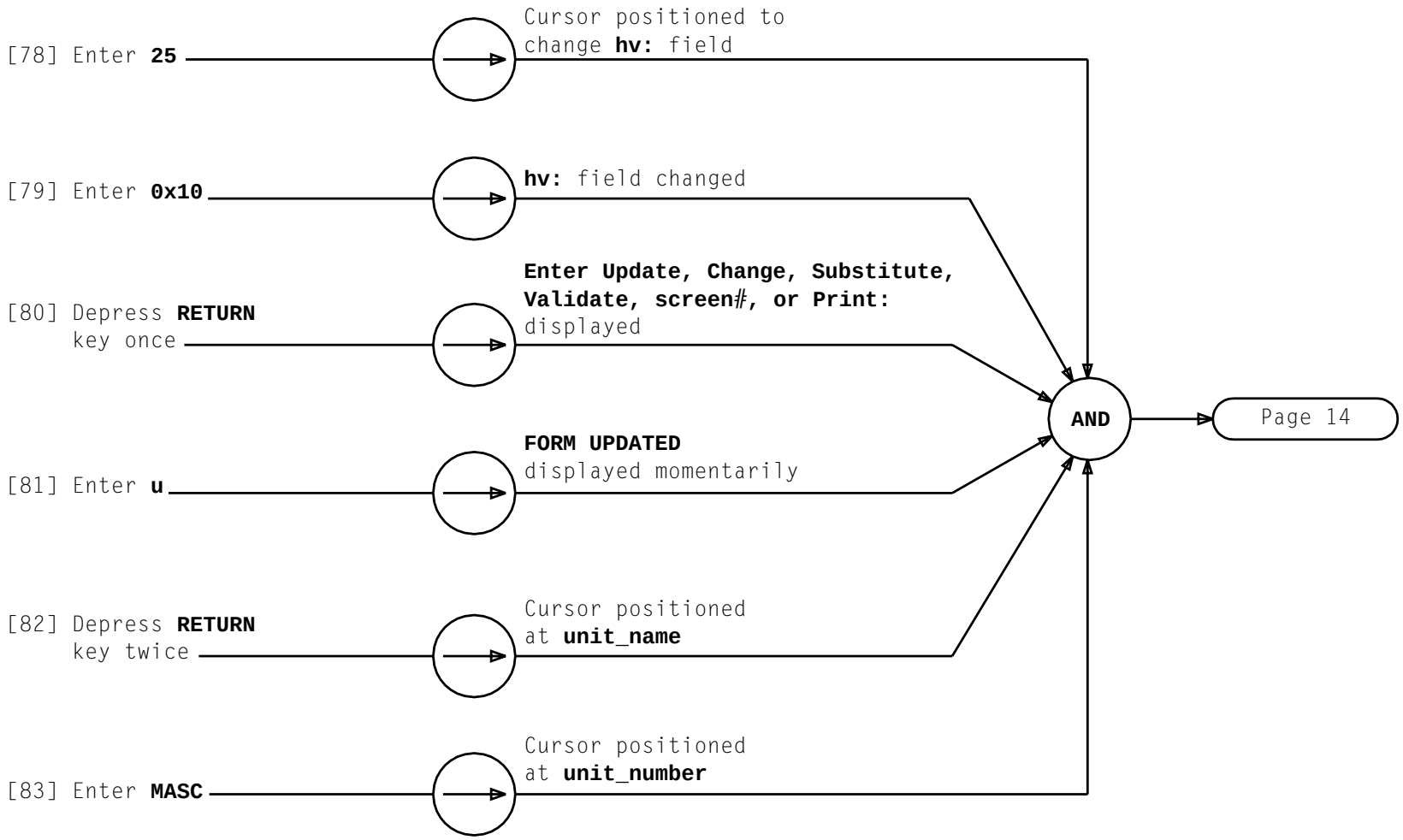


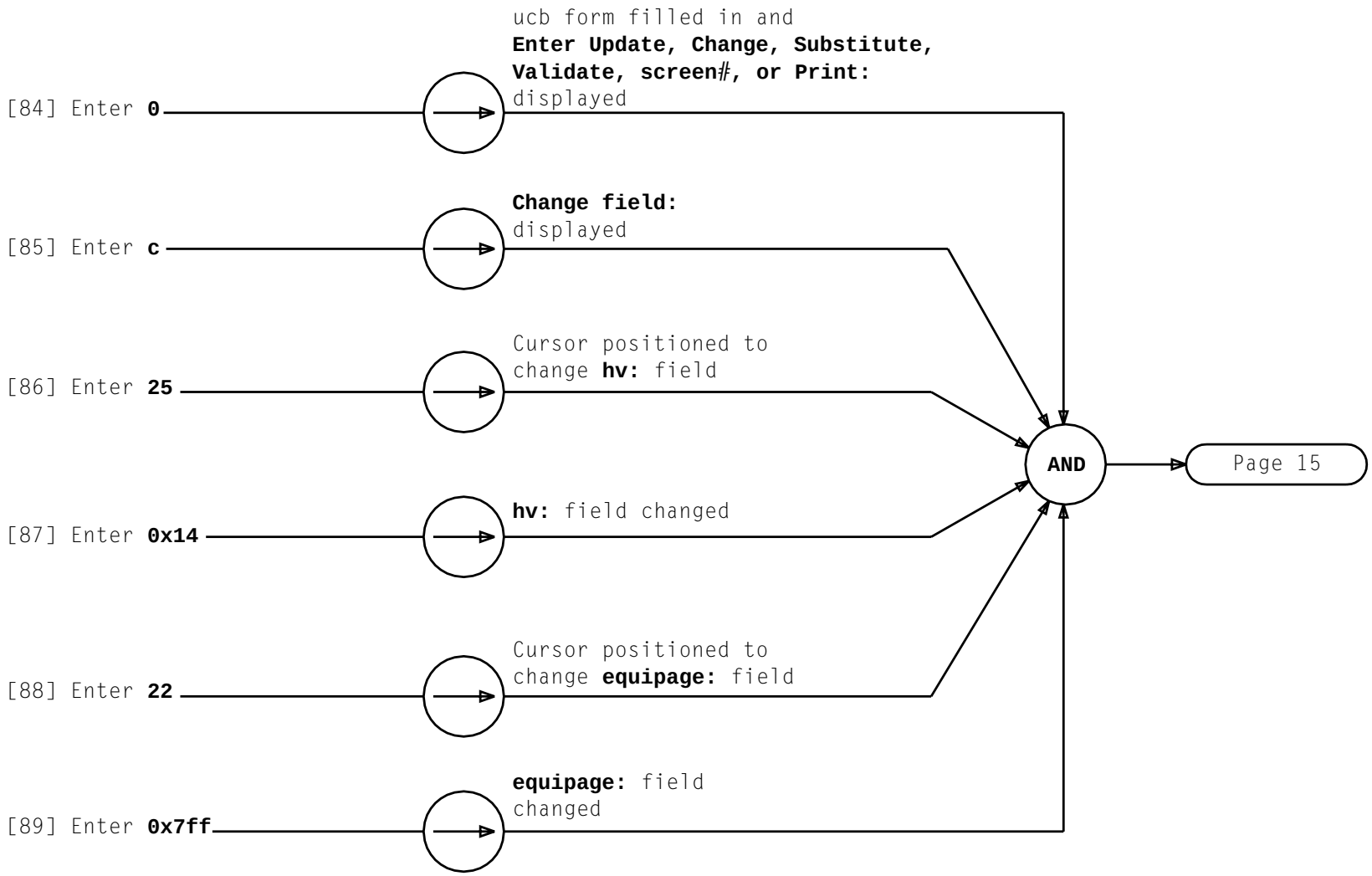
RECENT CHANGE rootdmly DATA BASE



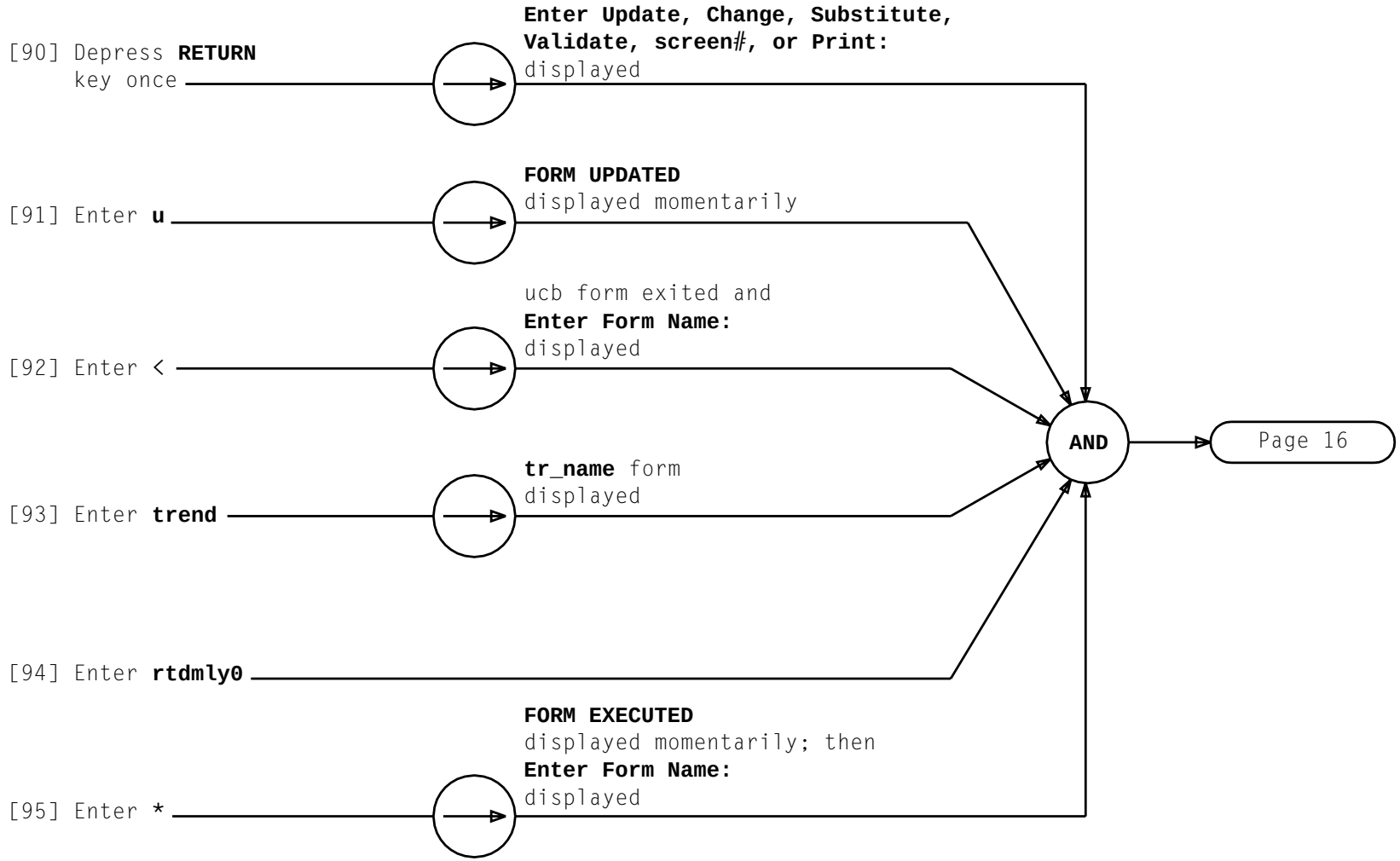
RECENT CHANGE rootdmly DATA BASE


[72] Depress **RETURN** key once
[73] Enter **u**
[74] Depress **RETURN** key twice
[75] Enter **CSU**
[76] Enter **0**
[77] Enter **c**
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed
FORM UPDATED displayed momentarily
Cursor positioned at **unit_name**
Cursor positioned at **unit_number**
ucb form filled in and **Enter Update, Change, Substitute, Validate, screen#, or Print:** displayed
Change field: displayed
AND
Page 13

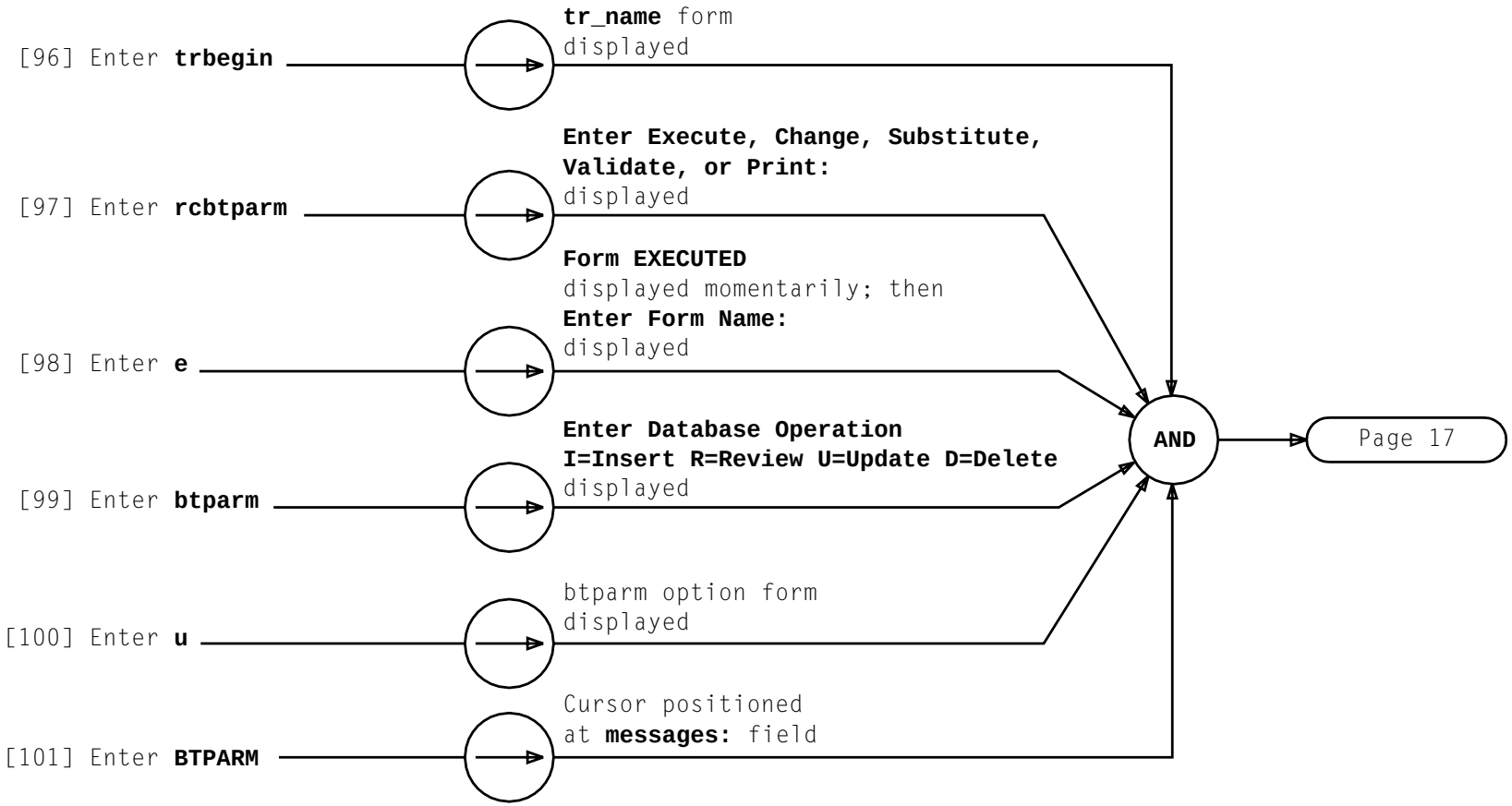

[78] Enter **25**
Cursor positioned to change **hv:** field
[79] Enter **0x10**
hv: field changed
[80] Depress **RETURN** key once
Enter Update, Change, Substitute, Validate, screen#, or Print: displayed
[81] Enter **u**
FORM UPDATED displayed momentarily
[82] Depress **RETURN** key twice
Cursor positioned at **unit_name**
[83] Enter **MASC**
Cursor positioned at **unit_number**
AND
Page 14

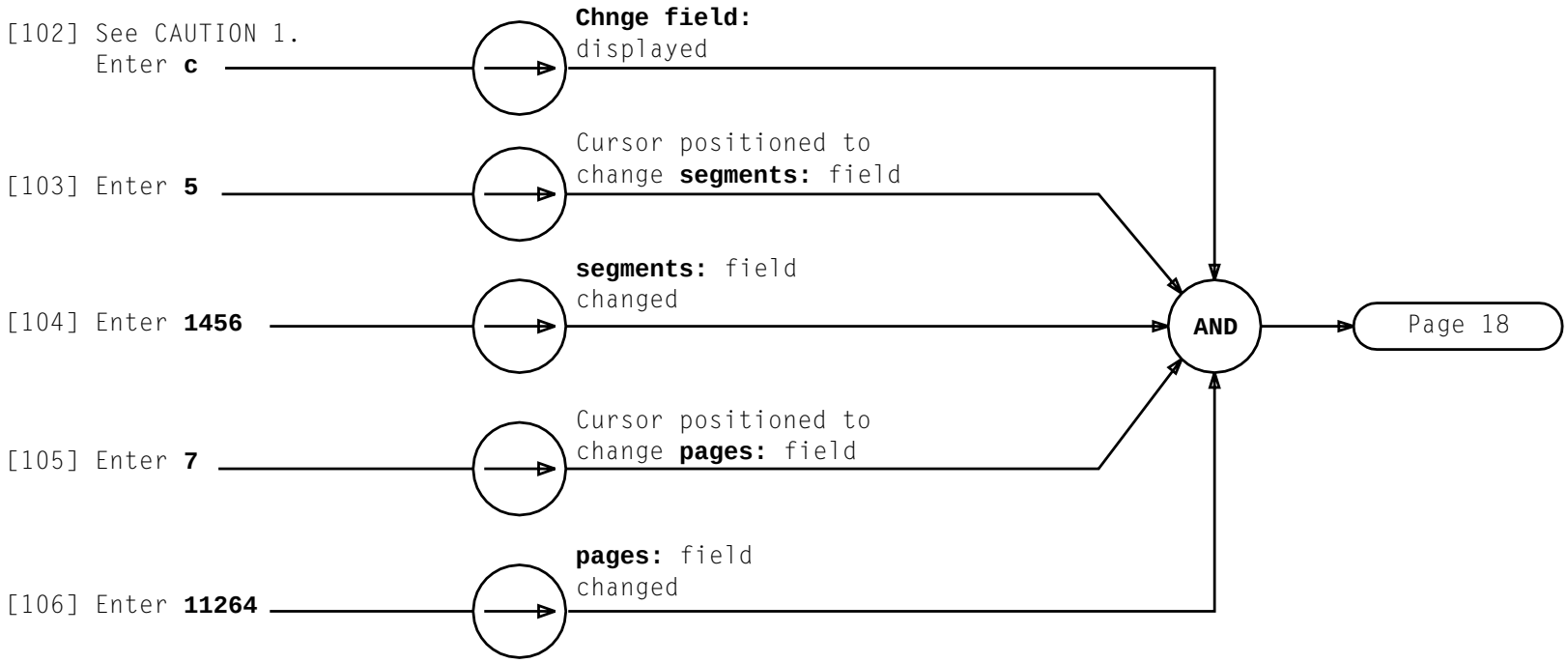


RECENT CHANGE rootdmly DATA BASE



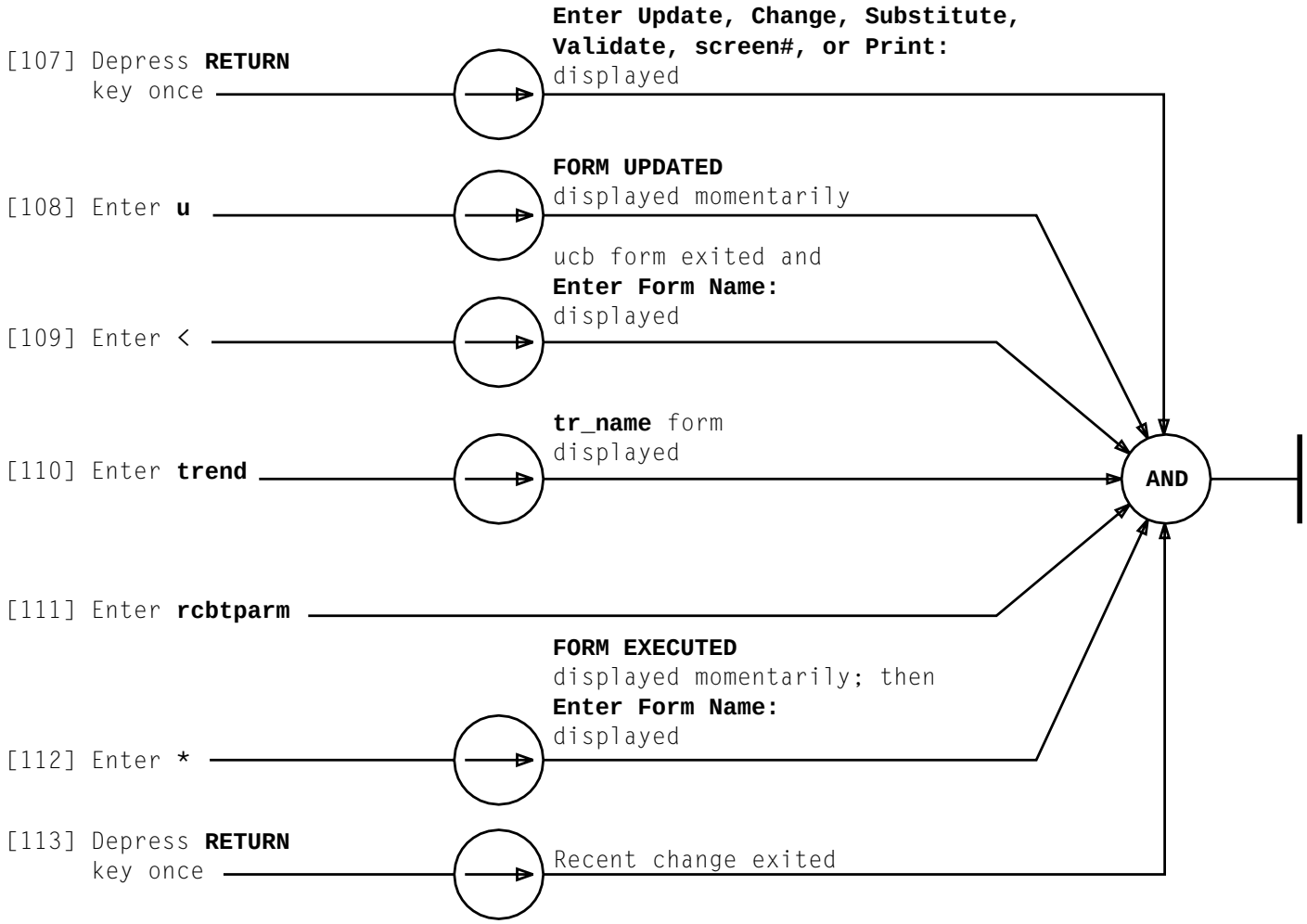
RECENT CHANGE rootdmly DATA BASE


[96] Enter **trbegin**
tr_name form displayed
[97] Enter **rcbtparm**
Enter Execute, Change, Substitute, Validate, or Print: displayed
[98] Enter **e**
Form EXECUTED displayed momentarily; then **Enter Form Name:** displayed
[99] Enter **btparm**
Enter Database Operation I=Insert R=Review U=Update D=Delete displayed
[100] Enter **u**
btparm option form displayed
[101] Enter **BTPARM**
Cursor positioned at **messages:** field
AND
Page 17

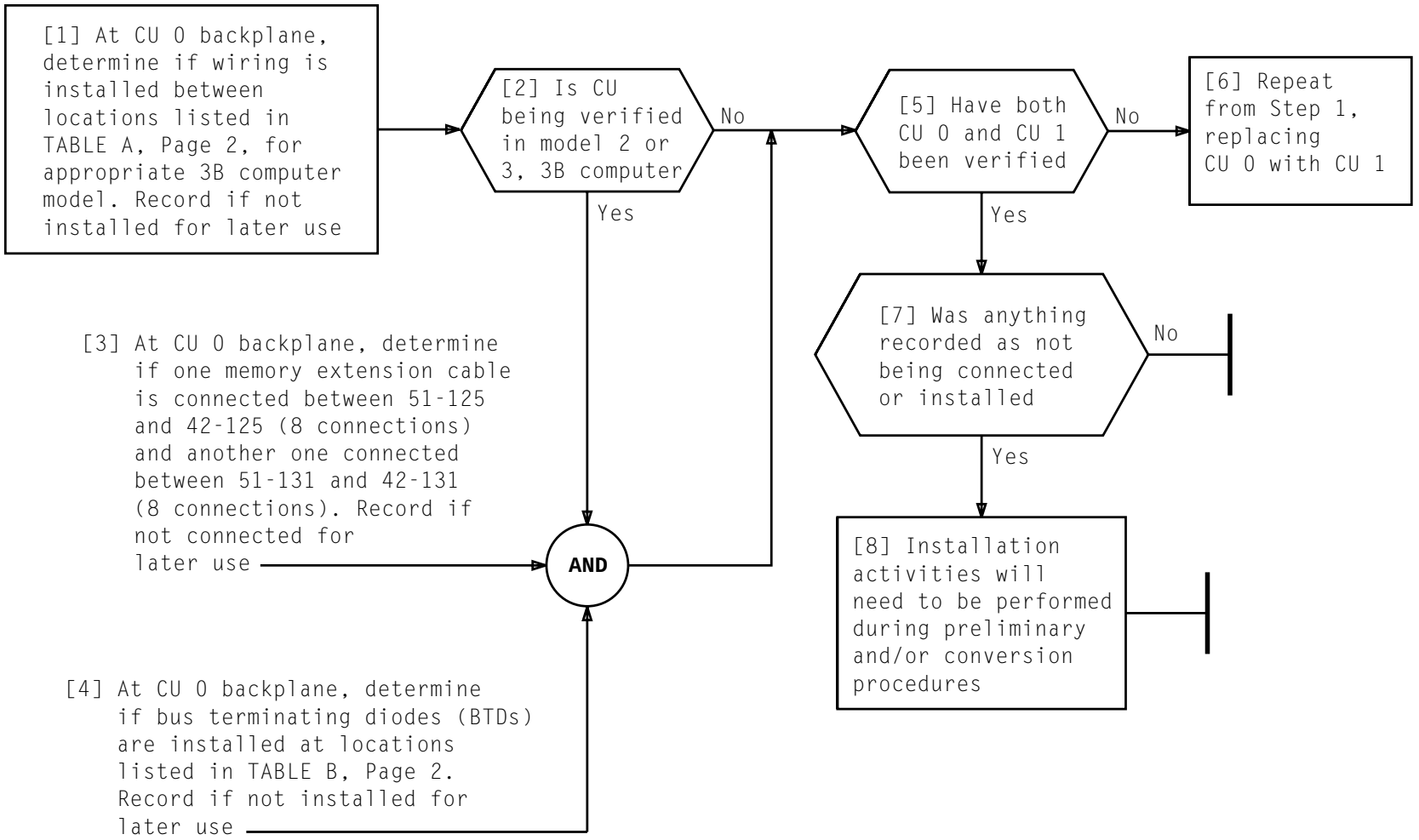


CAUTION 1
Extreme care must be used when recent changing btparm form

RECENT CHANGE rootdmly DATA BASE



RECENT CHANGE rootdmly DATA BASE



DETERMINE IF WIRING AND BUS TERMINATING DIODES ARE INSTALLED

TABLE A			
MODEL 1		MODEL 2/3	
FROM (EQL)	TO (EQL)	FROM (EQL)	TO (EQL)
66-108-005	66-136-005	60-104-005	60-124-005
66-136-005	66-144-005	60-124-005	60-130-005
66-144-005	66-152-005	60-130-005	60-138-005
66-108-006	66-116-410	60-104-006	60-110-410
66-108-118	66-160-034	60-104-118	60-146-034
66-108-120	66-160-042	60-104-120	60-146-042

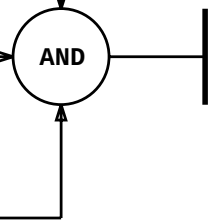
TABLE B BUS TERMINATING DIODE LOCATIONS	
42-167-000	42-169-000
42-167-013	42-169-013
42-167-032	42-169-032
42-167-045	42-169-045

DETERMINE IF WIRING AND BUS TERMINATING DIODES ARE INSTALLED

[1] At MCRT, enter message to dump ECD for CU 0
EXC:ENVIR:UPROC,FN "ducb",ARGS("CU","0"),OPL 99!

[2] Enter message to dump ECD for CU 1
EXC:ENVIR:UPROC,FN "ducb",ARGS("CU","1"),OPL 99!

[3] Save above printouts for later use if backout is required



DUMP ECD FOR CU 0 AND CU 1 FOR USE IN CASE OF BACK-OUT

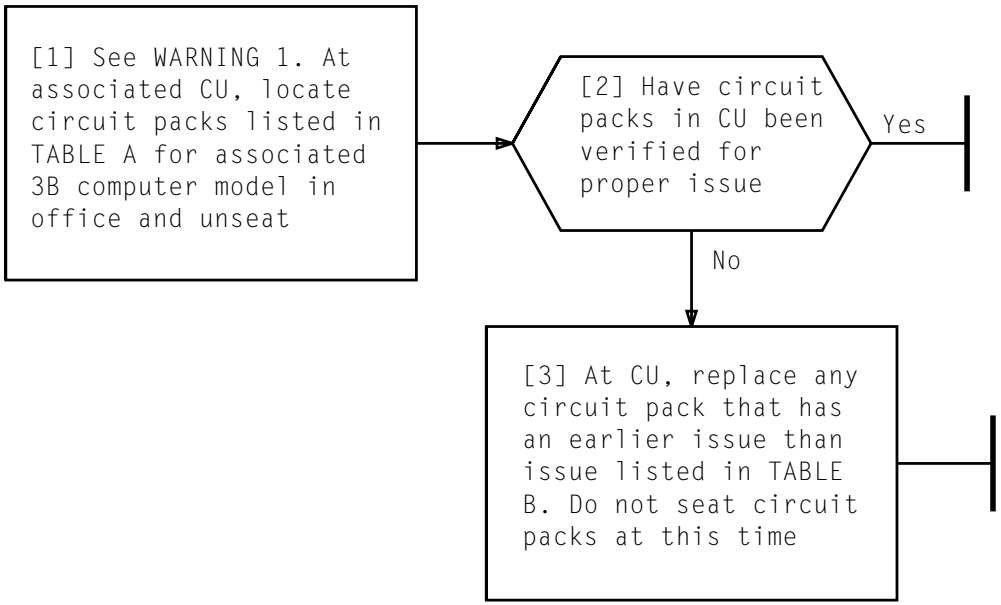


TABLE A

CIRCUIT PACKS*	LOCATIONS	
	MODEL 1	MODEL 2/3
UN59C	56-168	51-112
UN43D	66-108	60-104

* Circuit packs listed are lowest issue that can be installed

TABLE B

CIRCUIT PACKS	LOCATIONS	
	MODEL 1	MODEL 2/3
UN59C	56-168	51-112
UN133B	66-160	60-146
UN11C	66-152	60-138
UN10C	66-144	60-130
UN10C	66-136	60-124
UN43D	66-108	60-104
UN45C	66-116	60-110
UN28B (MC4C077A1C)	66-008	60-036

WARNING 1

An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs while handling

VERIFY, IF REQUIRED AND UNSEAT CU CIRCUIT PACKS

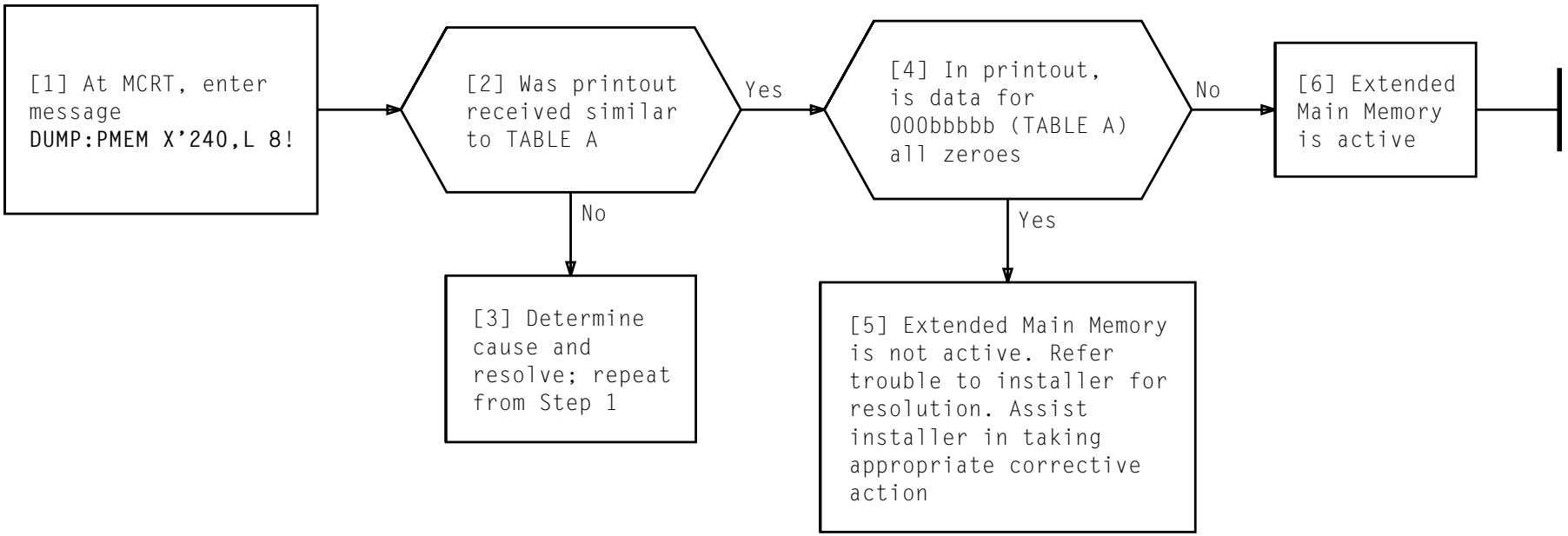


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	DUMP:PMEM X'240 COMPLETED ADDRESS(HEX): CONTENTS OF MEMORY(HEX): 240: 0008aaaa 000bbbbb

aaaa = any value
bbbbb = any value

VERIFY EXTENDED MAIN MEMORY IS ACTIVE

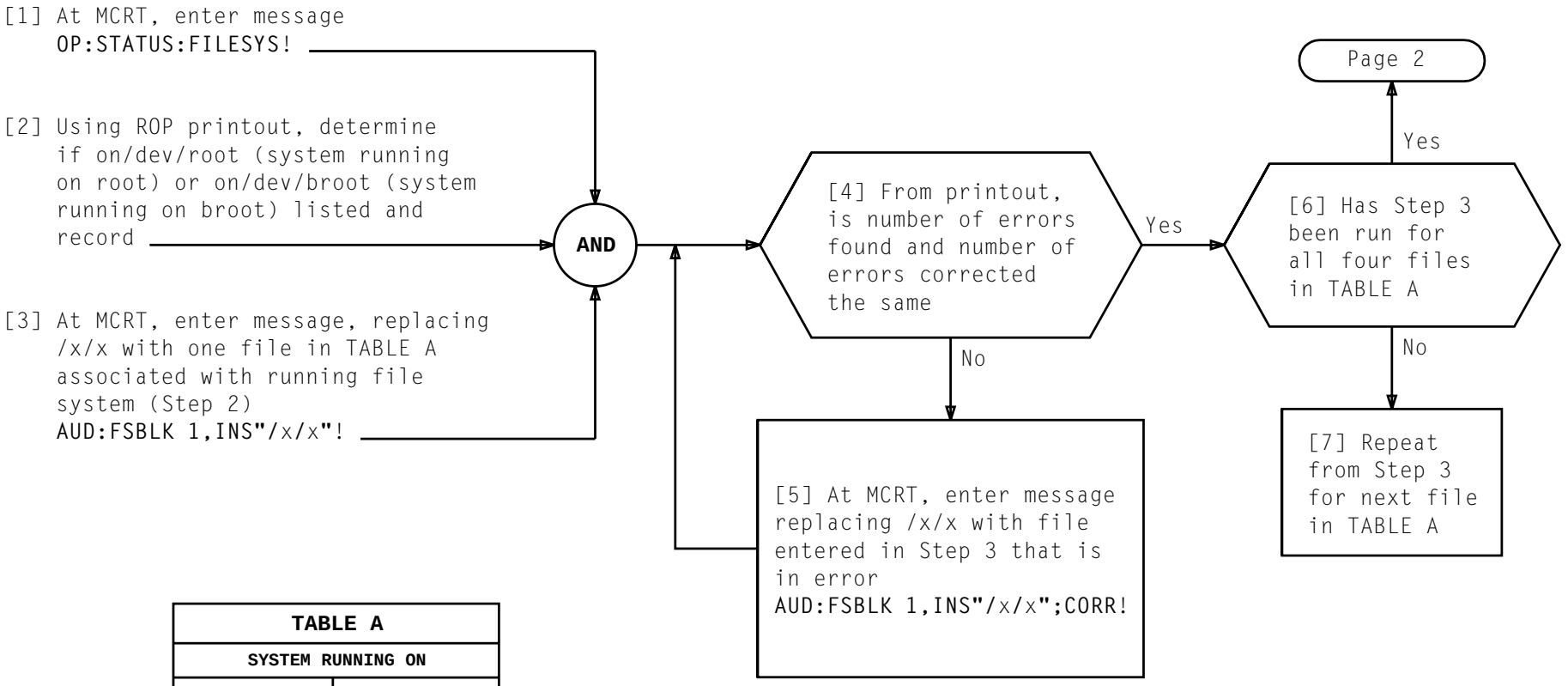


TABLE A	
SYSTEM RUNNING ON	
ROOT	BROOT
/dev/root	/dev/broot
/dev/db	/dev/bdb
/dev/etc	/dev/betc
/dev/log	/dev/log

RUN FILE SYSTEM AND BOOT AUDITS TO ENSURE NO FILE SYSTEM ERRORS

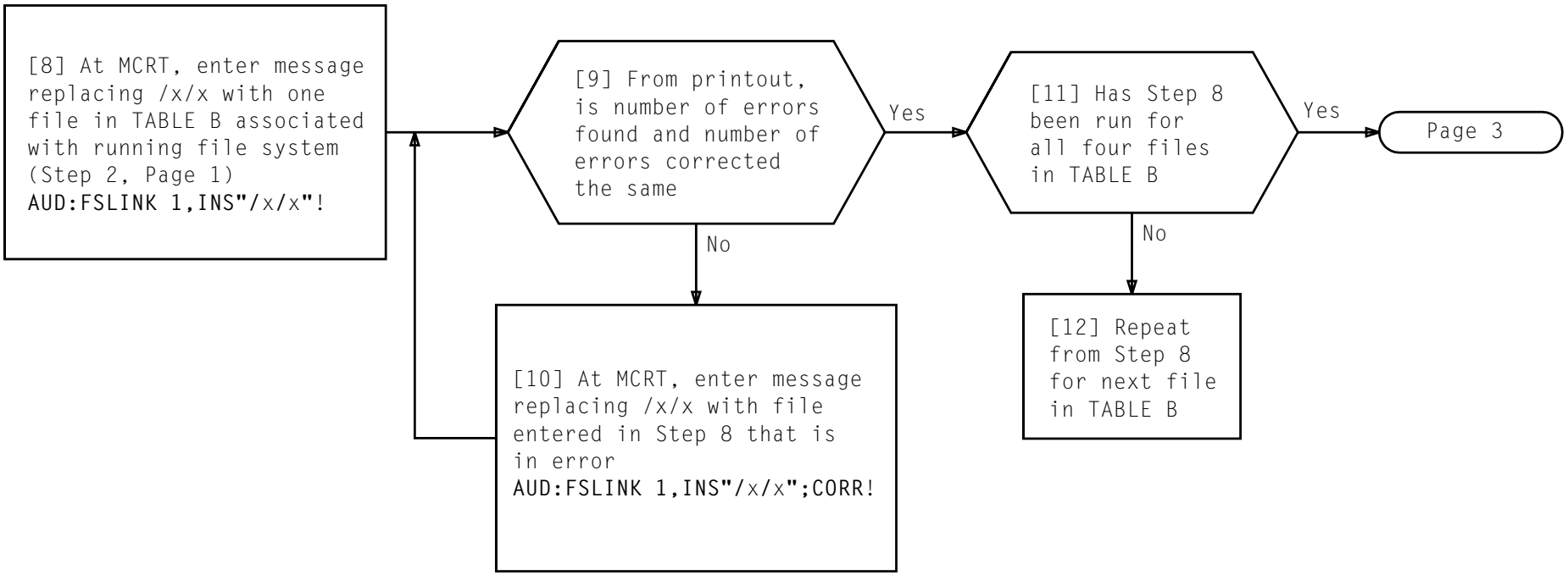


TABLE B	
SYSTEM RUNNING ON	
ROOT	BROOT
/dev/root	/dev/broot
/dev/db	/dev/bdb
/dev/etc	/dev/betc
/dev/log	/dev/log

RUN FILE SYSTEM AND BOOT AUDITS TO ENSURE NO FILE SYSTEM ERRORS

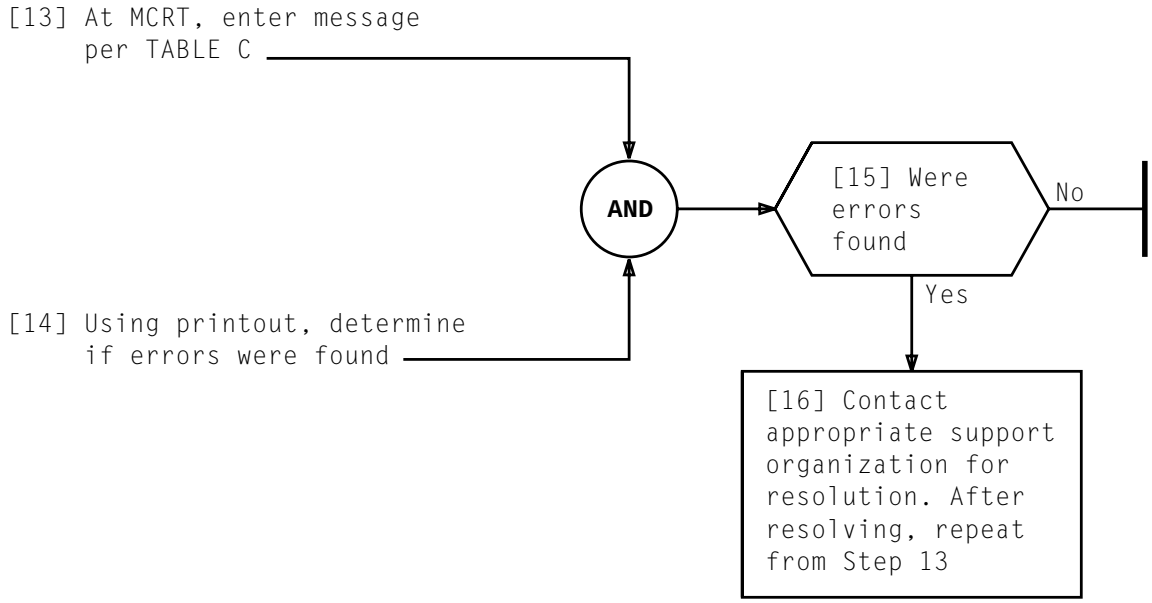
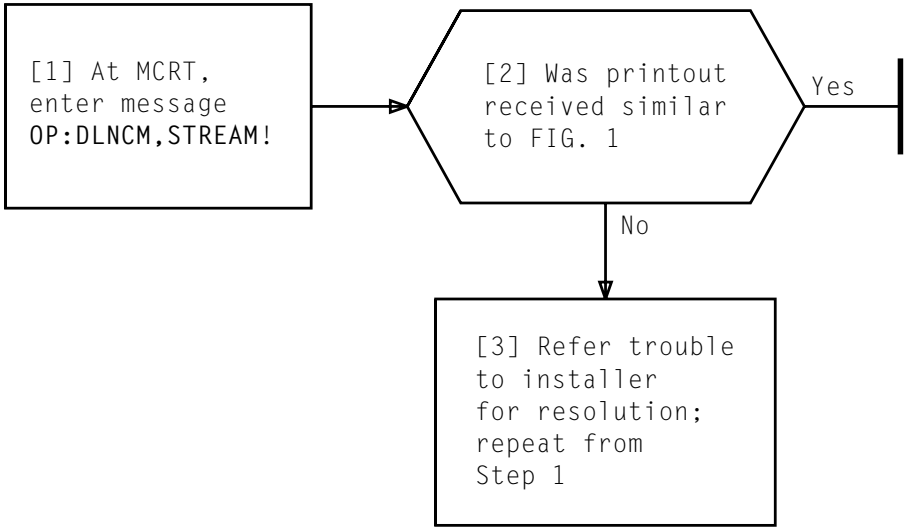


TABLE C	
MESSAGE NUMBER	**INPUT MESSAGE**
1	EXC:ENVIR:UPROC,FN"/tools/bootaud"!

RUN FILE SYSTEM AND BOOT AUDITS TO ENSURE NO FILE SYSTEM ERRORS




```
OP DLNCM STREAM COMPLETED

API-DLN STREAM STATUS

API: SCAN BOTH                      DLN: SCAN BOTH

INCOMING BUFFER                     OUTGOING BUFFER
   START             X'--------        START             X'--------
   END               X'--------        END               X'--------
   LOAD POINTER      X'--------        LOAD POINTER      X'--------
   UNLOAD POINTER    X'--------        UNLOAD POINTER    X'--------
   END POINTER       X'--------        END POINTER       X'--------
```

FIG. 1 — Sample OP:DLNCM Printout

VERIFY API-DLN STREAM STATUS

[1] At data set associated with OCDD service, connect PINET RS-449 cable

[2] Using TABLE A, determine location associated with AT&T 3B Computer model in office

AND

[3] Using FIG. 1, at IOP 0, connect other end of cable (Step 1) at location determined in Step 2

TABLE A	
MODEL	**LOCATION**
1	074-032-145
2, 3	033-046-145

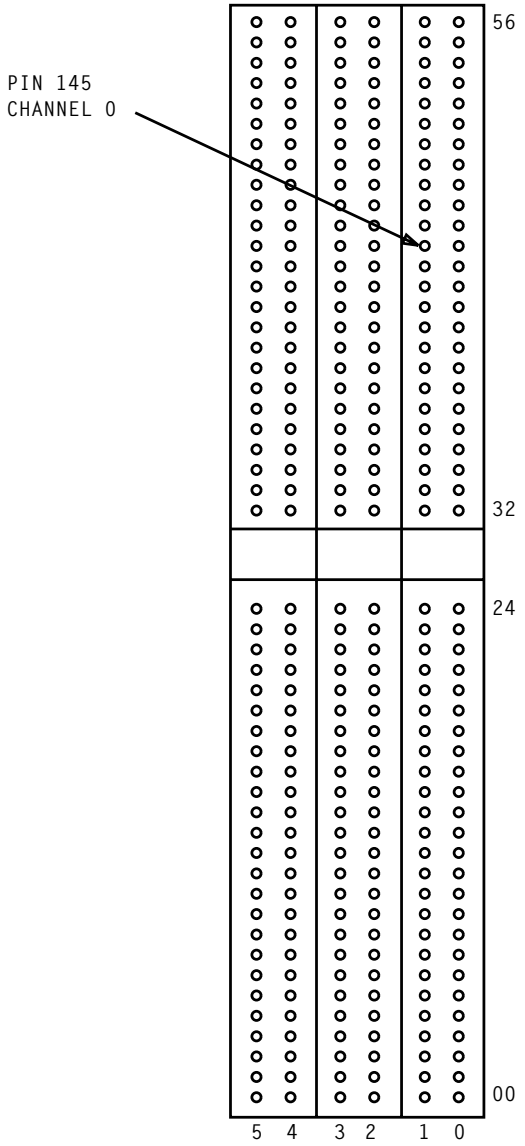


FIG. 2

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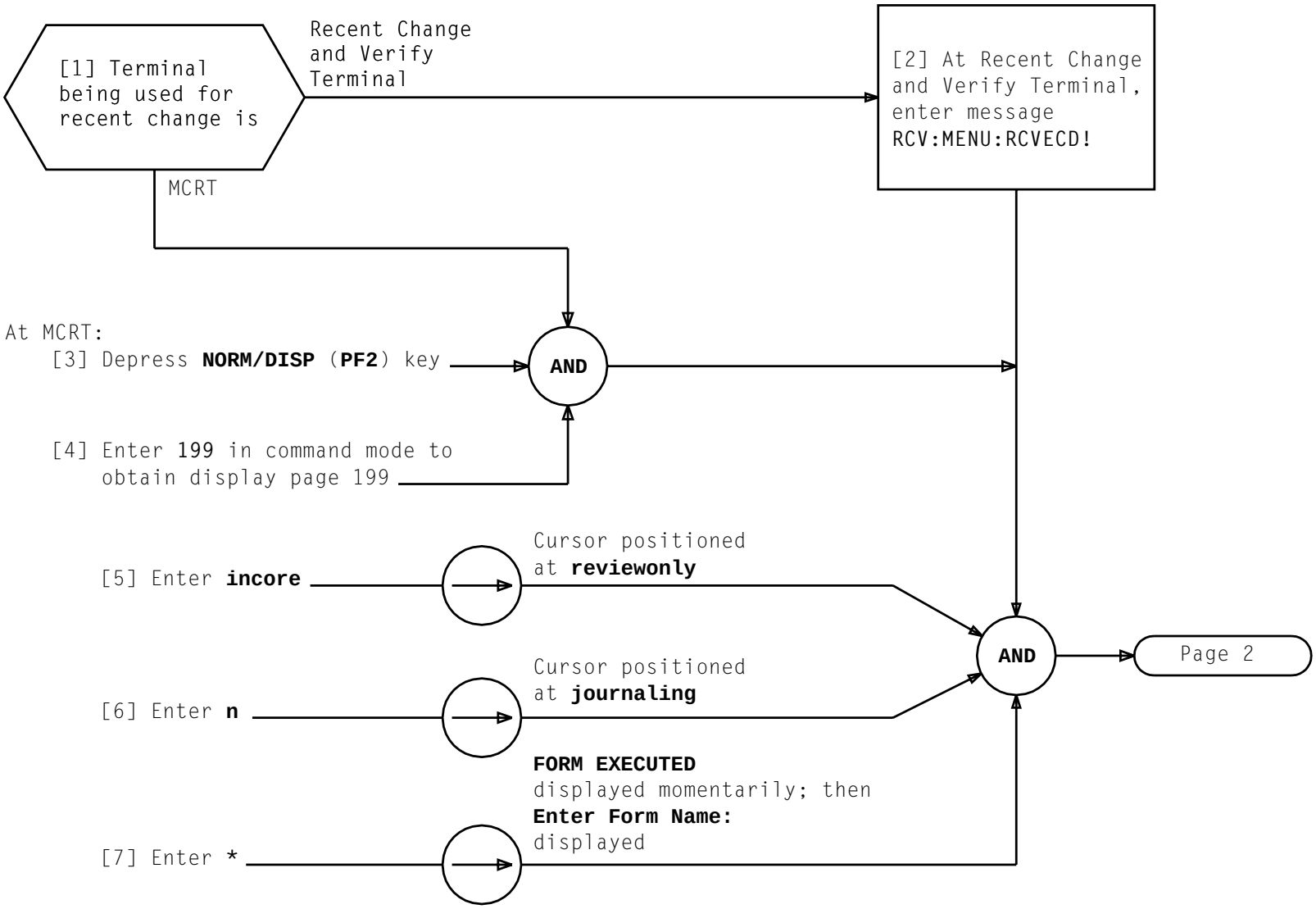
CONNECT PINET RS-449 CABLE FOR OCDD SERVICE



RECENT CHANGE UTILITY CIRCUIT UCB

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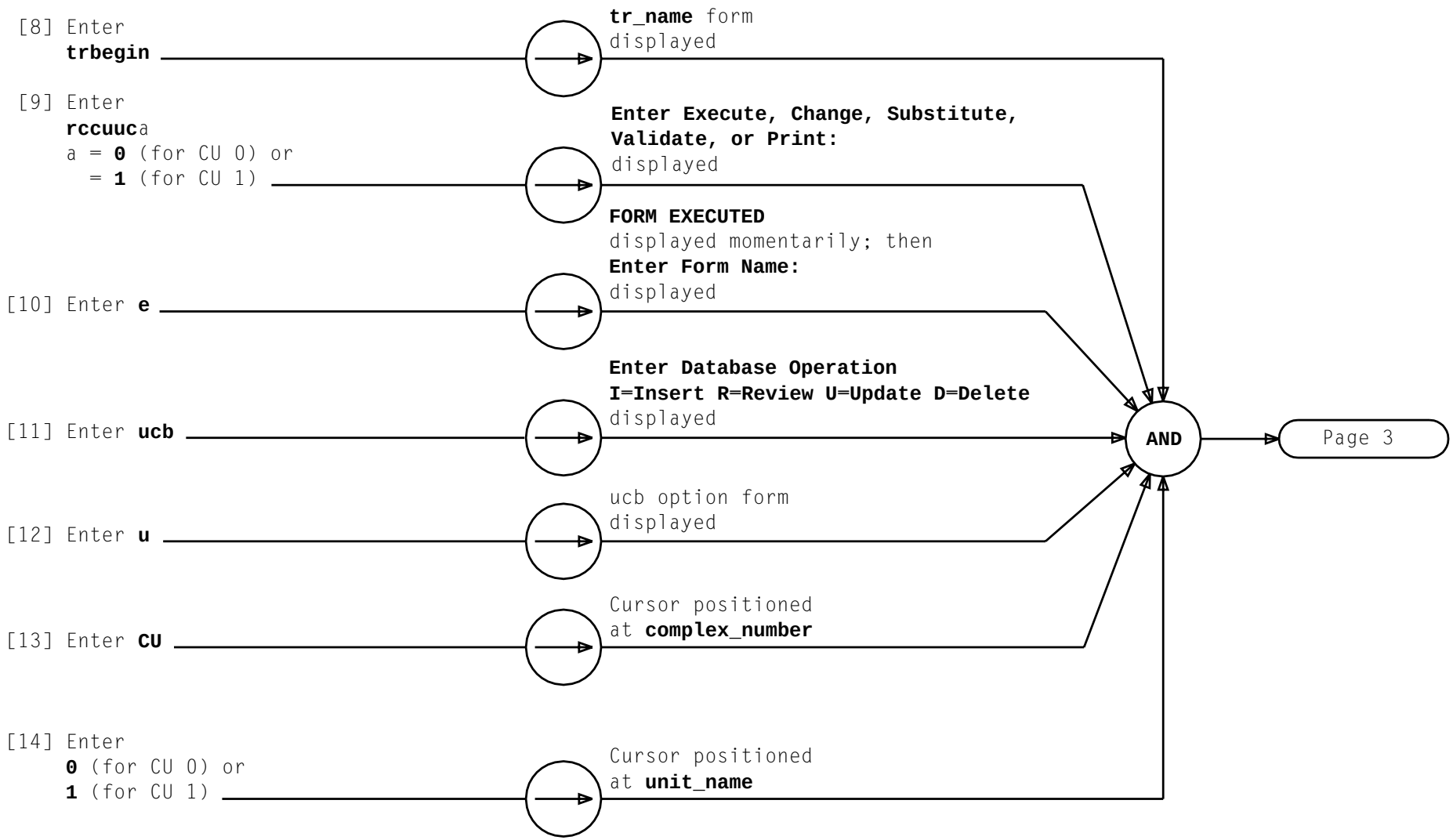
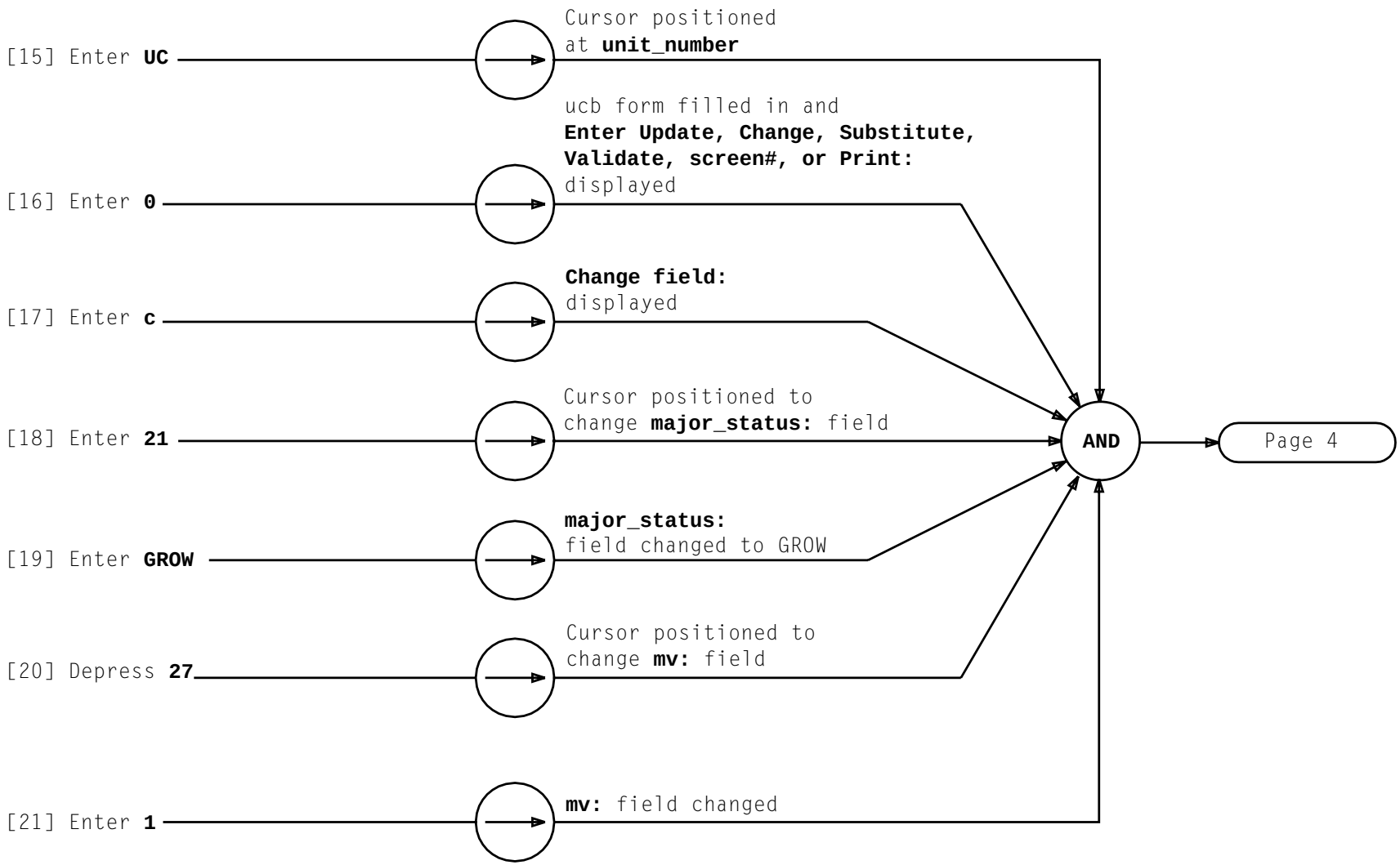
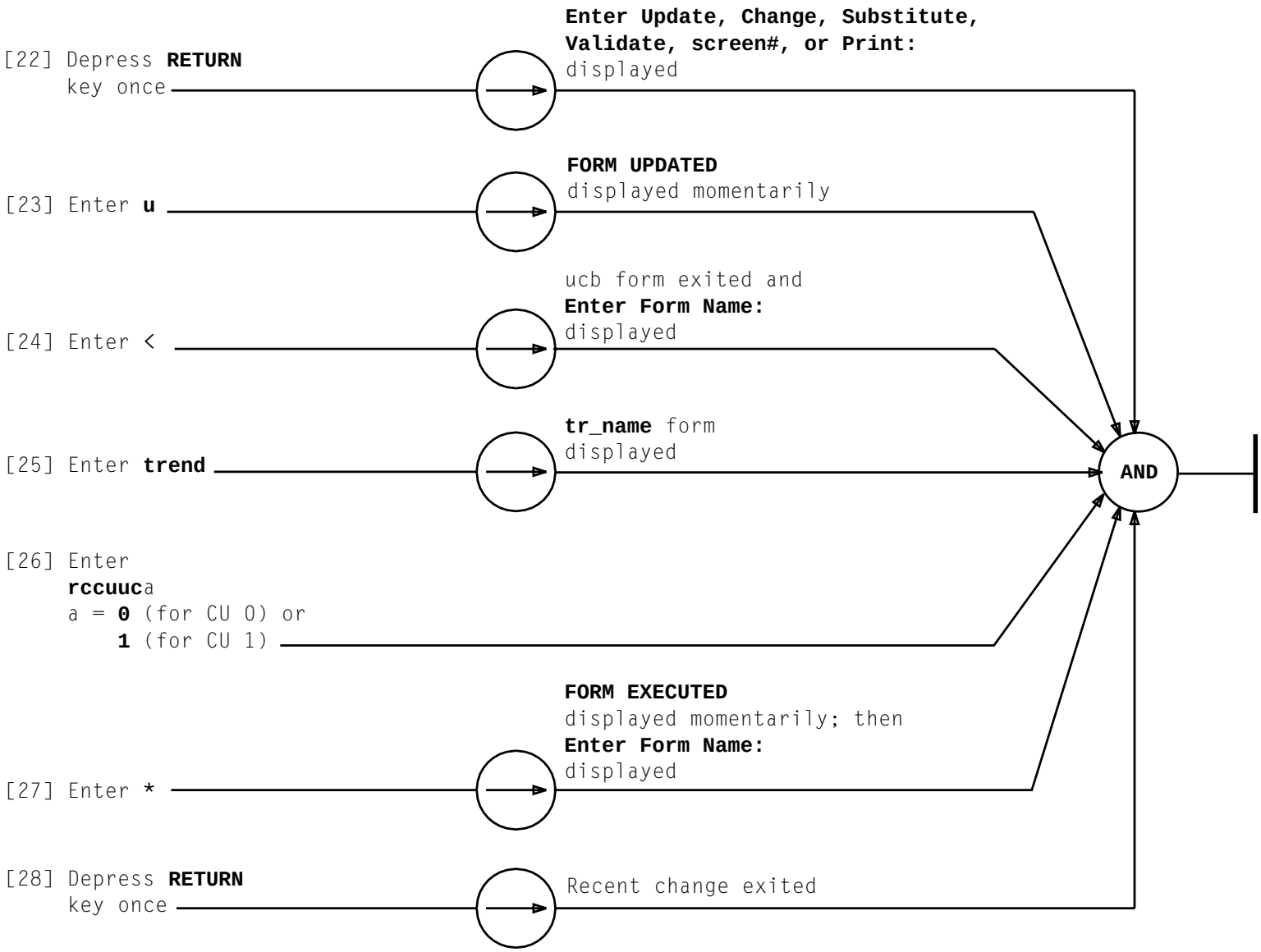


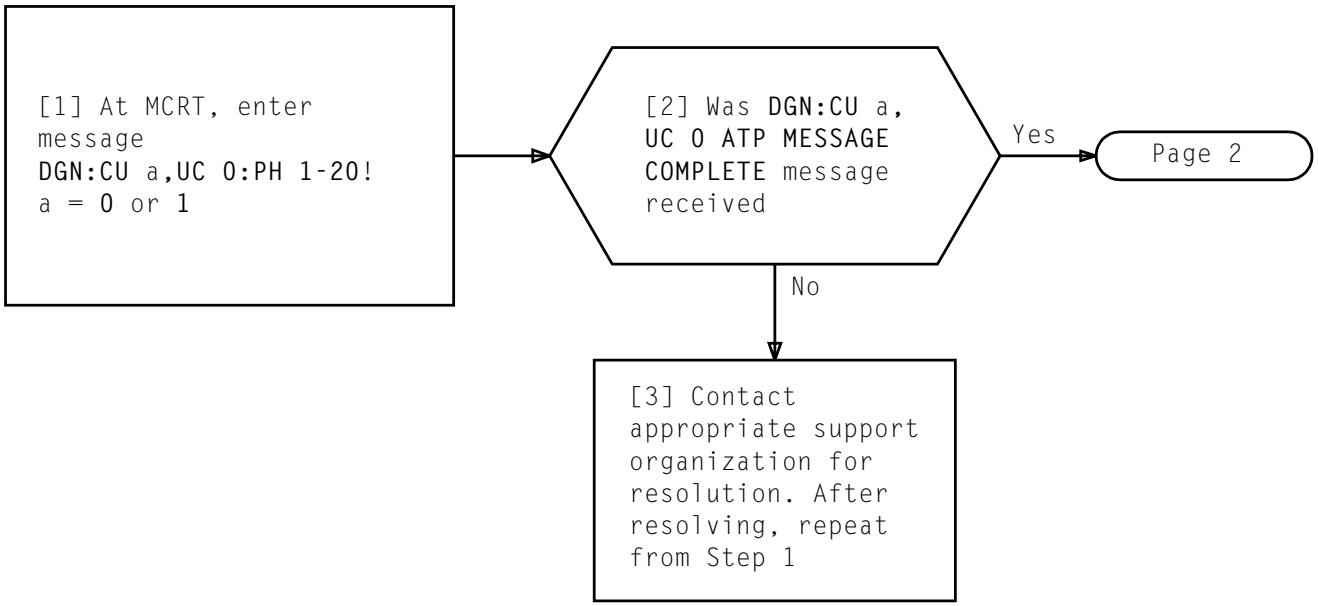
RECENT CHANGE UTILITY CIRCUIT UCB



RECENT CHANGE UTILITY CIRCUIT UCB



RECENT CHANGE UTILITY CIRCUIT UCB



DIAGNOSE UTILITY CIRCUIT

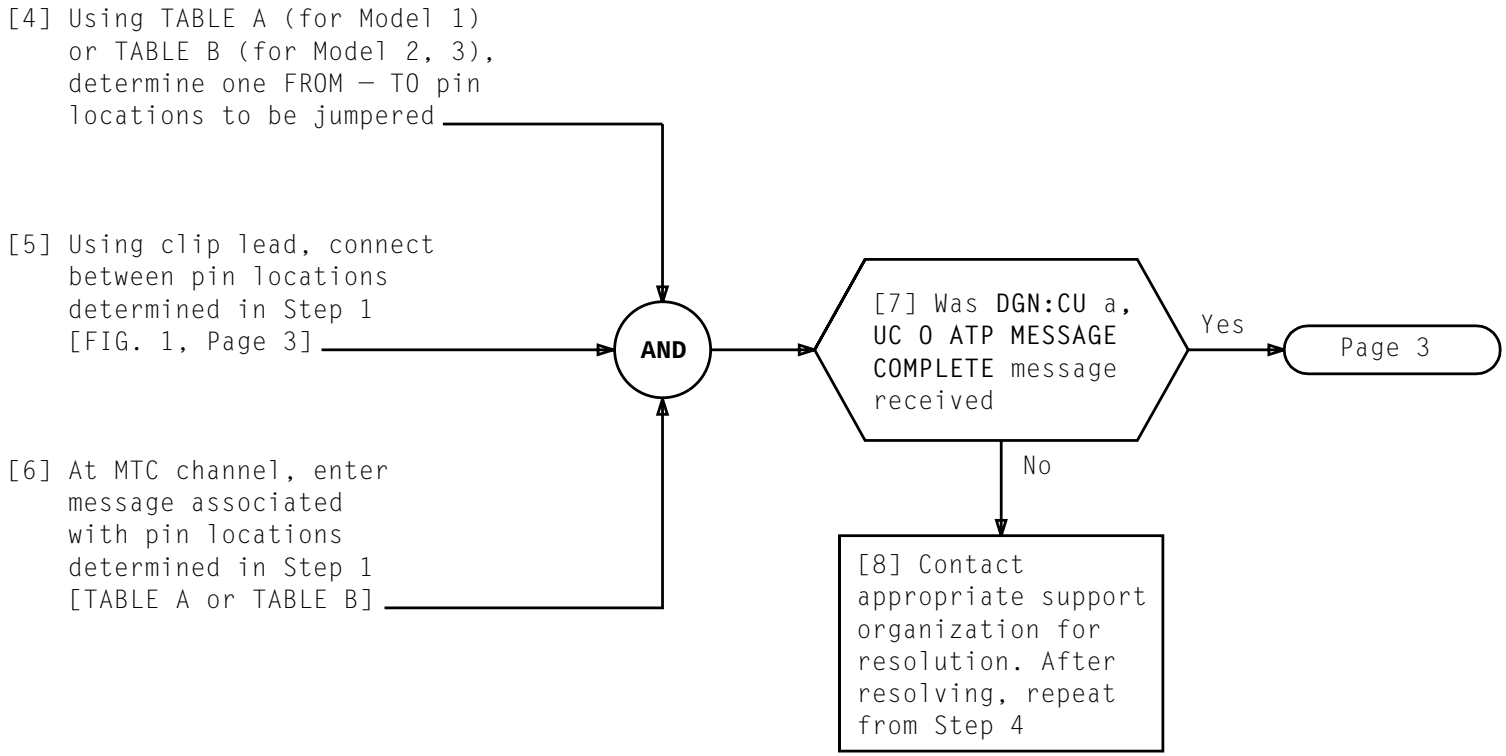
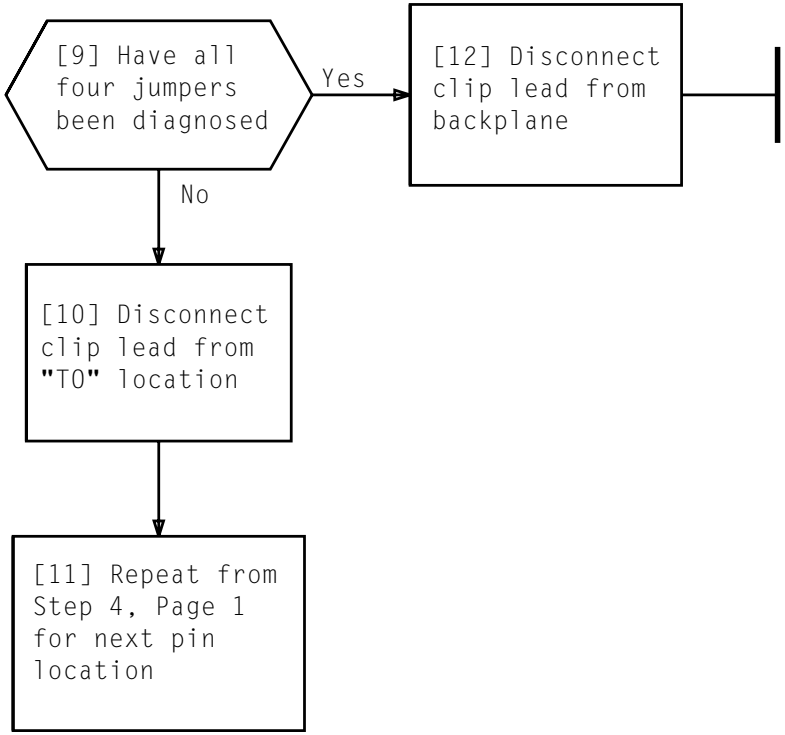


TABLE A — MODEL 1		
FROM	**TO**	**INPUT MESSAGE**
a66-128-405	a66-128-400	DGN:CU a,UC 0:PH 90!
	a66-128-401	DGN:CU a,UC 0:PH 91!
	a66-128-402	DGN:CU a,UC 0:PH 92!
	a66-128-403	DGN:CU a,UC 0:PH 93!
a = 0 (for CU 0) or 1 (for CU 1)		

TABLE B — MODEL 2, 3		
FROM	**TO**	**INPUT MESSAGE**
a60-118-405	a66-118-400	DGN:CU a,UC 0:PH 90!
	a66-118-401	DGN:CU a,UC 0:PH 91!
	a66-118-402	DGN:CU a,UC 0:PH 92!
	a66-118-403	DGN:CU a,UC 0:PH 93!
a = 0 (for CU 0) or 1 (for CU 1)		

DIAGNOSE UTILITY CIRCUIT



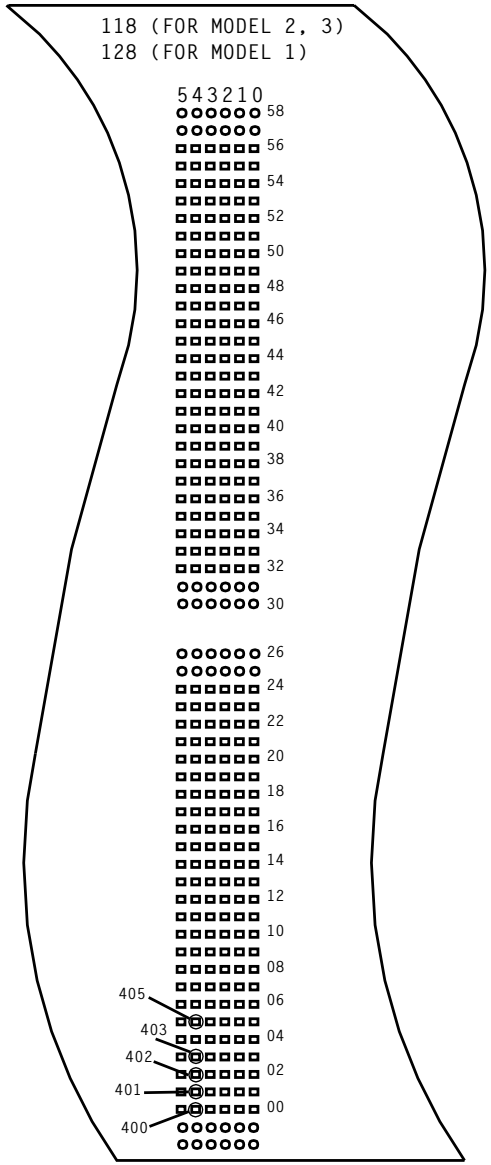
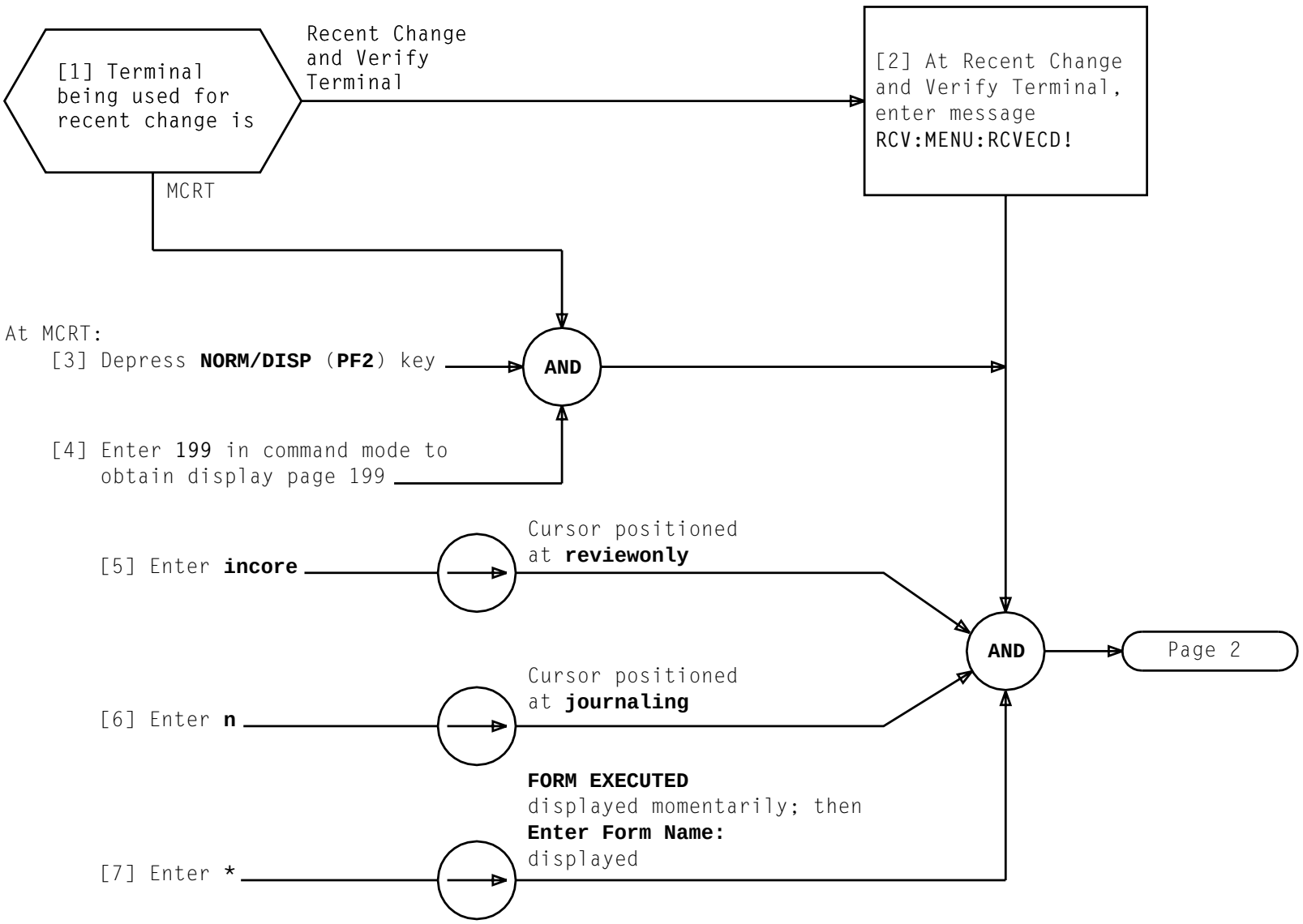


FIG. 1

DIAGNOSE UTILITY CIRCUIT



RECENT CHANGE UTILITY CIRCUIT FROM GROW TO OOS

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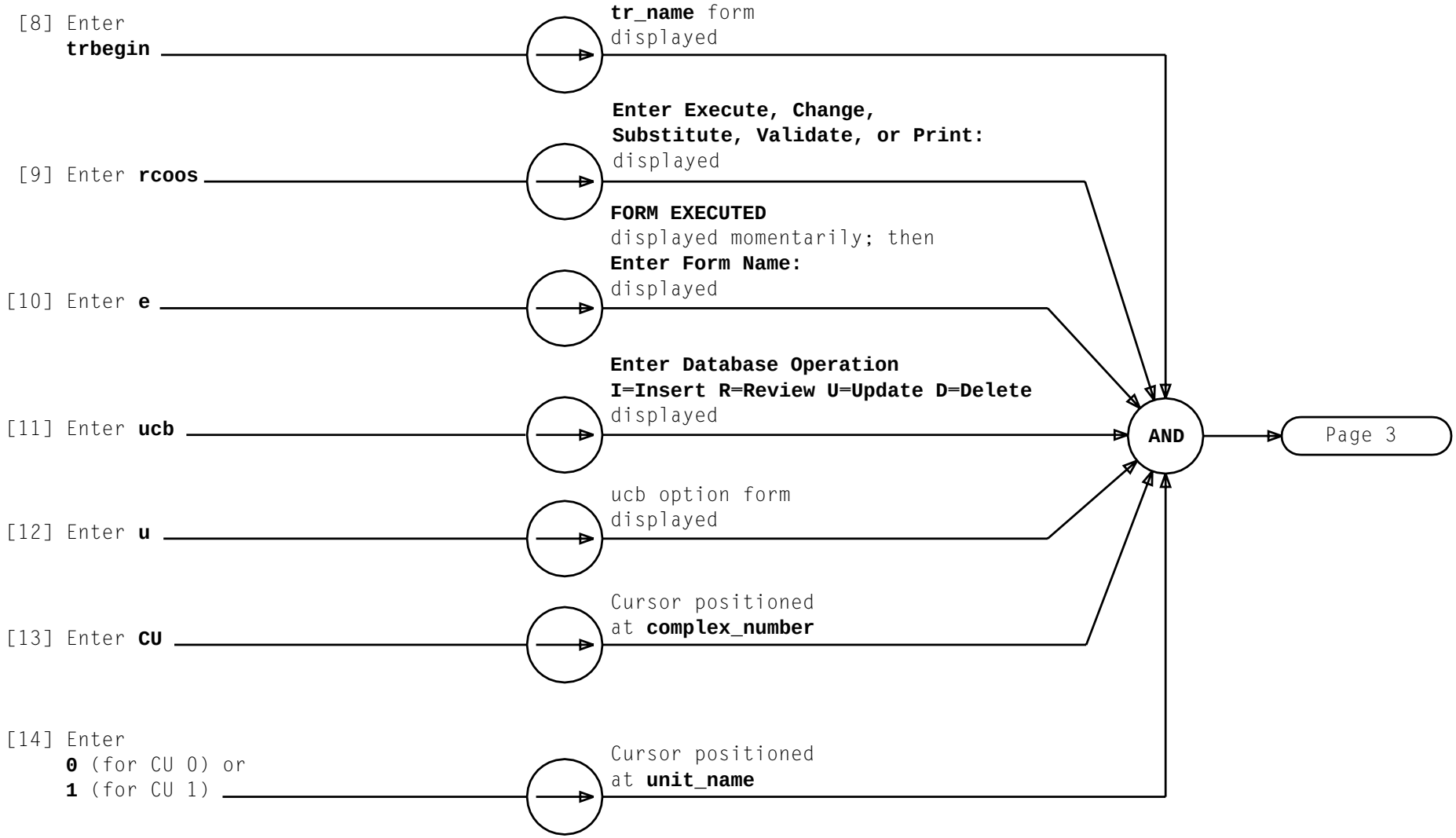
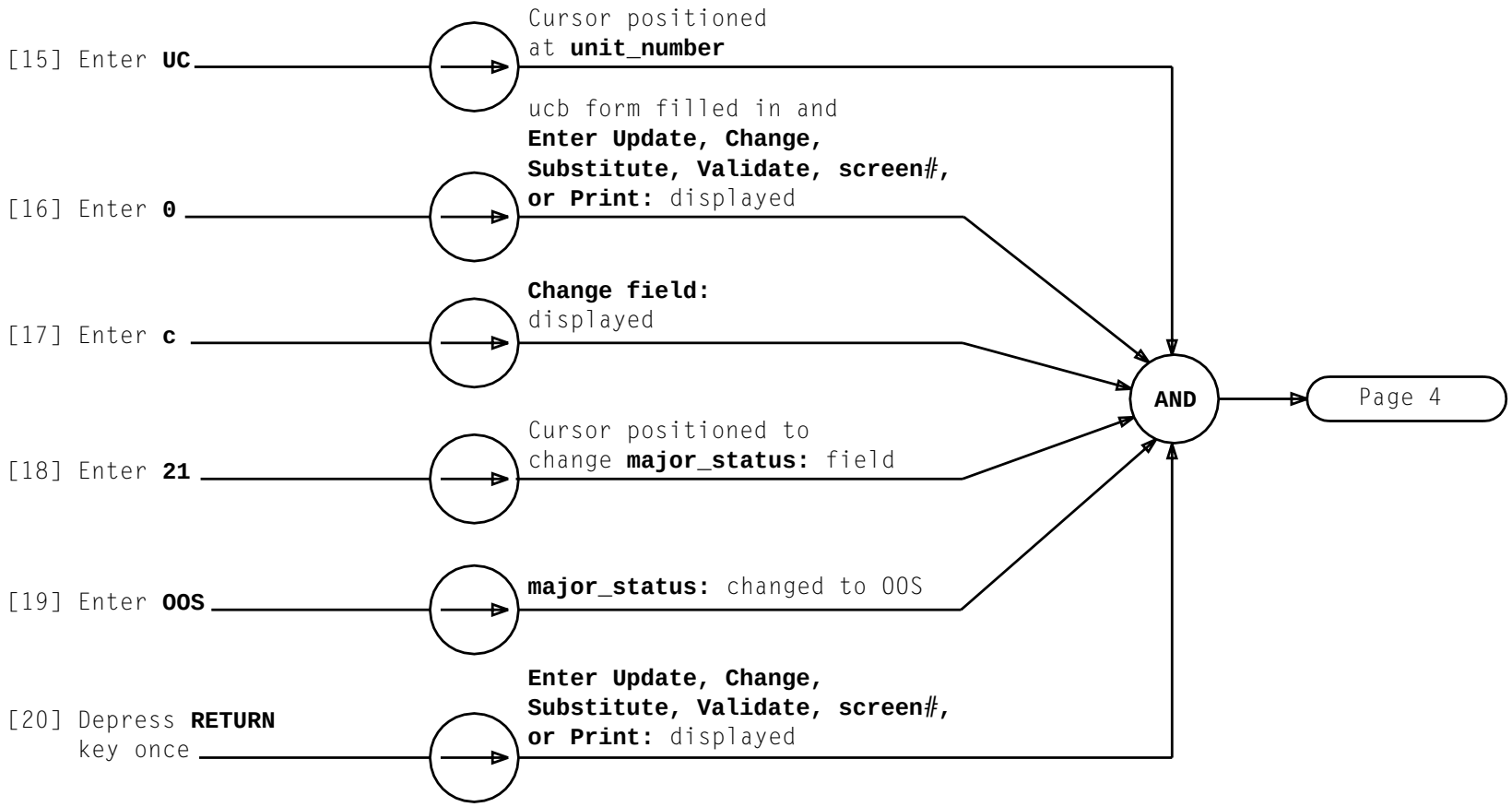
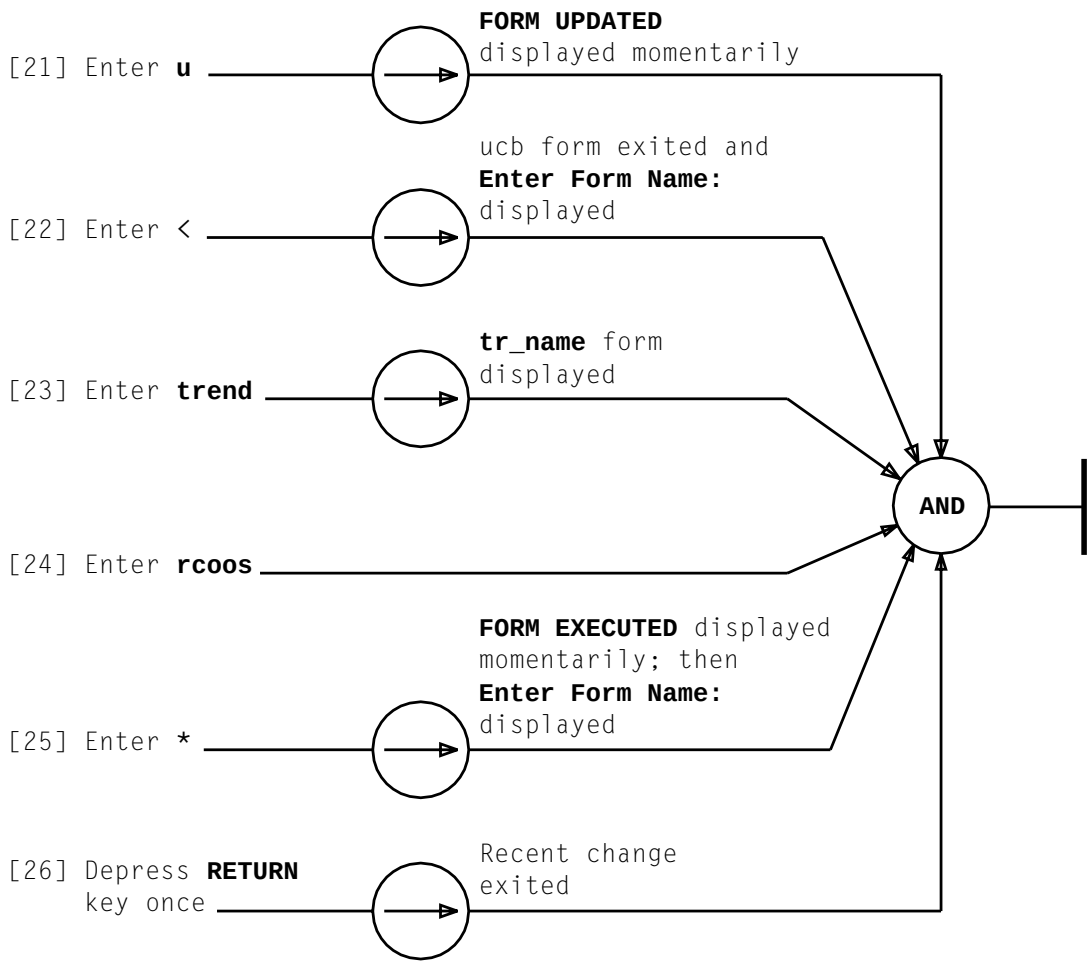


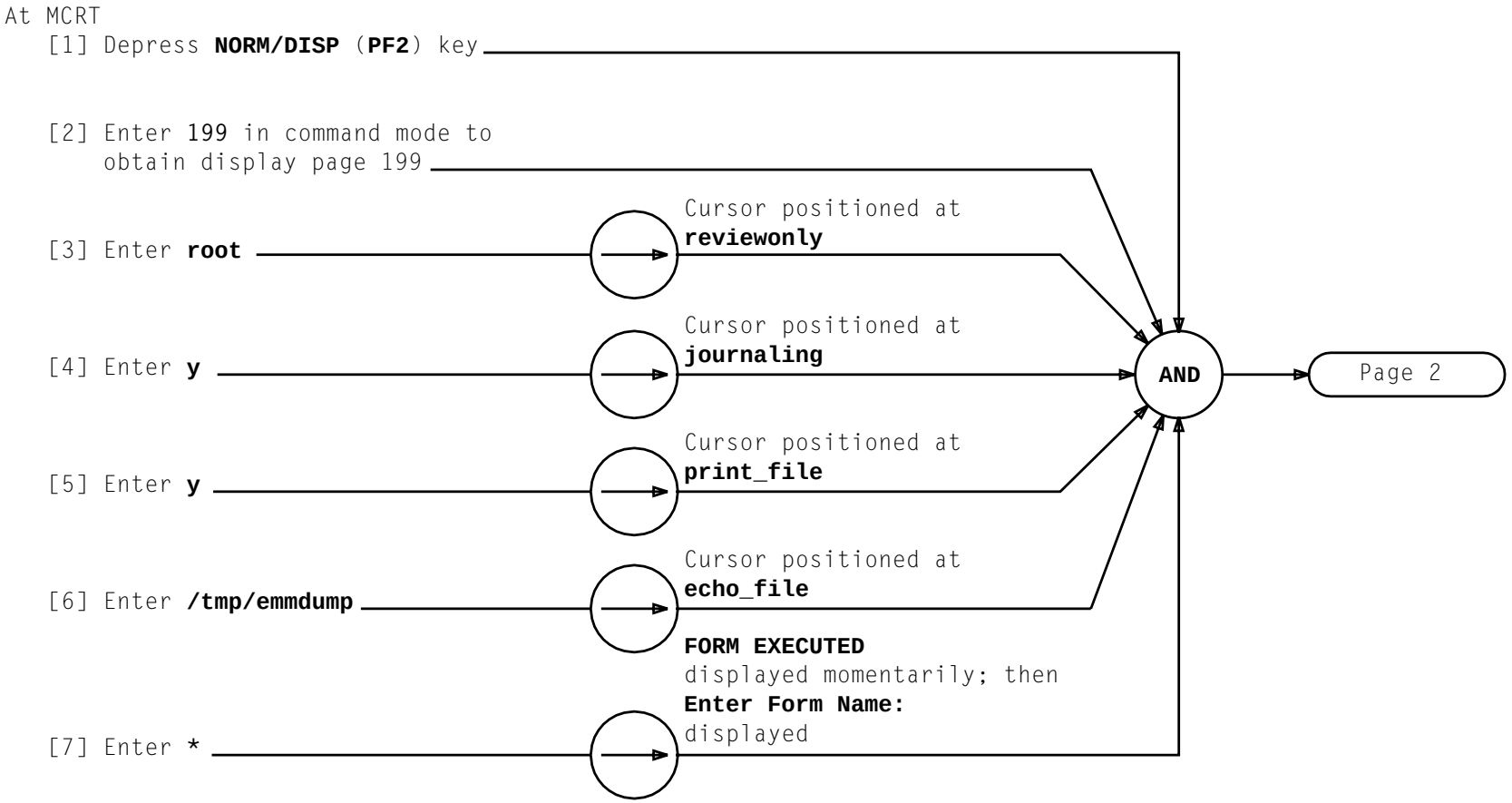
RECENT CHANGE UTILITY CIRCUIT FROM GROW TO OOS



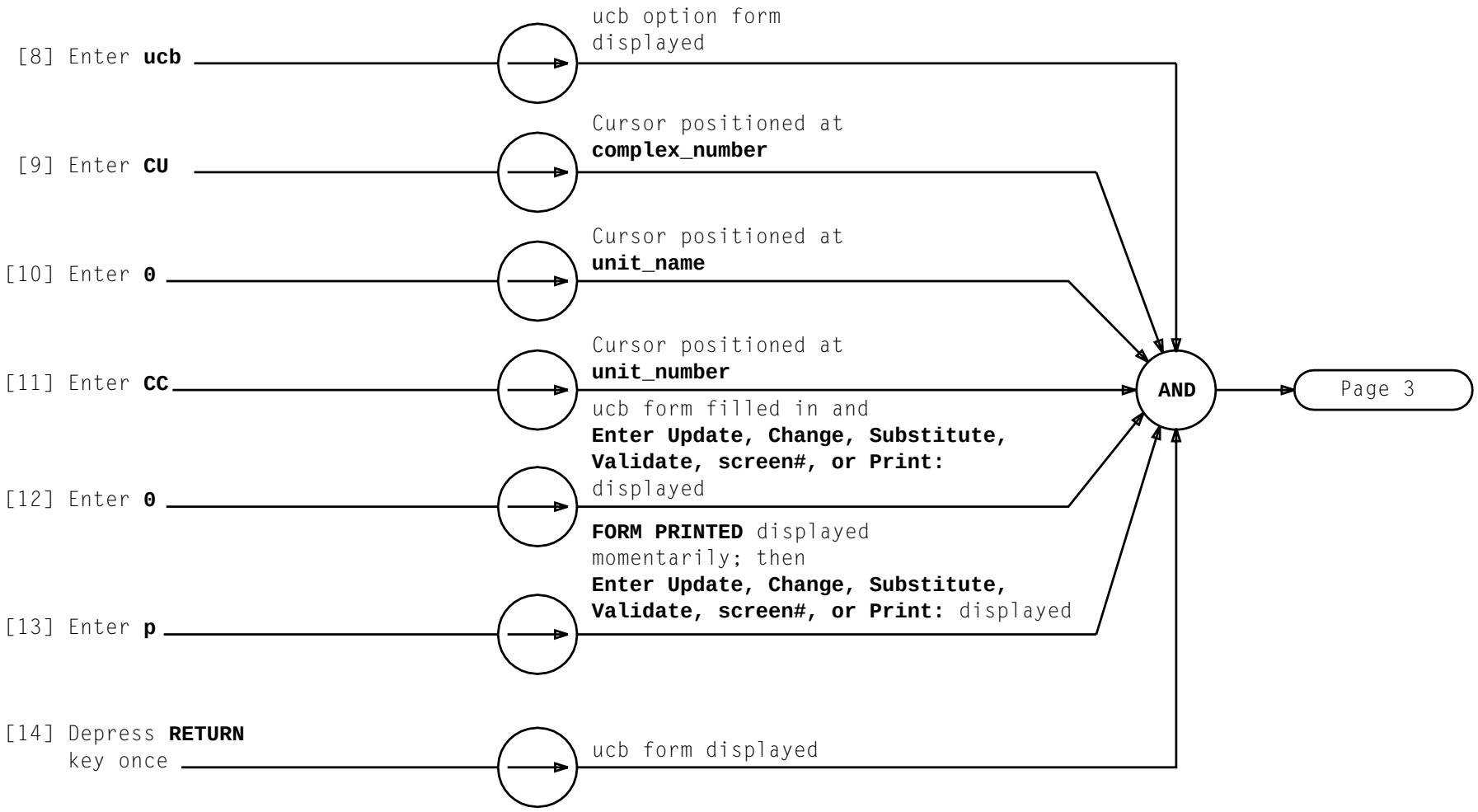
RECENT CHANGE UTILITY CIRCUIT FROM GROW TO OOS



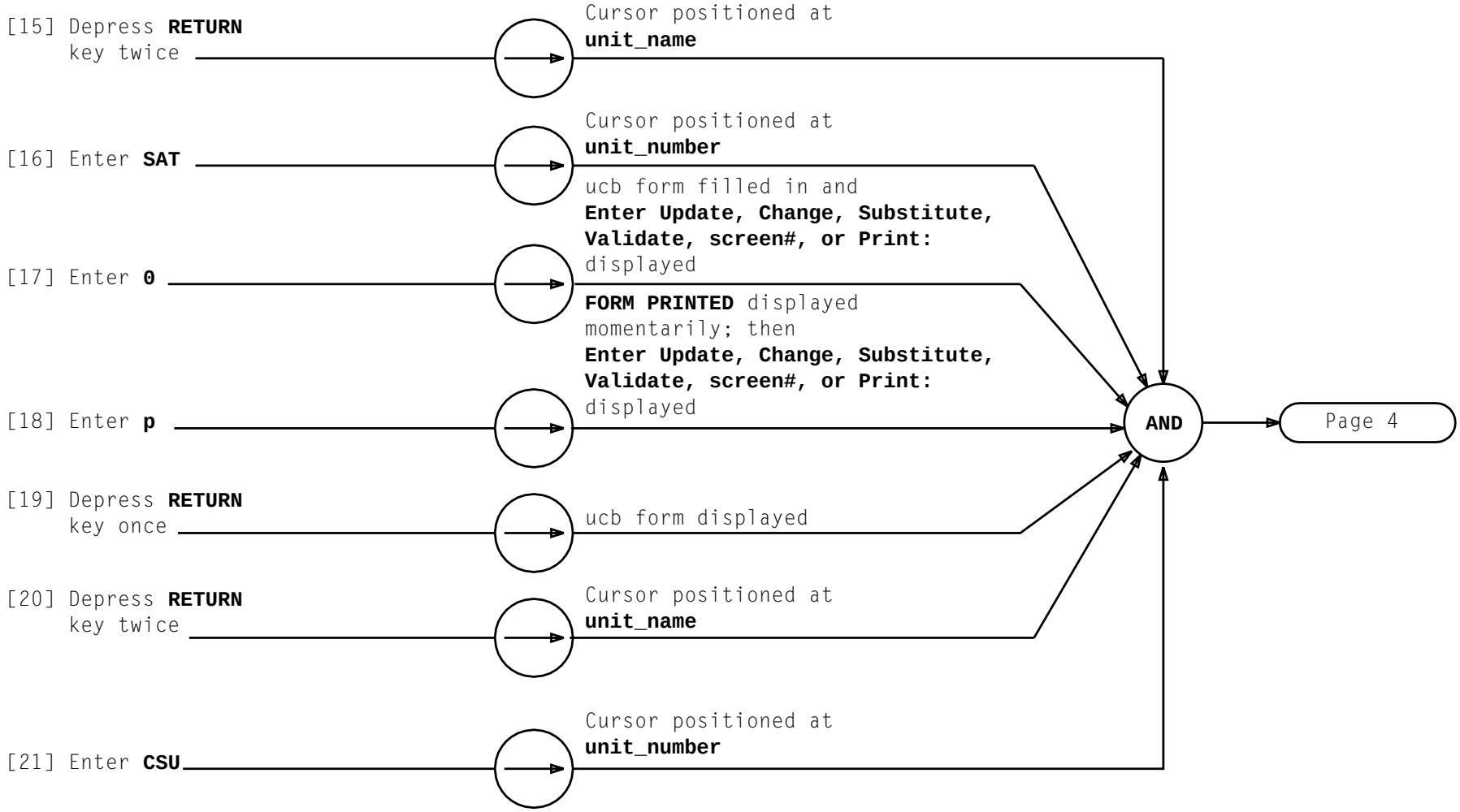
RECENT CHANGE UTILITY CIRCUIT FROM GROW TO OOS



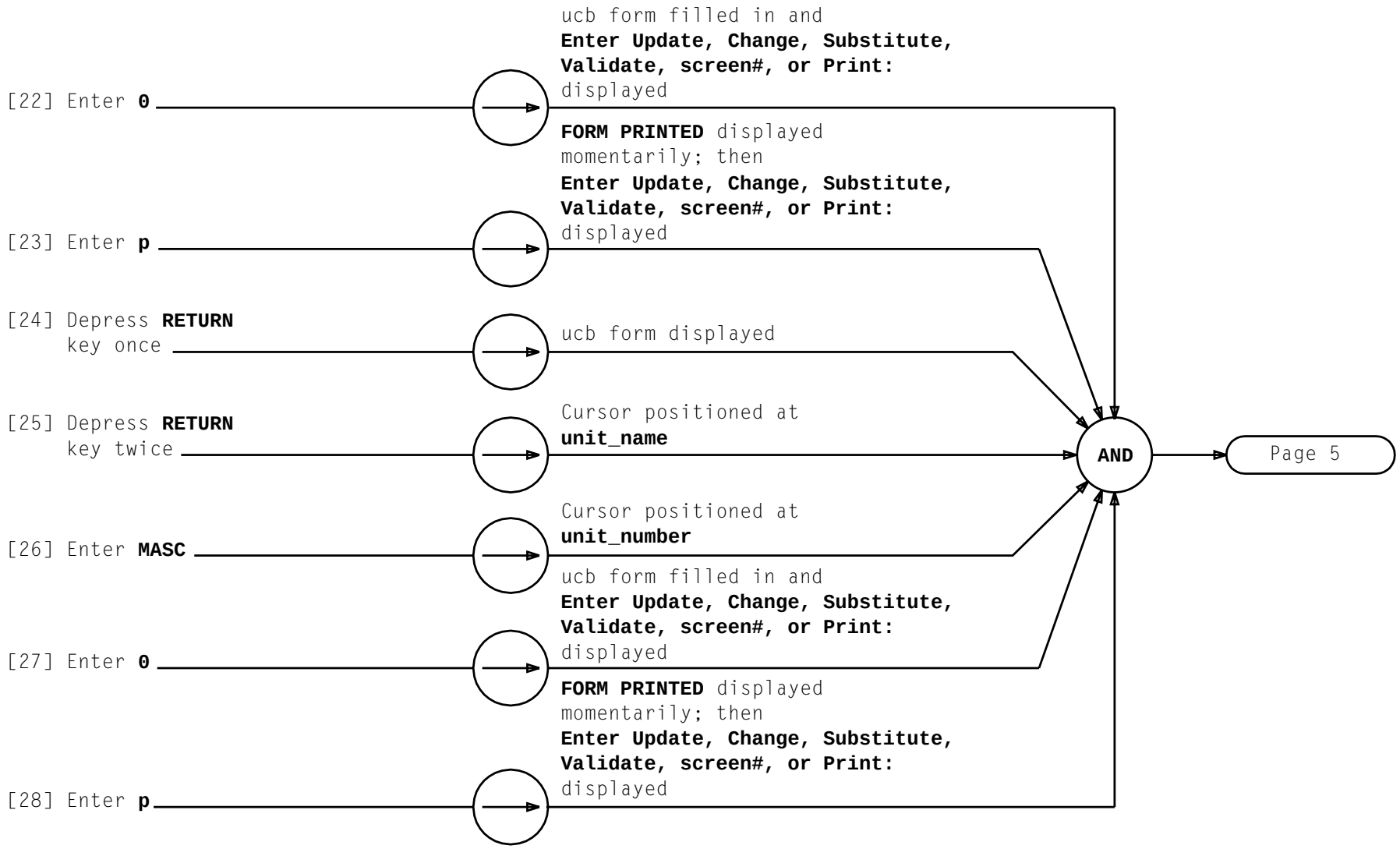
DUMP CONTENTS OF DISK DATA BASE AND VERIFY



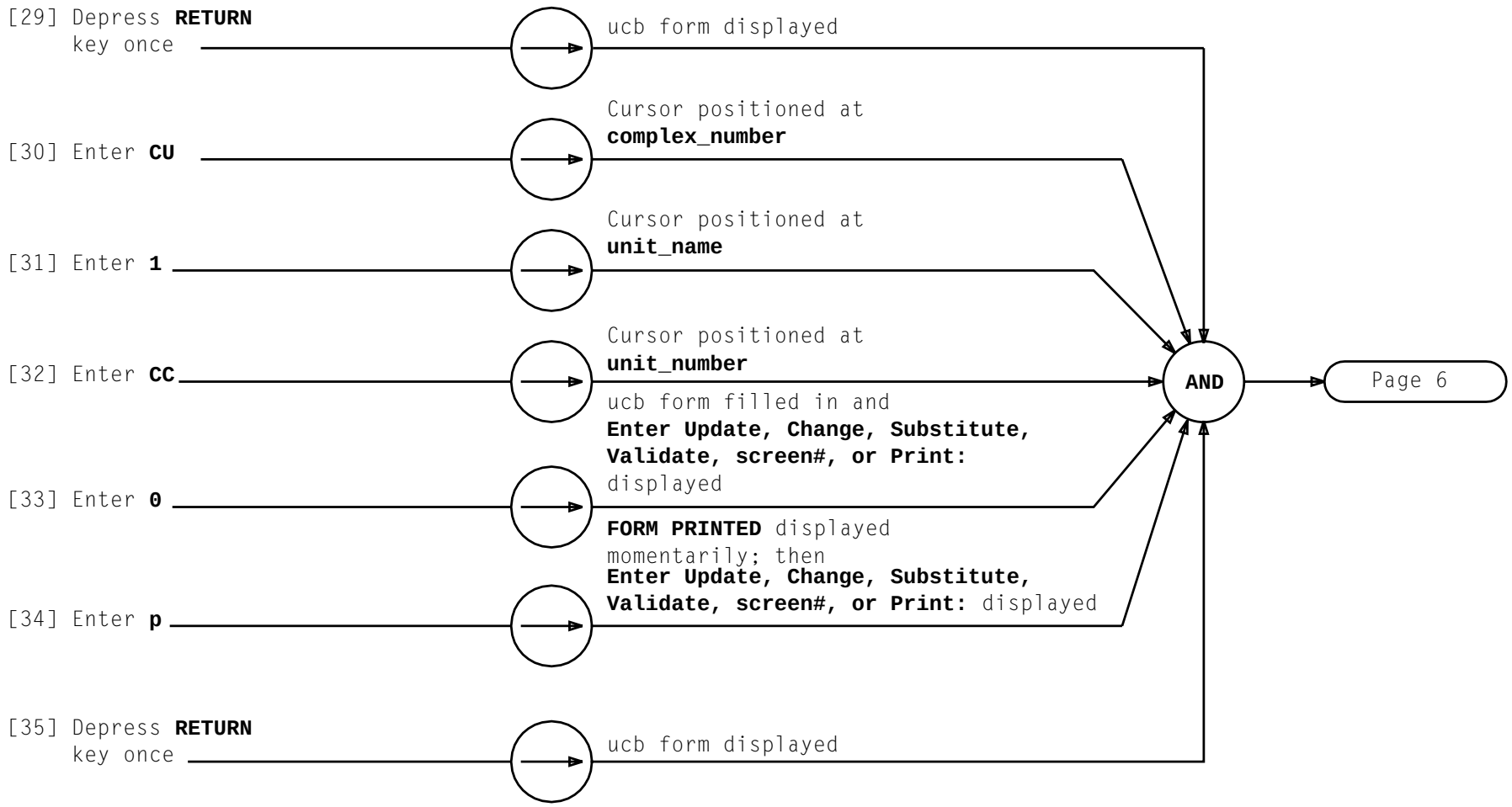
DUMP CONTENTS OF DISK DATA BASE AND VERIFY



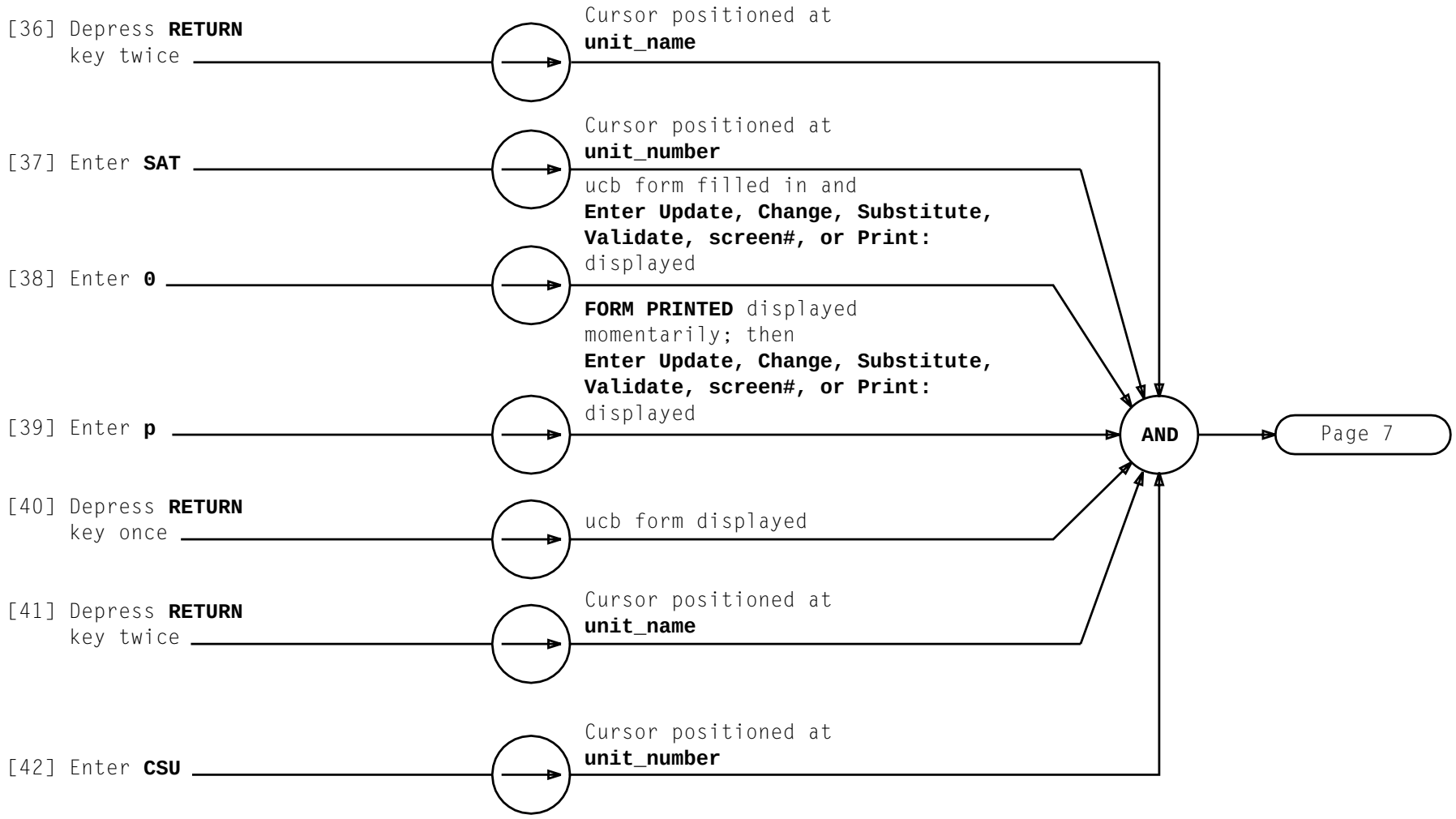
DUMP CONTENTS OF DISK DATA BASE AND VERIFY



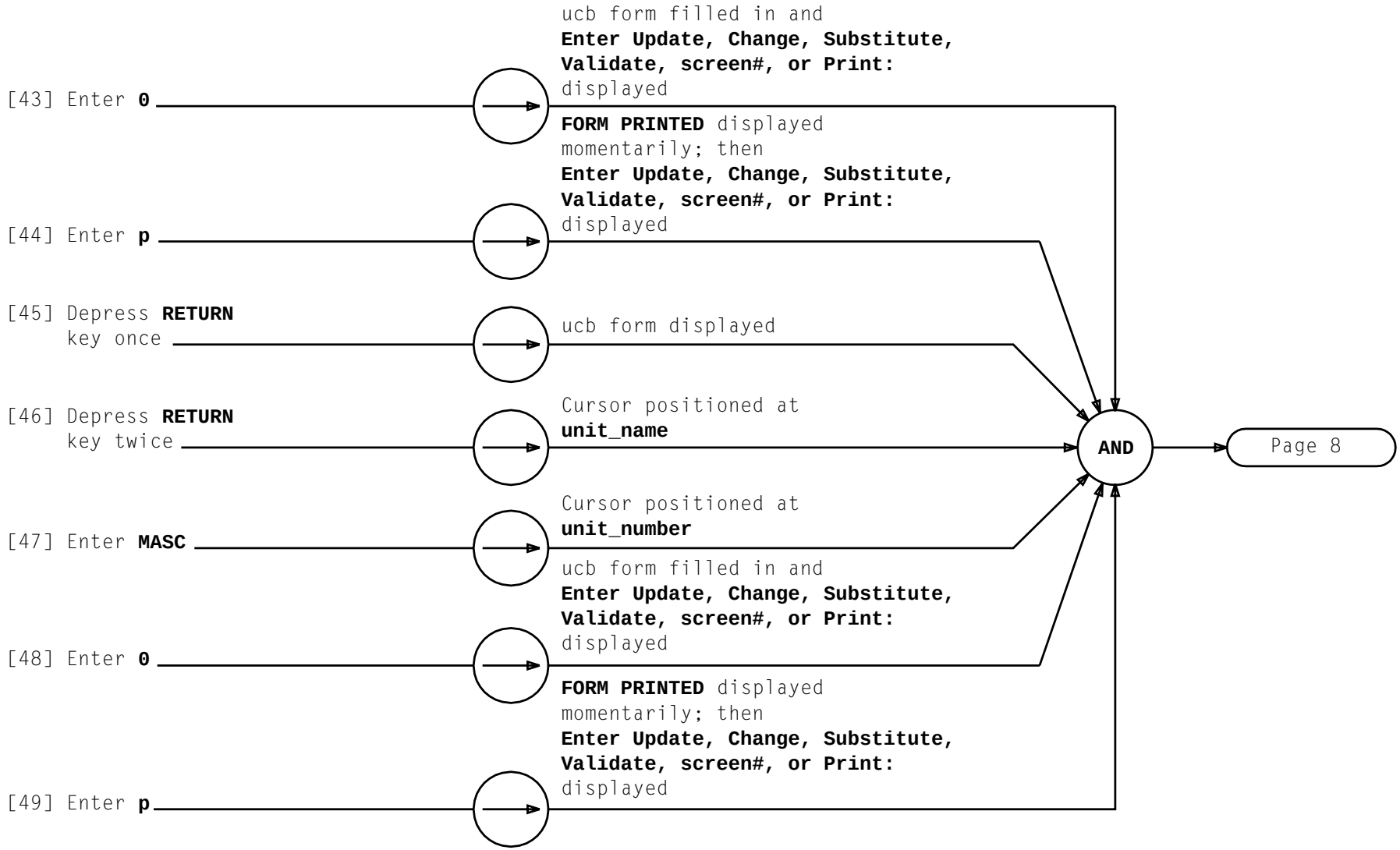
DUMP CONTENTS OF DISK DATA BASE AND VERIFY



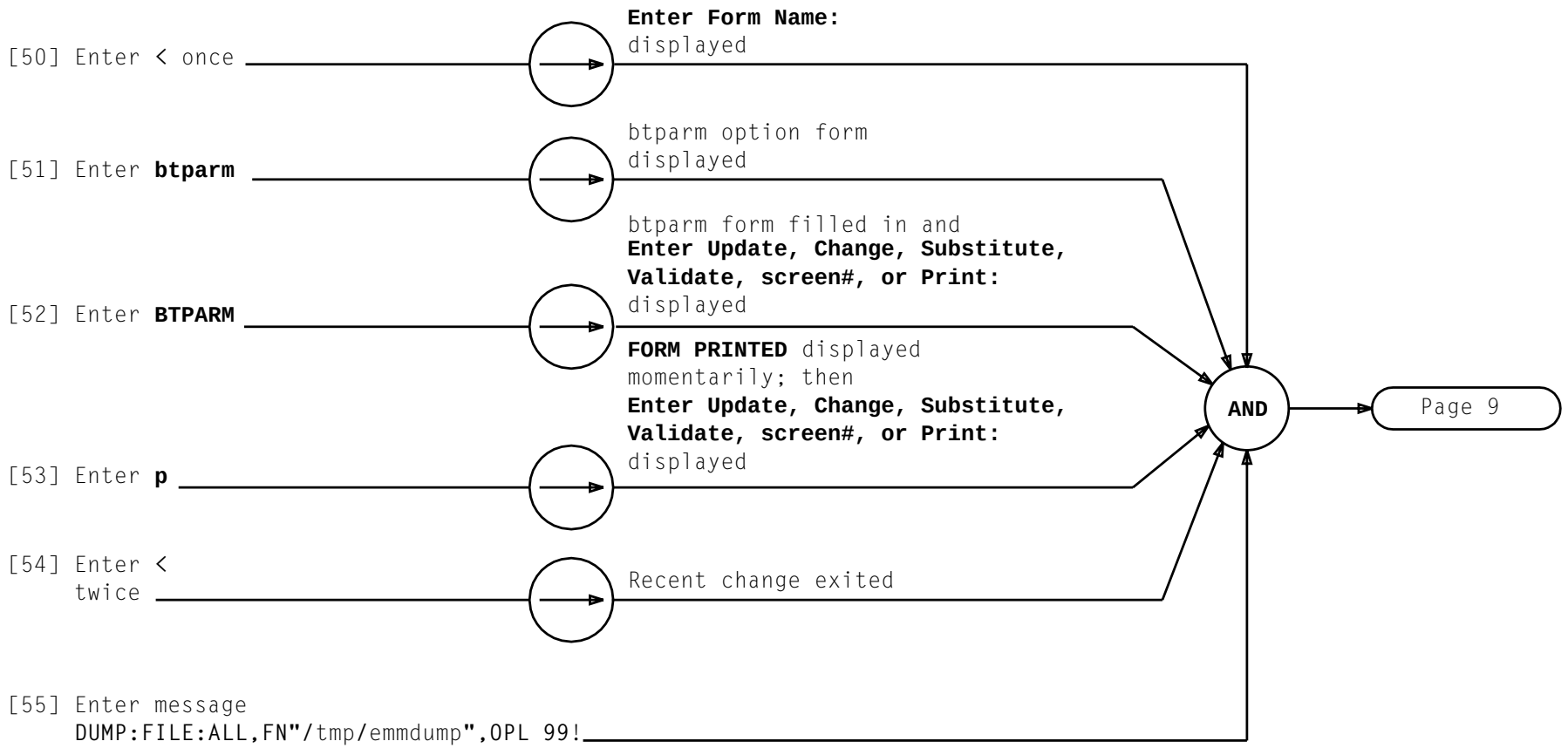
DUMP CONTENTS OF DISK DATA BASE AND VERIFY



DUMP CONTENTS OF DISK DATA BASE AND VERIFY



DUMP CONTENTS OF DISK DATA BASE AND VERIFY



DUMP CONTENTS OF DISK DATA BASE AND VERIFY

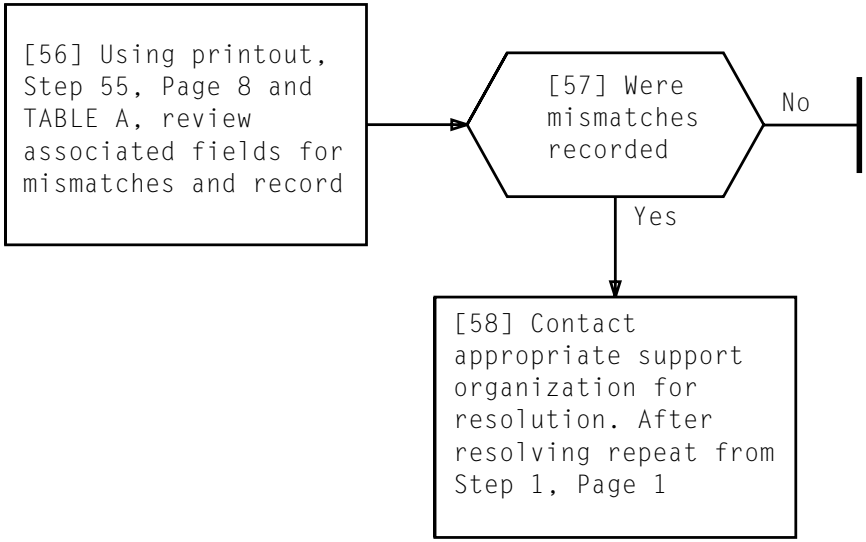


TABLE A

FIELD	VALUE
CU a CC 0 - Field 25	0x14
CU a SAT 0 - Field 25	0x10
CU a CSU 0 - Field 25	0x10
CU a MASC 0 - Field 22 - Field 25	0x7ff 0x10
btparm - Field 5 - Field 7	1456 11264
a = 0 or 1	

DUMP CONTENTS OF DISK DATA BASE AND VERIFY

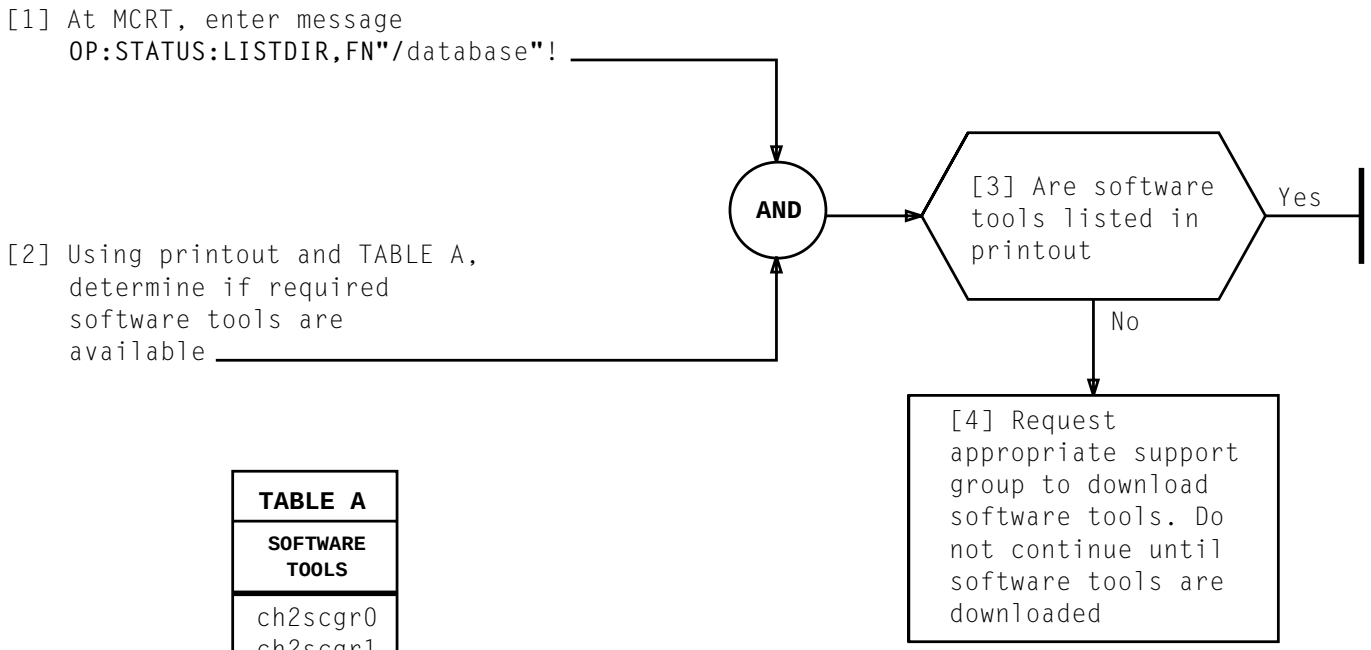


TABLE A
SOFTWARE TOOLS
ch2scgr0
ch2scgr1
ch2sdos0
ch2sdos1
ch2smos0
ch2smos1

VERIFY SOFTWARE TOOLS BWM IS APPLIED

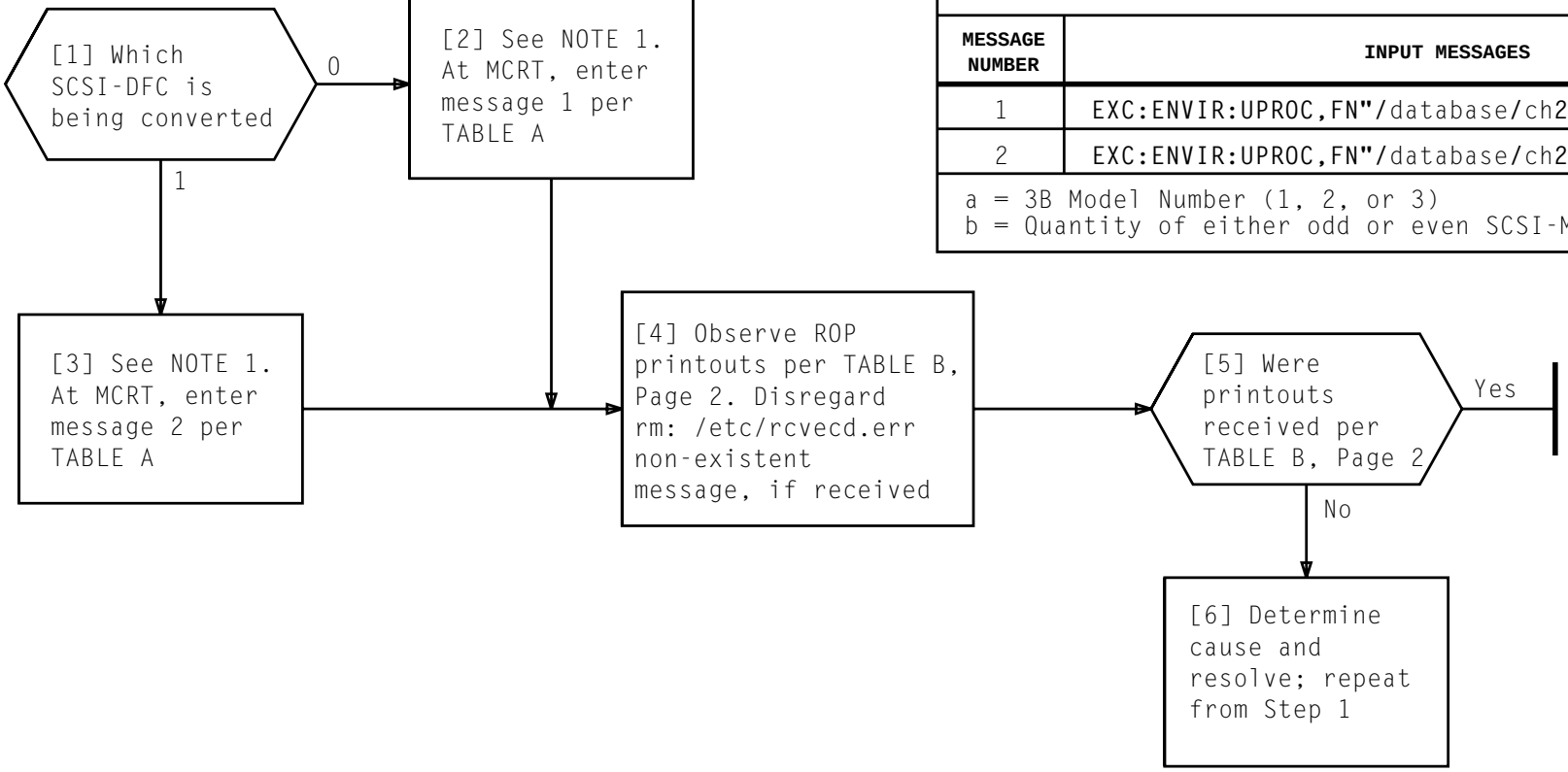


TABLE A

MESSAGE NUMBER	INPUT MESSAGES
1	EXC:ENVIR:UPROC,FN"/database/ch2scgr0",ARGS (a,b)!
2	EXC:ENVIR:UPROC,FN"/database/ch2scgr1",ARGS (a,b)!

a = 3B Model Number (1, 2, or 3)
b = Quantity of either odd or even SCSI-MHDs being equipped

NOTE 1
This procedure will take approximately 10 minutes

CHANGE UNITS TO GROW

TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	/database/ch2scgra: STARTING
2	/database/ch2scgra: EDITING DMCH TO UNPIN DMCH40 (Model 1 only)
3	/database/ch2scgra: APPLYING SCRIPT lnk4dfca or lk42dfca
4	REPT DEGROWTH b COMPLETED
5	Message 4 repeated for each unit associated with 340MB MHD DFC
6	REPT DKDRV INFO CODE X'265
7	REPT c IN GROWTH STATE
8	Message 7 repeated for DFC and SBUSs
9	/database/ch2scgra: RCVECD PASSED EXIT CODE 0
10	/database/ch2scgra: CHANGES MADE TO INCORE DATABASE ONLY
11	/database/ch2scgra: SCRIPT lnk4dfca or lk42dfca COMPLETED
12	/database/ch2scgra: APPLYING SCRIPT mhd4gra
13	REPT GROWTH c COMPLETED
14	Message 13 repeated for DFC and SBUSs
15	REPT MHD d IN GROWTH STATE
16	Message 15 repeated for each growth SCSI-MHD
17	/database/ch2scgr0: CHANGES MADE TO INCORE DATABASE ONLY
18	/database/ch2scgra: SCRIPT mhd4gra COMPLETED
19	REPT GROWTH MHD d COMPLETED
20	Message 19 repeated for each growth SCSI-MHD
21	/database/doactivate: STARTING
22	/database/doactivate: RCVECD PASSED EXIT CODE 0
(TABLE B Continued on Page 3)	

TABLE B (Contd)	
MESSAGE NUMBER	**OUTPUT MESSAGES**
23	/database/doactivate: COPIED INCORE ECD TO DISK
24	/database/doactivate: COMPLETED
25	/database/ch2scgra: APPLYING SCRIPT lnk4dfca.m
26	/database/ch2scgra: RCVECD PASSED EXIT CODE 0
27	/database/ch2scgra: CHANGES MADE TO MIN DATABASE ONLY
28	/database/ch2scgra: SCRIPT lnk4dfca.m COMPLETED
29	/database/ch2scgra: COMPLETED
30	EXC ENVIR UPROC /database/ch2scgra COMPLETED
a = 0 or 1 b = DFC or unit associated with DFC c = SCSI-DFC or SBUS member numbers d = SCSI-MHD member numbers	

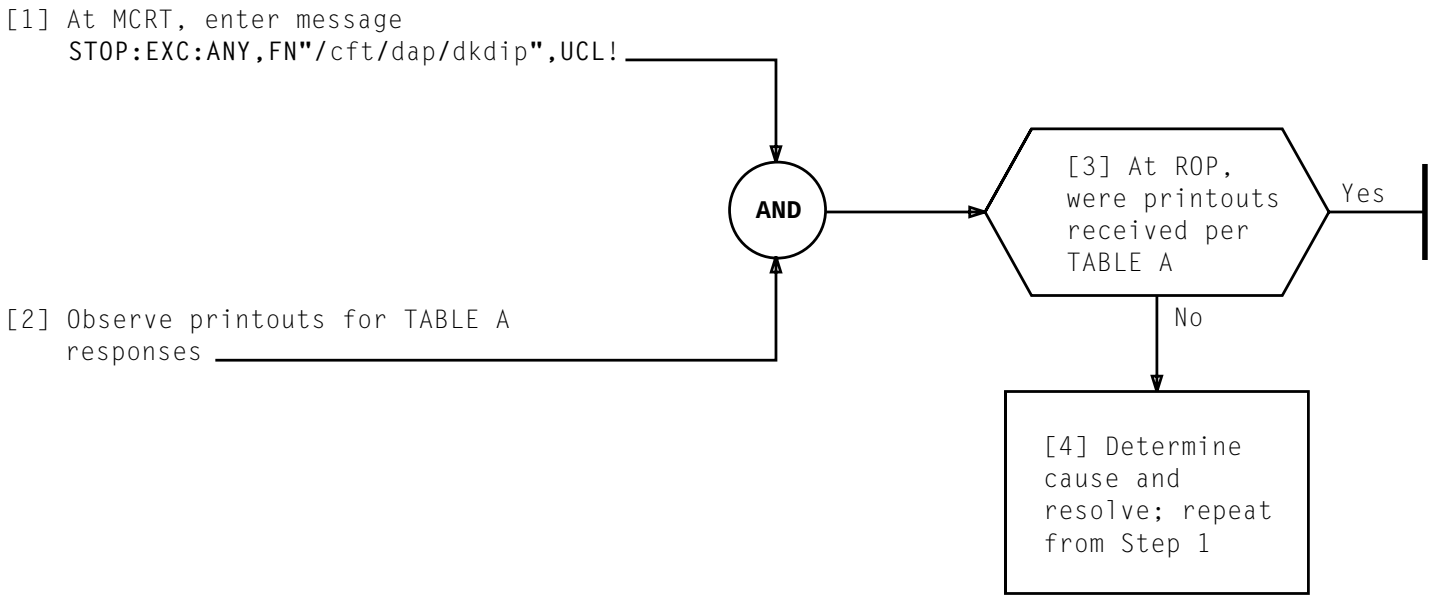


TABLE A	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	REPT ULARP ATTEMPTING TO RESTART DKDIP xxx
2	STOP EXEC ANY COMPLETED

CHANGE DISPLAY PAGE 120

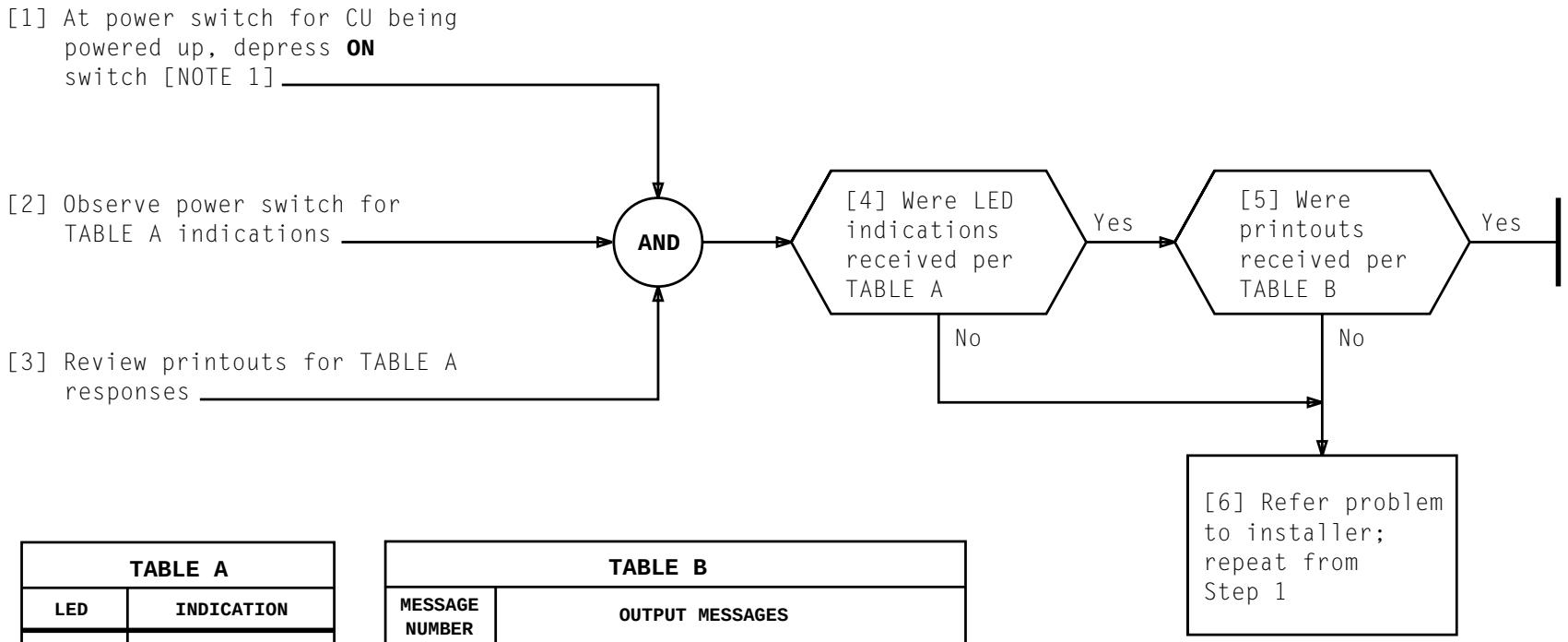


TABLE A	
LED	**INDICATION**
OFF	Off
ROS	On
RQIP	On then Off
OOS	On

TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	REPT POWER RESTORED CU a
2	RMV CU a TASK x MESSAGE STARTED
3	RMV CU a COMPLETED

NOTE 1
ROS/RST switch must be left in **ROS** position

POWER UP CU

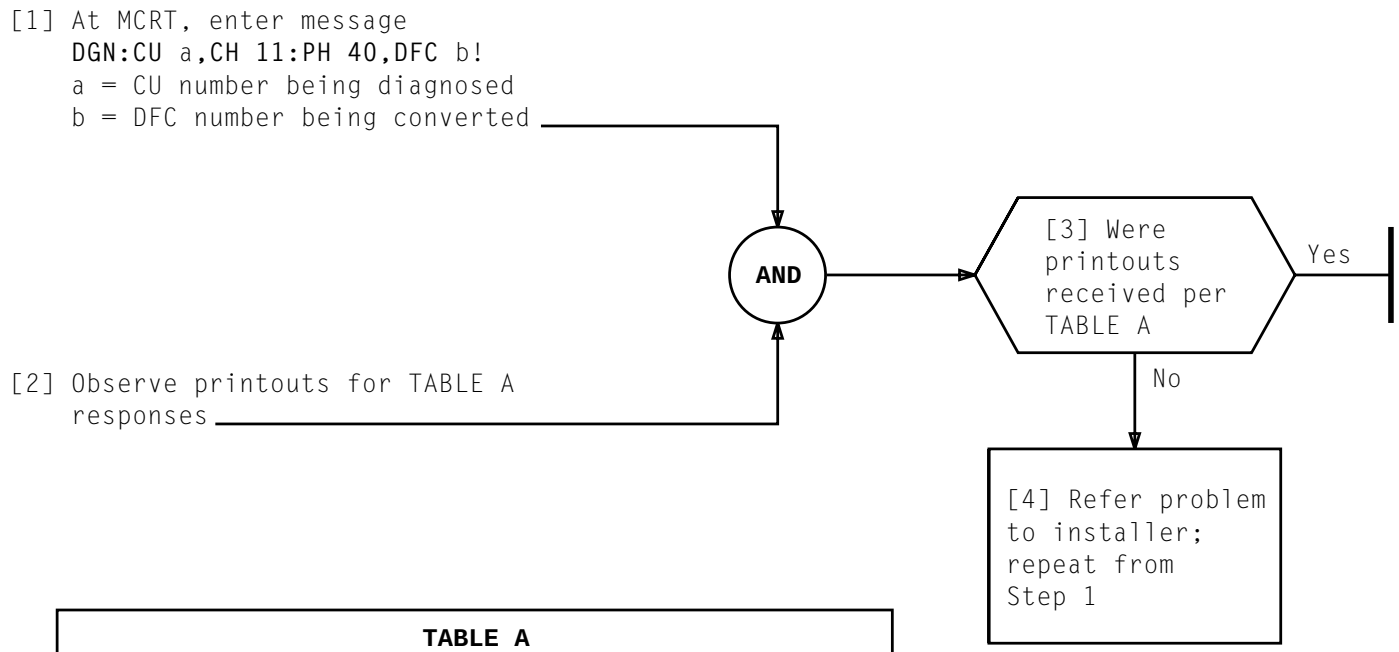


TABLE A	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	DGN CU a CH 11 TASK x MESSAGE STARTED
2	RMV CU a COMPLETED
3	DGN CU a CH 11 PH 40 ATP MSG IN PROGRESS
4	DGN CU a CH 11 COMPLETED ATP MSG IN PROGRESS
5	DGN CU a CH 11 ATP MESSAGE COMPLETE
a = CU number being diagnosed	

DIAGNOSE CU DSCH 11 WITH DEMAND PHASE 40 USING DFC AS HELPER

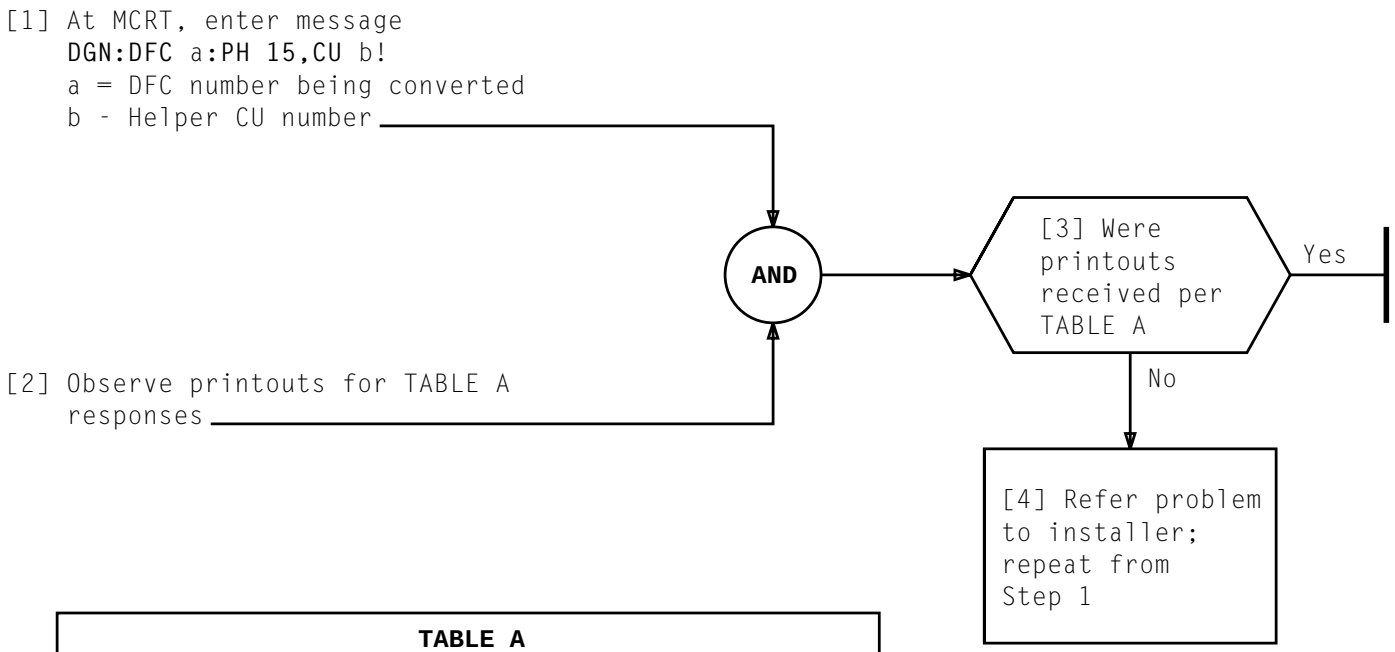


TABLE A	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	DGN DFC a TASK x MESSAGE STARTED
2	RMV DFC a STOPPED X'9
3	DGN DFC a PH 15 ATP MESSAGE IN PROGRESS
4	DGN DFC a COMPLETED ATP MESSAGE IN PROGRESS
5	DGN DFC a ATP MESSAGE COMPLETE
a = DFC number being diagnosed	

DIAGNOSE DFC WITH DEMAND PHASE 15 USING CU AS HELPER

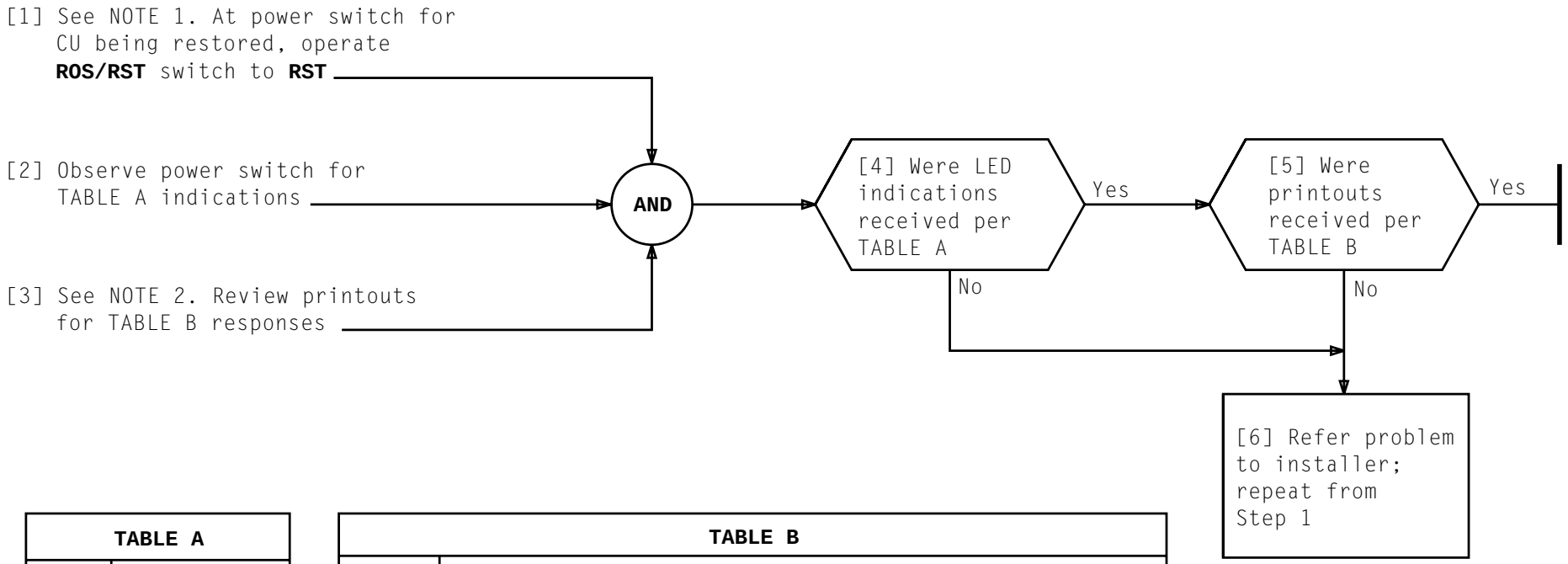


TABLE A	
LED	**INDICATION**
ROS	Off
RQIP	On then Off
OOS	Off

TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	RST CU a TASK x MESSAGE STARTED
2	RMV CU a COMPLETED
3	DGN CU a b COMPLETED ATP MESSAGE IN PROGRESS
4	Message 3 repeated for each unit associated with CU
5	DGN CU a CH xx COMPLETED CATP (zz,zz) MSG IN PROGRESS
6	RST CU a IN PROGRESS
7	RST CU a COMPLETED

NOTES
1. This procedure will take approximately 15 minutes
2. Four PRMs will be received for CU CC. One PRM will indicate Fs

RESTORE CU TO SERVICE USING POWER SWITCH

[1] At MCRT, enter message
DGN:DFC a;RAW!
a = DFC number being
diagnosed

[2] See NOTE 1. Observe printouts
for TABLE A responses

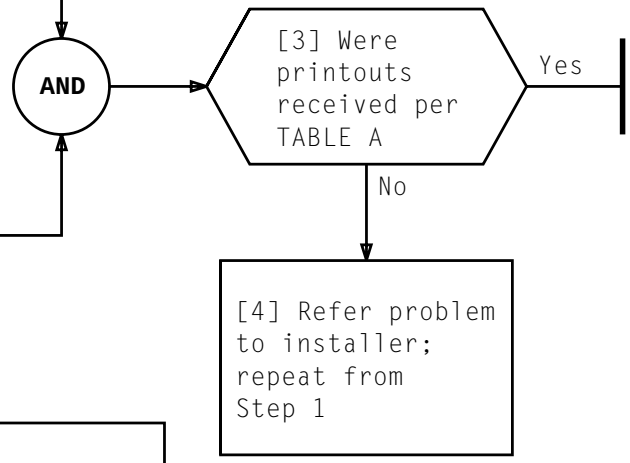


TABLE A	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	DGN DFC a TASK x MESSAGE STARTED
2	RMV DFC a STOPPED X'9
3	Output messages indicating status of phases 1 through 13
4*	DGN DFC a CATP (xx,xx) MSG IN PROGRESS
5*	DGN DFC a CATP (xx,xx) MSG COMPLETE
6*	DGN DFC a COMPLETED ATP MESSAGE IN PROGRESS
7*	DGN DFC a ATP MESSAGE COMPLETE

* CATP received when SCSI-MHDs are powered down and ATP received when SCSI-MHDs are powered up

NOTE 1
Disregard Phase 13 errors, if received

DIAGNOSE DFC

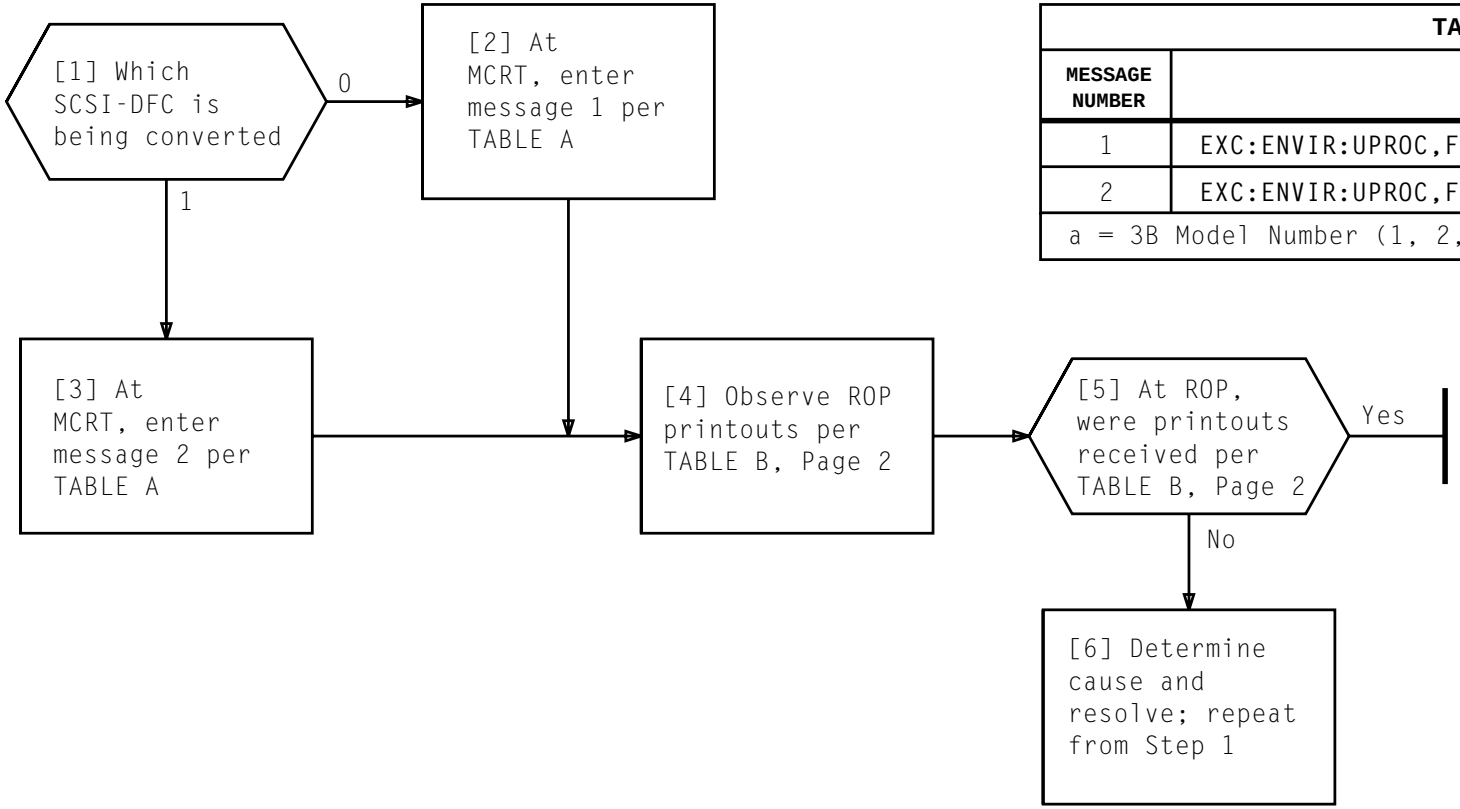


TABLE A

MESSAGE NUMBER	INPUT MESSAGES
1	EXC:ENVIR:UPROC,FN"/database/ch2sdos0",ARGS a!
2	EXC:ENVIR:UPROC,FN"/database/ch2sdos1",ARGS a!

a = 3B Model Number (1, 2, or 3)

CHANGE SCSI-DFC TO OOS

TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	/database/ch2sdosa: STARTING
2	/database/ch2sdosa: EDITING DMCH TO PIN OUT DMCH4O (Model 1 only)
3	/database/ch2sdosa: APPLYING SCRIPT oossdfca
4	REPT DFC a OUT OF SERVICE
5	REPT SBUS a OUT OF SERVICE
6	REPT SBUS b OUT OF SERVICE
7	/database/ch2sdosa: RCVECD PASSED EXIT CODE 0
8	/database/ch2sdosa: CHANGES MADE TO INCORE DATABASE ONLY
9	/database/ch2sdosa: SCRIPT oossdfca COMPLETED
10	/database/doactivate: STARTING
11	/database/doactivate: RCVECD PASSED EXIT CODE 0
12	/database/doactivate: COPIED INCORE ECD TO DISK
13	/database/doactivate: COMPLETED
14	/database/ch2sdosa: COMPLETED
15	EXC ENVIR UPROC /database/ch2sdosa COMPLETED
a = DFC number b = 2 or 3	

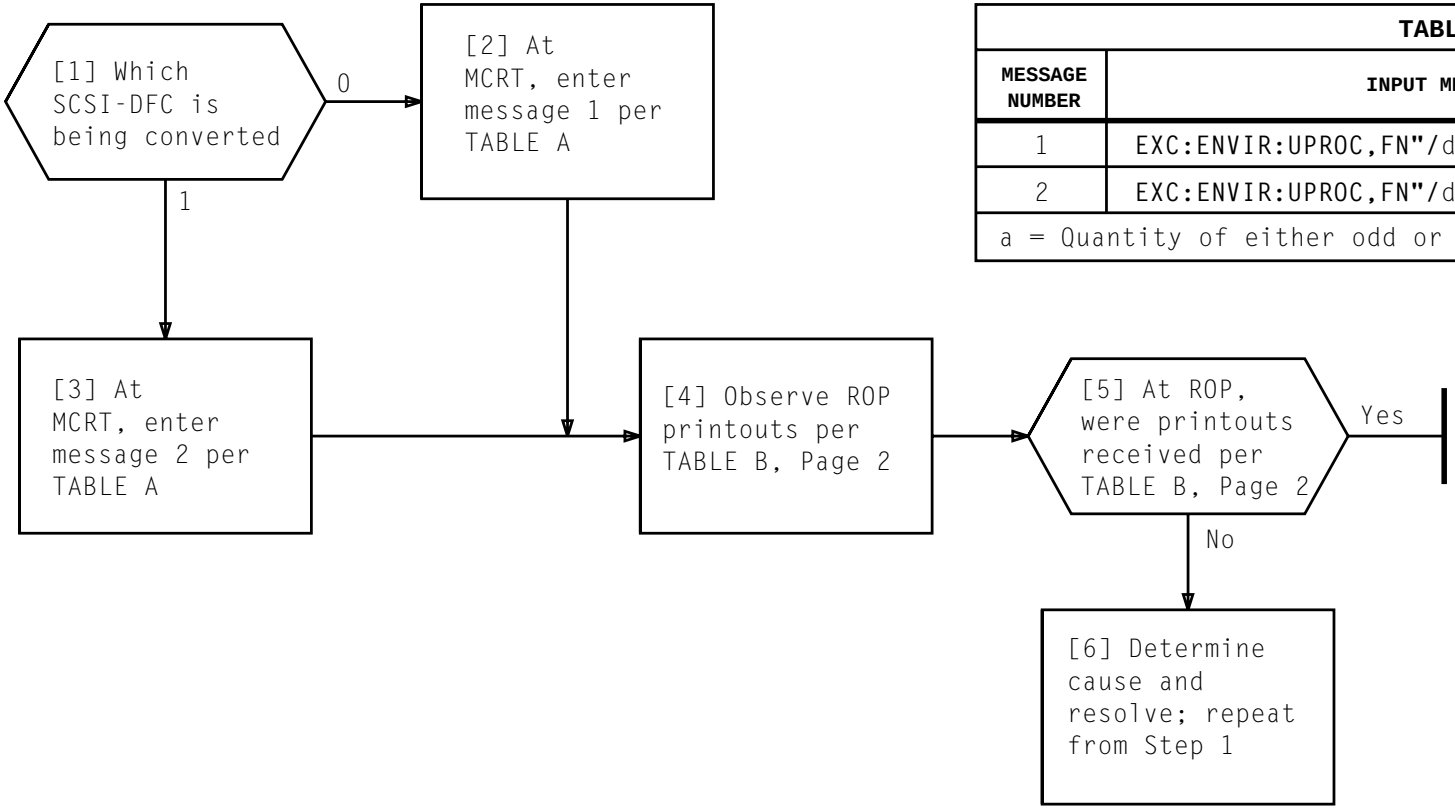


TABLE A

MESSAGE NUMBER	INPUT MESSAGES
1	EXC:ENVIR:UPROC,FN"/database/ch2smos0",ARGS a!
2	EXC:ENVIR:UPROC,FN"/database/ch2smos1",ARGS a!

a = Quantity of either odd or even SCSI-MHDs being equipped

CHANGE SCSI-MHDs TO OOS

TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	/database/ch2smosa: STARTING
2	/database/ch2smosa: APPLYING SCRIPT os4smhda
3	REPT MHD b OUT OF SERVICE
4	Message 3 repeated for each growth SCSI-MHD
5	/database/ch2smosa: RCVECD PASSED EXIT CODE 0
6	/database/ch2smosa: CHANGES MADE TO INCORE DATABASE ONLY
7	/database/ch2smosa: SCRIPT os4smhda COMPLETED
8	/database/doactivate: STARTING
9	/database/doactivate: RCVECD PASSED EXIT CODE 0
10	/database/doactivate: COPIED INCORE ECD TO DISK
11	/database/doactivate: COMPLETED
12	/database/ch2smosa: COMPLETED
13	EXC ENVIR UPROC /database/ch2smosa COMPLETED
a = 0 or 1 b = Growth SCSI-MHD member number	

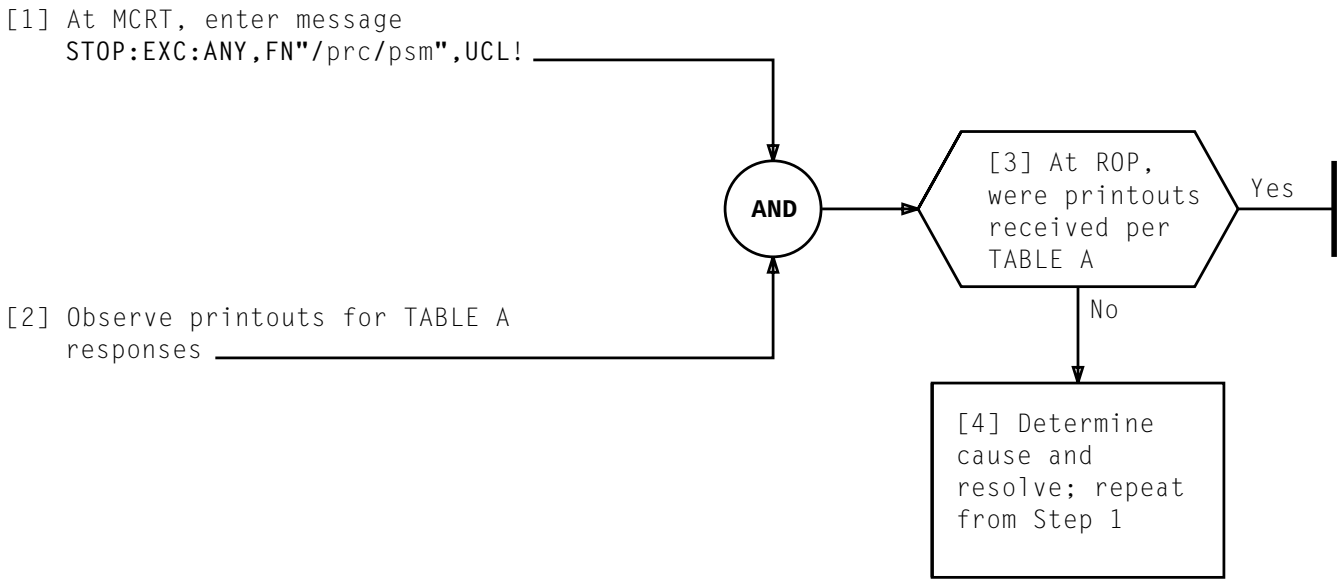


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGES
1	REPT ULARP ATTEMPTING TO RESTART PSM xxx
2	STOP EXEC ANY COMPLETED
3	REPT SCSDA ERR CODE X'52 PID xx

READ NEW SCSI CONTROLLER ECD INFORMATION

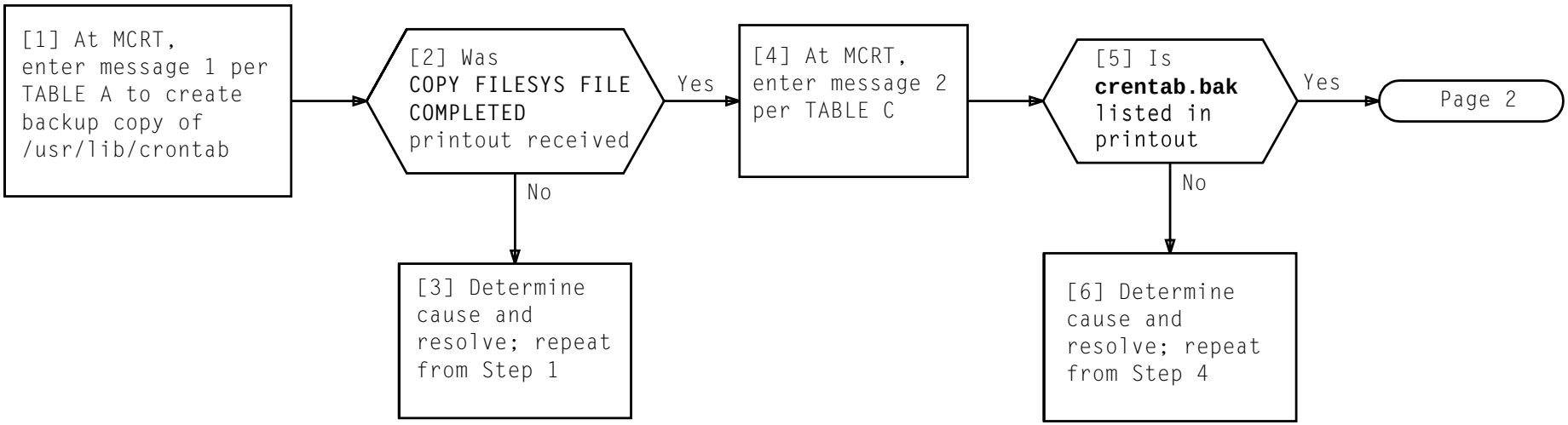


TABLE A

MESSAGE NUMBER	INPUT MESSAGES
1	COPY:FILESYS:FILE,SRC "/usr/lib/crontab",DEST "/usr/lib/crontab.bak"!

STOP SCSI DISK SCHEDULES IN CRONTAB

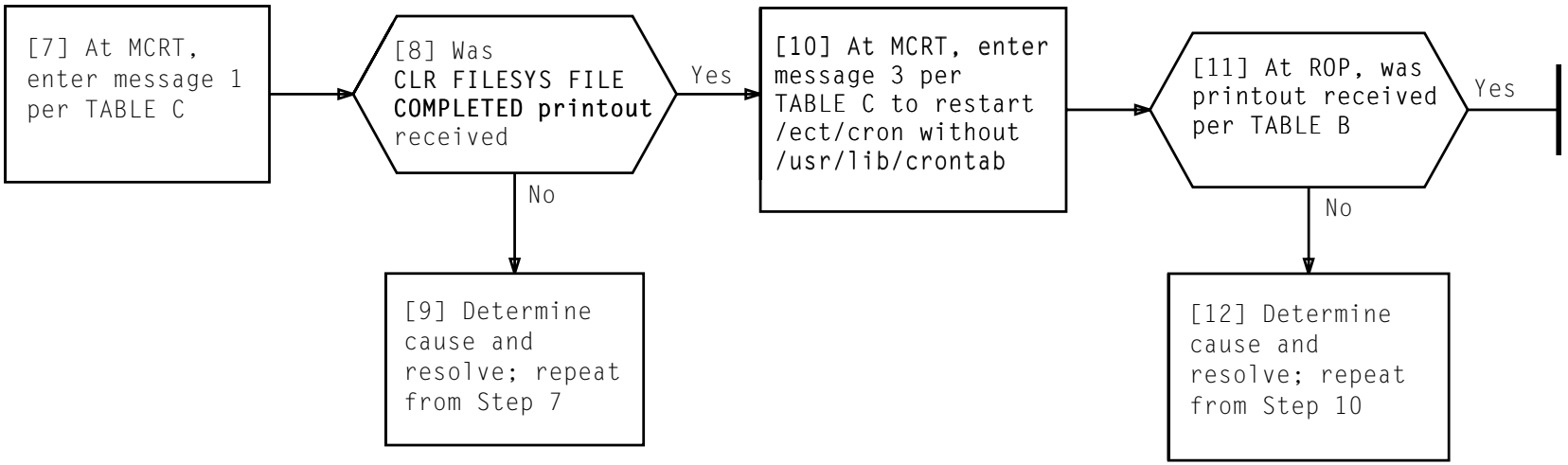


TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	REPT ULARP ATTEMPTING TO RESTART CRON xxxx STOP EXC ANY COMPLETED
xxxx = PID number	

TABLE C	
MESSAGE NUMBER	**INPUT MESSAGE**
1	CLR:FILESYS:FILE,FN"/usr/lib/crontab"!
2	OP:STATUS:LISTDIR,FN"/usr/lib"!
3	STOP:EXC:ANY,FN"/etc/cron",UCL!

STOP SCSI DISK SCHEDULES IN CRONTAB

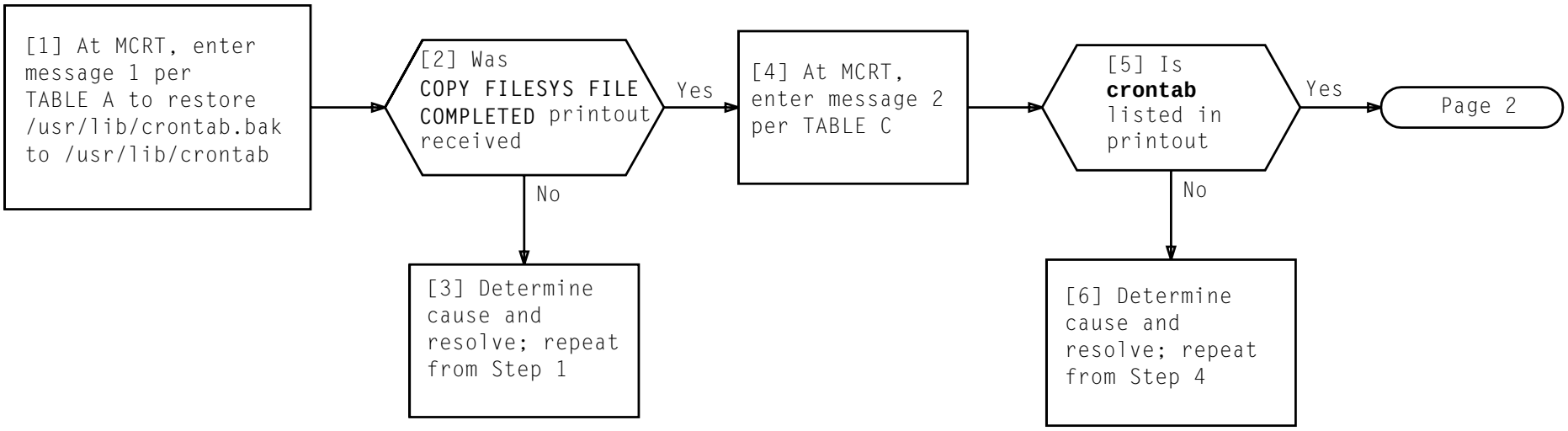


TABLE A

MESSAGE NUMBER	INPUT MESSAGES
1	COPY:FILESYS:FILE,SRC"/usr/lib/crontab.bak",DEST"/usr/lib/crontab"!

START SCSI DISK SCHEDULES IN CRONTAB

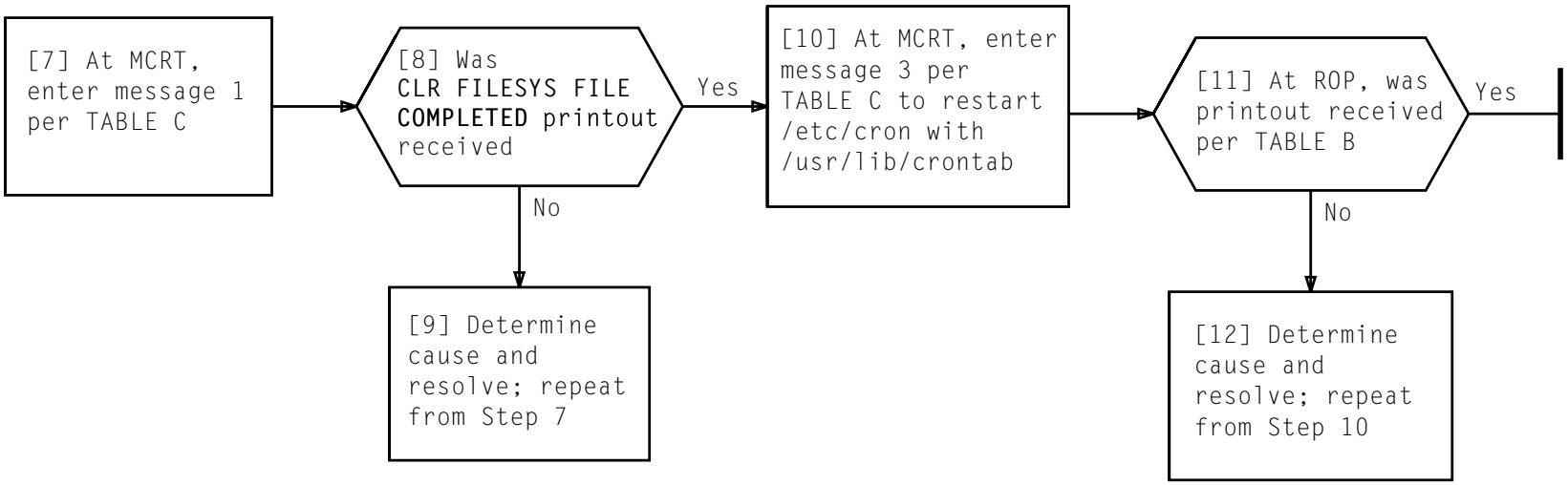


TABLE B

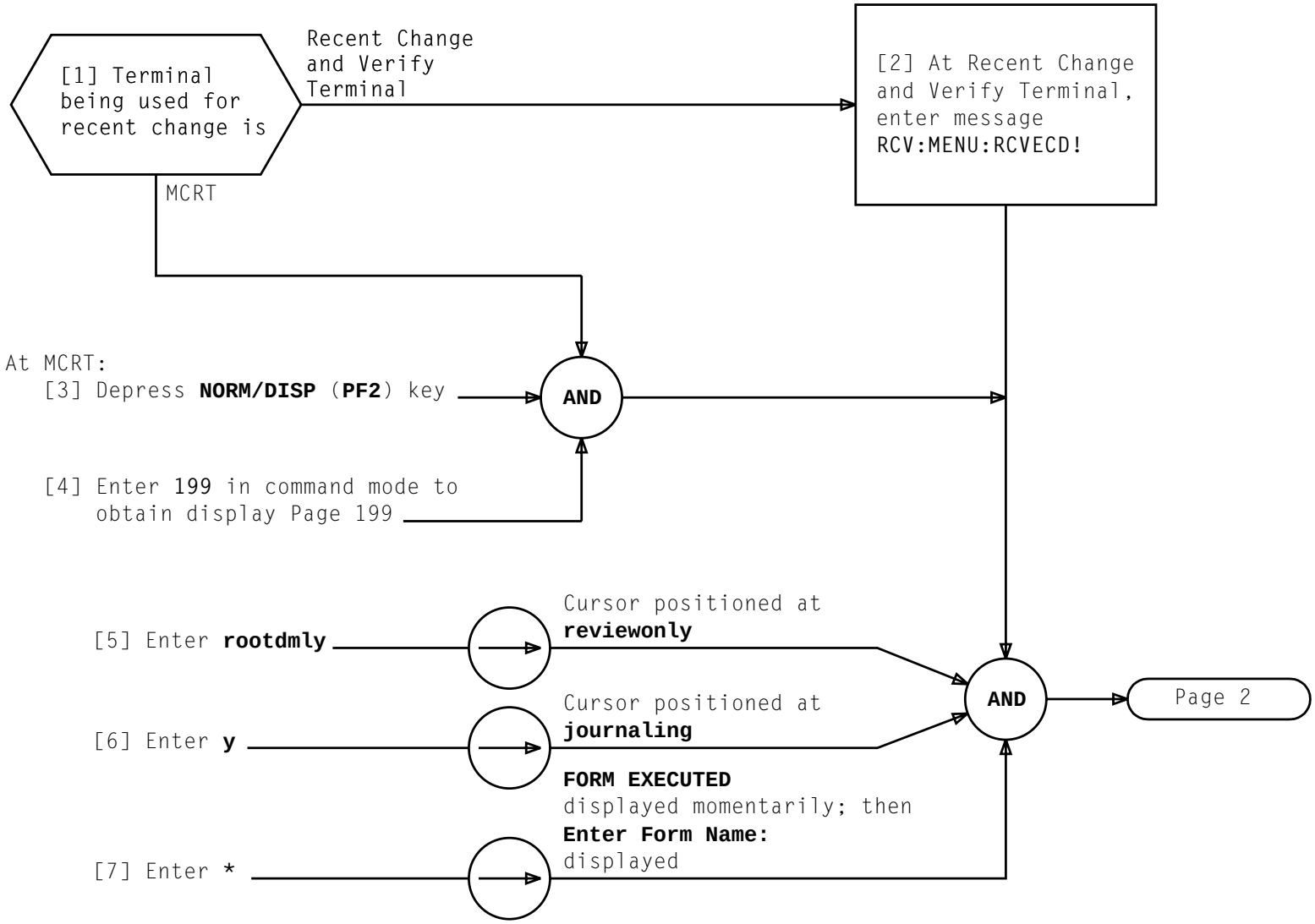
MESSAGE NUMBER	OUTPUT MESSAGES
1	REPT ULARP ATTEMPTING TO RESTART CRON xxxx STOP EXC ANY COMPLETED

xxxx = PID number

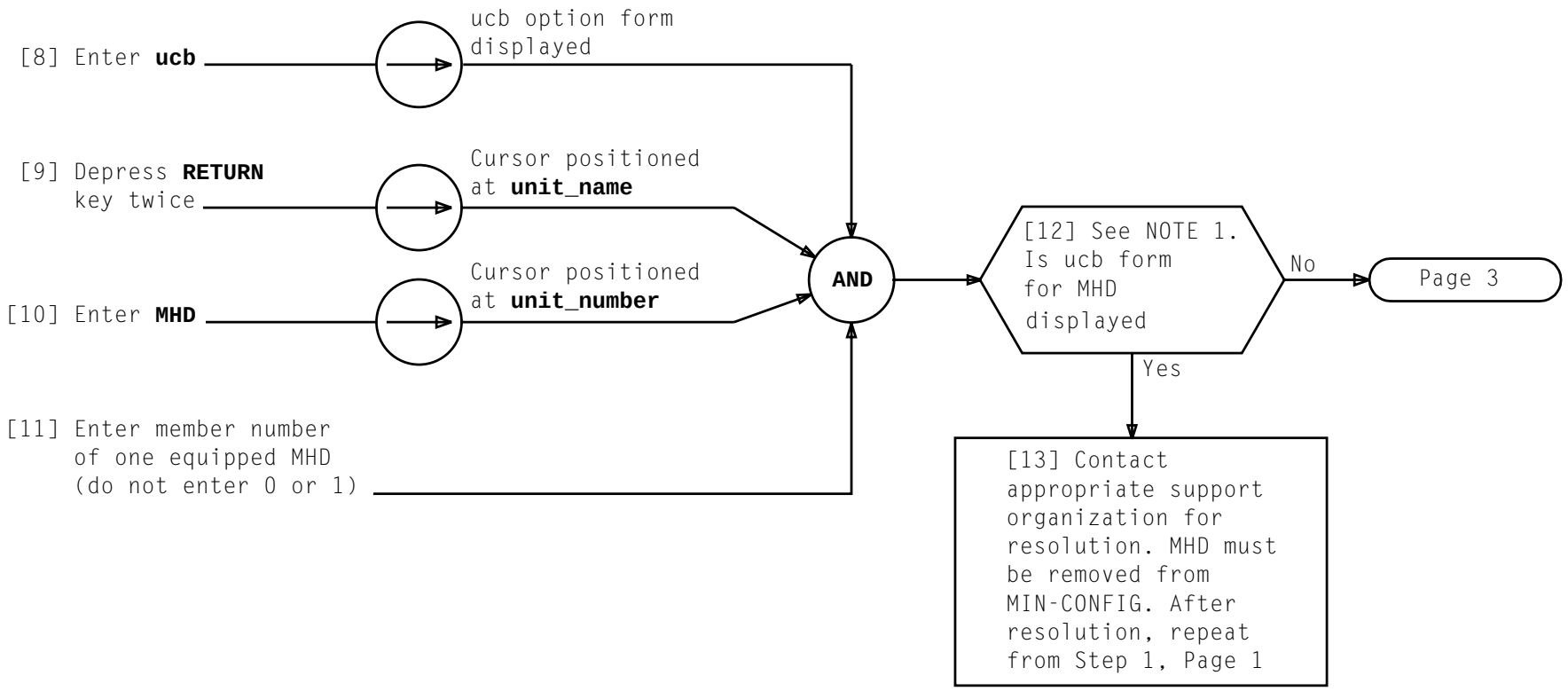
TABLE C

MESSAGE NUMBER	INPUT MESSAGE
1	CLR:FILESYS:FILE,FN"/usr/lib/crontab.bak"!
2	OP:STATUS:LISTDIR,FN"/usr/lib"!
3	STOP:EXC:ANY,FN"/etc/cron",UCL!

START SCSI DISK SCHEDULES IN CRONTAB

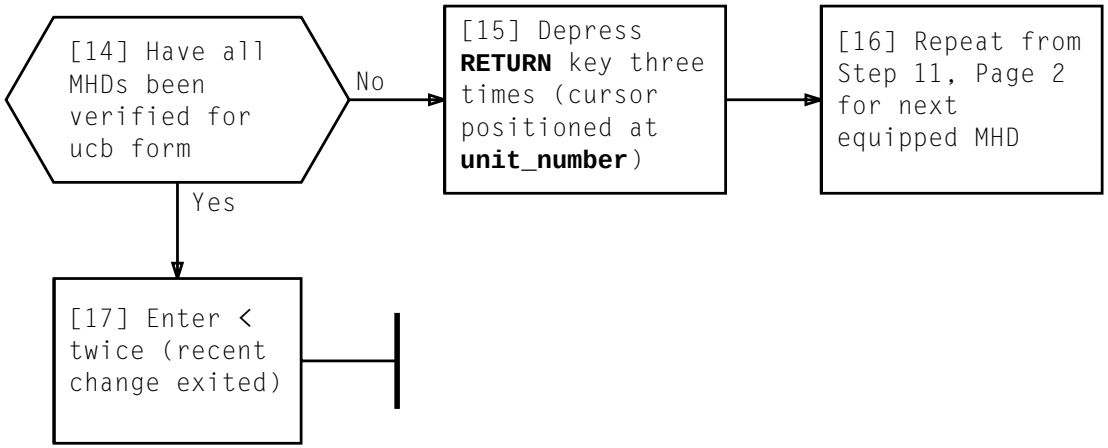


VERIFY MINIMUM CONFIGURATION (MIN-CONFIG)



NOTE 1
This procedure verifies that only MHDs 0 and 1 are in MIN-CONFIG. If ucb form is displayed for any other MHD, conversion procedure cannot be performed

VERIFY MINIMUM CONFIGURATION (MIN-CONFIG)



VERIFY MINIMUM CONFIGURATION (MIN-CONFIG)

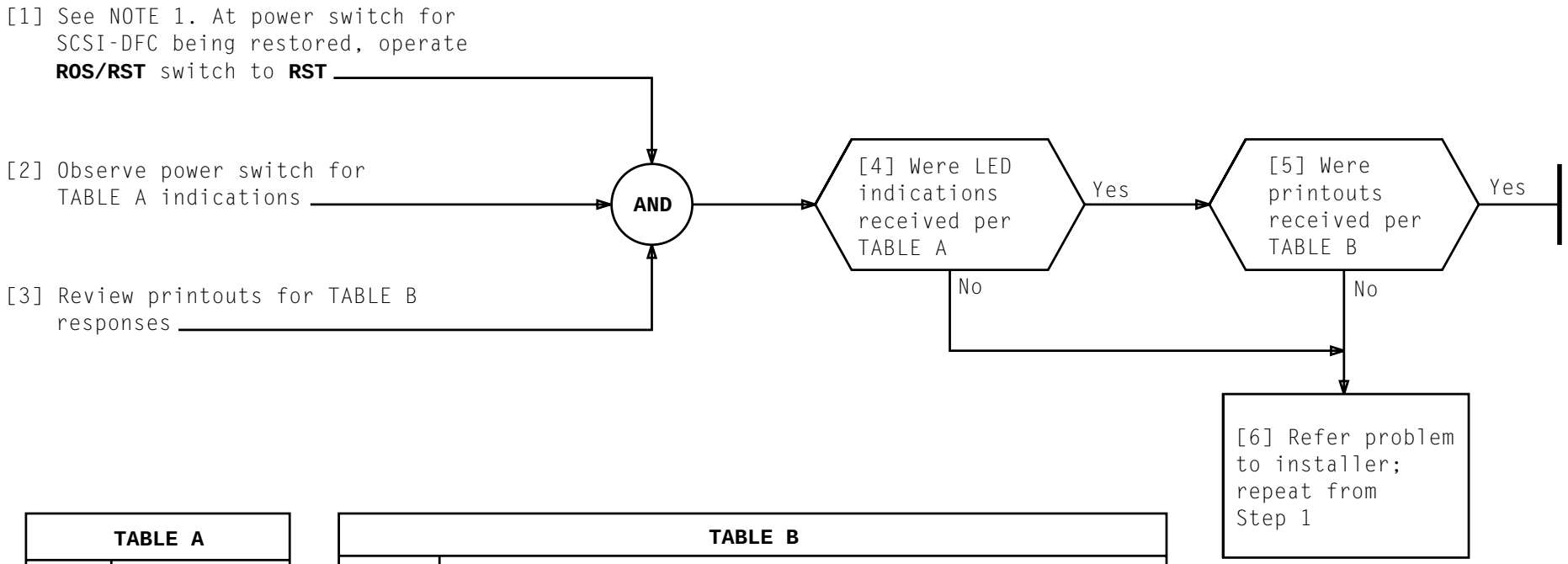


TABLE A	
LED	**INDICATION**
ROS	Off
RQIP	On then Off
OOS	Off

TABLE B	
MESSAGE NUMBER	**OUTPUT MESSAGES**
1	RST DFC a TASK x MESSAGE STARTED
2	DGN DFC a ATP MESSAGE IN PROGRESS
3	Message 2 repeated for each unit associated with DFC
4	RST DFC a COMPLETED
5	RST SBUS a COMPLETED
6	RST SBUS a COMPLETED
7	RST MHD x COMPLETED
8	RST MHD y STOPPED X'9
9	DGN DFC a ATP MESSAGE COMPLETED

NOTE 1
This procedure will take approximately 1 hour

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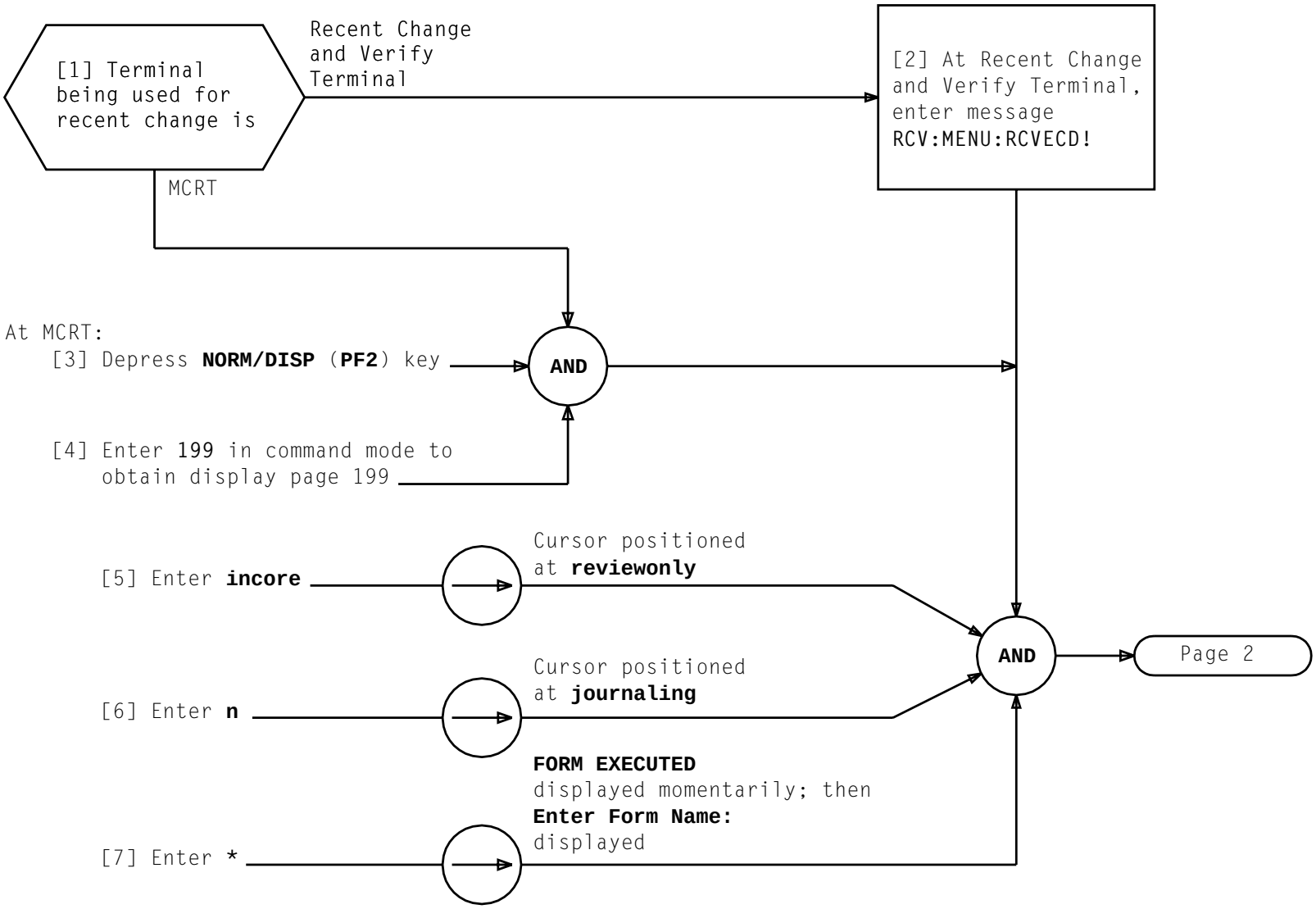
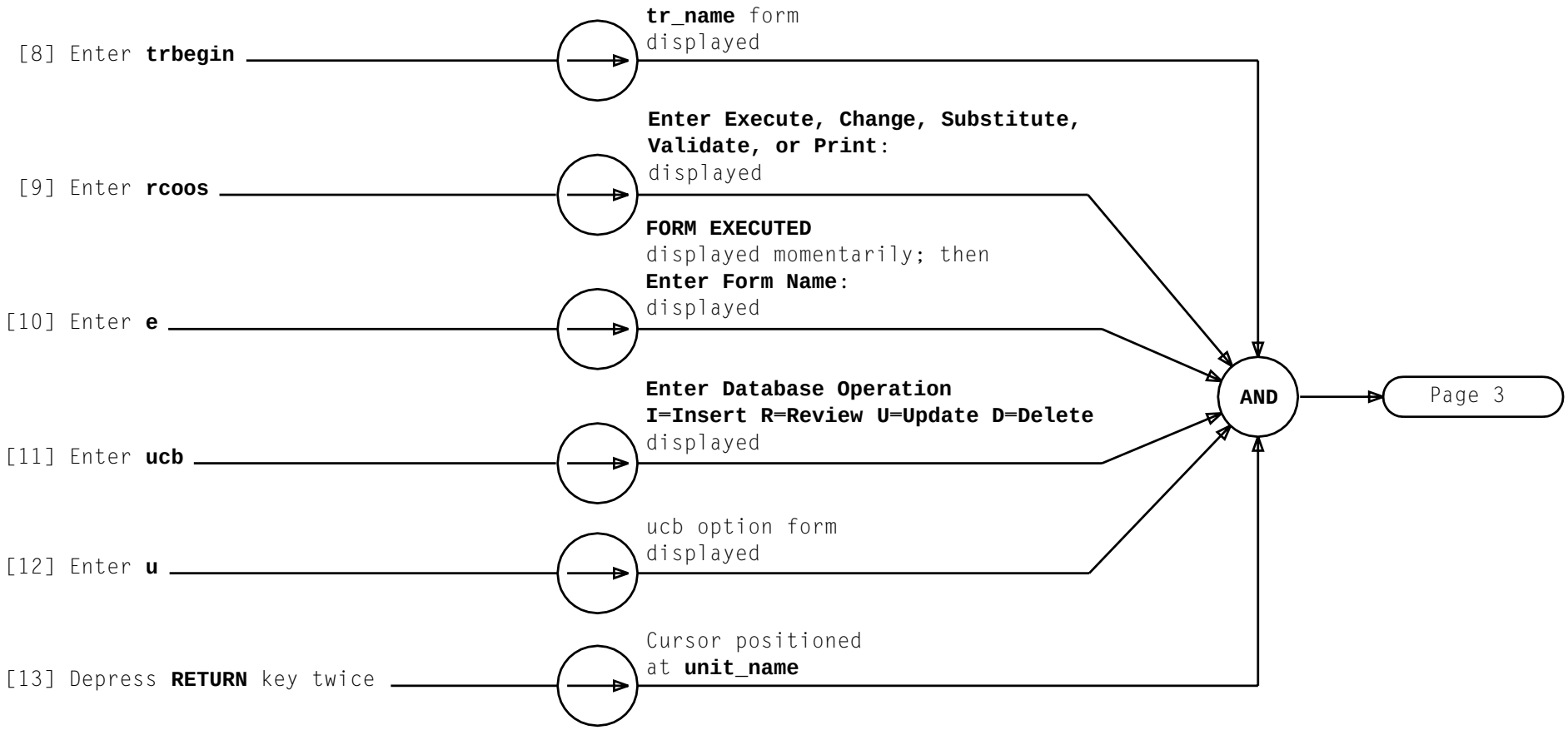
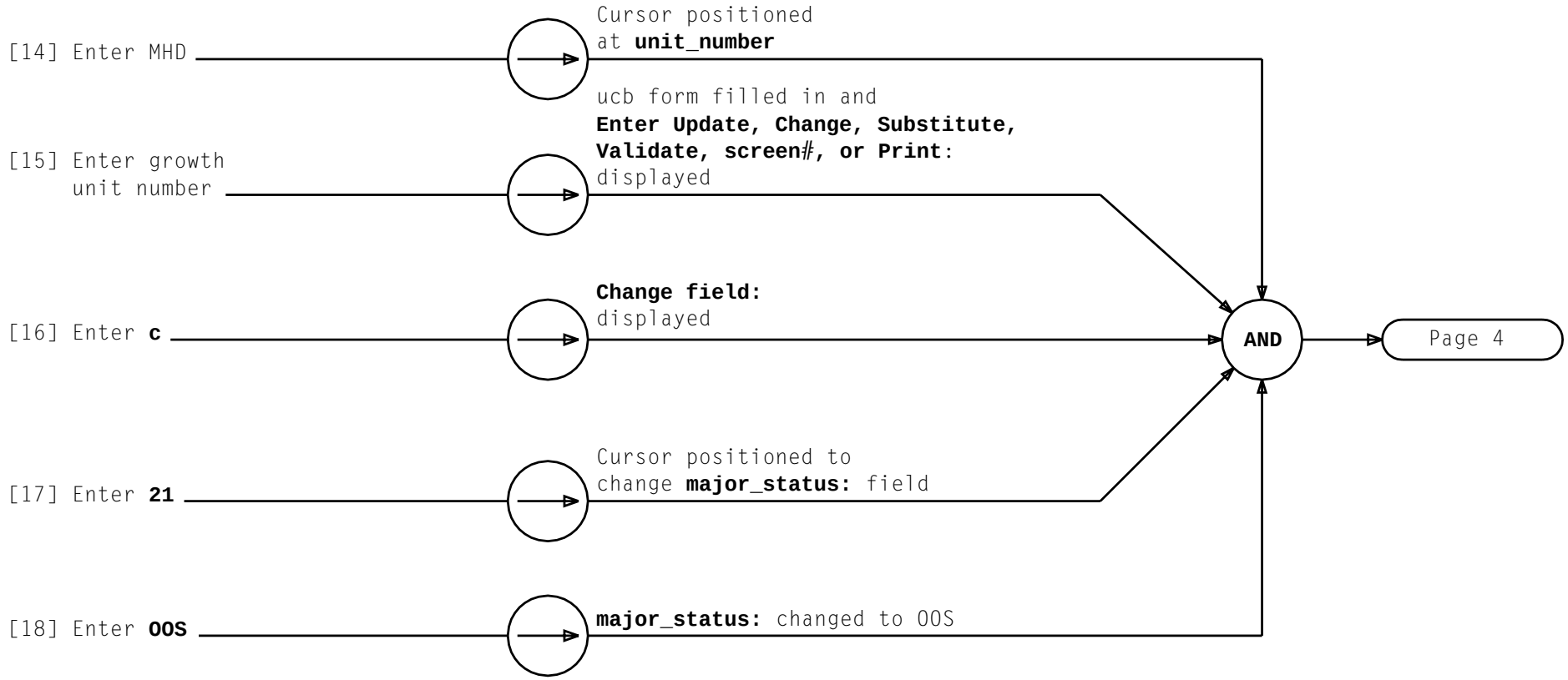
RESTORE SCSI-DFC TO SERVICE USING POWER SWITCH



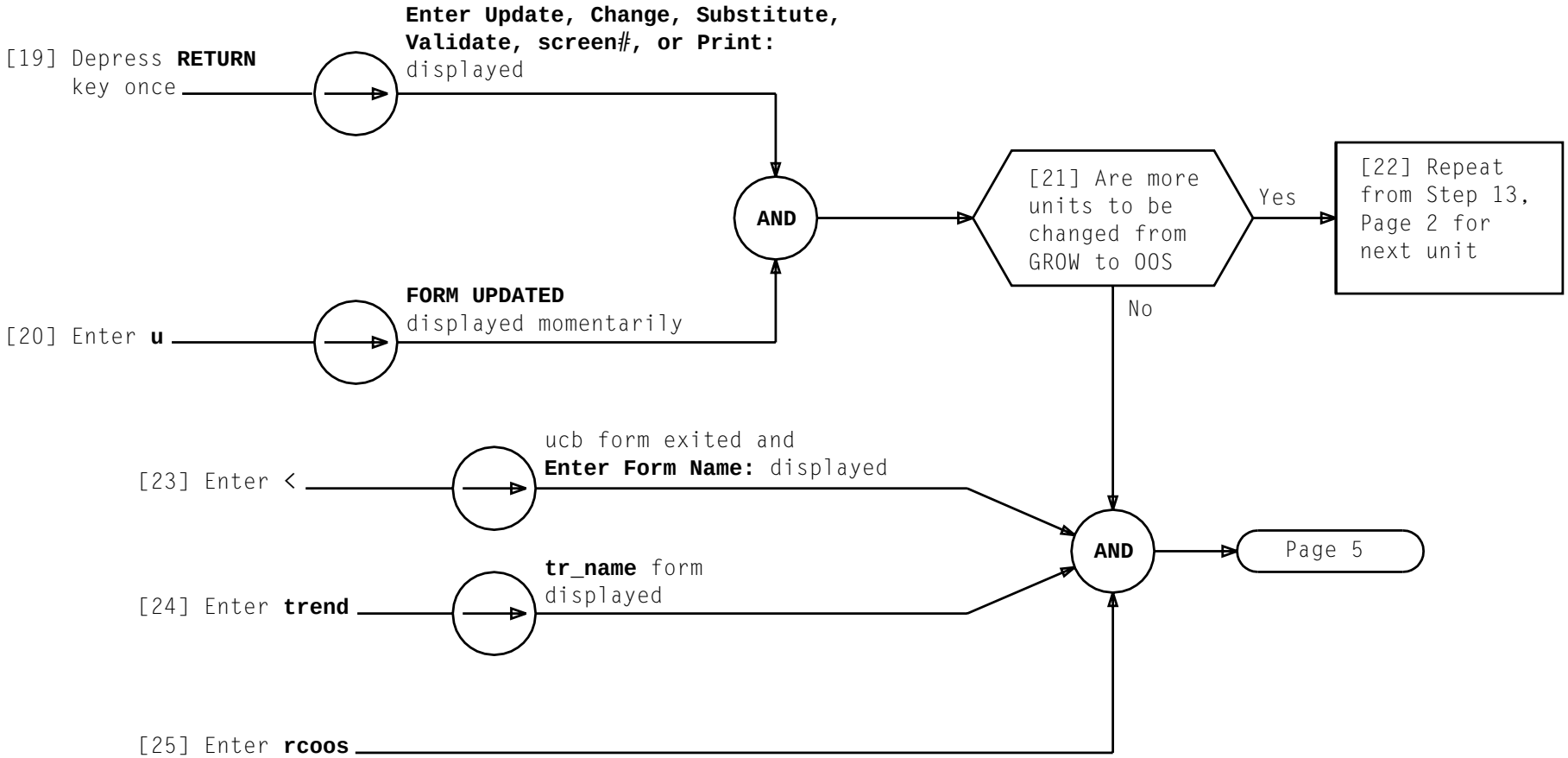
RECENT CHANGE GROWTH SCSI-MHD FROM GROW TO OOS AND ACTIVATE



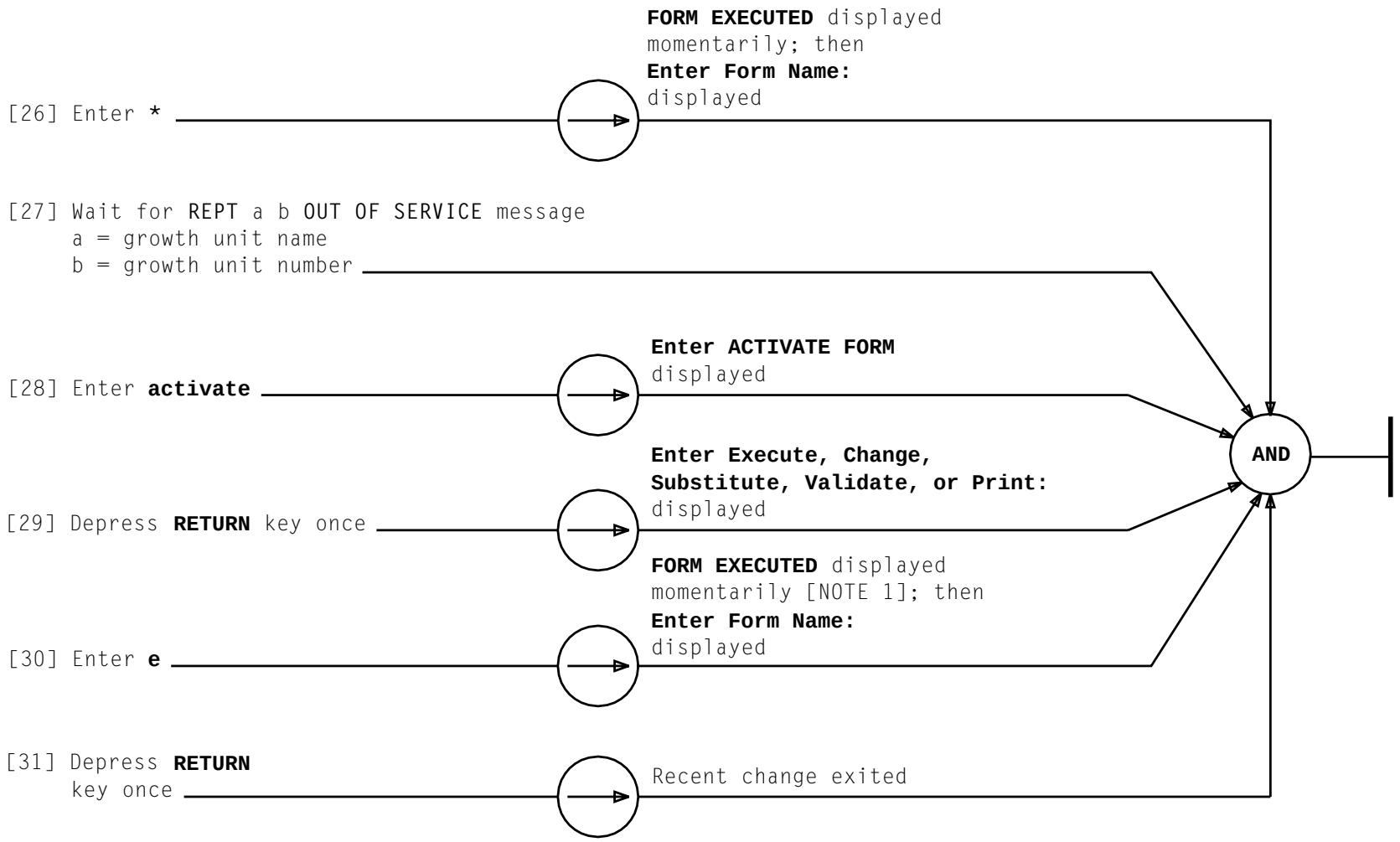
RECENT CHANGE GROWTH SCSI-MHD FROM GROW TO OOS AND ACTIVATE



RECENT CHANGE GROWTH SCSI-MHD FROM GROW TO OOS AND ACTIVATE



RECENT CHANGE GROWTH SCSI-MHD FROM GROW TO OOS AND ACTIVATE



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

RECENT CHANGE GROWTH SCSI-MHD FROM GROW TO OOS AND ACTIVATE

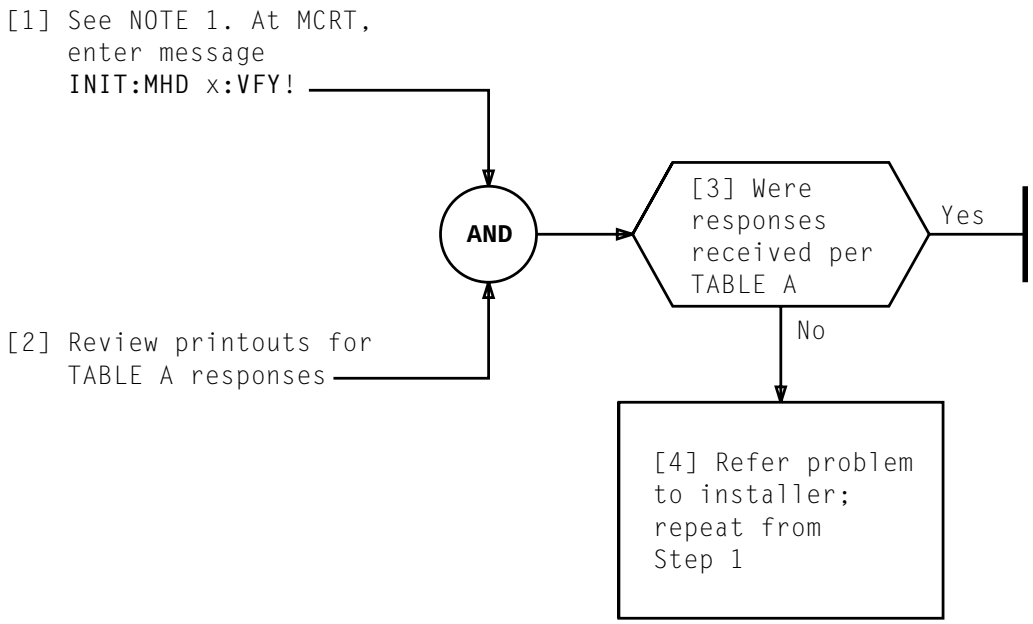


TABLE A	
MESSAGE NUMBER	**OUTPUT MESSAGE**
1	INIT MHD x STARTED
2	INIT MHD x IN PROGRESS
3	Message 2 is printed every two minutes
4	INIT MHD x COMPLETED

NOTE 1
This procedure will take approximately 30 minutes

INITIALIZE THE GROWTH SCSI-MHD

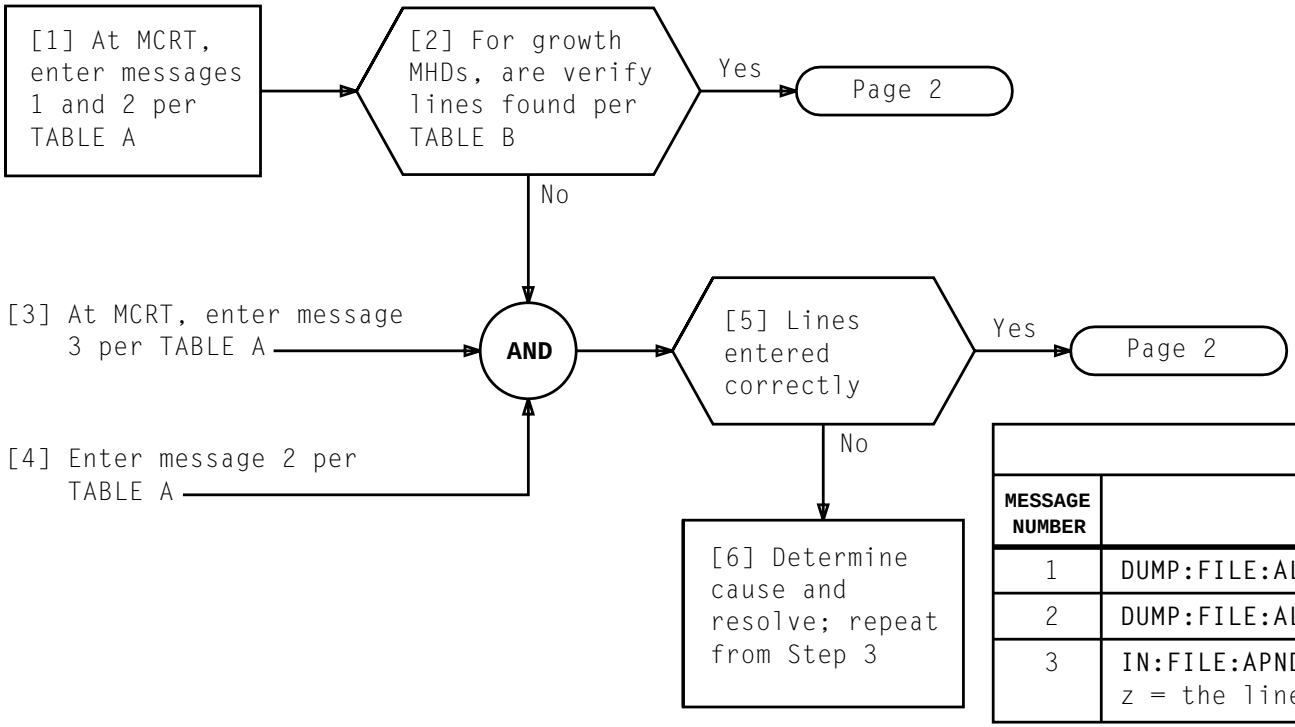


TABLE A

MESSAGE NUMBER	INPUT MESSAGE
1	DUMP:FILE:ALL,FN"/usr/lib/crontab.bak"!
2	DUMP:FILE:ALL,FN"/usr/lib/ucrontab.bak"!
3	IN:FILE:APND,FN"/usr/lib/ucrontab.bak",LINE 99/"z"! z = the lines to be added

TABLE B

MESSAGE NUMBER	OUTPUT MESSAGE
1	7 20 * * 1,3,5,7 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 4!") 7 20 * * 4,6 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 5!") 7 20 * * 2 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 5!")
2	7 21 * * 1,3,5,7 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 6!") 7 21 * * 4,6 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 7!") 7 21 * * 2 (cd /cft/shl;/cft/bin/pdsenv "VFY:MHD 7!")

RESTORE SCSI DISK SCHEDULES IN CRONTAB

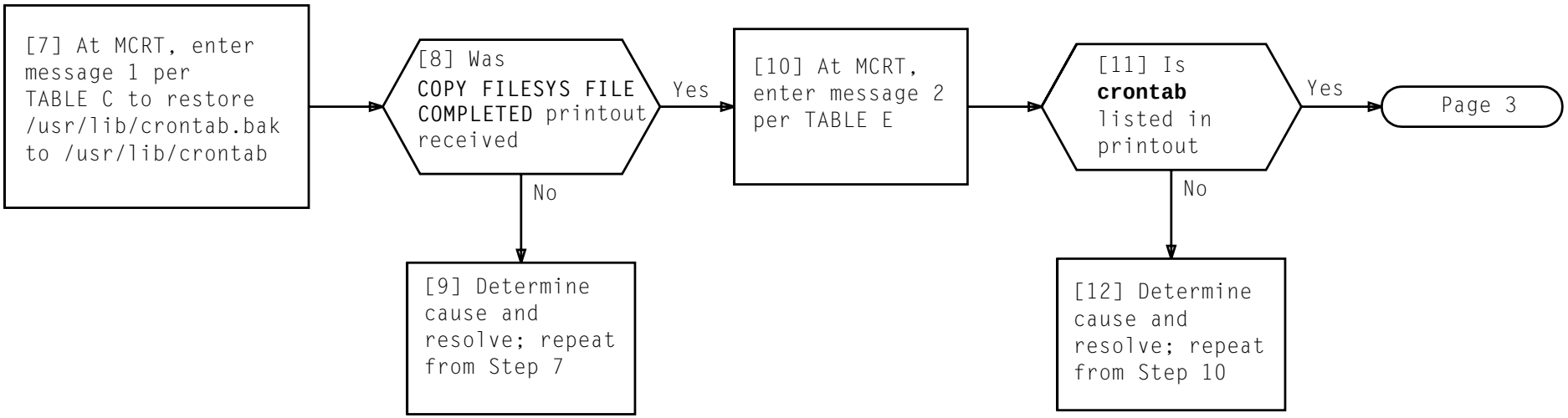


TABLE C

MESSAGE NUMBER	INPUT MESSAGES
1	COPY:FILESYS:FILE,SRC"/usr/lib/crontab.bak",DEST"/usr/lib/ERASE"!

RESTORE SCSI DISK SCHEDULES IN CRONTAB

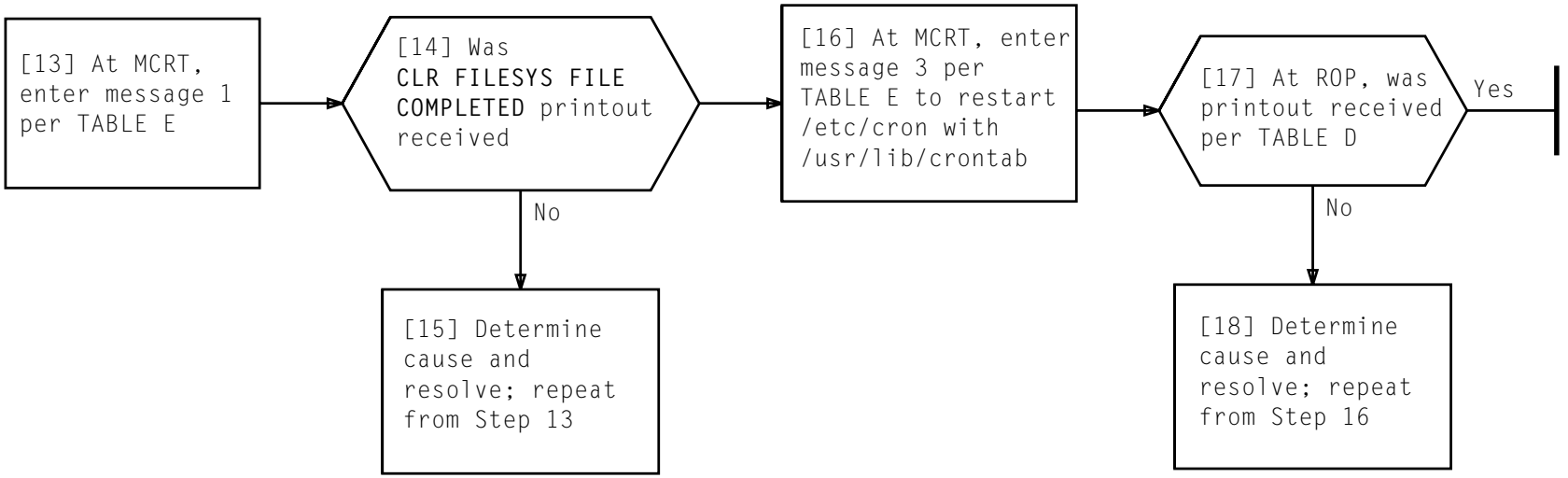


TABLE D

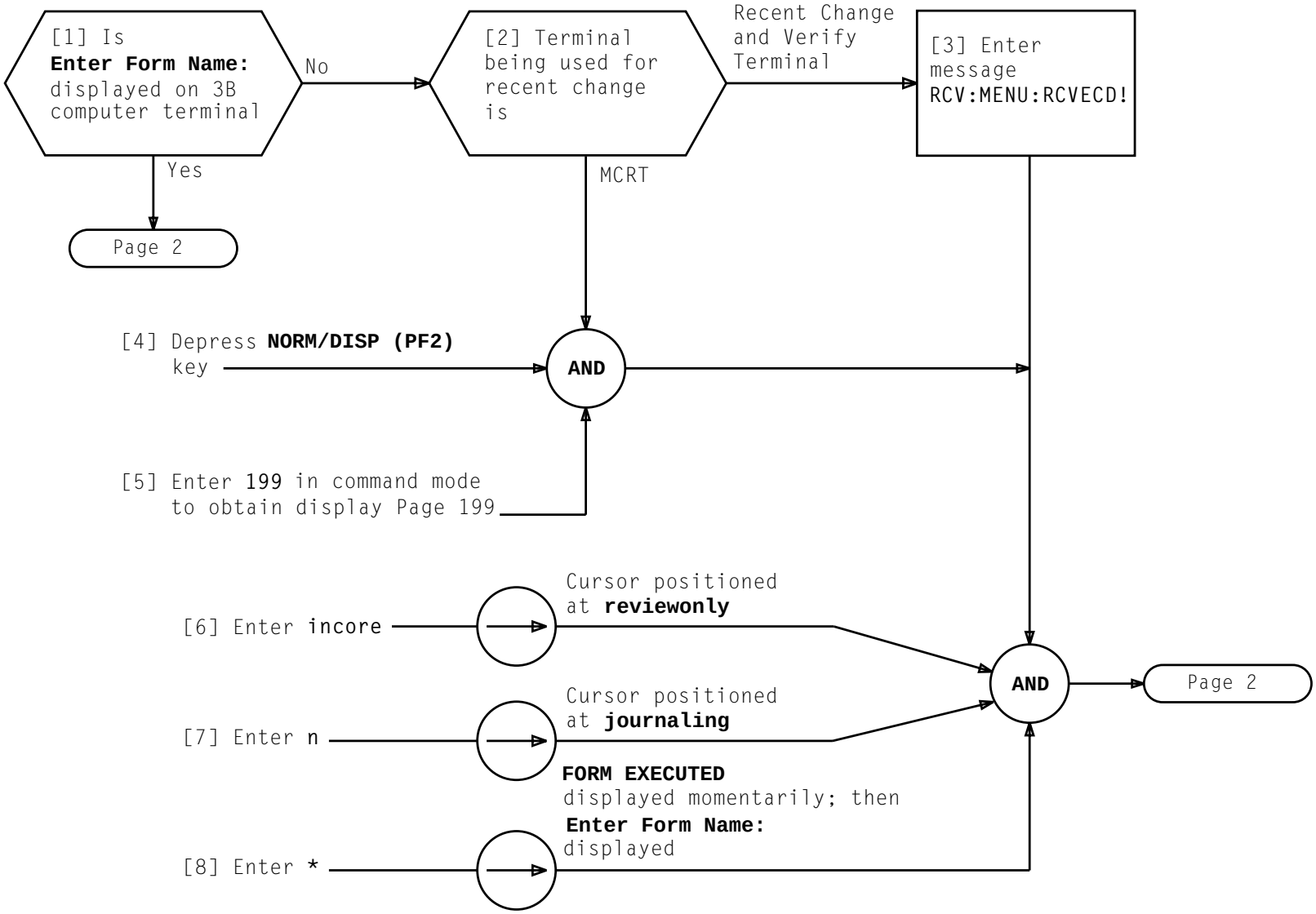
MESSAGE NUMBER	OUTPUT MESSAGES
1	REPT ULARP ATTEMPTING TO RESTART CRON xxxx STOP EXC ANY COMPLETED

xxxx = PID number

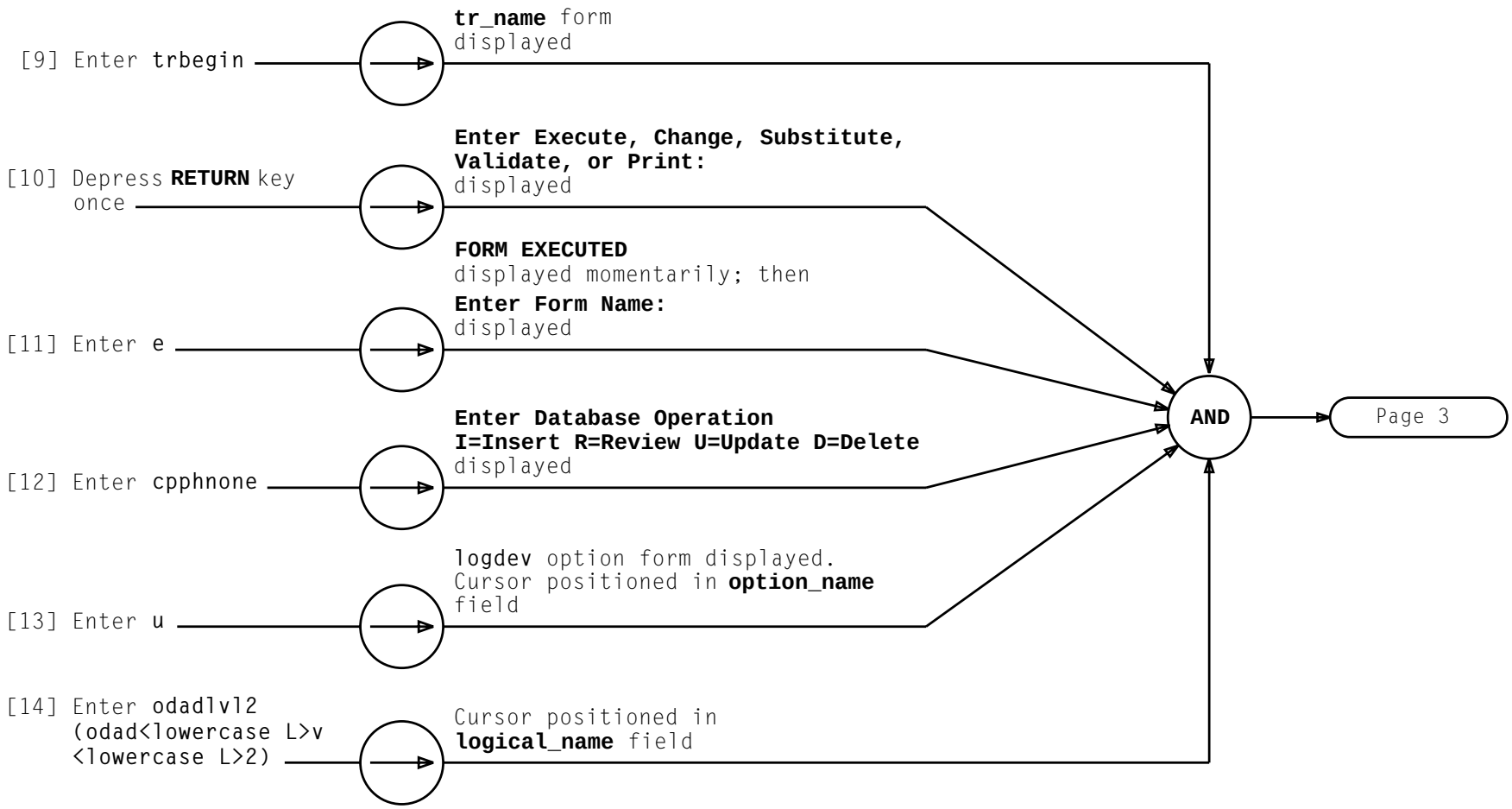
TABLE E

MESSAGE NUMBER	INPUT MESSAGE
1	CLR:FILESYS:FILE,FN"/usr/lib/crontab.bak"!
2	OP:STATUS:LISTDIR,FN"/usr/lib"!
3	STOP:EXC:ANY,FN"/etc/cron",UCL!

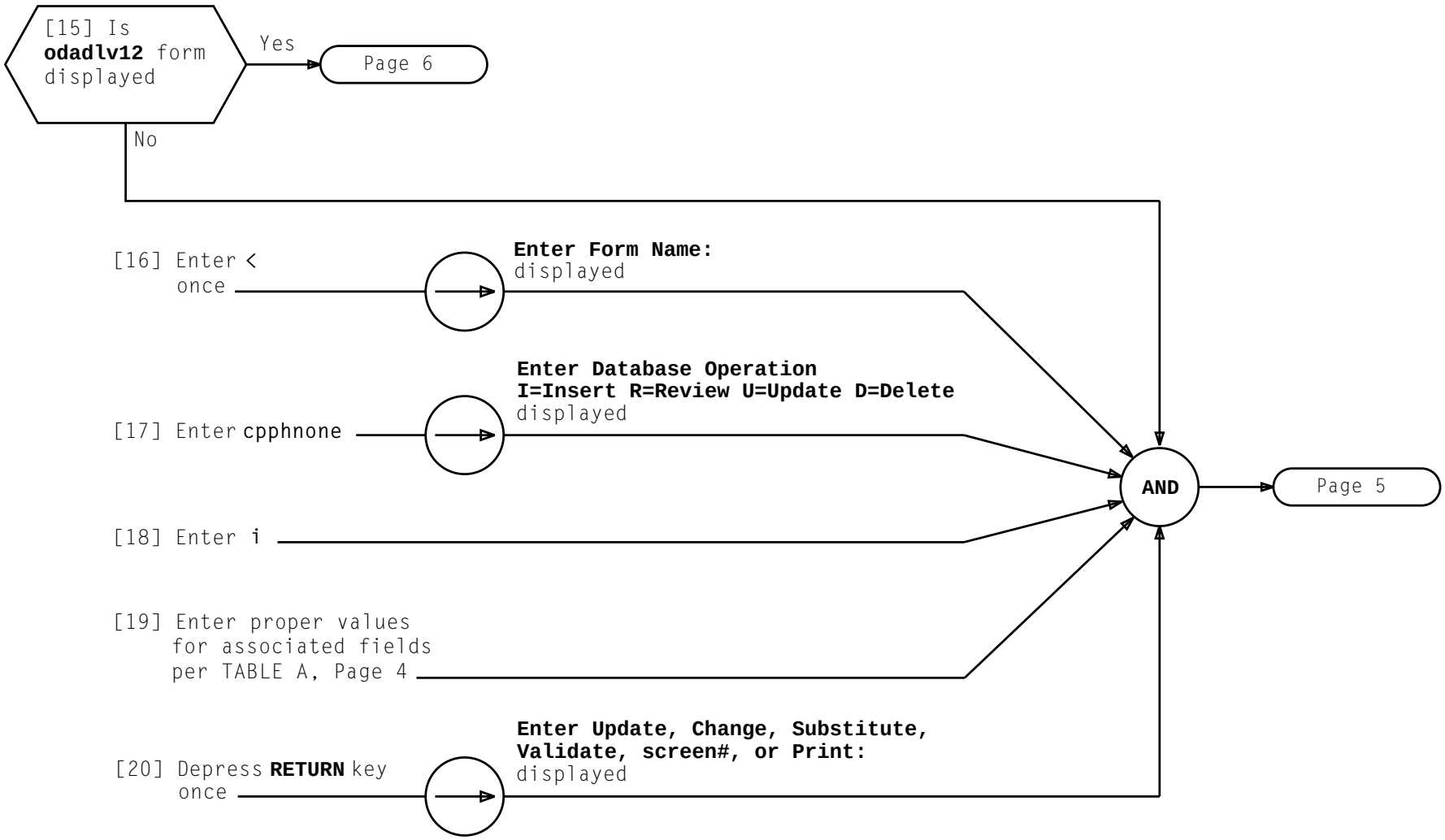
RESTORE SCSI DISK SCHEDULES IN CRONTAB



RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24

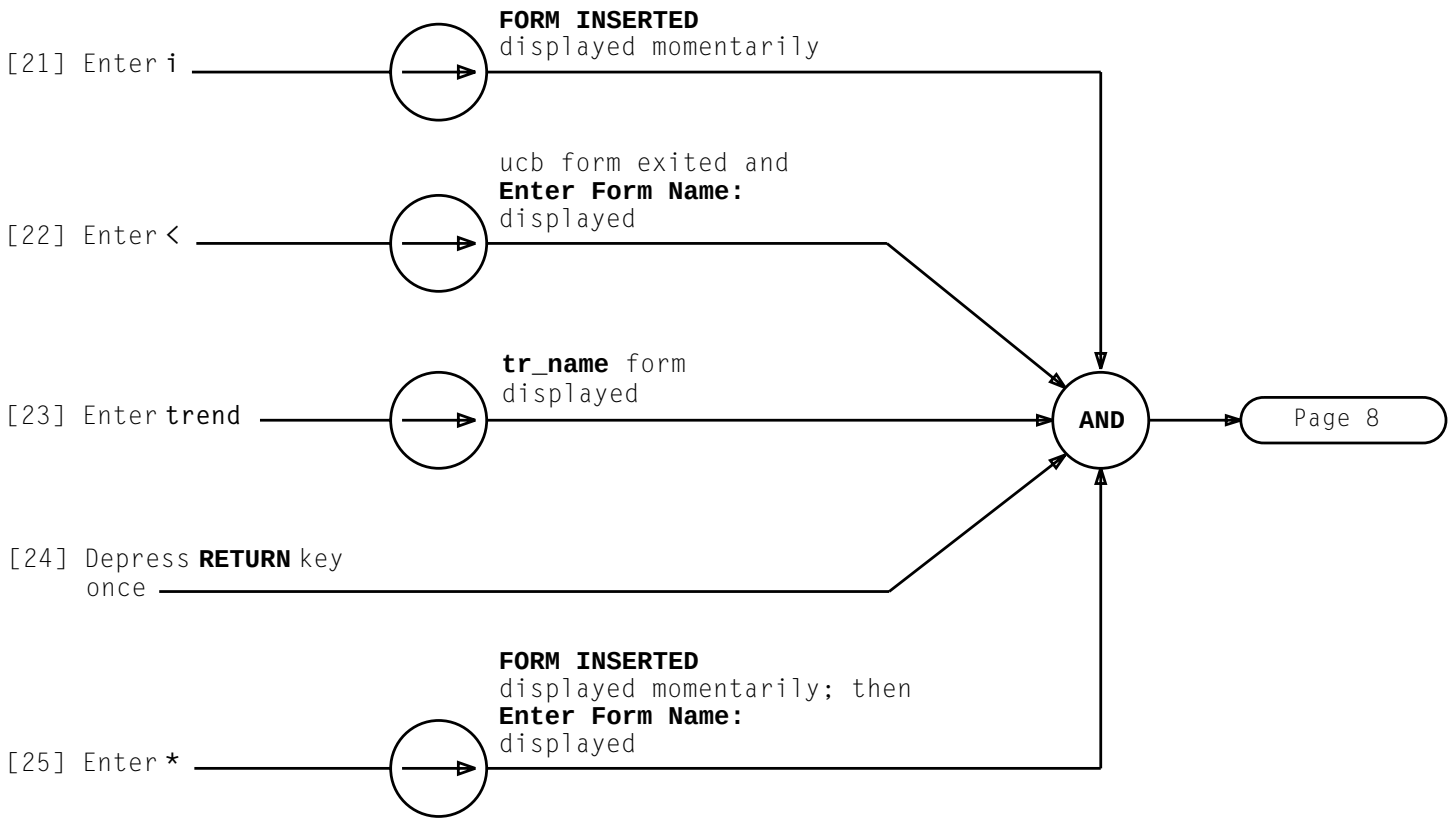


RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24

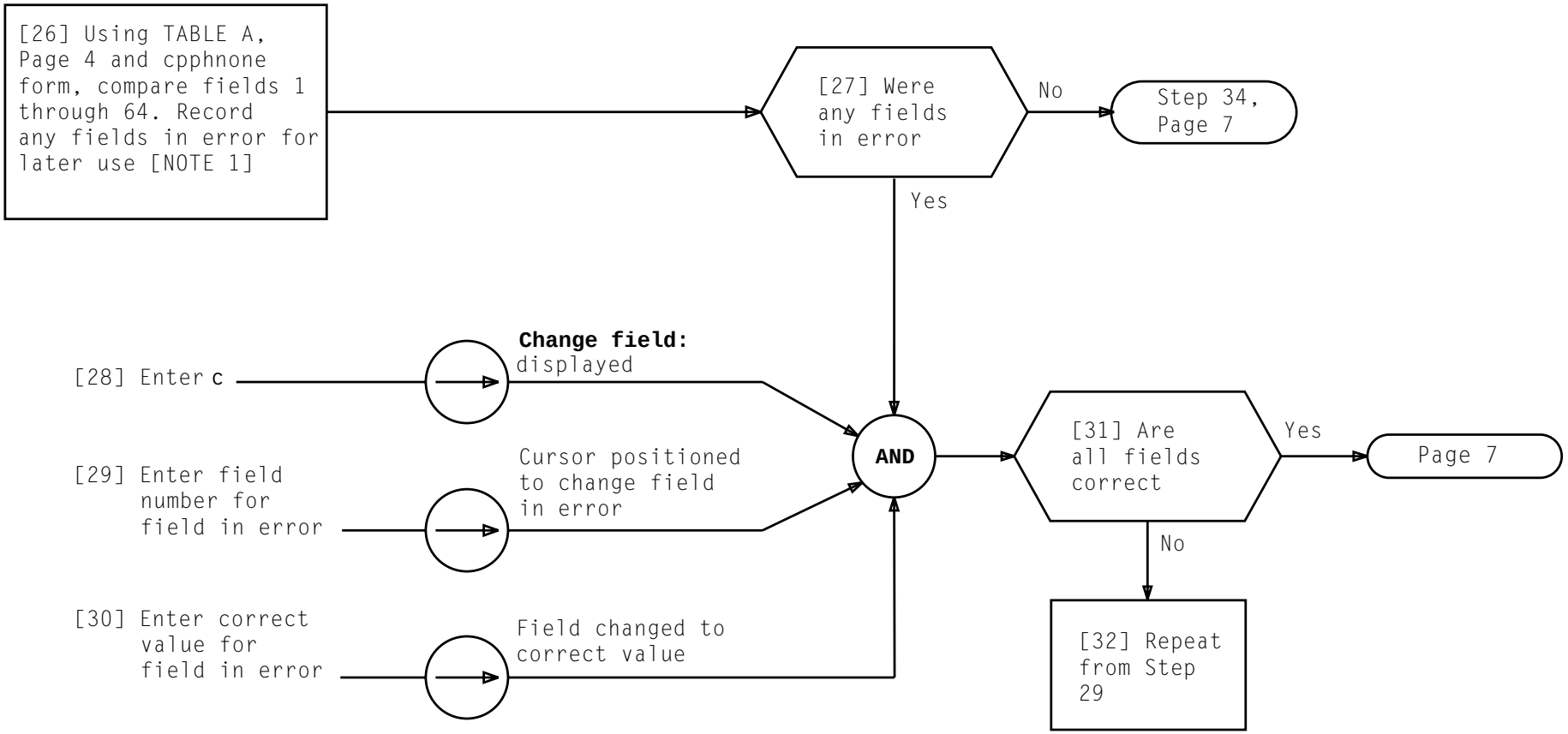


RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24

TABLE A					
FIELD	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**
1	odadlv12	12	1	46	Blank
2	56000	13	active	57	inhibit
3	full	14	simplex	58	13024
4	CCITT	15	Blank	59	512
5	s	19	n	60	13024
6	noACU	20	0	61	512
7	b	21	0	62	y
8	25	22	0	63	0
9	100	23	0	64	512
10	7	24	Blank		
11	7	35	Blank		

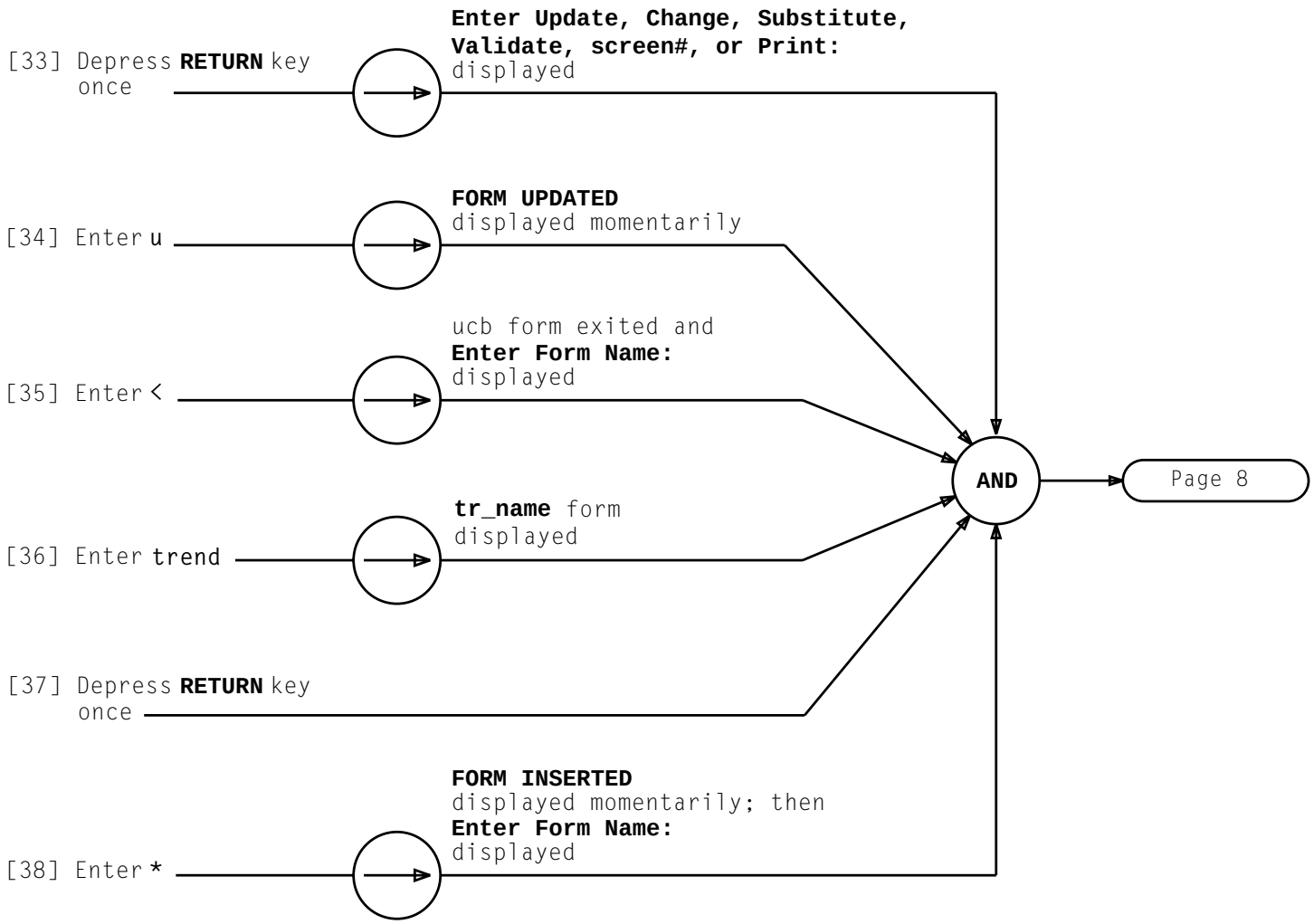


RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24

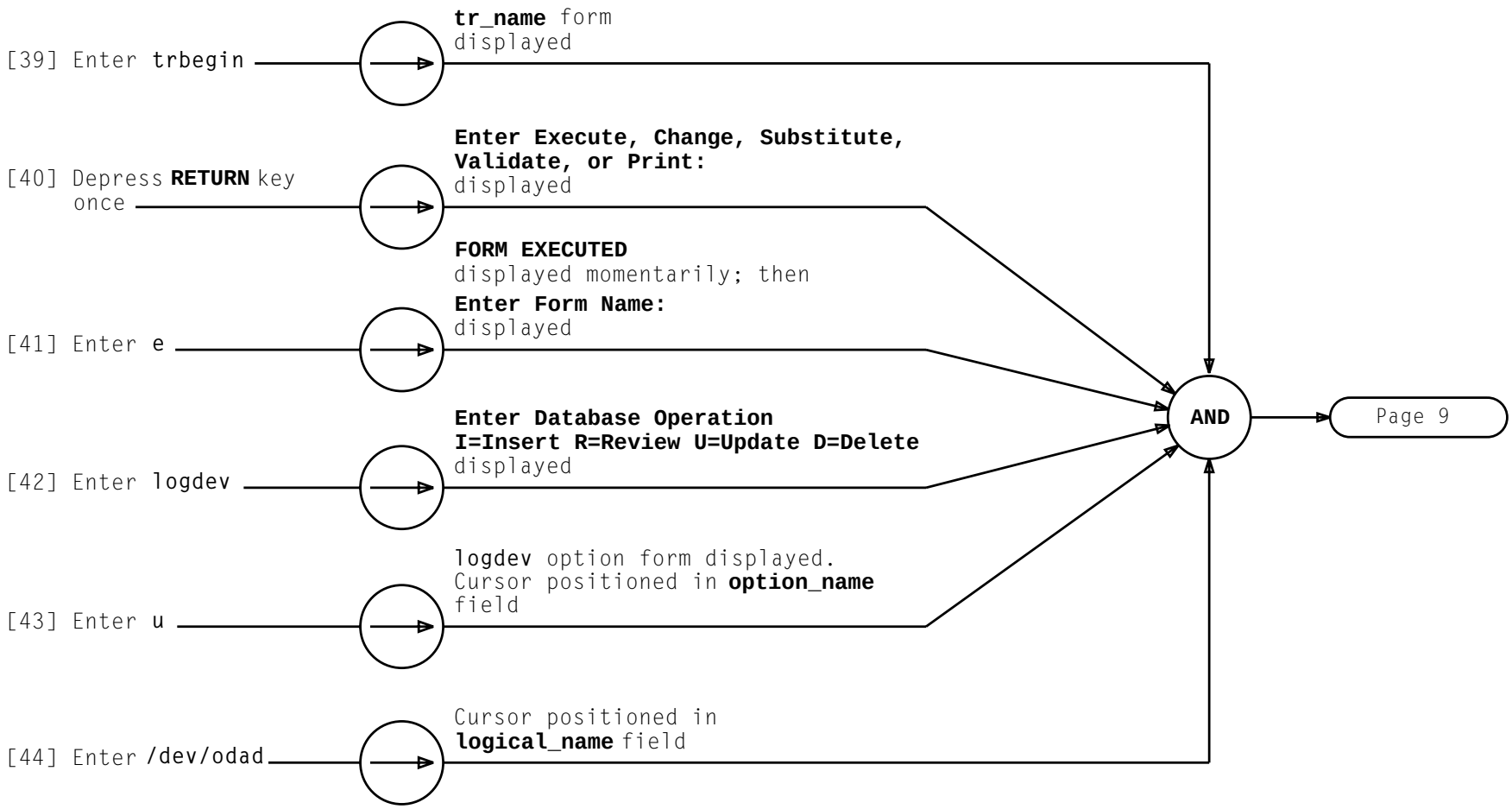


NOTE 1
Screen number must be entered to see fields on that screen (2 for screen 2, 3 for screen 3, and 4 for screen 4)

RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24



RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24



RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24

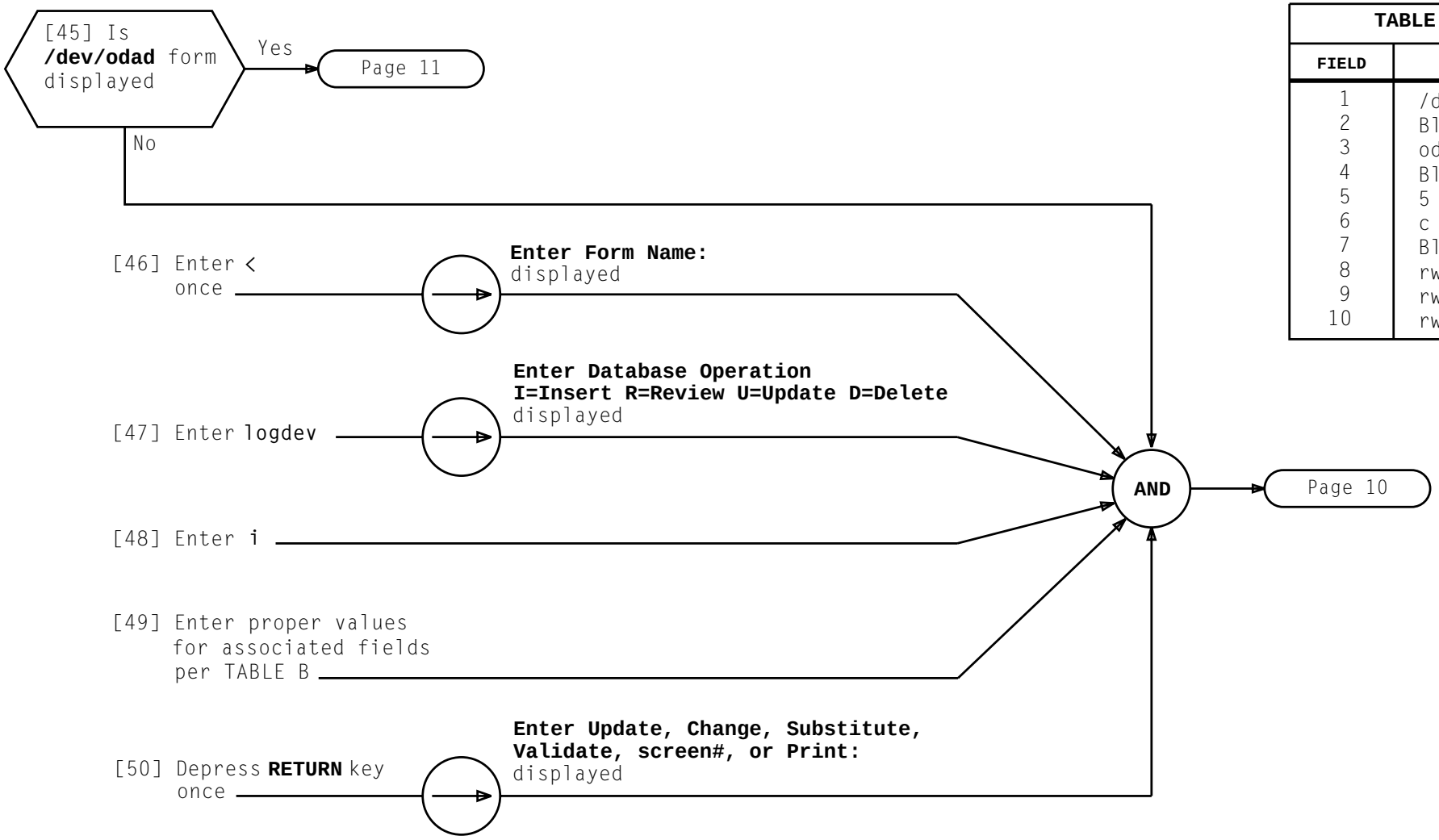
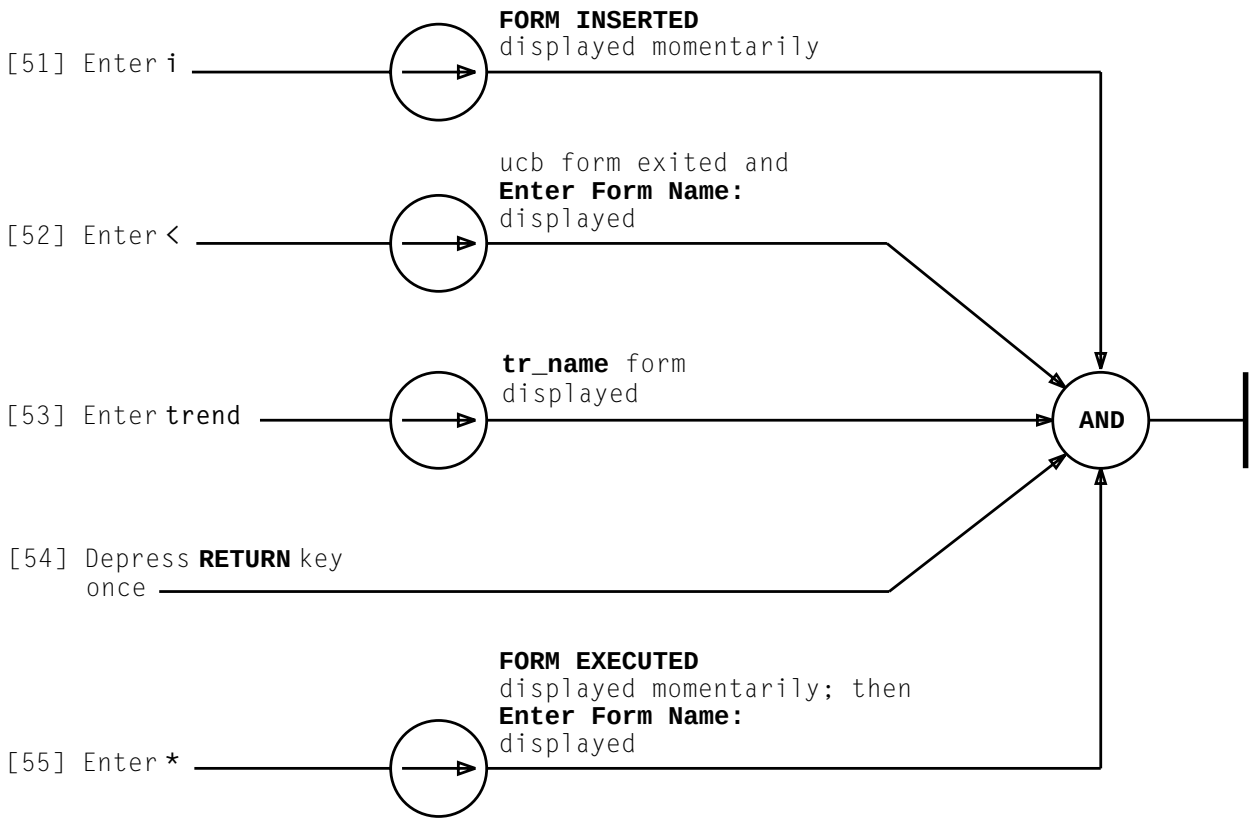


TABLE B

FIELD	VALUE
1	/dev/odad
2	Blank
3	odad24
4	Blank
5	5
6	c
7	Blank
8	rw-
9	rw-
10	rw-

RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24



RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24

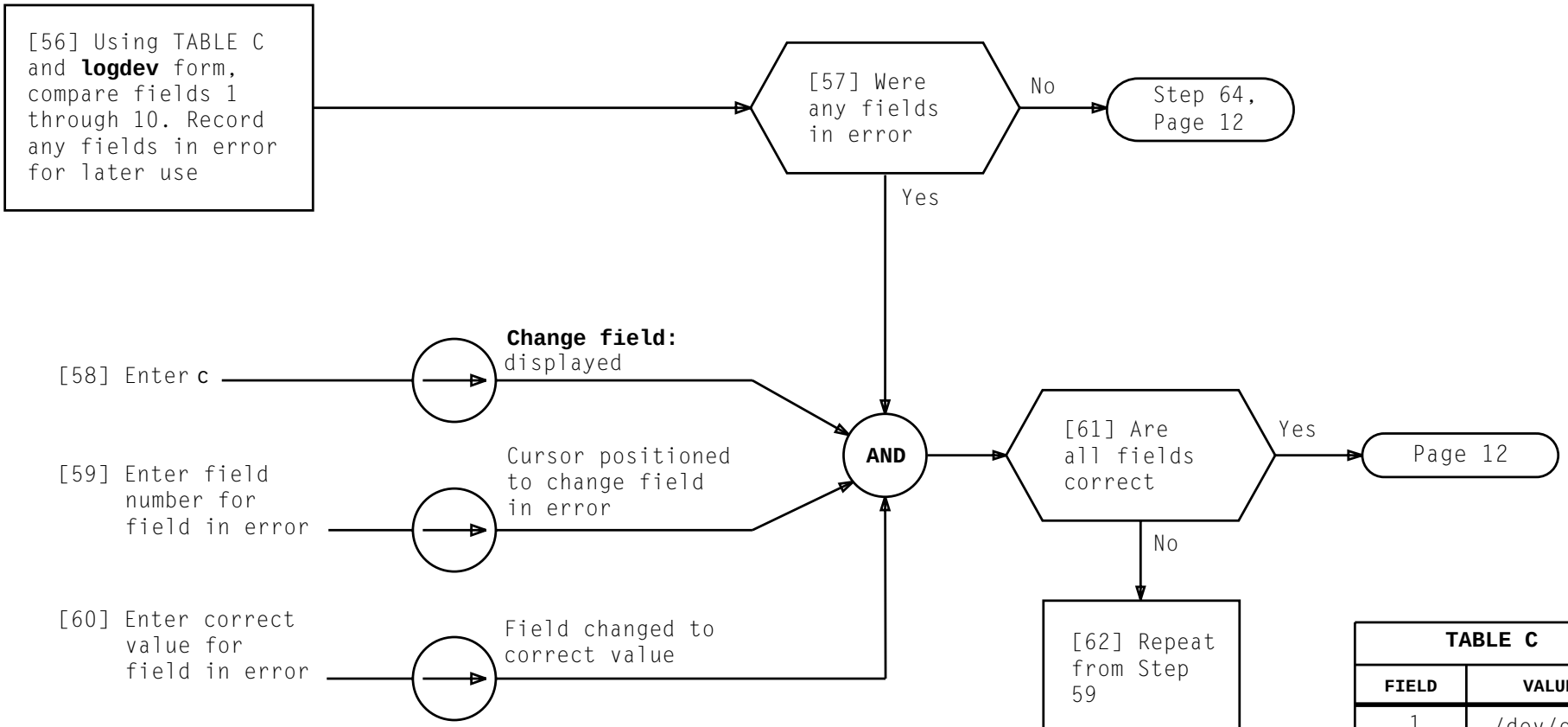
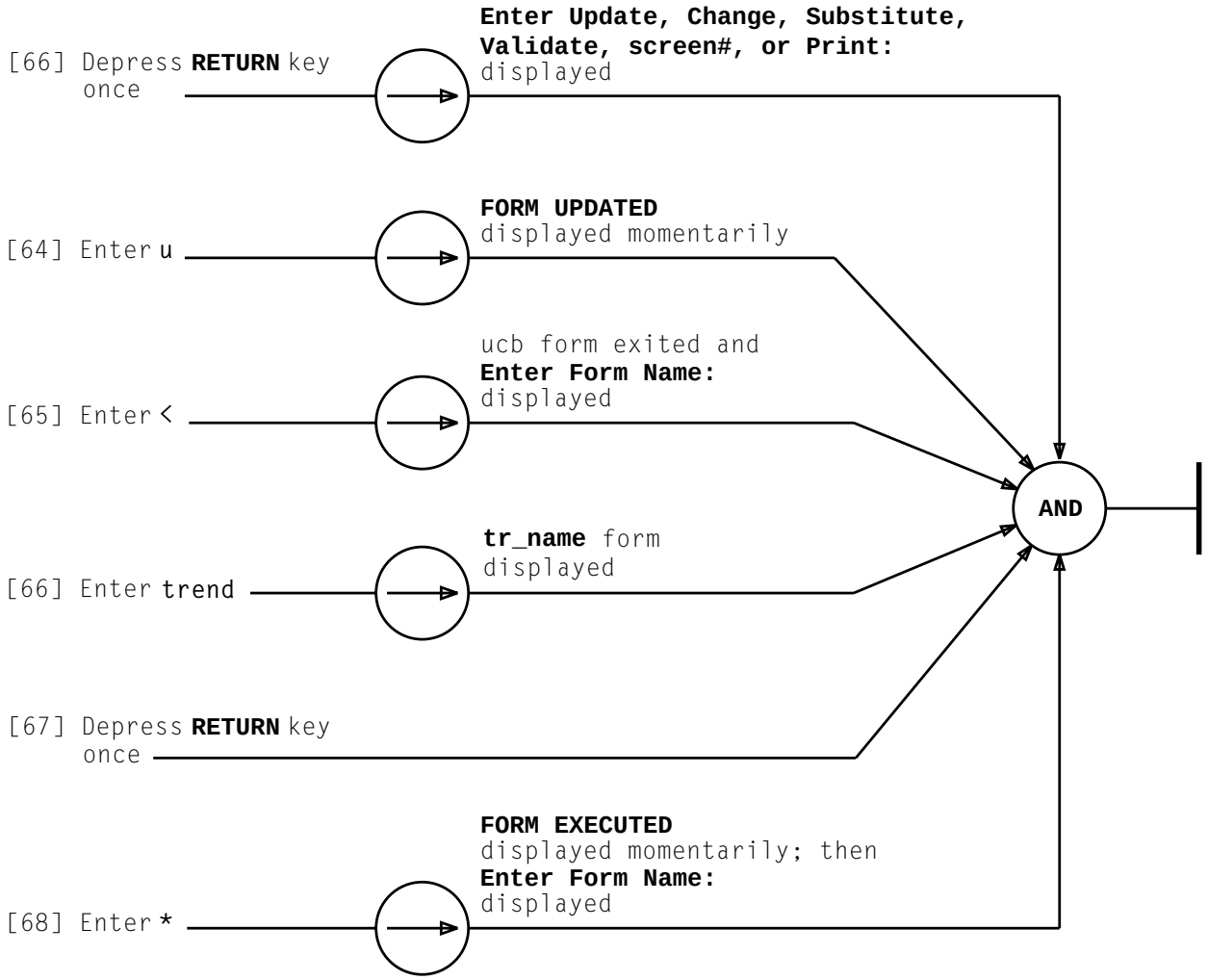
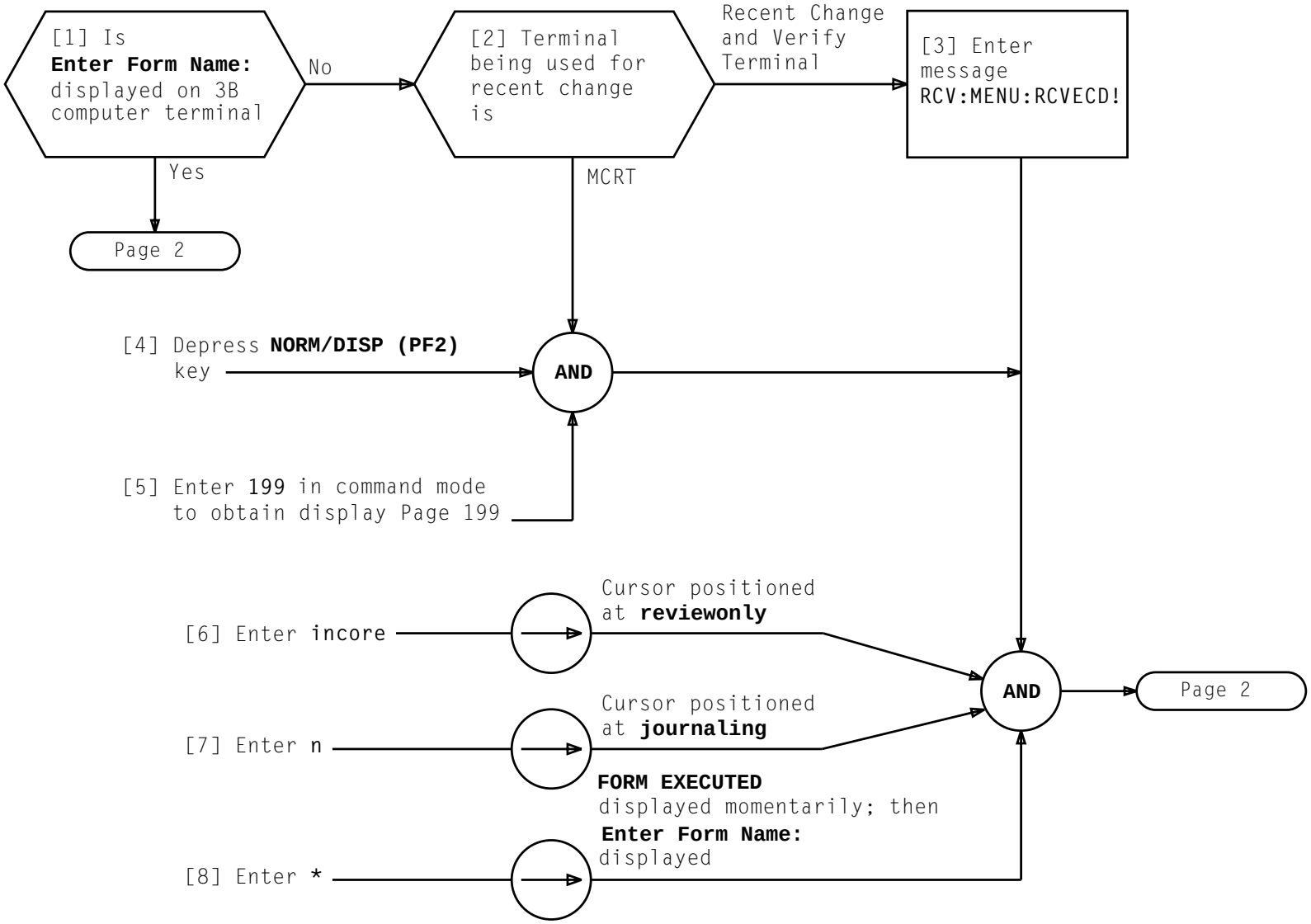


TABLE C

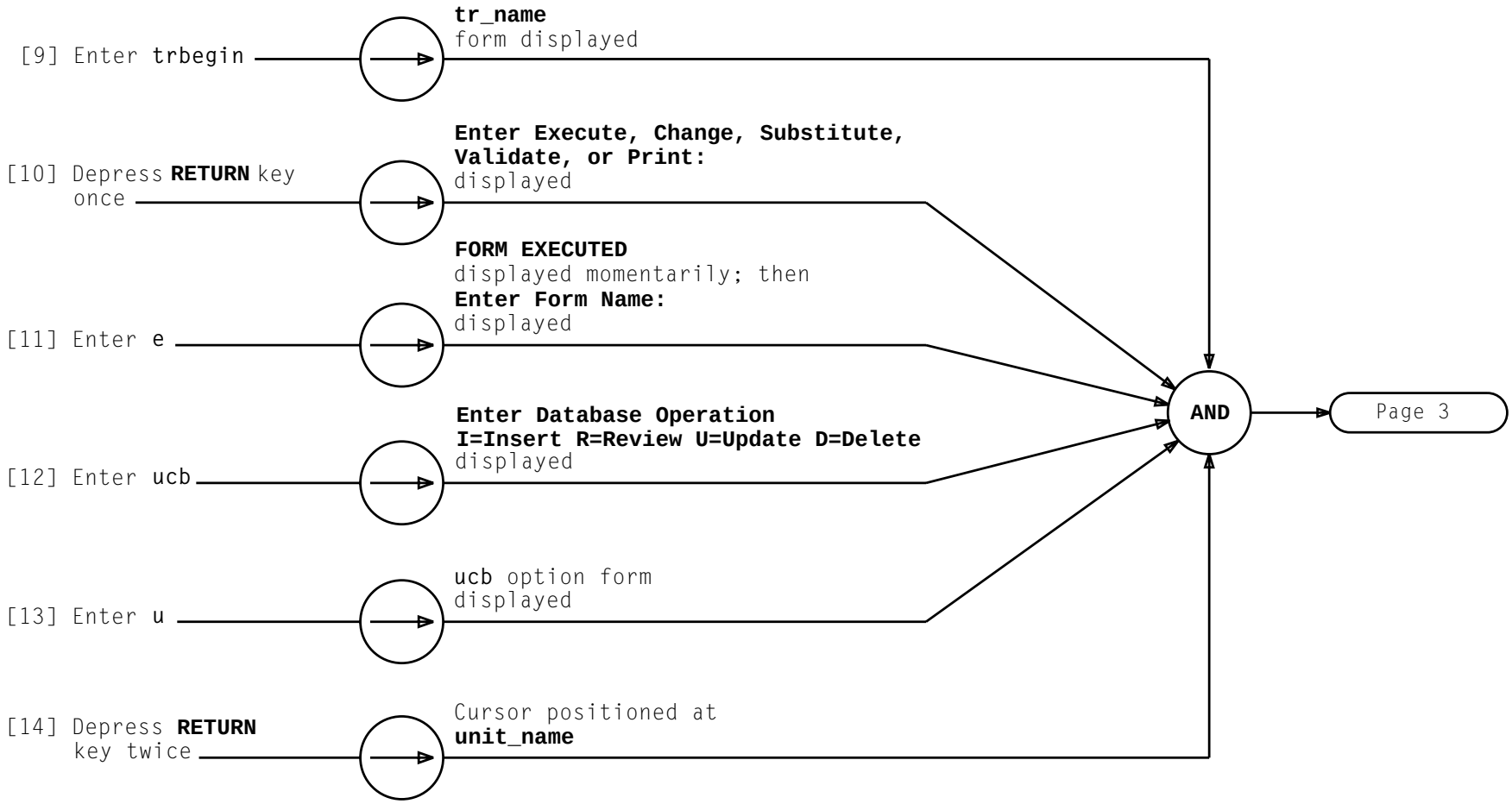
FIELD	VALUE
1	/dev/odad
2	Blank
3	odad24
4	Blank
5	5
6	c
7	Blank
8	rw-
9	rw-
10	rw-



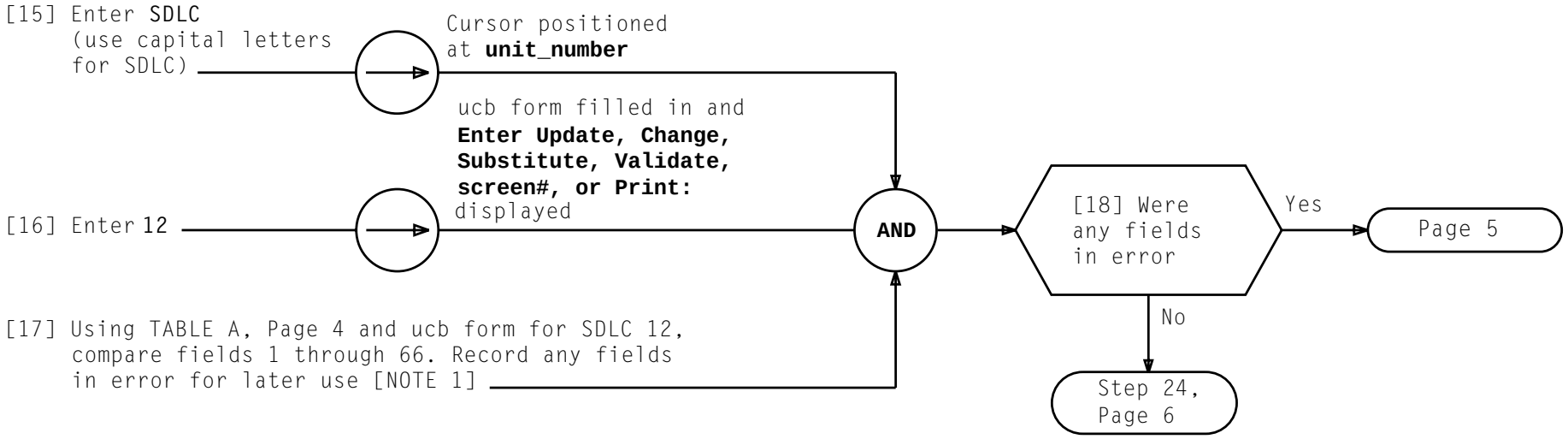
RECENT CHANGE cpphnone AND logdev TRANSLATORS FOR SDLC 12 AND SDL 24



RECENT CHANGE ucb FOR SDLC 12 AND SDL 24



RECENT CHANGE ucb FOR SDLC 12 AND SDL 24



NOTE 1
Screen number must be entered to see fields on that screen (2 for screen 2, 3 for screen 3, and 4 for screen 4)

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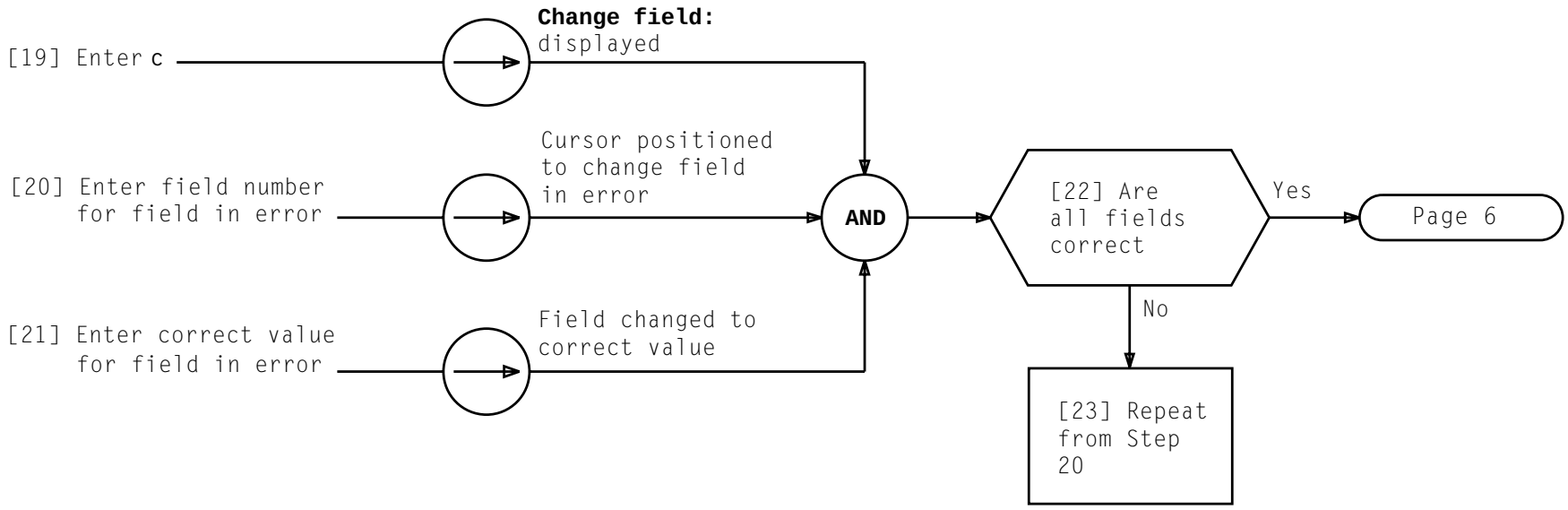
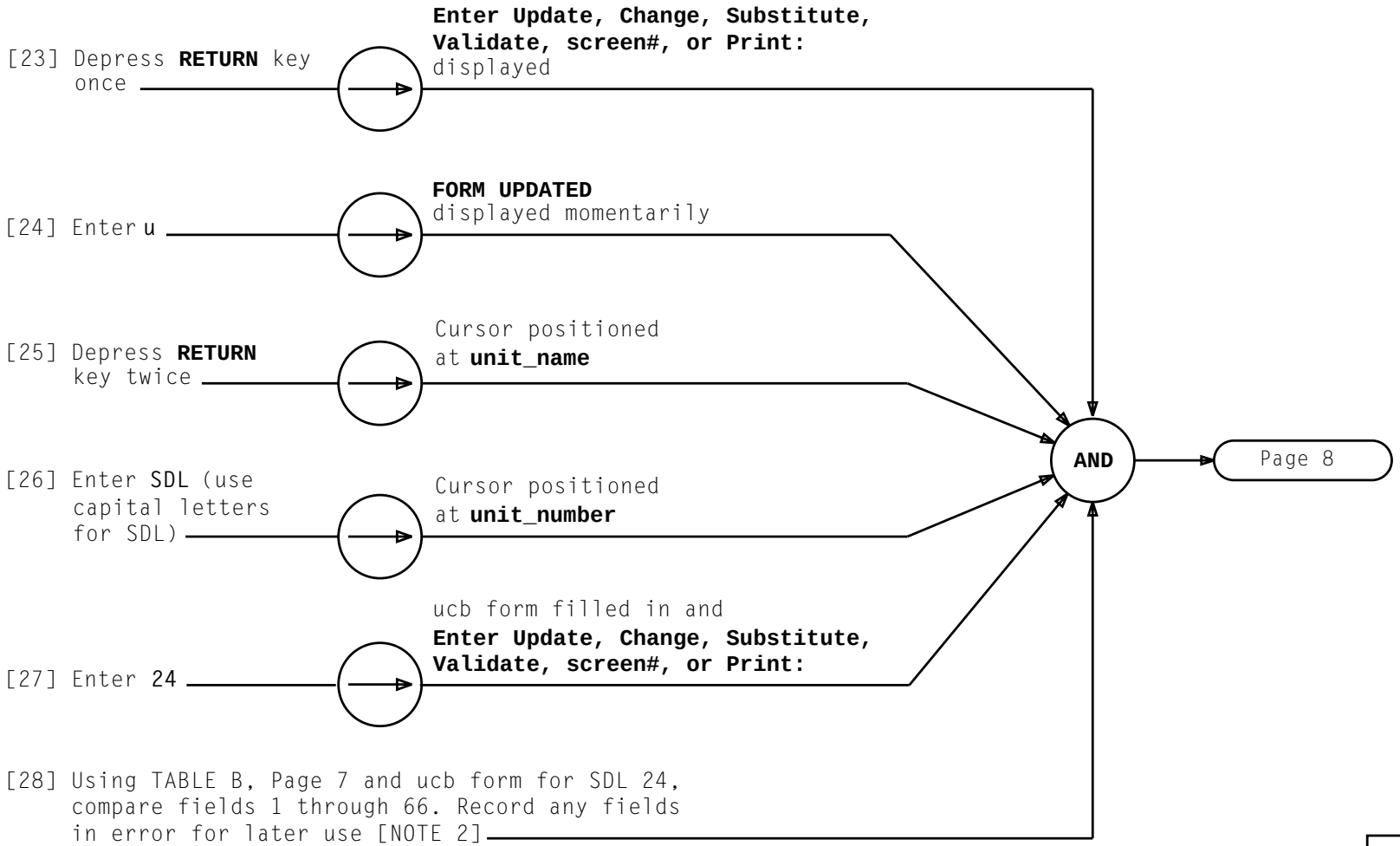
RECENT CHANGE ucb FOR SDLC 12 AND SDL 24

TABLE A (NOTE)									
FIELD	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**
1	Blank	14	y	27	0x52	40	24	53	Blank
2	Blank	15	y	28	Blank	41	NA	54	Blank
3	SDLC	16	n	29	Blank	42	Blank	55	Blank
4	12	17	Blank	30	pu/duic	43	Blank	56	ioperr
5	NEVER	18	n	31	NA	44	SDLC	57	Blank
6	n	19	n	32	*	45	14	58	6
7	y	20	n	33	*	46	NA	59	0
8	n	21	UNEQIP	34	*	47	Blank	60	Blank
9	y	22	0x2	35	*	48	Blank	61	sdl
10	n	23	2	36	NA	49	IOP	62	t082
11	IOP	24	11	37	Blank	50	0	63	Blank
12	HSDC	25	Blank	38	Blank	51	NA	64	21
13	6	26	Blank	39	SDL	52	Blank	65	0x5517
								66	Blank

NOTE:
NA means there is no field to verify
* Equipment floor location



RECENT CHANGE ucb FOR SDLC 12 AND SDL 24

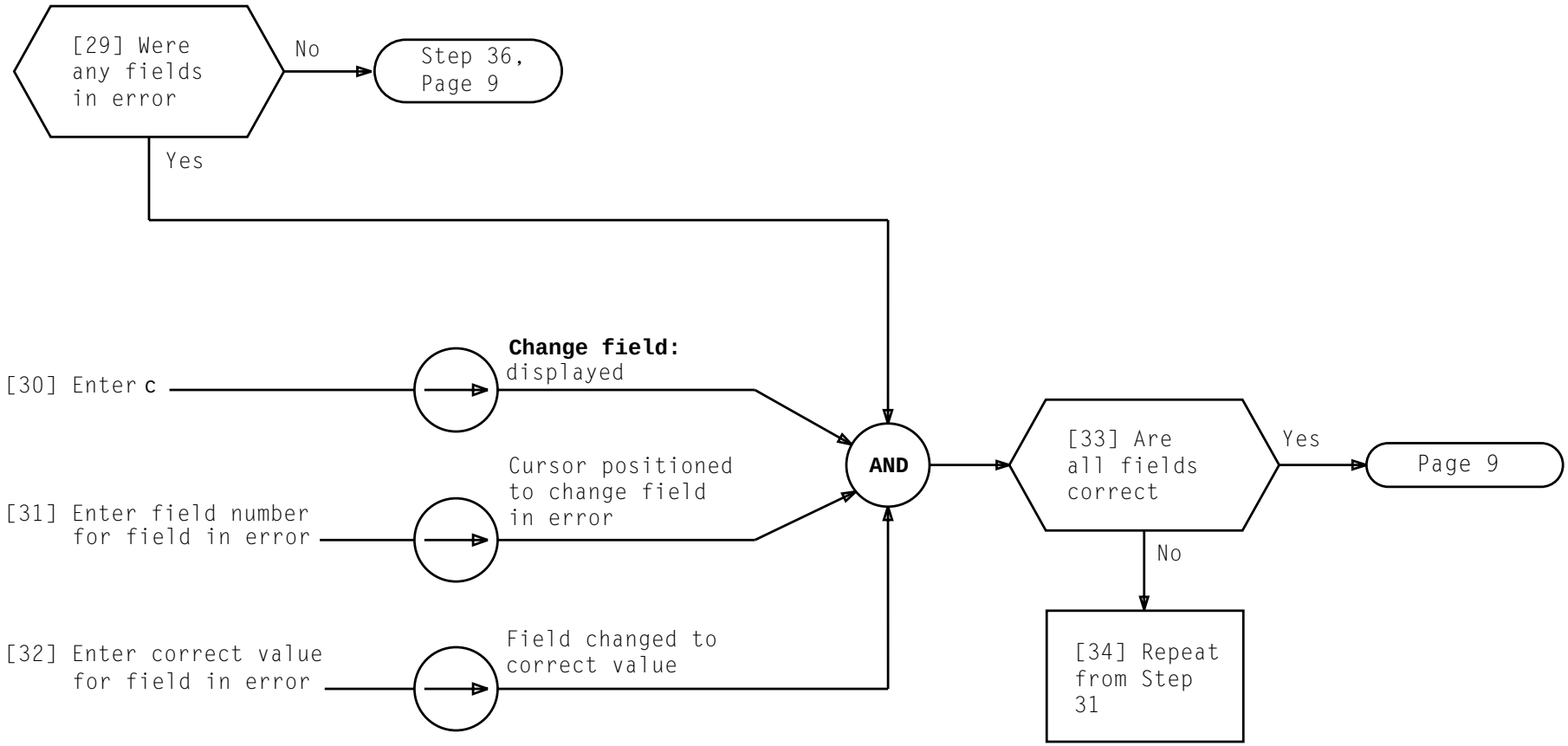


NOTE 2
Screen number must be entered to see fields on that screen (2 for screen 2, 3 for screen 3, and 4 for screen 4)

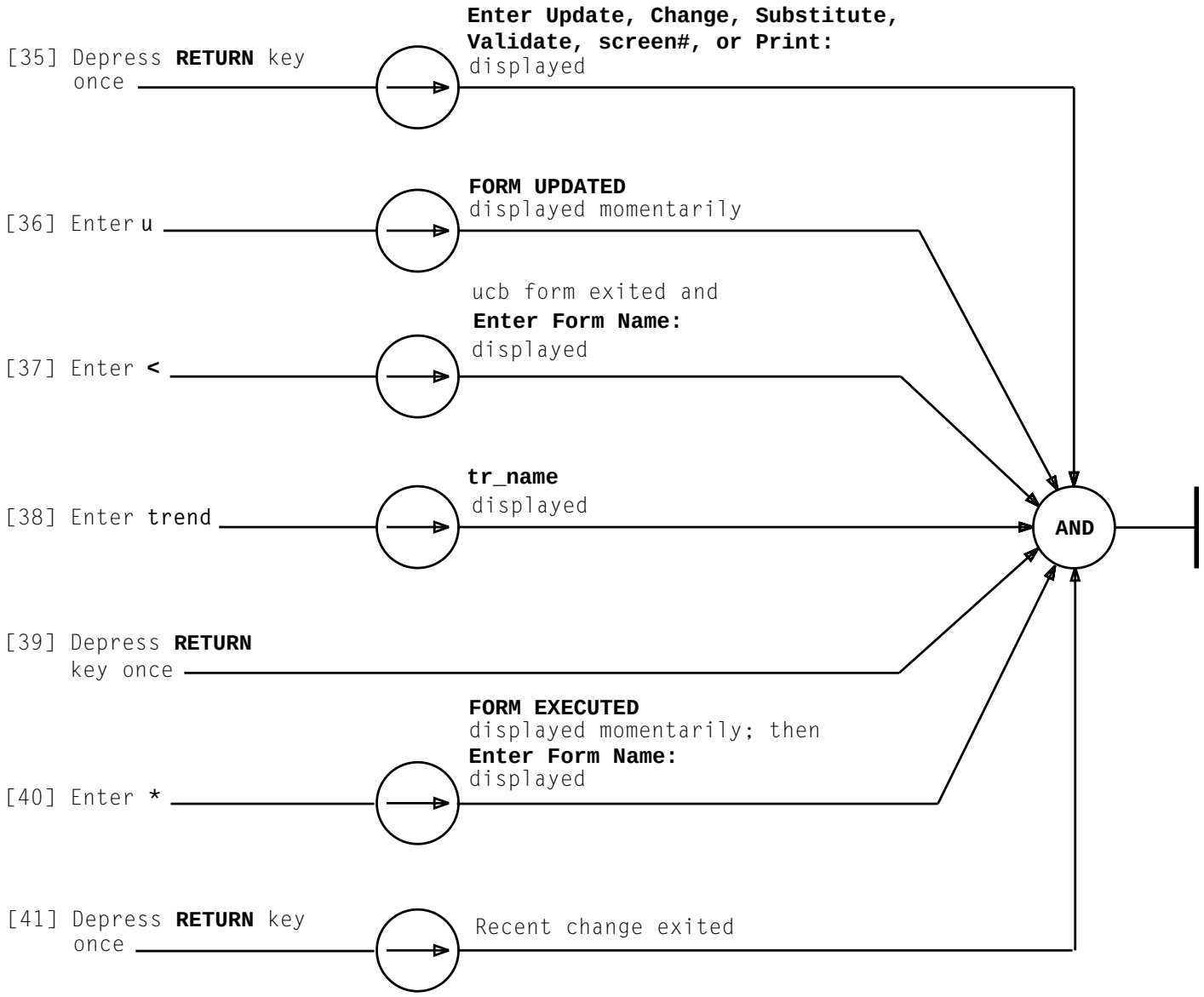
RECENT CHANGE ucb FOR SDLC 12 AND SDL 24

TABLE B (NOTE)									
FIELD	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**	**FIELD**	**VALUE**
1	Blank	14	y	27	Blank	40	Blank	53	Blank
2	Blank	15	y	28	Blank	41	NA	54	Blank
3	SDL	16	n	29	Blank	42	Blank	55	Blank
4	24	17	Blank	30	pu/dui	43	Blank	56	ioperr
5	NEVER	18	n	31	NA	44	SDL	57	odadlv12
6	n	19	n	32	*	45	25	58	6
7	y	20	n	33	*	46	NA	59	2
8	n	21	UNEQIP	34	*	47	Blank	60	Blank
9	y	22	Blank	35	*	48	Blank	61	sdl
10	n	23	2	36	NA	49	SDLC	62	Blank
11	IOP	24	11	37	Blank	50	12	63	Blank
12	HSD	25	Blank	38	Blank	51	NA	64	Blank
13	2	26	Blank	39	Blank	52	Blank	65	Blank
								66	Blank

NOTE:
NA means there is no field to verify
* Equipment floor location



RECENT CHANGE ucb FOR SDLC 12 AND SDL 24



RECENT CHANGE ucb FOR SDLC 12 AND SDL 24

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
• IXL-001		DLP-515		DLP-550		• DLP-585					
NTP-002		DLP-516		DLP-551		• DLP-586					
• NTP-003		DLP-517		DLP-552		• DLP-587					
• NTP-004		DLP-518		DLP-553		• DLP-588					
NTP-005		DLP-519		DLP-554		• DLP-589					
• NTP-006		DLP-520		DLP-555		• DLP-590					
• NTP-007		DLP-521		• DLP-556		• DLP-591					
• NTP-008		DLP-522		DLP-557		• DLP-592					
NTP-009		DLP-523		• DLP-558		• DLP-593					
• NTP-010		DLP-524		• DLP-559		• DLP-594					
• NTP-011		DLP-525		• DLP-560		• DLP-595					
• NTP-012		DLP-526		• DLP-561		• CKL-891					
• NTP-013		DLP-527		• DLP-562		TNG-893					
• NTP-014		DLP-528		• DLP-563		DPL-895					
• NTP-015		DLP-529		• DLP-564							
• NTP-016		• DLP-530		• DLP-565							
• NTP-017		DLP-531		• DLP-566							
• NTP-018		DLP-532		• DLP-567							
• NTP-019		DLP-533		• DLP-568							
• NTP-020		DLP-534		• DLP-569							
DLP-500		DLP-535		• DLP-570							
DLP-501		DLP-536		• DLP-571							
DLP-502		DLP-537		• DLP-572							
• DLP-503		DLP-538		• DLP-573							
DLP-504		DLP-539		• DLP-574							
DLP-505		DLP-540		• DLP-575							
DLP-506		DLP-541		• DLP-576							
DLP-507		• DLP-542		• DLP-577							
DLP-508		DLP-543		• DLP-578							
• DLP-509		DLP-544		• DLP-579							
DLP-510		DLP-545		• DLP-580							
DLP-511		DLP-546		• DLP-581							
DLP-512		DLP-547		• DLP-582							
DLP-513		DLP-548		• DLP-583							
DLP-514		• DLP-549		• DLP-584							

▪ REVISED OR ADDED ITEM ▪ ☐ CANCELED ITEM Revised

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