

Task Oriented Practice  
(TOP)

4ESS™ SWITCH

1B PROCESSOR

4E18 TO 4E19 GENERIC RETROFIT

*TOP Comments Hot Line:*

*Monday through Friday*

*8:00 a.m. - 4:00 p.m. Eastern Time*

*Call: 1-800-334-0404*

*Or FAX to: 1-910-727-3043*

Developed by  
AT&T Network Systems Customer Education & Training

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

Acceptance . . . . . NTP-002

**NOTE:** The tasks listed below for 4E18 to 4E19 Generic Retrofit, must be performed at the interval with respect to retrofit date

**4E18 TO 4E19 GENERIC RETROFIT (AT&T OFFICE ONLY)**

**-2 WEEK TASK:**

Perform MCC Tests . . . . . NTP-003

**-1 WEEK TASKS:**

Evaluate 1B Processor – Support to Installer (INST) . . . . . NTP-011

**-3 DAY TASKS:**

Arrange for AMA Data Collection and Check SCANS for Generic Overwrites . . . . . NTP-004

**-2 DAY TASK:**

**NOTE:** NTP-006 should not be run concurrently with NTP-012 and NTP-014

Test Retrofit Process . . . . . NTP-006

**NOTE:** Run NTP-012 and NTP-014 48 hours prior to beginning NTP-008

Perform 1B Processor to 4ESS™ Switch Periphery Limited Access Test – Support to Installer (INST) . . . . . NTP-012

Perform 1B Processor Stream Exerciser Limited Access Tests – Support to Installer (INST) . . . . . NTP-014

**EVENING OF RETROFIT:**

Prepare for Retrofit . . . . . NTP-007

**RETROFIT:**

Perform Generic Retrofit . . . . . NTP-008

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

**4E18 TO 4E19 GENERIC RETROFIT (AT&T OFFICE ONLY) (Contd)**

**+2 DAY TASK (MONDAY):**

Perform RUAS Cutover to Post-Config File . . . . . NTP-005

**BACKOUT:**

*CAUTION: The following procedure must only be used if 1B Processor has not been committed to,  
but UPDATE file has been renamed to NORMAL file*

Backout to 1A Processor After UPD:COMMIT;UPDFILE Message Entered . . . . . NTP-009

*CAUTION: The following procedure must only be used if 1B Processor has been committed to,  
and backout is required*

Backout to 1A Processor After Committing to 1B Processor . . . . . NTP-010

Perform RUAS Backout to Pre-Config File Procedure . . . . . NTP-017

**4E18 TO 4E19 GENERIC RETROFIT (LEC OFFICE ONLY)**

**-2 WEEK TASK:**

Perform MCC Tests . . . . . NTP-003

**-1 WEEK TASK:**

Evaluate 1B Processor - Support to Installer (INST) . . . . . NTP-011

**-3 DAY TASK:**

Arrange for AMA Data Collection and Check SCANS for Generic Overwrites . . . . . NTP-004

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

**4E18 TO 4E19 GENERIC RETROFIT (LEC OFFICE ONLY) (Contd)**

**-2 DAY TASK:**

**NOTE:** NTP-006 should not be run concurrently with NTP-012 and NTP-014

Test Retrofit Process . . . . . NTP-006

**NOTE:** Run NTP-012 and NTP-014 48 Hours Prior to Beginning NTP-008

Perform 1B Processor to 4ESS™ Switch Periphery Limited Access Test – Support to Installer (INST) . . . . . NTP-012

Perform 1B Processor Stream Exerciser Limited Access Tests – Support to Installer (INST) . . . . . NTP-014

**EVENING OF RETROFIT:**

Prepare for Retrofit. . . . . NTP-007

**RETROFIT:**

Perform Generic Retrofit. . . . . NTP-016

**BACKOUT:**

*CAUTION: The following procedure must only be used if 1B Processor has not been committed to,  
but UPDATE file has been renamed to NORMAL file*

Backout to 1A Processor After UPD:COMMIT;UPDFILE Message Entered . . . . . NTP-009

*CAUTION: The following procedure must only be used if 1B Processor has been committed to,  
and backout is required*

Backout to 1A Processor After Committing to 1B Processor . . . . . NTP-010

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

**ACCEPTANCE**

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

			DATE	TIME	SIGNATURE
1	At MTC Terminal, Enter Message OP:00SUNITS! To Obtain List of Units That Are Out of Service	-			
2	Enter Message RST:a b! (a = Unit Type, b = Member Number) To Restore Any 1A Processor Units That Are Out of Service	-			
3	Wait for Response RST:a b COMPLETED for 1A Processor Units That Were Out of Service	-			
4	Perform Master Control Console Lamp Tests	DLP-500			
5	At MTC Terminal, Enter Message DGN:MCC 0!	-			
6	Wait for Response DGN:MCC 0 COMPLETED ATP	-			
7	Perform MCC Demand Diagnostic Phase 91 on MCC Processor Display Panel and Program Request Panel				
	<b>Note:</b> Due to the complexity of these tests, each procedure should be studied thoroughly prior to beginning. Once started, each test should be performed completely without delay				
	1. Run Phase 91 Program Unit 1 System Display Tests	DLP-501			
	2. Run Phase 91 Program Unit 2 Manual Interrupt Program Request Tests	DLP-502			
	3. Run Phase 91 Program Unit 3 Override Control Tests	DLP-503			
	4. Run Phase 91 Program Unit 4 Update Tests	DLP-504			
	5. Run Phase 91 Program Unit 5 Processor Configuration Sequencer Tests	DLP-505			
6. Run Phase 91 Program Unit 6 Processor Display Tests	DLP-506				
8	Perform MCC Demand Diagnostic Phase 92 on MCC System Status Control Panel				
	<b>Note:</b> Due to the complexity of these tests, each procedure should be studied thoroughly prior to beginning. Once started, each test should be performed completely without delay				
	1. Run Phase 92 Program Unit 1 System Performance Tests	DLP-507			
	2. Run Phase 92 Program Unit 2 System Alarms Tests	DLP-508			

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

			DATE	TIME	SIGNATURE
8 (Contd)	3. Run Phase 92 Program Unit 3 System Status Tests	DLP-509			
	4. Run Phase 92 Program Unit 4 System Control Tests	DLP-510			
	5. Run Phase 92 Program Unit 5 Equipment Status Tests	DLP-511			
	6. Run Phase 92 Program Unit 5A Equipment Status Key Tests	DLP-512			
9	At MTC Terminal, Enter Message RST:MCC 0!	-			
10	Wait for Response RST:MCC 0 COMPLETED	-			
11	PC Program Stores (PSs 0, 2, 4 or PSs 18, 20, 22) Must Be Equipped With <b>FE63</b> Circuit Packs To Perform Items 12 Through 23. If PC Program Stores Contain <b>FE70</b> Circuit Packs, Replace <b>FE70</b> Circuit Packs With <b>FE63</b> Circuit Packs for Following Diagnostics and Subsequent Retrofit Process. If Unable to Replace <b>FE70</b> Circuit Packs, Contact Next Higher Technical Support Group	-			
12	At 1A Processor MCC <b>PROCESSOR DISPLAY</b> Panel, Determine Which CC Is Standby (CC With <b>ACTIVE</b> Lamp Off)	-			
13	Run Standby CC Diagnostic Phase 91 To Test PC Function (Three Combinations)	DLP-513			
14	Remove Power From Standby CC Using Power Switch	DLP-570			
15	Run Standby CC Power Down Phase 92 Tests (DGN:CC a:PH 92!)	DLP-571			
16	Restore Power to Standby CC Using Power Switch	DLP-572			
17	Restore Standby CC to Service (RST:CC a!)	-			
18	Switch CCs To Make Other CC Standby (SW:CC!)	-			
19	Run CC Diagnostic Phase 91 To Test PC Function (Three Combinations)	DLP-513			
20	Remove Power From Standby CC Using Power Switch	DLP-570			
21	Run Standby CC Power Down Phase 92 Tests (DGN:CC a:PH 92!)	DLP-571			
22	Restore Power to Standby CC Using Power Switch	DLP-572			
23	Restore Standby CC to Service (RST:CC a!)	-			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
24	Perform MCC Demand Diagnostic Phase 94 on MCC Manual Recovery Circuitry				
	<b>Note:</b> Due to complexity of these tests, each procedure should be studied thoroughly prior to beginning. Once started, each test should be performed without delay				
	1. Run Phase 94 Soft A-Level Tests	DLP-515			
	2. Run Phase 94 Hard A-Level Tests	DLP-516			
	3. Run Phase 94 PC B-Level Tests	DLP-517			
	4. Switch CCs (SW:CC!)	-			
	5. Run Phase 94 Soft A-Level Tests	DLP-515			
	6. Run Phase 94 Hard A-Level Tests	DLP-516			
	7. Run Phase 94 PC B-Level Tests	DLP-517			
25	Test Processor Manual Recovery MCC Controls	DLP-518			
26	Switch CCs (SW:CC!)	-			
27	Test Processor Manual Recovery MCC Controls Using Other CC	DLP-518			

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

			DATE	TIME	SIGNATURE
1	Notify AMA Control Center and/or Revenue Accounting Office (RAO), Whichever Processes AMA Data, of Expected Date and Time of Generic Retrofit or ODA Update	-			
2	If AMA Data Is Written to Tape				
	1. Notify Billing Center That an AMA Tape Will Be Written Just Prior to Generic Retrofit or ODA Update, Plus Regularly Scheduled AMA Tape	-			
	2. If Necessary, Arrange for Special Handling of These Tapes	-			
	3. If Necessary, Obtain AMA Tapes From Billing Center	-			
3	If Teleprocessing Is Used for AMA Data				
	1. Arrange for Special Teleprocessing Session To Be Completed Just Prior To Performing Generic Retrofit or ODA Update	-			
	2. If Special Teleprocessing Session Is Not Possible, Arrange for Processing AMA Tape Which Will Be Written Just Prior to Generic Retrofit or ODA Update	-			
	3. If Necessary, Obtain AMA Tapes From Billing Center	-			
	<b>Note:</b> AMA data should be saved via tape or teleprocessing to provide AMA processing centers with a known starting point for 4E17 data. Processing centers will verify the new AMA data on first business day following retrofit or update, so that any problems with new data can be quickly identified and resolved				
4	Check BWMs for Current 4E19 Generic Overwrites and if 4E19 Generic Overwrites Are Required, Save Per Local Practice. These Overwrites Will Be Inserted Into System After Office Is Running Successfully on 4E19 Generic	-			

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

1	Determine Phone Number for Office Under Test/Being Retrofitted and Record for Later Use	—
2	Determine Phone Number for AT&T - Bell Laboratories Field Support and Record for Later Use	—
3	Determine Phone Number for Mini-Maintenance Operation Center (MMOC) and Record for Later Use	—
4	Set Up Conference Call With NESAC (1-708-393-5502), AT&T - Bell Laboratories Field Support, and MMOC	—
	<p><b>NOTES:</b> 1. MMOC will set up conference call to DMAC (1-800-232-6717) and PECC diagnostic center (1-800-225-4672)</p> <p>2. At appropriate time, MMOC will notify DMAC to perform RUAS cutover</p>	
5	Request MMOC To Perform RUAS Cutover to Post-Config File Procedure. Wait for MMOC To Complete Cutover Before Proceeding	—
6	Verify RUAS Cutover	DLP-654
7	Request NESAC To Verify RUAS Cutover	DLP-654
8	Request AT&T - Bell Laboratories Field Support To Verify RUAS Cutover	DLP-654
9	Request MMOC To End Its Conference Connections	—
10	End Conference Call With NESAC, AT&T - Bell Laboratories Field Support, and MMOC	—

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

			DATE	TIME	SIGNATURE
1	Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required	-			
2	If AT&T Office Is Being Retrofitted, Contact Office Being Retrofitted and Verify That Conflicting Activities Are Not Scheduled	-			
3	If Current Office Generic Has Not Been Written to Tape (800 BPI), Write Backup Generic Tape				
	A. If Data Base Is To Be Loaded by Tape	DLP-527			
	B. If Data Base Has Been Loaded by Off-Line Processor	DLP-564			
4	At 3B MCRT, if Screen Displays EAI Page, Depress <b>NORM/DISP (PF2)</b> Key	-			
5	Enter 101 in Command Mode To Obtain Display Page 101	-			
6	Depress <b>CMD/MSG (PF3)</b> Key To Move Cursor to Bottom of Screen	-			
7	If Data Base Has Been Loaded by Off-Line Processor, At 3B MCRT, Verify Data Base To Ensure Generic Is 4E<19>5x.yy Ra and Proper Office Name Is Listed (OP:APLOAD UPD!)	DLP-565			
8	If Data Base Is To Be Loaded by Tape, Perform Items 9 Through 30; Otherwise, Go to Item 31	-			
9	Obtain Following New 1600 BPI Tapes Associated With Retrofit <ul style="list-style-type: none"> <li>• Generic Tape</li> <li>• ODA</li> <li>• NWM</li> </ul>	-			
10	If Test Retrofit Process Is Expected To Last Through Midnight				
	1. At 3B MCRT, Enter Message <b>INH:DMQ;SRC REX!</b> To Inhibit REX	-			
	2. At MTC Channel, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX	-			
11	Mount New Generic and ODA Tapes for Disk Update				
	A. If Two Idle Tape Units Are Available for Update				
	1. Verify That Tape Identification Data Is Correct for 4E19 Generic Tape (Step 9)	-			

**TEST RETROFIT PROCESS**

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

			DATE	TIME	SIGNATURE
11 (Contd)	2. Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E19 ODA Tape (Step 9)	-			
	3. Mount Generic Tape on MT 0 and ODA Tape on MT 1	DLP-531			
	4. At MCRT, Enter Message VER:UPDATE:TAPE,MT 0! and Record Generic Identification Number (4E<19>5x.yy Ra) for Later Use in LOAD Message	DLP-532			
	5. Enter Message VER:UPDATE:TAPE,MT 1! and Record BASE and CONTROL Numbers for Later Use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office	DLP-532			
	B. If Only One Tape Unit Is Available for Update				
	1. Verify That Tape Identification Data Is Correct for 4E19 Generic Tape (Step 9)	-			
	2. At Idle Tape Unit, Mount Generic Tape	DLP-531			
	3. At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT a! (a = Tape Unit Number) and Record Generic Identification Number (4E<19>5x.yy Ra) for Later Use	DLP-532			
12	Load New Generic on Disk (LOAD:UPDATE:GEN "4E<19>5x.yy Ra",MT a!)	DLP-533			
	<i>Caution: When GENERIC COMPLETE - READY FOR ODA output message is received, update program enters 20-minute wait mode. Input message to process ODA tape must be entered within this time limit or test will be terminated and complete restart will be required</i>				
13	If Loading of Generic Tape Was Successful, Go to Item 14. If It Was Aborted, Perform Items 21 Through 23	-			
14	If ODA Tape Was Not Mounted in Item 10, Perform Items 15 Through 18; Otherwise, Go to Item 19	-			
15	At Tape Unit Containing Generic Tape, Demount Tape After Tape Rewinds	DLP-534			
16	Verify That Office Identification Code (Base and Control) and Generic Issue Are Correct for 4E19 ODA Tape (Item 9)	-			
17	At Tape Unit Just Idled, Mount ODA Tape	DLP-531			

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

			DATE	TIME	SIGNATURE
18	At 3B MCRT, Enter Message VER:UPDATE:TAPE,MT a! (a = Tape Unit Number) and Record BASE and CONTROL Numbers for Later Use in LOAD Message. Ensure That BASE and CONTROL Numbers Are Correct for This Office	DLP-532			
19	Load New ODA on Disk (LOAD:UPDATE:CONT "aaaabb",MT c!)	DLP-535			
	<i>Caution: When ODA COMPLETE - READY FOR NWM output message is received, update program enters 20-minute wait mode. Input message to process network management tape must be entered within this time limit or test will be terminated and complete restart will be required</i>				
20	If ODA Tape Load Was Successful, Go to Item 24. If It Was Aborted, Perform Items 21 Through 23	-			
21	At Tape Unit Containing Tape That Failed, Demount Tape After Tape Rewinds	DLP-534			
22	At 3B MCRT, Enter Message OP:OOS! and Ensure That All Units Are in Service	DLP-596			
23	Repeat From Item 11 Using Another Copy of Tape That Failed	-			
24	Demount Tape on Idle Tape Unit	DLP-534			
25	Mount New Network Management Tape on Tape Unit and Verify That Tape Identification Is Correct for 4E19 Update (VER:UPDATE:TAPE,MT a! a = Tape Unit Number)	DLP-538			
26	Load New Network Management on Disk and Complete Data Base (LOAD:UPDATE:CONT NWM,MT a!)	DLP-536			
	<b>Notes:</b> 1. After receiving MAPPING DYNAMIC DATA FROM NORMAL FILE output message, WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR may be received. Mapping dynamic data cannot cross 15-minute time boundary due to long-term storage data mutilation. System will automatically map dynamic data when in proper window 2. After receiving DATABASE COMPLETE - READY FOR GENERIC RETROFIT output message, loading process is complete				
27	If Loading of Network Management Tape Was Successful, Go to Item 31. If It Was Aborted, Perform Items 28 Through 30	-			

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

			DATE	TIME	SIGNATURE
28	Demount Network Management Tape From Tape Unit	DLP-534			
29	At 3B MCRT, Enter Message OP:00S! and Ensure That All Units Are in Service	DLP-596			
30	Repeat From Item 11	-			
31	At 3B MCRT, Enter Message COPY:LSNC ALL! To Rebuild Large Scale Nailup Connections and Update TOSL in UPDATE File; Ensure REPT LSNC: LSNC MAPPING COMPLETE Message Is Received	-			
32	After VER message has been entered (Item 33) and if no critical overwrites are required (Item 34), procedure can be continued at Item 35 without waiting for verify to complete. Printout must be observed periodically for errors	-			
33	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFILE UPD!)	DLP-537			
34	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-539			
35	Compare Critical Data in New ODA With Data in Active System by Performing Items 36 and 37	-			
36	Run Cross Translations Compare Program	DLP-540			
37	Analyze, With Help From Support Organization, Results of Compare for Unexpected Mismatches	-			
38	If Compare Did Not Find Unexpected Mismatches, Go to Item 40	-			
39	If Compare Found Unexpected Mismatches Between New ODA and Data in Active System, After Consulting with Appropriate Support Organization, Select Option A or B and Proceed as Directed				
	A. If Mismatches Can Be Corrected Within the Hour, Determine Additional Overwrites To Be Inserted and Repeat From Item 34	-			
	B. If It Is Determined That Corrections Cannot Be Made Within the Hour, Await Further Instructions Before Proceeding	-			
40	If AT&T Office Is Being Retrofitted, Obtain Password for tccadm login for Office Being Retrofitted from PECC Diagnostic Center	-			

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

			DATE	TIME	SIGNATURE
41	Compare MT Values of 1B Processor Units				
	A. For AT&T Office	DLP-658			
	B. For LEC Office	DLP-662			
42	If Compare Found Discrepancies, Perform Critical Overwrites in Update File Using Information Recorded in Item 41	DLP-539			
43	If Data Base Was Loaded by Tape, Perform Items 44 Through 47; Otherwise, Go to Item 48	-			
44	Demount Tape(s) From Tape Unit(s)	DLP-534			
45	If REX Was Inhibited in Item 9				
	1. At MTC Channel, Enter Message <b>ALW:MACLI,CLASS MTCE!</b> To Allow REX	-			
	2. At 3B MCRT, Enter Message <b>ALW:DMQ;SRC REX!</b> To Allow REX	-			
46	Obtain List of All Trunks Added During Quiet Period From TOC. These Trunks Will Be Set to CAD.DSA State During "Prepare for Update" Procedure	-			
47	End of Procedure	-			
48	Obtain List of All Trunks Added Since Off-Line Processor Recent Change Update (if Any) From NSC Provisioning. These Trunks Will Be Set to CAD.DSA State During "Prepare for Update" Procedure	-			
49	At IPUB 0 Power Switch in One DIF/DIF-E1 Frame, Rotate <b>ROS/OFF</b> Switch to <b>ROS</b> Position; Ensure <b>OS</b> Lamp Is On	-			
50	Since 1B Processor Is More Sensitive to DIF PUB Problems, Ensure TG1, TG2, and TG3 Circuit Packs Associated With IPUB 0 at Level 80 in DIF/DIF-E1 Frame (Item 49) Are Fully Seated	-			
51	At IPUB 0 Power Switch (Item 49), Rotate <b>ROS/OFF</b> Switch to Normal Position; Ensure <b>OS</b> Lamp Is Off	-			
	(Continued on Page 6)				

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

			DATE	TIME	SIGNATURE
52	At IPUB 1 Power Switch in One DIF/DIF-E1 Frame, Rotate <b>ROS/OFF</b> Switch to <b>ROS</b> Position; Ensure <b>OS</b> Lamp Is On	-			
53	Ensure TG1, TG2, and TG3 Circuit Packs Associated With IPUB 1 at Level 80 in DIF/DIF-E1 Frame (Item 52) Are Fully Seated	-			
54	At IPUB 1 Power Switch (Item 52), Rotate <b>ROS/OFF</b> Switch to Normal Position; Ensure <b>OS</b> Lamp Is Off	-			
55	Repeat Items 49 Through 54 for Each Equipped DIF/DIF-E1 Frame	-			

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

			DATE	TIME	SIGNATURE
	<b>NOTE:</b> Installer is responsible to perform Items 5 through 9				
1	<b>Place Check Mark Beside Each Item or Subitem When Completed, or If Not Required</b>	—			
2	Obtain Most Recent Records of Office Performance Data; Organize for Orderly Post Update Comparison	—			
3	At 1A MTC Terminal, Enter Message <b>OP:OOSUNITS!</b> and Ensure That Required Units Are in Service	DLP-526			
4	At 3B MCRT, Enter Message <b>OP:OOS!</b> and Ensure That Required 3B Computer Units Are in Service	DLP-596			
5	Allow Utility Interfering Actions	DLP-585			
6	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	DLP-574			
7	Enable 1B Utility Paging Administration (UPAD) Processes ( <b>ALW:UPAD!</b> )	DLP-575			
8	Verify All 1B Processor Units Are In-Service ( <b>OP:OOSUNITS!</b> )	DLP-577			
9	At 1B Processor Utility System Workstation, Exit Output Message Window (Input Message Window Must Remain Open for Monitoring)	—			
10	At 1A Processor MCC <b>SYSTEM STATUS</b> Panel, Depress <b>RECENT CHANGE — RESTRICT RECENT CHANGES</b> Key (Lamp ON)	—			
	<b>NOTE:</b> For AT&T offices, Items 11 through 17 are to be performed on-site				
	<i>Caution: DO NOT enter COPY:APPFILE NORM message after ODA tape has been written</i>				
11	Write Backup ODA Tape (800 BPI Tape)	DLP-541			
12	If Office Is Covered by Operation Support System, Request Appropriate Support Organization To Convert Recent Change Data Bases for Monitor Channel and Operation Support System	—			
	<b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour				
13	Write Backup Long-Term Storage (LTS) Tape	DLP-543			

**PREPARE FOR UPDATE**

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

			DATE	TIME	SIGNATURE
14	Notify Network Manager To Obtain Hard Copy of All Network Management Display System (NMDS) PA Pages Since Controls Associated With These Pages Will Be Lost Concurrent With Update	-			
15	Write Backup Traffic and Plant Measurement (TPM) Tape	DLP-544			
16	Write Backup Trunk Out-of-Service List (TOSL) Tape	DLP-545			
17	Save Tapes Just Written Until New Data Base Is Finally Committed	-			
18	Perform Item 18.A or 18.B per Local Practice To Obtain Trunk Subgroup Maintenance Status. Save Printout for Trunk Circuit Recovery Verification After Running on New Generic and/or ODA	-			
	A. Enter Message <b>OP:TSGSTAT;DETL:ALL!</b>	-			
	B. Enter Message <b>OP:TSGSTAT;DETL:TCA a!</b> a = Number for Each Assigned Trunk Control Area	-			
19	Enter Message <b>OP:TANTOTAN!</b> To Obtain Listing of All Active TAN-to-TAN Connections. Save Printout To Verify That Connections Are Still Up After Office Is Running on New Generic and/or ODA	-			
20	Enter Message <b>VER:NAILUP;ALL!</b> To Obtain Listing of All Active Large Scale Nailup Connections. Save Printout To Verify That Connections Are Still Up After Office Is Running on New Generic and/or ODA	-			
21	If LEC Office Is Being Updated and Is CAMA Equipped, on MCC <b>SYSTEM STATUS</b> Panel, Depress <b>SPECIAL CAMA RECORD</b> Key and Record CAMA Data From TTY Printout	-			
22	1A Processor PC Program Stores (PSs 0, 2, 4 or PSs 18, 20, 22) Must Be Equipped With <b>FE63</b> Circuit Packs To Perform Items 23 Through 27. If PC Program Stores Contain <b>FE70</b> Circuit Packs, Replace <b>FE70</b> Circuit Packs With <b>FE63</b> Circuit Packs for Following Diagnostics and Subsequent Retrofit Process. If Unable to Replace <b>FE70</b> Circuit Packs, Contact Next Higher Technical Support Group	-			
23	Run CC Diagnostic Phase 91 To Test PC Function (Three Combinations)	DLP-513			
24	Restore Standby CC to Service ( <b>RST:CC a!</b> )	-			

**PREPARE FOR UPDATE**

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

			DATE	TIME	SIGNATURE
25	Switch CCs (SW:CC!)	-			
26	Run CC Diagnostic Phase 91 To Test PC Function (Three Combinations)	DLP-513			
27	Restore Standby CC to Service (RST:CC a!)	-			
28	If Office Is Set Up for AMA Recording, Save Primary IC and/or OC AMA Data and/or ICDR. This Must Be Scheduled To Be Completed Within 2 Hours Prior to Update				
	A. For Offices Which Write AMA Tapes	DLP-546			
	B. For Offices Which Do AMA Teleprocessing				
	1. At MCRT ROP, Review Printouts To Determine If AMA Teleprocessing Session Is in Progress or If AMA Session Has Completed Within Past 2 Hours	-			
	2. If Session Is in Progress, Wait Until Session Terminates	-			
	3. Ensure That NORMAL TERMINATION – NO MORE DATA Message Was Received on Session Summary Printout for Each AMA Stream Set to Teleprocessing	-			
	4. If AMA Session Has Not Completed Within Last 2 Hours, Perform Items 28.B.5 Through 28.B.8; Otherwise, Go to Item 29	-			
	5. At MCRT, Enter Message OP:AMA;CONTROLFILE! and Save Printout for Later Reference in Setting Control File Back to Normal	-			
	6. Enter Message SET:AMA;CONTROL;a:OPTION TAPE [,TAPEID "b"]! (a = IC or OC and b = Tape Data Set ID, As Required) for Each Stream Set to Teleprocessing	-			
	7. Save Primary AMA Data on Tape	DLP-546			
	8. Enter Message SET:AMA;CONTROL;a:OPTION TP! (a = IC or OC) To Set AMA Control File Back to Teleprocessing	-			
	C. For Offices Which Do AMA Constant Polling: Notify National AMA Control Center	-			
	D. For Offices Which Do ICDR: Notify AMA Center	-			

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

			DATE	TIME	SIGNATURE
28 (Contd)	E. For Offices With CDRP				
	1. At 3B MCRT, Enter Message <b>OP:NODES;SIN!</b>	-			
	2. Using Printout, Determine What State Nodes Are In	-			
	3. If Nodes Are Unequipped, Continue at Item 29. If Nodes Are Equipped, Notify NAMAC at 1-602-844-6406 and Inform Them That This Office Is Retrofitting to 4E19 Release x (Where x Is Release Number of 4E19 Generic Being Loaded) and Time Retrofit Is Scheduled	-			
29	Request Appropriate Support Organization (NSC Provisioning or TOC) To Set All Trunks That Have Been Added During Quiet Period or Since Off-Line Processor Recent Change Update (if any) to CAD.DSA State Before Performing Update	-			
30	Obtain 4E19 Informational BWM Concerning Incident Data Set Overwrites From SCANS. Overwrites Are To Be Applied After System Is Running on 4E19 Generic	-			
31	If CNI Ring Is Equipped in Office, Perform Items 32 Through 39; Otherwise, Go to Item 40	-			
32	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter <b>1106</b> in Command Mode To Obtain Display Page 1106	-			
33	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Node	-			
34	Enter <b>1107</b> in Command Mode To Obtain Display Page 1107	-			
35	Ensure One Direct Link Node Is Assigned <b>1WAY IN</b> and One Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes Must Have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If Four Direct Link Nodes Are Listed, <b>HDWR STATE</b> Must Be <b>ACT</b> and <b>APPL STATE</b> Must Be <b>STBY</b> for Direct Link Nodes Not Assigned <b>1WAY IN</b> or <b>1WAY OUT</b>	-			
36	Enter <b>1108</b> in Command Mode To Obtain Display Page 1108	-			
37	Ensure <b>LINK STATE</b> Is <b>AVL/IS</b> and <b>NODE STATE</b> Is <b>ACT</b> for Each Equipped Signaling Link	-			
38	Ensure In Progress CNI Ring Growth Has Been Completed. If Growth Has Not Been Completed, Contact Appropriate Support Organization To Determine if Update Can Be Performed	-			

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

			DATE	TIME	SIGNATURE
39	Verify No Audits Inhibited. If Audits Are Inhibited, Take Corrective Action As Determined by Appropriate Support Organization	DLP-567			
40	At MTC Terminal, Enter Message <b>OP:SVCSTAT!</b> and Save Printout for Later Use After Running on New Generic and/or ODA	-			
41	At 1A Processor MCC <b>SYSTEM ALARMS</b> Panel, Depress <b>SERVICE DEGRADING FAILURE</b> Key and Verify There Is No Service-Degrading Condition. If There Is, Contact Next Higher Technical Support Group	-			
42	Record Number of SAM and IBAM Matchers That Will Be Set Up for Update				
	A. If At&T Office Is Being Retrofitted, Review /uprog/1b/1Bboot.doc File Stored on RUAS Server for SAM and IBAM Matcher Information	-			
	B. If LEC Office Is Being Retrofitted, Review \$HOME/bootscrip/1Bboot.doc File for SAM and IBAM Matcher Information	-			
43	If AT&T Office Is Being Retrofitted, Request Local Administrator at TCC To Set Background to Black for 1B MCC, 1A MCC, and 3B MCRT Windows on RUAS Workstation To Be Used for Retrofit	-			
44	At Indicator/Remote Control Unit, Ensure <b>ACT PROC ALARM</b> Is Set to <b>1A</b>	-			

**PREPARE FOR UPDATE**

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

		RESPONSIBILITY	
	<b>NOTES:</b> 1. This procedure should not be performed until 2 hours before scheduled boot time 2. 1B Processor utility system workstation must be logged on before performing this procedure 3. AT&T 190-422-319 can be used to become familiar with TNM process 4. TNM communication for Autosequencing to office must be set up before performing this procedure [DLP-653] 5. In Responsibility column, TCC is Technology Control Center, OSWF is on-site workforce - office technician, and INST is installer		
1	<b>Place Check Mark Beside Item or Subitem When Completed, or If Not Required</b>	TCC/OSWF	—
2	Before Starting, Review and Become Familiar With DLP-553. At Least Two Technicians Locally Will Be Required To Assist in This Procedure	TCC/OSWF	—
3	Ensure Office Communication Between MOC Area, API Frame Area, and Incharge Is Operational. All Areas Must Be Conferenced Together To Avoid Confusion When Instructions Are Given. Ensure All Organizations Are Using Same Dated Issue of This Procedure	TCC/OSWF	—
4	Remove DLP-661 From This TOP Volume and Place Where Easily Accessible if Backout Is Required. This DLP Can Be Used For Reference to Determine What Backout Procedure To Use if Problems Occur While Performing Generic Retrofit Procedure	TCC/OSWF	—
5	At 1A MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX	TCC	—
6	Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary; Save Printout in a File for Trunk Circuit Recovery Verification	TCC	—
7	Enter Message <b>OP:00SUNITS!</b> and Ensure That Required Units Are in Service	TCC	DLP-526
8	Ensure Two PC Program Stores Are Configured to K-Code 20 ( <b>OP:PSSTATUS!</b> )	TCC	DLP-548
9	At 3B MCRT, Enter Message <b>INH:DMQ;SRC REX!</b> To Inhibit REX	TCC	—
10	Enter Message <b>OP:00S!</b> and Ensure That Required 3B Computer Units Are in Service	TCC	DLP-596
11	Verify Data Base To Ensure That Generic Is <b>4E&lt;19&gt;5x.yy Ra</b> and Proper Office Is Listed ( <b>OP:APLOAD UPD!</b> )	TCC	DLP-549
12	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	TCC	DLP-539
	<b>NOTE:</b> If schedules that are entered by <b>SCHED:MEAS</b> input message are to be retained for update, include <b>MEAS</b> option in <b>LOAD</b> message. AT&T offices will use <b>MEAS</b> option		

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

13	Map Dynamic Data From NORMAL File to UPDATE File (LOAD:UPDATE:MAP[,MEAS]!)	TCC	DLP-550
14	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFILE UPD!)	TCC	DLP-537
15	Enter Message COPY:LSNC TOSL! To Update TOSL in UPDATE File; Ensure REPT LSNC: LSNC MAPPING COMPLETE Message Is Received	TCC	-
16	Copy NORMAL File to 1ASAVE File (COPY:APPFILE NORM:DEST 1ASAVE!)	TCC	DLP-592
17	Copy UPDATE File to 1BSAVE File (COPY:APPFILE UPD:DEST 1BSAVE!)	TCC	DLP-593
18	Enter Overwrite To Hold <b>MODIFY RECOVERY ACTIONS</b> Key During Retrofit	TCC	DLP-645
	<b>NOTE:</b> Items 19 through 29 are being performed to set up 1B Processor for retrofit		
19	Allow Utility Interfering Actions	OSWF/INST	DLP-585
20	At 1B Processor Utility System Workstation, in Available cmdtool Window, Enter lab_info. From Output, Determine Data in <b>OFFICE name:</b> Field (Do Not Give Server Name) and Give This Information to Next Higher Technical Support Group (This Information Is To Be Used When Setting Up Matchers)	OSWF/INST	-
21	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	OSWF/INST	DLP-574
22	Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit 1B Processor REX	OSWF/INST	-
23	Enable 1B Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	OSWF/INST	DLP-575
24	Verify All 1B Processor Units Are in Service (OP:OOSUNITS!)	OSWF/INST	DLP-577
25	Remove Standby 1B Processor CC 1 and Ensure MUP 0 Is Active	OSWF/INST	DLP-666
26	At 1B Processor Utility System Workstation, Exit I/O Message Windows. Ensure All IO Daemon Processes From Local and External Users Are Stopped	OSWF/INST	DLP-582
27	Set Up 1B Processor Utility System Workstation To Match and Stop at End of 1B Processor Pump	TCC	DLP-586
28	Prepare 1B Processor MCC Terminal for Manual Recovery	TCC/OSWF	DLP-580
29	At Indicator/Remote Control Unit, Ensure <b>ALL-1A</b> Key and <b>ALL-1B</b> Key Are in <b>OFF</b> Position	OSWF	-
30	At Back of Indicator/Remote Control Unit, Disconnect P-Wire From GCP Trigger Input Terminals	OSWF	-

**PERFORM GENERIC RETROFIT**

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

31	Clear Assigned ADS Function(s)	TCC	DLP-660
32	At 1A MTC Terminal, Enter Message <b>RMV:DUS 0!</b> To Remove DUS 0 From Service; Ensure <b>RMV: DUS 0 COMPLETED</b> Message Is Received	TCC	-
33	Enter Message <b>RMV:TUC a!</b> for Each Equipped TUC To Remove TUC From Service; Ensure <b>RMV: TUC a COMPLETED</b> Message Is Received for Each Message Entered	TCC	-
34	Do NOT Proceed Until Instructed by NOC. Safe Point To Temporarily Stop This Procedure	TCC	-
	<b>NOTE:</b> Data enter by <b>DATA INSERT</b> keys (Item 35) is address of 4E clock. This display will be used to show that 1A Processor is cycling after system comes up on 1B Processor		
35	At 1A Processor MCC <b>SYSTEM DISPLAY</b> Panel, Depress <b>DATA INSERT - 2, 4, 6, 8, and 11</b> Key (Lamp On)	OSWF	-
36	At 1A Processor MCC <b>PROCESSOR CONFIGURATION SEQUENCER</b> Panel, Depress <b>DISABLE AUTO PC</b> Key (Lamp On)	OSWF	-
37	If <b>PC ATTEMPT</b> Lamp Is On, Contact Next Higher Technical Support Group To Determine if Retrofit Can Be Continued. Proceed as Directed	OSWF	-
38	At 1A Processor MCC <b>MANUAL INTERRUPT PROGRAM REQUEST</b> Panel, Depress <b>DIRECT DATA INSERT - 14</b> Key (Lamp On)	OSWF	-
39	At 1A Processor MCC <b>MANUAL INTERRUPT PROGRAM REQUEST</b> Panel, Depress <b>MODIFY RECOVERY ACTIONS</b> Key	OSWF	-
40	At 1A MTC Terminal, Enter Message <b>DUMP:CC,ADR 17776332,L 3!</b> To Dump Status of MCC Keys	TCC	DLP-552
41	Enter Message <b>OP:APSTATUS!</b> and Determine if API 0 Is Standby	TCC	-
42	If API 0 Is Active (Item 41), Enter Message <b>SW:APS 0!</b> To Make API 0 Standby	TCC	-
	<b>NOTE:</b> API 0 will be removed from service when AUB 0 is removed		
43	Enter Message <b>RMV:AUB 0!</b> To Remove AUB 0 From Service; Ensure <b>RMV: AUB 0 COMPLETED</b> Message Is Received	TCC	-
44	Retrofit to 1B Processor	TCC/OSWF	DLP-553
45	If Attempt To Configure to New System Was Successful, Go to Item 54. If Unsuccessful, Perform Items 46 Through 53 Because System Is Returned to 1A Processor	TCC	-
	(Continued on Page 4)		

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

46	<b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E18 OCCURRED.</b> At 1A MTC Terminal, Enter Message UPD:COMMIT;NORMFILE!	TCC	—
47	At 1A Processor MCC <b>MANUAL INTERRUPT PROGRAM REQUEST</b> Panel, Release All Active (Lamps That Are On) <b>DIRECT DATA INSERT</b> Keys [Lamp(s) Off]	OSWF	—
48	At 1A Processor MCC <b>PROCESSOR CONFIGURATION SEQUENCER</b> Panel, if <b>DISABLE AUTO PC</b> Lamp Is On, Depress <b>DISABLE AUTO PC</b> Key (Lamp Off)	OSWF	—
49	At Workstation Where Matchers Were Set Up, in UCD Window, Enter /lab/bin/msave To Save Monitor Store Data; Continue to Next Item Without Waiting for Output Message	TCC	—
50	Stop UCD Matcher Processes	TCC	DLP-614
51	At Workstation Where /lab/bin/msave Command Was Entered, Ensure (msave): Dump Completed Message Was Received	TCC	—
52	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed	TCC	—
53	After Consulting With Support Organization, Select Option A or B and Proceed as Directed		
	A. If Update Is To Be Discontinued, It is End of Procedure. Ensure System Is Operating Properly and Restore All Out-of-Service Equipment	TCC	—
	B. If Update Is To Be Continued, Proceed as Directed by Next Higher Technical Support Group	TCC	—
54	<b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> At Indicator/Remote Control Unit, Operate <b>ACT PROC ALARM</b> Switch to <b>1B</b>	OSWF	—
55	Operate <b>ALL-1B</b> Key Clockwise to <b>OFF</b> Position	OSWF	—
56	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	TCC	DLP-566
57	If System Fails During Items 58 Through 104 and Backout Is Required, Perform NTP-009	TCC/OSWF	—
58	If Loaded Network Management Has Different Issue From Previous Network Management, Look Back in Printout for "OSOR BURST" Page. At Bottom of BURST Page, Ensure That <b>OSOR SCHEDULES</b> Are <b>NOT CHANGED</b> and <b>COUNT DATA BASE</b> Is <b>UPDATED</b>	TCC	—
59	When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock	TCC	DLP-554

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

60	If New Data Base Was Loaded From Tape, Set Up MC 3, MC 4, and/or MC 8 Schedule(s). Enter Message SCHED:TDASMC a;ADD:MSC bb! for Each Schedule To Be Set Up (Contact Next Higher Technical Support Group for a and bb Variables)	TCC	-
61	At 1B MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	TCC	-
62	Enter Message OP:SVCSTAT! and Observe Printout for Any Service Circuits That Are Not New DTMF Transmitters or Receivers or part of Hardware Rearrange Associated With Update. Compare Printout With Printout Saved in NTP-007, Item 40. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Technical Support Group for Resolution	TCC	-
63	If Any Active TAN-to-TAN Connections Existed Prior to Update, at 1B MTC Terminal, Enter Message OP:TANTOTAN! and Verify From Printout That TAN-to-TAN Connections Are Still Established (Compare Printout With Printout Saved in NTP-007, Item 19)	TCC	-
64	If Any Active Large-Scale Nailup Connections Existed Prior to Update, at 1B MTC Terminal, Enter Message VER:NAILUP;ALL! and Verify From Printout That Large-Scale Nailup Connections Are Still Established (Compare Printout With Printout Saved in NTP-007, Item 20)	TCC	-
65	Run Audits 43, 44, and 45 (Items 66 Through 69)	TCC	-
66	Enter Message AUD:NUM (43,44,45)!	TCC	-
67	While Audits Are Running, Continue To Perform Succeeding Items	TCC	-
68	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	TCC	-
69	During Execution of Audit 43, Scan Output Messages Periodically for Abort Message	TCC	-
70	Place TLP Tape in Service	OSWF	DLP-559
71	At 1B MTC Terminal, Restore Out-of-Service Units	TCC	DLP-619
72	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106	TCC	-
73	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Link Node	TCC	-
74	Enter 1107 in Command Mode To Obtain Display Page 1107	TCC	-
	(Continued on Page 6)		

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

75	Ensure One Direct Link Node Is Assigned <b>1WAY IN</b> and One Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes Must Have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If Four Direct Link Nodes Are Listed, <b>HDWR STATE</b> Must be <b>ACT</b> and <b>APPL STATE</b> Must Be <b>STBY</b> for Direct Link Nodes Not Assigned <b>1WAY IN</b> or <b>1WAY OUT</b>	TCC	—
76	Enter 1108 in Command Mode To Obtain Display Page 1108	TCC	—
77	Ensure <b>LINK STATE</b> Is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> Is <b>ACT</b> for Each Equipped Signaling Link	TCC	—
78	At 1B MTC Terminal, Enter Message <b>OP:MSGRCDF,FS!</b> To Clear Recorded Message Area on Disk	TCC	—
79	Request Appropriate Work Centers To Set Up Vacant Code Traps, As Required	TCC	—
80	At 1B MTC Terminal, Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary. Compare Printout With Printout Saved in Item 6	TCC	—
81	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	TCC	—
82	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	TCC	—
83	Notify Network Management Center To Begin Checkout of Network Management System	TCC	DLP-557
84	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	TCC	—
85	Compare Count of Ineffective Machine Attempts With Preupdate Level	TCC	—
86	Determine That Manually Placed Calls and System Placed Calls Complete Successfully	OSWF	—
87	Test Scan and SD Points (Both 1B SSD Units Must Be Inservice)	TCC	DLP-598
88	At 1B MTC Terminal, Enter Message <b>INIT:PUEXINIT!</b>	TCC	—
89	If Security Call Traps Existed Prior to Update, Request Network Management To Enter Security Call Traps per Local Practice	TCC	—
	<b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour		
90	Write Backup Long-Term Storage (LTS) Tape	OSWF	DLP-543

**PERFORM GENERIC RETROFIT**

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

91	At Workstation Where Matchers Were Set Up, Stop UCD Matcher Processes	TCC	DLP-614
92	Load Library Package(s) That Is Required for Normal Local Use (If Not Loaded) Using New 4E19 Office Library Tape	OSWF	DLP-530
93	At 1B Processor MCC Terminal, Enter 108 To Obtain System Status Page (108)	OSWF	—
94	If <b>801 - RESTRICT RC</b> Is Colored Black on White, Enter 801	OSWF	—
95	Reenter Recent Change Data		
	A. If Reentering Recent Change Data at Office, Reenter Per Local Practice	OSWF	—
	B. Request MAC To Enter New Recent Change Data, As Required, Into System	OSWF	—
	C. Request Operation Support System To Enter New Recent Changes, As Required, Into System	OSWF	—
	1. Notify CMAC To Perform Update	OSWF	—
	2. Wait Until Update Is Complete Before Continuing	OSWF	—
	3. Notify IRAS To Update Office Data Base. Request IRAS To Notify TCC When Data Base Is Complete	OSWF	—
	4. Do Not Write Any Backup Tapes Until IRAS Completes Update	OSWF	—
	5. Notify Network Management Center To Complete Network Management System Checkout	OSWF	DLP-563
96	At 1B MTC Terminal, Enter Message <b>AUD:NUM (43,44,45)!</b> ; Do Not Continue Until Audits Have Completed With 0 Errors	OSWF	—
97	Write Backup 1B Processor ODA Tapes (800 BPI)	OSWF	DLP-583
98	Write Updated Traffic and Plant Measurement (TPM) Schedule Tape	OSWF	DLP-544
99	If Any 4E19 Overwrites Are To Be Installed, Install Per Local Practice	OSWF	—
100	Write 1B Processor Generic Tapes (800 BPI)	OSWF	DLP-584
101	Write Backup Network Management (NWM) Tape (800 BPI)	OSWF	DLP-562
102	If Data Base Was Loaded by Off-Line Processor, Write 4E Library Tape(s) Using TWRL Library Program	OSWF	DLP-568
103	Write Backup 1B Processor ODA Tapes (1600 BPI), If Required	OSWF	DLP-670

**PERFORM GENERIC RETROFIT**

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

104	Write Backup 1B Processor Generic Tapes (1600 BPI), if Required	OSWF	DLP-671
105	At 1B MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX	OSWF	—
106	At 3B MCRT, Enter Message ALW:DMQ;SRC REX! To Allow REX	OSWF	—
107	Request Next Higher Technical Support Group To Determine if Office Can Commit to 1B Processor Generic. Do Not Proceed Without Permission From Next Higher Technical Support Group	TCC	—
	<i>WARNING: Item 108 will delete any reference to 4E18 generic in NORMAL and UPDATE files. File copy of 4E18 generic from 1AFILE backup partition to UPDATE file would have to be done before initializing 1A Processor</i>		
108	Commit to 1B Processor	TCC	DLP-591
109	If System Fails and Back out Is Required, Perform NTP-010	TCC/OSWF	—
	<b>NOTE:</b> Items 110 through 113 are being performed to ensure that Conversion Switch Units stay in 1B position		
110	At Each Conversion Switch Unit on All <b>TN1808/TN2808</b> Circuit Packs, Operate <b>ON-OFF</b> Switch to <b>OFF</b> Position	OSWF	—
111	At PCDF or BDFB, Locate Seven 1/2-Amp <b>70G</b> (Red) Fuses Associated With Seven Conversion Switch Units and Remove. These Fuses Must Remain Close to PCDF or BDFB in Case Backout Is Required	OSWF	—
112	At PCDF or BDFB, Locate Seven 7-Amp <b>74C</b> Fuses Associated With Seven Conversion Switch Units and Remove. These Fuses Must Remain Close to PCDF or BDFB in Case Backout Is Required	OSWF	—
113	At Indicator/Remote Control Unit, Ensure <b>ALL-1B</b> Key and <b>ALL-1A</b> Key Are in <b>OFF</b> Position	OSWF	—
114	Remove Keys From <b>ALL-1B</b> and <b>ALL-1A</b> Key Switches and Place in 1B MCC Console Drawer	OSWF	—
	<i>CAUTION: All TCC activity via RUAS to this office must be completed before performing Items 115 and 116</i>		
115	At 1B Processor MCC Terminal, Enter 106 To Obtain MUP Status and Control Page (106)	OSWF	—
116	Enter 611 (NORMAL UTIL) ( <b>UAS:NORMAL UTIL</b> Colored White on Black)	OSWF	—

**PERFORM GENERIC RETROFIT**

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

			DATE	TIME	SIGNATURE
	<i>WARNING: This procedure must be performed only to back out to 4E18 generic after renaming UPDATE file to NORMAL file, but before committing to 1B Processor</i>				
1	At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress <b>EA DISP</b> Key	—			
2	If 70 - <b>DIS AUTO PC</b> Is Not Colored Black on Purple, Enter 70 (70 - <b>DIS AUTO PC</b> Colored Black on Purple)	—			
3	Prepare To Back Out to 1A Processor (4E18 Generic) After <b>UPD:COMMIT;UPDFILE</b> Message Entered	DLP-590			
4	Back Out to 1A Processor (4E18 Generic)	DLP-613			
5	If Backout to 1A Processor Failed, Perform Item 6; Otherwise, Go to Item 7	—			
6	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed. Proceed as Directed by Next Higher Technical Support Group	—			
7	At Indicator/Remote Control Unit, Operate <b>ACT PROC ALARM</b> Switch to <b>1A</b>	—			
8	Back Out Overwrite Used To Hold <b>MODIFY RECOVERY ACTIONS</b> Key	DLP-646			
	<b>Note:</b> Item 9 is not being performed to commit to 4E18 generic. Input message only renames UPDATE and NORMAL files				
9	At MTC Terminal, Enter Message <b>UPD:COMMIT;UPDFILE!</b> To Rename UPDATE File to NORMAL File. Ensure <b>UPD:COMMIT COMPLETED TO UPDFILE</b> Message Is Received	—			
10	At 1A Processor MCC <b>UPDATE</b> Panel, Depress <b>UPDATE</b> Key (Lamp OFF)	—			
11	When System Starts to Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock	DLP-554			
12	At MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX	—			
13	At 1A Processor MCC <b>EQUIPMENT STATUS</b> Panel, Depress <b>SERVICE CIRCUITS</b> Key and Compare Printout With Printout Received in NTP-007, Item 40	—			
14	If Other Service Circuits Were Listed (Item 13) and Need To Be Restored, at MTC Terminal, Enter Message <b>SET:TRKSTAT ACT,CIN a;SUM:TSG!</b> (a = CIN of Service Circuit Group) for Each Group of Circuits With Trunks Out	—			

**BACK OUT TO 1A PROCESSOR AFTER UPD:COMMIT;UPDFILE MESSAGE ENTERED**

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

			DATE	TIME	SIGNATURE
15	If Any Active TAN-to-TAN Connections Existed Prior to Update, at MTC Terminal, Enter Message <b>OP:TANTOTAN!</b> and Verify From Printout That TAN-to-TAN Connections Are Still Established	-			
16	If Any Active Large-Scale Nailup Connections Existed Prior to Update, at MTC Terminal, Enter Message <b>VER:NAILUP;ALL!</b> and Verify From Printout That Large-Scale Nailup Connections Are Still Established	-			
17	Run Audits 43, 44, and 45 (Items 18 Through 21)	-			
18	Enter Message <b>AUD:NUM (43,44,45)!</b>	-			
19	While Audits Are Running, Continue To Perform Succeeding Items	-			
20	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	-			
21	During Execution of Audit 43, Scan Output Messages Periodically for Abort Message	-			
22	At MTC Terminal, Restore Out-of-Service Units	DLP-619			
23	At 3B MCRT, Ensure All 3B Units Are In-Service	DLP-596			
24	If LEC Office Is Being Backed-Out and Arranged for CAMA, Check CAMA Operation	DLP-555			
25	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106	-			
26	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Link Node	-			
27	Enter 1107 in Command Mode To Obtain Display Page 1107	-			
28	Ensure One Direct Link Node Is Assigned <b>1WAY IN</b> and One Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes Must Have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If Four Direct Link Nodes Are Listed, <b>HDWR STATE</b> Must be <b>ACT</b> and <b>APPL STATE</b> Must be <b>STBY</b> for Direct Link Nodes Not Assigned <b>1WAY IN</b> or <b>1WAY OUT</b>	-			
29	Enter 1108 in Command Mode To Obtain Display Page 1108	-			
	(Continued on Page 3)				

**BACK OUT TO 1A PROCESSOR AFTER UPD:COMMIT;UPDFILE MESSAGE ENTERED**

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

			DATE	TIME	SIGNATURE
30	Ensure <b>LINK STATE</b> Is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> Is <b>ACT</b> for Each for Each Equipped Signaling Link	-			
31	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	DLP-566			
32	At MTC Terminal, Enter Message <b>OP:MSGRCD,FS!</b> To Clear Recorded Message Area on Disk	-			
33	At I/O Terminal Other Than MTC Terminal, Set Up Vacant Code Traps, As Required	DLP-556			
34	At MTC Terminal, Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary	-			
35	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	-			
36	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	-			
37	Notify Network Management Center To Begin Checkout of Network Management System	DLP-557			
38	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	-			
39	Compare Count of Ineffective Machine Attempts With Preupdate Level	-			
40	If LEC Office Is Being Backed Out and Provides CAMA Service, Monitor CAMA Call Activity; Compare With Expected Level	-			
41	Determine That Manually Placed Calls and System Placed Test Calls Complete Successfully	-			
42	At MTC Terminal, Enter Message <b>INIT:PUXINIT!</b>	-			
43	If Security Call Traps Existed Prior to Back Out, Request Network Management To Enter Security Call Traps per Local Practice	-			
44	Notify Network Management Center To Complete Network Management System Checkout	DLP-563			
45	If LEC Office Is Being Backed Out and CAMA Equipped, Install Any Special CAMA Data per Local Practice, As Required	-			
46	At MTC Terminal, Enter Message <b>ALW:MACLI,CLASS MTCE!</b> To Allow REX	-			

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

			DATE	TIME	SIGNATURE
	<p><i>WARNINGS: 1. This procedure must be performed only to back out to 4E18 generic after committing to 1B Processor</i></p> <p><i>2. The decision to invoke this procedure should be made jointly by TCC, NESAC, and NOC</i></p>				
1	At 1B Processor MCC Terminal, if EAI Page Is Not Displayed, Depress <b>EA DISP</b> Key	-			
2	If <b>70 - DIS AUTO PC</b> Is Not Colored Black on Purple, Enter 70 ( <b>70 - DIS AUTO PC</b> Colored Black on Purple)	-			
3	At 3B MCRT, Enter Message <b>OP:STATUS:LISTDIR, FN"/dev/1afile.save"</b> ! and Determine When Last ODA Update Was Made for Office From Printout	-			
4	At PCDF or BDFB, Determine Location Where Seven 7-Amp <b>74C</b> Fuses Associated With Seven Conversion Switch Units Are To Be Installed and Install	-			
5	At PCDF or BDFB, Determine Location Where Seven 1/2-Amp <b>70G</b> (Red) Fuses Associated With Seven Conversion Switch Units Are To Be Installed and Install	-			
6	At Each Conversion Switch Unit on All <b>TN1808/TN2808</b> Circuit Packs, Operate <b>ON-OFF</b> Switch to <b>ON</b> Position	-			
7	At Indicator/Remote Control Unit. Ensure <b>ALL-1B</b> Key is in <b>OFF</b> Position	-			
8	If <b>ALL-1B</b> Key Is Not in <b>ON</b> Position, Operate <b>ALL-1B</b> Key Counterclockwise to <b>ON</b> Position	-			
9	Operate <b>ARM</b> Switch Down to <b>ALL</b> Position; Ensure All LEDs for Equipped Equipment Are Set to <b>1B</b> (On Red)	-			
10	Prepare To Back Out to 1A Processor (4E18 Generic) After Committing to 1B Processor	DLP-597			
11	Back Out to 1A Processor (4E18 Generic)	DLP-613			
12	If Backout to 1A Processor Failed, Perform Item 13; Otherwise, Go to Item 14	-			
13	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed. Proceed as Directed by Next Higher Technical Support Group	-			
14	At Indicator/Remote Control Unit, Operate <b>ACT PROC ALARM</b> Switch to <b>1A</b>	-			

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

			DATE	TIME	SIGNATURE
	<b>NOTE:</b> Item 15 is not being performed to commit to 4E18 generic. Input message only renames UPDATE and NORMAL files				
15	At MTC Terminal, Enter Message UPD:COMMIT;UPDFILE! To Rename UPDATE File to NORMAL File. Ensure UPD:COMMIT COMPLETED TO UPDFILE Message Is Received	-			
16	At 1A Processor MCC <b>UPDATE</b> Panel, Depress <b>UPDATE</b> Key (Lamp OFF)	-			
17	When System Starts To Process Calls (I/O Communications Reestablished), If System Clock Time Data Is Incorrect, Set System Clock	DLP-554			
18	At MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	-			
19	At 1A Processor MCC <b>EQUIPMENT STATUS</b> Panel, Depress <b>SERVICE CIRCUITS</b> Key and Compare Printout With Printout Received in NTP-007, Item 41	-			
20	If Other Service Circuits Were Listed (Item 19) and Need To Be Restored, at MTC Terminal, Enter Message SET:TRKSTAT ACT,CIN a;SUM:TSG! (a = CIN of Service Circuit Group) for Each Group of Circuits With Trunks Out	-			
21	If Any Active TAN-to-TAN Connections Existed Prior to Update, at MTC Terminal, Enter Message OP:TANTOTAN! and Verify From Printout That TAN-to-TAN Connections Are Still Established	-			
22	If Any Active Large-Scale Nailup Connections Existed Prior to Update, at MTC Terminal, Enter Message VER:NAILUP;ALL! and Verify From Printout That Large-Scale Nailup Connections Are Still Established	-			
23	Run Audits 43, 44, and 45 (Items 24 Through 27)	-			
24	Enter Message AUD:NUM (43,44,45)!	-			
25	While Audits Are Running, Continue To Perform Succeeding Items	-			
26	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	-			
27	During Execution of Audit 43, Scan Output Messages Periodically for Abort Message	-			
28	At MTC Terminal, Restore Out-of-Service Units	DLP-619			
29	At 3B MCRT, Ensure All 3B Units Are In Service	DLP-596			

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**BACK OUT TO 1A PROCESSOR AFTER COMMITTING TO 1B PROCESSOR**

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

			DATE	TIME	SIGNATURE
30	If LEC Office Is Being Backed Out and Arranged for CAMA, Check CAMA Operation	DLP-555			
31	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter 1106 in Command Mode To Obtain Display Page 1106	-			
32	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Link Node	-			
33	Enter 1107 in Command Mode To Obtain Display Page 1107	-			
34	Ensure One Direct Link Node Is Assigned <b>1WAY IN</b> and One Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes Must Have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If Four Direct Link Nodes Are Listed, <b>HDWR STATE</b> Must be <b>ACT</b> and <b>APPL STATE</b> Must be <b>STBY</b> for Direct Link Nodes Not Assigned <b>1WAY IN</b> or <b>1WAY OUT</b>	-			
35	Enter 1108 in Command Mode To Obtain Display Page 1108	-			
36	Ensure <b>LINK STATE</b> Is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> Is <b>ACT</b> for Each Equipped Signaling Link	-			
37	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	DLP-566			
38	At MTC Terminal, Enter Message <b>OP:MSGRCDF,FS!</b> To Clear Recorded Message Area on Disk	-			
39	At I/O Terminal Other Than MTC Terminal, Set Up Vacant Code Traps, as Required	DLP-556			
40	At MTC Terminal, Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary	-			
41	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	-			
42	Request Appropriate Support Organization (NSC Provisioning or TOC) To Initiate Sample Trunk Testing at Each Test Position	-			
43	Notify Network Management Center To Begin Checkout of Network Management System	DLP-557			
44	Review Maintenance Output Messages; Account for Interrupts, Interjects, and Audit Reports and Compare With Preupdate Office Performance Results	-			

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

			DATE	TIME	SIGNATURE
45	Compare Count of Ineffective Machine Attempts With Preupdate Level	-			
46	If LEC Office Is Being Backed Out and Provides CAMA Service, Monitor CAMA Call Activity; Compare With Expected Level	-			
47	Determine That Manually Placed Calls and System-Placed Test Calls Complete Successfully	-			
48	At MTC Terminal, Enter Message INIT:PUXINIT!	-			
49	If Security Call Traps Existed Prior to Back Out, Request Network Management To Enter Security Call Traps per Local Practice	-			
50	Notify Network Management Center To Complete Network Management System Checkout	DLP-563			
51	If LEC Office Is Being Backed Out and CAMA Equipped, Install Any Special CAMA Data per Local Practice, As Required	-			
52	At MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX	-			
53	If NSD Office Is Being Backed Out, Perform Item 54; Otherwise, End of Procedure	-			
54	Perform RUAS Backout to Pre-Config File Procedure [NTP-017]	-			

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
	<b>NOTES:</b> 1. Input messages are to be entered at 1B Processor utility system workstation 2. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary					
1	Perform 1B Processor Stand-Alone Tests per NTP-013. Continue at Item 2 Upon Completion	TELCO/INST	-			
2	If Procedure Was Stopped (Item 1), Perform Items 3 Through 5; Otherwise, Go to Item 6	INST	-			
3	Allow Utility Interfering Actions	INST	DLP-585			
4	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	INST	DLP-574			
5	Enable 1B Processor Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	INST	DLP-575			
6	At 1B Processor MCC Terminal, if 118 Page Is Not Displayed, Enter 118	INST	-			
7	Determine Which CC Is Standby (MATCH)	INST	-			
8	At 1B Processor Utility System Workstation, Run Demand Diagnostics on Standby CC (DGN:CC a:PH (90-94)!)	INST	DLP-599			
9	Restore Standby CC to Service (RST:CC a!)	INST	DLP-600			
10	Switch CC (SW:CC!) (It Will Take Approximately 3 Minutes for CCs To Switch)	INST	DLP-601			
11	Run Demand Diagnostics on Standby CC (DGN:CC a:PH (90-94)!)	INST	DLP-599			
12	Restore Standby CC to Service (RST:CC a!)	INST	DLP-600			
13	Run Demand Diagnostics on One Equipped CS (DGN:CS a:PH (19,91)!)	INST	DLP-602			
14	Restore CS (Item 13) to Service (RST:CS a!)	INST	DLP-600			
	(Continued on Page 2)					

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
15	Repeat Items 13 and 14 for Each Equipped CS	INST	-			
16	Run Demand Diagnostics on One Equipped PS (DGN:PS a:PH (19,91)!!)	INST	DLP-603			
17	Restore PS (Item 16) to Service (RST:PS a!)	INST	DLP-600			
18	Repeat Items 16 and 17 for Each Equipped PS	INST	-			
19	At 1B Processor MCC Terminal, if 118 Page Is Not Displayed, Enter 118	INST	-			
20	Determine Which MUP Is Standby	INST	-			
21	At 1B Processor Utility System Workstation, Run Demand Diagnostics on Standby MUP (DGN:MUP a:PH 91!)	INST	DLP-604			
22	Restore Standby MUP to Service (RST:MUP a!)	INST	DLP-600			
23	Switch MUPs (SW:MUP!)	INST	DLP-605			
24	Run Demand Diagnostics on Standby MUP (DGN:MUP a:PH 91!)	INST	DLP-604			
25	Restore Standby MUP to Service (RST:MUP a!)	INST	DLP-600			
26	If AT&T Office Is Being Retrofitted, Verify That RUAS and MCC Access From TCC to Office Being Retrofitted Can Be Made per Local Procedures	TELCO	-			
27	At 1B Processor Utility System Workstation, Exit Output Message Window (Input Message Window Must Remain Open for Monitoring)	INST	-			

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
	<i>WARNING: No other growth or maintenance activity is allowed during this procedure</i>					
	<b>NOTES:</b> 1. This procedure must be performed during light traffic periods 2. Input messages are to be entered at either MTC terminal or 1B Processor utility system workstation 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary					
1	Ensure Routine Exerciser (REX) Successfully Diagnosed 1A Processor Equipment Within 24 of Hours of Performing This Procedure	TELCO	-			
2	Ensure Any 1A Processor Problems Have Been Cleared Before Performing This Procedure	TELCO	-			
3	Ensure All 1A Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-615			
4	Ensure 4ESS™ Switch Is in Stable Condition	TELCO	DLP-616			
5	At MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	TELCO	-			
6	Diagnose PUB 0 Using Restore Message (RST:PUB 0!)	TELCO	DLP-606			
7	Diagnose PUB 1 Using Restore Message (RST:PUB 1!)	TELCO	DLP-606			
8	At 1B Processor, if Utility Interfering Actions Are Not Allowed, Allow Utility Interfering Actions	TELCO	DLP-585			
9	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	INST	DLP-574			
10	Enable 1B Processor Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	INST	DLP-575			
	(Continued on Page 2)					

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
11	Ensure Stand-Alone 1B Processor Is in Stable Condition, and 1B Processor and 3B Clocks Have Same Time	INST	DLP-617			
12	Ensure 1B Processor Units Are Inservice (OP:00SUNITS!)	INST	DLP-577			
13	Notify Next Higher Technical Support Group That PUB 0 Conversion Switch Unit Is Going To Be Switched to 1B Processor Bus Access	TELCO	-			
	<b>NOTES:</b> 1. If problems occur between Items 14 and 17 with 1A peripheral equipment, 1B Processor must be suspended and 1A faults cleared. Once cleared, continue 2. If 1A Processor system fault occurs while conversion switch is set to 1B Processor bus access, conversion switch will automatically switch back to 1A Processor bus access 3. While running following tests, 1A and 1B Processors' operation must be closely monitored					
14	At Indicator/Remote Control Unit, Ensure <b>ALL-1A</b> and <b>ALL-1B</b> Keys in <b>OFF</b> Position	TELCO	-			
	<i>CAUTION: Care must be taken to ensure only PUB 0 conversion switch is being operated</i>					
15	Switch PUB 0 Conversion Switch to 1B Processor Bus Access	TELCO	DLP-608			
16	At 1B Processor Utility System Workstation, Diagnose PUB 0 Specifying Phase 2 on Both CCs (DGN:PUB 0:PH 2!)	INST	DLP-609			
	<i>CAUTION: Care must be taken to ensure only PUB 0 conversion switch is being operated</i>					
17	At Indicator/Remote Control Unit, Switch PUB 0 Conversion Switch to 1A Processor Bus Access	TELCO	DLP-610			
18	Notify Next Higher Technical Support Group That PUB 0 Conversion Switch Unit Was Switched Back to 1A Processor Bus Access	TELCO	-			
19	At MTC Terminal, Restore PUB 0 to Service (RST:PUB 0!)	TELCO	DLP-606			
20	At 1B Processor Utility System Workstation, Restore PUB 0 to Service Unconditionally (RST:PUB 0;UCL!)	INST	DLP-618			

**PERFORM 1B PROCESSOR TO 4ESS™ SWITCH PERIPHERY LIMITED  
ACCESS TEST – SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
21	Safe Point to Temporarily Stop This Procedure. If Stopping Perform Items 22 Through 24; Otherwise, Go to Item 33	TELCO/INST	-			
22	At MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX	TELCO	-			
23	Set MUP Back to Non-Interference	INST	DLP-594			
24	Stop Procedure for Now. Resume at Item 25 When Continuing	TELCO/INST	-			
25	Ensure All 1A Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-615			
26	Ensure 4ESS™ Switch Is in Stable Condition	TELCO	DLP-616			
27	Ensure Stand-Alone 1B Processor Is in Stable Condition	INST	DLP-617			
28	At MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	TELCO	-			
29	At 1B Processor, if Utility Interfering Actions Are Not Allowed, Allow Utility Interfering Actions	TELCO	DLP-585			
30	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	INST	DLP-574			
31	Enable 1B Processor Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	INST	DLP-575			
32	Ensure 1B Processor Units Are Inservice (OP:OOSUNITS!)	INST	DLP-577			
33	Notify Next Higher Technical Support Group That PUB 1 Conversion Switch Unit Is Going To Be Switched to 1B Processor Bus Access	TELCO	-			
	(Continued on Page 4)					

**PERFORM 1B PROCESSOR TO 4ESS™ SWITCH PERIPHERY LIMITED  
ACCESS TEST – SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
	<b>NOTES:</b> 1. If problems occur between Items 34 and 37 with 1A peripheral equipment, 1B Processor must be suspended and 1A faults cleared. Once cleared, continue 2. If 1A Processor system fault occurs while conversion switch is set to 1B Processor bus access, conversion switch will automatically switch back to 1A Processor bus access 3. While running following tests, 1A and 1B Processors' operation must be closely monitored					
34	At Indicator/Remote Control Unit, Ensure <b>ALL-1A</b> and <b>ALL-1B</b> Keys in <b>OFF</b> Position	TELCO	-			
	<i>CAUTION: Care must be taken to ensure only PUB 1 conversion switch is being operated</i>					
35	Switch PUB 1 Conversion Switch to 1B Processor Bus Access	TELCO	DLP-611			
36	At 1B Processor Utility System Workstation, Diagnose PUB 1 Specifying Phase 2 on Both CCs (DGN:PUB 1:PH 2!)	INST	DLP-609			
	<i>CAUTION: Care must be taken to ensure only PUB 1 conversion switch is being operated</i>					
37	At Indicator/Remote Control Unit, Switch PUB 1 Conversion Switch to 1A Processor Bus Access	TELCO	DLP-612			
38	Notify Next Higher Technical Support Group That PUB 1 Conversion Switch Unit Was Switched Back to 1A Processor Bus Access	TELCO	-			
39	At MTC Terminal, Restore PUB 1 to Service (RST:PUB 1!)	TELCO	DLP-606			
40	At 1B Processor Utility System Workstation, Restore PUB 1 to Service Unconditionally (RST:PUB 1;UCL!)	INST	DLP-618			
41	At MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow REX	TELCO	-			
42	At 1B Processor Utility System Workstation, Exit Output Message Window (Input Message Window Must Remain Open for Monitoring)	INST	-			

**PERFORM 1B PROCESSOR TO 4ESS™ SWITCH PERIPHERY LIMITED  
 ACCESS TEST – SUPPORT TO INSTALLER (INST)**

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

			DATE	TIME	SIGNATURE
	<b>NOTES:</b> 1. This procedure is to be performed after 1B Processor is installed and connected to conversion switch units 2. No connections from 1A Processor side to conversion switch units are allowed until successful completion of this procedure 3. Any problem unit that goes out of service during this test must be repaired and restored to service before continuing 4. At MCC terminal, No MUP forces allowed on 106 page or EAI page 5. This procedure is performed by installation force with office technician observing 6. All input messages are to be entered at utility system workstation				
1	Allow Utility Interfering Actions	DLP-585			
	<b>NOTE:</b> If I/O message process stops during this procedure, Item 2 will have to be repeated				
2	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	DLP-574			
3	Enable 1B Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	DLP-575			
4	Ensure 1B Processor Is Running in Stable State, and 1B Processor and 3B Clocks Have Same Time	DLP-617			
5	Verify All 1B Processor Units Are In-service (OP:OOSUNITS!). Listed Units Must Be Restored to Service	DLP-577			
	<b>NOTE:</b> Items 6 through 10 are being performed to diagnose CC 0 and CC 1				
6	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter 118	-			
7	On 118 Page, Determine Which CC Is Standby (MATCH)	-			
8	Diagnose Standby CC (Item 7) Using Power Control Switch on Circuit Pack <b>KLW11</b>	DLP-635			
9	Switch CCs ( <b>SW:CC!</b> ) (It Will Take Approximately 3 Minutes for CCs To Switch)	DLP-601			
10	Diagnose Standby CC Using Power Control Switch on Circuit Pack <b>KLW11</b>	DLP-635			
	(Continued on Page 2)				

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

			DATE	TIME	SIGNATURE
11	Diagnose CS 0 Through CS 9, PS 0 Through PS 3, SSD 0, and SSD 1 Using Appropriate Power Control Switch on Circuit Pack	DLP-636			
12	Diagnose CSB 0 and CSB 1 Using Appropriate Power Control Switch on Circuit Pack	DLP-637			
13	Diagnose XPWR 0 and XPWR 1 Using Power Control Switch on Circuit Pack <b>KLW23</b>	DLP-638			
	<b>NOTE:</b> Items 14 through 19 are being performed to diagnose MUP 0 and MUP 1				
14	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter <b>118</b>	-			
15	On 118 Page, Ensure IFB 0 and IFB 1 Are Duplex (Both IFBs ACT)	-			
16	On 118 Page, Determine Which MUP Is Standby	-			
17	Diagnose Standby MUP (Item 14) Using Power Control Switch on Circuit Pack <b>KLW25</b>	DLP-639			
18	Switch MUPs (SW:MUP!)	DLP-605			
19	Diagnose Standby MUP Using Power Control Switch on Circuit Pack <b>KLW25</b>	DLP-639			
20	On 118 Page, Determine Which AUI Is Standby	-			
21	Diagnose Standby AUI (Step 20) Using Power Control Switch on Circuit Pack <b>KLW18</b>	DLP-640			
22	Switch AUIs (SW:AUI!)	DLP-641			
23	Diagnose Standby AUI (Step 20) Using Power Control Switch on Circuit Pack <b>KLW18</b>	DLP-640			
24	Diagnose PSB 0 (RST:PSB 0!) Using Restore Message	DLP-600			
25	Diagnose PSB 1 (RST:PSB 1!) Using Restore Message	DLP-600			
26	Diagnose IFB 0 (RST:IFB 0!) Using Restore Message	DLP-600			
27	Diagnose IFB 1 (RST:IFB 1!) Using Restore Message	DLP-600			
28	Diagnose Miscellaneous Power	DLP-642			
	<b>NOTE:</b> Items 29 through 35 are being performed to test PC functions				
29	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter 118	-			

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

			DATE	TIME	SIGNATURE
30	On 118 Page, Determine Which CC Is Standby (MATCH)	-			
31	Run 1B Processor CC Diagnostic Phase 95 on Standby CC To Test PC Function	DLP-643			
32	Restore Standby CC to Service (RST:CC a!)	DLP-600			
33	Switch CCs (SW:CC!) (It Will Take Approximately 3 Minutes for CCs To Switch)	DLP-601			
34	Run 1B Processor CC Diagnostic Phase 95 on Standby CC To Test PC Function	DLP-643			
35	Restore Standby CC to Service (RST:CC a!)	DLP-600			
36	Test Fan System	DLP-656			
37	Verify Base API, DUS, TUC, and PUBB Unit Type Translators for 1A Processor and 1B Processor	DLP-644			
38	If This Is Going To Be Stopped for Now, Perform Item 39; Otherwise, End of Procedure	-			
39	At 1B Processor Utility System Workstation, Exit Output Message Window (Input Message Window Must Remain Open for Monitoring)	-			

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
	<i>WARNING: No other growth or maintenance activity is allowed during this procedure</i>					
	<b>NOTES:</b> 1. Input messages are to be entered at MTC terminal, 3B MCRT, or 1B Processor utility system workstation. Terminal/workstation will be given at first occurrence and message(s) must be entered there until procedure indicates different terminal/workstation 2. If AU conversion switch switches back, procedure must be totally repeated 3. Appropriate Input/Output Manuals must be used if clarification of input message or output message is necessary 4. This procedure must be performed during light traffic periods					
1	At 3B MCRT, Enter Message <b>DUMP:BWM!</b> ; Ensure <b>BWM 94-0026</b> Is Listed. If This BWM Is NOT Listed, Stop Procedure and Contact Next Higher Technical Support Group. Procedure MUST NOT Be Continued	TELCO	-			
2	Ensure No API Interjects or Interrupts Have Occurred Within 24 Hours of Performing This Procedure	TELCO	-			
3	Ensure Any 1A Processor Problems Have Been Cleared Before Performing This Procedure	TELCO	-			
4	Ensure All 1A Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-620			
5	Ensure <b>4ESS™</b> Switch Is in Stable Condition	TELCO	DLP-616			
6	Allow Utility Interfering Actions	INST	DLP-585			
	<b>NOTE:</b> If I/O message process stops during this procedure, Item 8 will have to be repeated					
7	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	INST	DLP-574			
8	Enable Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	INST	DLP-575			
	(Continued on Page 2)					

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
9	Ensure Stand-Alone 1B Processor Is in Stable Condition, and 1B Processor and 3B Clocks Have Same Time	INST	DLP-617			
10	Ensure 1B Processor Units Are In-Service (OP:OOSUNITS!)	INST	DLP-577			
11	At 1B Processor Indicator/Remote Control Unit, Ensure All Switches Associated With Equipped Office Equipment Are Set to 1A Processor Position (Associated LEDs On Green) and Permit Bus Access	TELCO	DLP-621			
12	At 3B MCRT, Verify API-DLN Stream (OP:DLNCM;STREAM!)	TELCO	DLP-622			
13	Enter Following Messages To Inhibit APS Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	-			
14	At MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit 1A Processor REX	TELCO	-			
15	At MTC Terminal, Determine Which API Is Standby (OP:APSTATUS!)	TELCO	DLP-623			
16	Diagnose Standby API (Item 17) Using Restore Message (RST:API a!)	TELCO	DLP-606			
17	Switch APIs To Make Other API Standby (SW:APS 0!)	TELCO	DLP-624			
18	Diagnose Standby API Using Restore Message (RST:API a!)	TELCO	DLP-606			
	<b>NOTE:</b> Items 19 through 55 are being performed to test API 0 stream exerciser limited access					
19	Notify Next Higher Technical Support Group That AUB 0 Conversion Switch Is Going To Be Switched to 1B Processor Bus Access	TELCO	-			
20	Determine Which API Is Standby (OP:APSTATUS!)	TELCO	DLP-623			
21	If API 1 Is Standby, Switch APIs To Make API 0 Standby (SW:APS 0!)	TELCO	DLP-624			
22	Remove API 0 From Service (RMV:API 0!)	TELCO	DLP-607			
23	Remove DUS 0 From Service (RMV:DUS 0!)	TELCO	DLP-607			
24	Clear Assigned ADS Function(s) (CLR:ADSFUNC a!)	TELCO	DLP-660			
	(Continued on Page 3)					

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
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**DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO**

		RESPONSIBILITY		DATE	TIME	SIGNATURE
25	Remove All Inservice Equipped TUCs From Service (RMV:TUC a!)	TELCO	DLP-607			
26	Remove AUB 0 From Service (RMV:AUB 0!)	TELCO	DLP-607			
27	Set API Being Tested to Off-Line State (ALW:APSTEST!)	TELCO	DLP-625			
	<i>CAUTION: Care must be taken to ensure only AUB 0 conversion switch is being operated</i>					
	<b>NOTES:</b> 1. If 1A Processor system fault occurs while conversion switch is set to 1B Processor bus access, conversion switch will automatically switch back to 1A Processor bus access 2. While running following tests, 1A and 1B Processors' and 3B APS operation must be closely monitored					
28	This DLP Must Be Followed. Prepare to Switch AU0; Then At Indicator/Remote Control Unit, Switch AUB 0 to 1B Bus Access	TELCO	DLP-626			
29	At 1B Processor Utility System Workstation, Restore AUB 0 to Service (RST:AUB 0;UCL!)	INST	DLP-627			
	<b>NOTES:</b> 1. If phase 7, 8, or 9 failure occurs during diagnostic (Items 30 through 36), Items 49 through 51 must be performed and procedure repeated from Item 1 2. If failure occurs during Items 30 through 36, Items 30 through 36 must be repeated					
30	Diagnose API 0 (DGN:API 0:PH (2,4-9)!)	INST	DLP-628			
31	Switch AUIs (SW:AUI!)	INST	DLP-641			
32	Diagnose API 0 (DGN:API 0:PH (2,4-9)!)	INST	DLP-628			
33	Switch CCs (SW:CC!) (It Will Take Approximately 3 Minutes for CCs To Switch)	INST	DLP-601			
34	Diagnose API 0 (DGN:API 0:PH (2,4-9)!)	INST	DLP-628			
35	Switch AUIs (SW:AUI!)	INST	DLP-641			
	(Continued on Page 4)					

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
36	Diagnose API 0 (DGN:API 0:PH (2,4-9)!)	INST	DLP-628			
37	At 1B Processor Utility System Workstation, Restore API 0 to Service Unconditionally (RST:API 0;UCL!)	INST	DLP-627			
38	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter 118	INST	-			
39	If AUI 0 Is Active, Switch AUIs To Make AUI 1 Active (SW:AUI!)	INST	DLP-641			
40	Diagnose AUI 0 Using Restore Message (RST:AUI 0!)	INST	DLP-668			
41	Switch AUIs To Make AUI 0 Active (SW:AUI!)	INST	DLP-641			
42	Diagnose Standby AUI 1 Using Restore Message (RST:AUI 1!)	INST	DLP-668			
43	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter 118	INST	-			
44	Ensure 118 Page Displays API 0 Active	INST	-			
45	Wait 1 Minute Before Continuing To Ensure No Interrupts Received for Either 1A or 1B Processor	TELCO/INST	-			
46	Test Capability To Exchange Test Messages Between 1B Processor and APS	INST	DLP-629			
47	Switch AUIs (SW:AUI!)	INST	DLP-641			
48	Test Capability To Exchange Test Messages Between 1B Processor and APS	INST	DLP-629			
	<i>CAUTION: Care must be taken to ensure only AUB 0 conversion switch is being operated</i>					
	<b>NOTE:</b> When conversion switch is switched back to 1A Processor bus access, 1B Processor will interject					
49	This DLP Must Be Followed. Prepare to Switch AU0; Then At Indicator/Remote Control Unit, Switch AUB 0 to 1A Bus Access	TELCO/INST	DLP-630			
50	Notify Next Higher Technical Support Group That AUB 0 Conversion Switch Was Switched Back to 1A Processor Bus Access	TELCO	-			

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
51	At MTC Terminal, Clear API Being Tested From Off-Line State (INH:APSTEST!)	TELCO	DLP-631			
52	At MTC Terminal, Restore AUB 0 to Service (RST:AUB 0!)	TELCO	DLP-606			
53	Restore API 0 to Service (RST:API 0!)	TELCO	DLP-606			
54	Restore DUS 0 to Service (RST:DUS 0!)	TELCO	DLP-606			
55	Restore TUCs That Were Removed From Service in Item 25 (RST:TUC a!)	TELCO	DLP-606			
56	Safe Point To Temporarily Stop This Procedure. If Stopping, Perform Items 57 Through 60; Otherwise, Go to Item 74	TELCO/INST	-			
57	At MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow 1A Processor REX	TELCO	-			
58	Set MUP Back to Non-Interference	INST	DLP-594			
59	At 3B MCRT, Enter Following Messages To Allow Automatic Diagnostics: • ALW:DMQ;SRC REX! • ALW:DMQ;SRC ADP!	TELCO	-			
60	Stop Now Until Resuming	TELCO/INST	-			
61	Ensure No API Interjects or Interrupts Have Occurred Within 24 Hours of Performing This Procedure	TELCO	-			
62	Ensure Any 1A Processor Problems Have Been Cleared Before Performing This Procedure	TELCO	-			
63	Ensure All 1A Processor and Peripheral Units Are Operating in Normal Duplex Mode	TELCO	DLP-620			
64	Ensure 4ESS Switch Is in Stable Condition	TELCO	DLP-616			
65	Ensure Stand-Alone 1B Processor Is in Stable Condition	INST	DLP-617			
66	Allow Utility Interfering Actions	INST	DLP-585			
67	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	INST	DLP-574			

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
68	Enable Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	INST	DLP-575			
69	Ensure 1B Processor Units Are Inservice (OP:OOSUNITS!)	INST	DLP-577			
70	At 1B Processor Indicator/Remote Control Unit, Ensure All Switches Associated With Equipped Office Equipment Are Set to 1A Processor Position (Associated LEDs On Green) and Permit Bus Access	TELCO	DLP-621			
71	At 3B MCRT, Verify API-DLN Stream (OP:DLNCM;STREAM!)	TELCO	DLP-622			
72	Enter Following Messages To Inhibit APS Automatic Diagnostics: • INH:DMQ;SRC REX! • INH:DMQ;SRC ADP!	TELCO	-			
73	MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit 1A Processor REX	TELCO	-			
74	At MTC Terminal, Determine Which API Is Standby (OP:APSTATUS!)	TELCO	DLP-623			
75	Diagnose Standby API (Item 74) Using Restore Message (RST:API a!)	TELCO	DLP-606			
76	Switch APIs To Make Other API Standby (SW:APS 0!)	TELCO	DLP-624			
77	Diagnose Standby API Using Restore Message (RST:API a!)	TELCO	DLP-606			
	<b>NOTE:</b> Items 78 through 114 are being performed to test AUB 1 limited access					
78	Notify Next Higher Technical Support Group that AUB 1 Conversion Switch Is Going To Be Switched to 1B Processor Bus Access	TELCO	-			
79	Determine Which API Is Standby (OP:APSTATUS!)	TELCO	DLP-623			
80	If API 0 Is Standby, Switch APIs To Make API 1 Standby (SW:APS 0!)	TELCO	DLP-624			
81	Remove API 1 From Service (RMV:API 1!)	TELCO	DLP-607			
82	Remove DUS 1 From Service (RMV:DUS 1!)	TELCO	DLP-607			
83	Clear Assigned ADS Function(s) (CLR:ADSFUNC a!)	TELCO	DLP-660			
84	Remove All In-service Equipped TUCs From Service (RMV:TUC a!)	TELCO	DLP-607			
	(Continued on Page 7)					

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
85	Remove AUB 1 From Service (RMV:AUB 1!)	TELCO	DLP-607			
86	Set API Being Tested to Off-Line State (ALW:APSTEST!)	TELCO	DLP-625			
	<i>CAUTION: Care must be taken to ensure only AUB 1 conversion switch is being operated</i>					
	<b>NOTES:</b> 1. If 1A Processor system fault occurs while conversion switch is set to 1B Processor bus access, conversion switch will automatically switch back to 1A Processors' bus access 2. While running following tests, 1A and 1B Processors' and 3B APS operation must be closely monitored					
87	This DLP Must Be Followed. Prepare to Switch AU1; Then At Indicator/Remote Control Unit, Switch AUB 1 to 1B Bus Access	TELCO	DLP-632			
88	At 1B Processor Utility System Workstation, Restore AUB 1 to Service (RST:AUB 1;UCL!)	INST	DLP-627			
	<b>NOTES:</b> 1. If phase 7, 8, or 9 failure occurs during diagnostic (Items 89 through 95), Items 108 through 110 must be performed and procedure repeated from Item 1 2. If failure occurs during Items 89 through 95, Items 89 through 95 must be repeated					
89	Diagnose API 1 (DGN:API 1:PH (2,4-9)!)	INST	DLP-628			
90	Switch AUIs (SW:AUI!)	INST	DLP-641			
91	Diagnose API 1 (DGN:API 1:PH (2,4-9)!)	INST	DLP-628			
92	Switch CCs (SW:CC!) (It Will Take Approximately 3 Minutes for CCs To Switch)	INST	DLP-601			
93	Diagnose API 1 (DGN:API 1:PH (2,4-9)!)	INST	DLP-628			
94	Switch AUIs (SW:AUI!)	INST	DLP-641			
95	Diagnose API 1 (DGN:API 1:PH (2,4-9)!)	INST	DLP-628			
	(Continued on Page 8)					

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
96	At 1B Processor Utility System Workstation, Restore API 1 to Service Unconditionally (RST:API 1;UCL!)	INST	DLP-627			
97	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter 118	INST	-			
98	If AUI 1 Is Active, Switch AUIs To Make AUI 0 Active (SW:AUI!)	INST	DLP-641			
99	Diagnose AUI 1 Using Restore Message (RST:AUI 1!)	INST	DLP-668			
100	Switch AUIs To Make AUI 1 Active (SW:AUI!)	INST	DLP-641			
101	Diagnose Standby AUI 0 Using Restore Message (RST:AUI 0!)	INST	DLP-668			
102	At 1B Processor MCC Terminal, if 1B Processor Status Page (118) Is Not Displayed, Enter 118	INST	-			
103	Ensure 118 Page Displays API 1 Active	INST	-			
104	Wait 1 Minute Before Continuing To Ensure No Interrupts Received for Either 1A or 1B Processor	TELCO/INST	-			
105	Test Capability To Exchange Test Messages Between 1B Processor and APS	INST	DLP-629			
106	Switch AUIs (SW:AUI!)	INST	DLP-641			
107	Test Capability To Exchange Test Messages Between 1B Processor and APS	INST	DLP-629			
	<i>CAUTION: Care must be taken to ensure only AUB 1 conversion switch is being operated</i>					
	<b>NOTE:</b> When Conversion Switch is switched back to 1A Processor bus access, 1B Processor will interject					
108	This DLP Must Be Followed. Prepare to Switch AUI; Then At Indicator/Remote Control Unit, Switch AUB 1 to 1A Bus Access	TELCO/INST	DLP-633			
109	Notify Next Higher Technical Support Group That AUB 1 Conversion Switch Was Switched Back to 1A Processor Bus Access	TELCO	-			
	(Continued on Page 9)					

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

		RESPONSIBILITY		DATE	TIME	SIGNATURE
110	At MTC Terminal, Clear API Being Tested From Off-Line State (INH:APSTEST!)	TELCO	DLP-631			
111	At MTC Terminal, Restore AUB 1 to Service (RST:AUB 1!)	TELCO	DLP-606			
112	Restore API 1 to Service (RST:API 1!)	TELCO	DLP-606			
113	Restore DUS 1 to Service (RST:DUS 1!)	TELCO	DLP-606			
114	Restore TUCs That Were Removed From Service in Item 89 (RST:TUC a!)	TELCO	DLP-606			
115	At 1B Processor Utility System Workstation, Exit Output Message Window (Input Message Window Must Remain Open for Monitoring)	INST	-			
116	At MTC Terminal, Enter Message ALW:MACLI,CLASS MTCE! To Allow 1A Processor REX	TELCO	-			
117	At 3B MCRT, Enter Following Messages To Allow Automatic Diagnostics: <ul style="list-style-type: none"> <li>• ALW:DMQ;SRC REX!</li> <li>• ALW:DMQ;SRC ADP!</li> </ul>	TELCO	-			

**PERFORM API STREAM EXERCISER LIMITED ACCESS TESTS -  
SUPPORT TO INSTALLER (INST)**

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

			DATE	TIME	SIGNATURE
	<i>WARNING: This procedure must only be performed in a LEC office</i>				
	<b>NOTE:</b> 1B Processor utility system workstation must be logged on before performing this procedure				
1	<b>Place Check Mark Beside Item or Subitem When Completed, or If Not Required</b>	—			
2	Before Starting, Review and Become Familiar With DLP-665. At Least Two Technicians Locally Will Be Required To Assist in This Procedure	—			
3	Ensure Office Communication Between MOC Area, API Frame Area and Incharge (if Being Used) Is Operational. All Areas Must Be Conferenced Together To Avoid Confusion When Instructions Are Given	—			
4	Remove DLP-669 From This TOP Volume and Place Where Easily Accessible if Backout Is Required. This DLP Can Be Used For Reference To Determine What Backout Procedure To Use if Problems Occur While Performing Generic Retrofit Procedure	—			
5	At 1A MTC Terminal, Enter Message <b>INH:MACLI,CLASS MTCE;REX!</b> To Inhibit REX	—			
6	Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary; Save Printout for Trunk Circuit Recovery Verification	—			
7	Enter Message <b>OP:00SUNITS!</b> and Ensure That Required Units Are in Service	DLP-526			
8	Ensure Two PC Program Stores Are Configured to K-code 20 ( <b>OP:PSSTATUS!</b> )	DLP-548			
9	At 3B MCRT, Enter Message <b>INH:DMQ;SRC REX!</b> To Inhibit REX	—			
10	Enter Message <b>OP:00S!</b> and Ensure That Required 3B Computer Units Are in Service	DLP-596			
11	Verify Data Base To Ensure That Generic Is <b>4E&lt;19&gt;5x.yy Ra</b> and Proper Office Is Listed ( <b>OP:APpload UPD!</b> )	DLP-549			
12	If Critical Overwrites Are Required, Insert Critical Overwrites Into UPDATE File and Save Printout of Overwrites	DLP-539			
	<b>NOTE:</b> If schedules that are entered by <b>SCHED:MEAS</b> input message are to be retained for update, include <b>MEAS</b> option in <b>LOAD</b> message.				
13	Map Dynamic Data From <b>NORMAL</b> File to <b>UPDATE</b> File ( <b>LOAD:UPDATE:MAP[,MEAS]!</b> )	DLP-550			

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

			DATE	TIME	SIGNATURE
14	At 3B MCRT, Verify 1AFILE Hashed Areas for 0 Errors (VER:APPFIL UPD!)	DLP-537			
15	Enter Message COPY:LSNC TOSL! To Update TOSL in UPDATE File; Ensure REPT LSNC: LSNC MAPPING COMPLETE Message Is Received	-			
16	Copy NORMAL File to 1ASAVE File (COPY:APPFIL NORM:DEST 1ASAVE!)	DLP-592			
17	Copy UPDATE File to 1BSAVE File (COPY:APPFIL UPD:DEST 1BSAVE!)	DLP-593			
18	Enter Overwrite To Hold <b>MODIFY RECOVERY ACTIONS</b> Key During Retrofit	DLP-645			
	<b>NOTE:</b> Items 19 through 29 are being performed to set up 1B Processor for retrofit				
19	Allow Utility Interfering Actions	DLP-585			
20	At 1B Processor Utility System Workstation, Start I/O Message Process, if Required	DLP-574			
21	Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit 1B Processor REX	-			
22	Enable 1B Utility Paging Administration (UPAD) Processes (ALW:UPAD!)	DLP-575			
23	Verify All 1B Processor Units Are in Service (OP:OOSUNITS!)	DLP-577			
24	Remove Standby 1B Processor CC 1 and Ensure MUP 0 Is Active	DLP-666			
25	At 1B Processor Utility System Workstation, Exit I/O Message Windows. Ensure All IOdaemon Processes From Local and External Users Are Stopped	DLP-582			
26	Set Up 1B Processor Utility System Workstation To Match and Stop at End of 1B Processor Pump	DLP-664			
27	Prepare 1B Processor MCC Terminal for Manual Recovery	DLP-663			
28	At Indicator/Remote Control Unit, Ensure <b>ALL-1A</b> Key and <b>ALL-1B</b> Key Are in <b>OFF</b> Position	-			
29	At Back of Indicator/Remote Control Unit, Disconnect P-Wire From GCP Trigger Input Terminals	-			
30	Clear Assigned ADS Function(s)	DLP-660			
	(Continued on Page 3)				

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

			DATE	TIME	SIGNATURE
31	At 1A MTC Terminal, Enter Message RMV:DUS 0! To Remove DUS 0 From Service; Ensure RMV: DUS 0 COMPLETED Message Is Received	-			
32	Enter Message RMV:TUC a! for Each Equipped TUC To Remove TUC From Service; Ensure RMV: TUC a COMPLETED Message Is Received for Each Message Entered	-			
33	Safe Point To Temporarily Stop This Procedure	-			
	<b>NOTE:</b> Data entered by <b>DATA INSERT</b> keys (Item 34) is address of 4E clock. This display will be used to show that 1A Processor is cycling after system comes up on 1B Processor				
34	At 1A Processor MCC <b>SYSTEM DISPLAY</b> Panel, Depress <b>DATA INSERT - 2, 4, 6, 8,</b> and <b>11</b> Key (Lamp On)	-			
35	At 1A Processor MCC <b>PROCESSOR CONFIGURATION SEQUENCER</b> Panel, Depress <b>DISABLE AUTO PC</b> Key (Lamp On)	-			
36	If <b>PC ATTEMPT</b> Lamp Is On, Contact Next Higher Technical Support Group To Determine if Retrofit Can Be Continued. Proceed as Directed	-			
37	At 1A Processor MCC <b>MANUAL INTERRUPT PROGRAM REQUEST</b> Panel, Depress <b>DIRECT DATA INSERT - 14</b> Key (Lamp On)	-			
38	At 1A Processor MCC <b>MANUAL INTERRUPT PROGRAM REQUEST</b> Panel, Depress <b>MODIFY RECOVERY ACTIONS</b> Key	-			
39	At 1A MTC Terminal, Enter Message DUMP:CC,ADR 17776332,L 3! To Dump Status of MCC Keys	DLP-552			
40	Enter Message OP:APSTATUS! and Determine if API 0 Is Standby	-			
41	If API 0 Is Active (Item 40), Enter Message SW:APS 0! to Make API 0 Standby	-			
	<b>NOTE:</b> API 0 will be removed from service when AUB 0 is removed				
42	Enter Message RMV:AUB 0! To Remove AUB 0 From Service; Ensure RMV: AUB 0 COMPLETED Message Is Received	-			
43	Retrofit to 1B Processor	DLP-665			
	(Continued to Page 4)				

**PERFORM GENERIC RETROFIT (LEC OFFICE ONLY)**

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

			DATE	TIME	SIGNATURE
44	If Attempt To Configure to New System Was Successful, Go to Item 53. If Unsuccessful, Perform Items 45 Through 52 Because System Is Returned to 1A Processor	-			
45	<b>ENTERING THIS STEP BECAUSE BACKOUT TO 4E18 OCCURRED.</b> At 1A MTC Terminal, Enter Message UPD:COMMIT;NORMFILE!	-			
46	At 1A Processor MCC <b>MANUAL INTERRUPT PROGRAM REQUEST</b> Panel, Release All Active (Lamps That Are On) <b>DIRECT DATA INSERT</b> Keys [Lamp(s) Off]	-			
47	At 1A Processor MCC <b>PROCESSOR CONFIGURATION SEQUENCER</b> Panel, if <b>DIABLE AUTO PC</b> Lamp Is On, Depress <b>DISABLE AUTO PC</b> Key (Lamp Off)	-			
48	At 1B Processor Utility System Workstation, in UCD Window, Enter <b>msave</b> To Save Monitor Store Data; Continue to Next Item Without Waiting for Completed Output Message	-			
49	Stop UCD Matcher Processes	DLP-614			
50	Ensure (msave): Dump Completed Message Was Received	-			
51	Analyze, With Help From Next Higher Technical Support Group, Printout To Determine Why Update Failed	-			
52	After Consulting With Support Organization, Select Option A or B and Proceed as Directed	-			
	A. If Update Is To Be Discontinued, End of Procedure. Ensure System Is Operating Properly and Restore all Out-of-Service Equipment	-			
	B. If Update Is To Be Continued, Proceed as Directed by Next Higher Technical Support Group	-			
53	<b>SUCCESSFUL CONTINUATION OF 1B PROCESSOR RETROFIT.</b> At Indicator/Remote Control Unit, Operate <b>ACT PROC ALARM</b> Switch to 1B	-			
54	If System Fails During Items 55 Through 111, and Backout Is Required, Perform NTP-009	-			
55	Perform Items 56 Through 60 to Restore 1B Processor Complex Units	-			

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

			DATE	TIME	SIGNATURE
56	At 1B MTC Terminal, Enter Message OP:MACLI,CLASS MTCE!	-			
57	If 1B Processor Complex Unit(s) Is Listed in Printout, Go to Item 60; Otherwise, Perform Items 58 Through 60	-			
58	At 1B MTC Terminal, Enter Message OP:00SUNITS!	-			
	<b>NOTE:</b> IFB must be restored before restoring MUP, AUI, or SSD				
59	If 1B Processor Complex Unit(s) Is Listed in Printout, Enter Restore Message To Restore Each Unit Listed	-			
	<b>NOTE:</b> It is important to get 1B Processor units restored to service as soon as possible while the remainder of the retrofit procedure is being performed				
60	Periodically Repeat From Item 56 While Continuing to Perform Succeeding Steps in This NTP Until 1B Processor Complex Units Are Restored	-			
61	Operate <b>ALL-1B</b> Key Clockwise to <b>OFF</b> Position	-			
62	Verify Direct Link Nodes Were Pumped From Proper 1AFILE	DLP-566			
63	If Loaded Network Management Has Different Issue From Previous Network Management, Look Back in Printout for "OSOR BURST" Page. At Bottom of BURST Page, Ensure That <b>OSOR SCHEDULES</b> Are <b>NOT CHANGED</b> and <b>COUNT DATA BASE</b> Is <b>UPDATED</b>	-			
64	When System Starts To Process Calls (I/O Communications Reestablished), Is System Clock Time Data Is Incorrect, Set System Clock	DLP-554			
65	At 1B MTC Terminal, Enter Message INH:MACLI,CLASS MTCE;REX! To Inhibit REX	-			
66	Enter Message OP:SVCSTAT! and Observe Printout for Any Service Circuits That Are Not New DTMF Transmitters or Receivers or Part of Hardware Rearrange Associated With Update. Compare Printout With Printout Saved in NTP-007, Item 40. Ensure All Required Service Circuits Are Active. If Problems Are Found, Request Assistance From Next Higher Technical Support Group for Resolution	-			
	(Continued on Page 6)				

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

			DATE	TIME	SIGNATURE
67	If Any Active TAN-to-TAN Connections Existed Prior to Update, at 1B MTC Terminal, Enter Message <b>OP:TANTOTAN!</b> and Verify From Printout That TAN-to-TAN Connections Are Still Established (Compare Printout With Printout Saved in NTP-007, Item 19)	-			
68	If Any Active Large-Scale Nailup Connections Existed Prior to Update, at 1B MTC Terminal, Enter Message <b>VER:NAILUP;ALL!</b> and Verify From Printout That Large-Scale Nailup Connections Are Still Established (Compare Printout With Printout Saved in NTP-007, Item 20)	-			
69	Run Audits 43, 44, and 45 (Items 70 Through 73)	-			
70	Enter Message <b>AUD:NUM (43,44,45)!</b>	-			
71	While Audits Are Running, Continue To Perform Succeeding Items	-			
72	If Any Errors Are Detected and NOT Corrected, Inform Support Organization of Audit Results and Follow Their Instructions for Further Action	-			
73	During Execution of Audit 43, Scan Output Messages Periodically for Abort Message	-			
74	Place TLP Tape in Service	DLP-559			
75	At 1B MTC Terminal, Restore Out-of-Service Units	DLP-619			
76	If Office Is Arranged for CAMA, Check CAMA Operation	DLP-555			
77	At 3B MCRT, Depress <b>NORM/DISP (PF2)</b> Key and Enter <b>1106</b> in Command Mode To Obtain Display Page 1106	-			
78	Ensure <b>RING POS</b> Is <b>NORM</b> and <b>MAJOR STATE</b> Is <b>ACT</b> for Each Equipped CNI Ring Link Node	-			
79	Enter 1107 in Command Mode To Obtain Display Page 1107	-			
80	Ensure One Direct Link Node Is Assigned <b>1WAY IN</b> and One Direct Link Node <b>1WAY OUT</b> . Both Direct Link Nodes Must Have <b>HDWR STATE</b> and <b>APPL STATE</b> of <b>ACT</b> . If Four Direct Link Nodes Are Listed, <b>HDWR STATE</b> Must Be <b>ACT</b> and <b>APPL STATE</b> Must Be <b>STBY</b> for Direct Link Nodes Not Assigned <b>1WAY IN</b> or <b>1WAY OUT</b>	-			

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

			DATE	TIME	SIGNATURE
81	Enter 1108 in Command Mode To Obtain Display Page 1108	-			
82	Ensure <b>LINK STATE</b> Is <b>AVL/IS</b> or <b>AVL/STBY</b> and <b>NODE STATE</b> Is <b>ACT</b> for Each Equipped Signaling Link	-			
83	At 1B MTC Terminal, Enter Message <b>OP:MSGRCD,FS!</b> To Clear Recorded Message Area on Disk ( <b>NG</b> Is Proper Response - No Messages To Clear on Disk)	-			
84	At I/O Terminal Other Than 1B MTC Terminal, Set Up Vacant Code Traps, As Required	DLP-556			
85	At 1B MTC Terminal, Enter Message <b>OP:TSGSTAT;SUM:ALL!</b> To Obtain Trunk Subgroup Status Summary. Compare Printout With Printout Saved in Item 6	-			
86	If Trunk Subgroup Discrepancies Exist Which Cannot Be Resolved With the Summary Printout, Request Appropriate Support Organization (TOC) To Initiate Request for Detailed Printout of Trunk Subgroup Status	-			
87	Request Appropriate Support Organization (TOC) To Initiate Sample Trunk Testing at Each Test Position	-			
88	Notify Network Management Center To Begin Checkout of Network Management System	DLP-557			
89	Review Maintenance Output Message; Account for Interrupts, Interjects, and Audit Reports; and Compare With Preupdate Office Performance Results	-			
90	Compare Count of Ineffective Machine Attempts With Preupdate Level	-			
91	If Office Provides CAMA Service, Monitor CAMA Call Activity; Compare With Expected Level	-			
92	Determine That Manually Placed Calls and System-Placed Test Calls Complete Successfully	-			
93	Test Scan and SD Points (Both 1B SSD Units Must Be Inservice)	DLP-598			
94	At 1B MTC Terminal, Enter Message <b>INIT:PUXINIT!</b>	-			
95	If Security Call Traps Existed Prior to Update, Request Network Management To Enter Security Call Traps Per Local Practice	-			

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**PERFORM GENERIC RETROFIT (LEC OFFICE ONLY)**

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

			DATE	TIME	SIGNATURE
	<b>NOTE:</b> Writing of long-term storage must be initiated during 7-minute window beginning 4 minutes past any quarter hour				
96	Write Backup Long-Term Storage (LTS) Tape	DLP-543			
97	At 1B Processor Utility System Workstation, Stop UCD Matcher Processes	DLP-614			
98	Load Library Package(s) That Is Required for Normal Local Use (if Not Loaded) and Library Package <b>LG19RCUA</b> , if Necessary for Recent Change Update Using New 4E19 Office Library Tape	DLP-530			
99	At 1B MTC Terminal, Enter Message <b>ALW:MACLI,CLASS MTCE!</b> To Allow REX	-			
100	At 3B MCRT, Enter Message <b>ALW:DMQ;SRC REX!</b> To Allow REX	-			
101	At 1B Processor MCC Terminal, Enter <b>108</b> To Obtain System Status Page (108)	-			
102	If <b>801 - RESTRICT RC</b> Is Colored Black on White, Enter <b>801</b>	-			
103	Reenter Recent Change Data				
	A. Reenter Recent Change Data Using Recent Change Library Program				
	1. Mount RC Message Tape Created Via Task 1 or 2 Without Write-Enable Ring Attached	DLP-529			
	2. Enter Message <b>SET:TUC a;FUNCTION UPD!</b> . Verify That Tape Header Information in Output Message Is Correct for Tape To Be Processed (a = TUC With Task 1 or 2 Tape Mounted)	-			
	3. Enter Message <b>ALW:TUC a:R0!</b>	-			
	4. Execute Task 3 of RCLI Library Program to Reenter Recent Changes Into System	DLP-558			
	5. Enter Message <b>CLR:ADSFUNC UPD!</b>	-			
	6. Demount RC Message Tape	DLP-528			
	B. If Reentering Recent Change Data at Office, Reenter Per Local Practice	-			
	C. Request MAC To Enter New Recent Change Data, As Required, Into System. Do Not Continue Until MAC Is Done	-			

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

			DATE	TIME	SIGNATURE
104	If Office Is CAMA Equipped, Install Any Special CAMA Data Per Local Practice, As Required	-			
105	At 1B MTC Terminal, Enter Message AUD:NUM (43,44,45)!!; Do Not Continue Until Audits Have Completed With 0 Errors	-			
106	Write Backup 1B Processor ODA Tapes (800 BPI)	DLP-583			
107	Write Updated Traffic and Plant Measurement (TPM) Schedule Tape	DLP-544			
108	If Any 4E19 Overwrites Are To Be Installed, Install Per Local Practice	-			
109	Write 1B Processor Generic Tapes (800 BPI)	DLP-584			
110	Write Backup Network Management (NWM) Tape (800 BPI)	DLP-562			
111	If Data Base Was Loaded by Off-Line Processor, Write 4E Library Tape(s) Using TWRL Library Program	DLP-568			
112	Write Backup 1B Processor ODA Tapes (1600 BPI), if Required	DLP-670			
113	Write Backup 1B Processor Generic Tapes (1600 BPI), if Required	DLP-671			
114	Request Next Higher Technical Support Group To Determine if Office Can Commit to 1B Processor Generic. Do Not Proceed Without Permission From Next Higher Technical Support Group	-			
	<i>WARNING: Item 115 will delete any reference to 4E18 generic in NORMAL and UPDATE files. File copy of 4E18 generic from 1AFILE backup partition to UPDATE file would have to be done before initializing 1A Processor</i>				
115	Commit to 1B Processor	DLP-591			
116	If System Fails and Backout Is Required, Perform NTP-010	-			
	<b>NOTE:</b> Items 117 through 120 are being performed to ensure that conversion switch units stay in 1B position				
117	At Each Conversion Switch Unit on All <b>TN1808/TN2808</b> Circuit Packs, Operate <b>ON-OFF</b> Switch to <b>OFF</b> Position	-			
	(Continued on Page 10)				

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

			DATE	TIME	SIGNATURE
118	At PCDF or BDFB, Locate Seven 1/2-Amp 70G (Red) Fuses Associated With Seven Conversion Switch Units and Remove. These Fuses Must Remain Close to PCDF or BDFB in Case Backout Is Required	-			
119	At PCDF or BDFB, Locate Seven 5-Amp 74C Fuses Associated With Seven Conversion Switch Units and Remove. These Fuses Must Remain Close to PCDF or BDFB in Case Backout Is Required	-			
120	At Indicator/Remote Conversion Switch Unit, Ensure <b>ALL-1B</b> Key and <b>ALL-1A</b> Key Switches Are in OFF Position	-			
121	Remove Keys From <b>ALL-1B</b> and <b>ALL-1A</b> Key Switches and Place in 1B MCC Console Drawer	-			
122	At 1B Processor MCC Terminal, Enter 106 To Obtain MUP Status and Control Page	-			
123	Enter 611 (NORMAL UTIL) (UAS:NORMAL UTIL Colored White on Black)	-			

**PERFORM GENERIC RETROFIT (LEC OFFICE ONLY)**

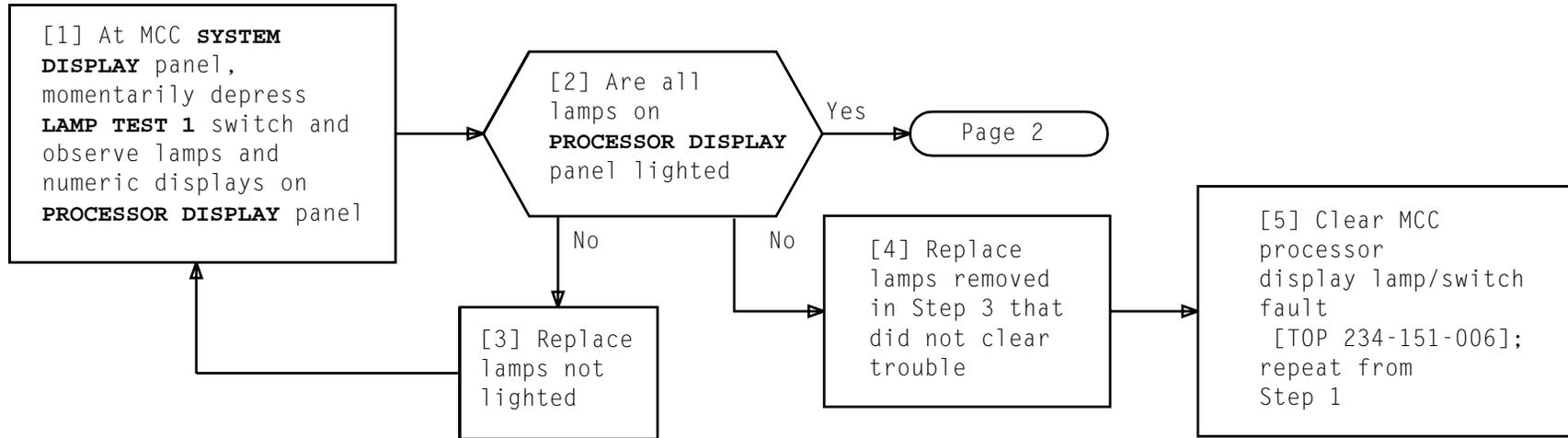
**DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO**

1	Determine Phone Number for Office Under Test/Being Backed Out and Record for Later Use	-
2	Determine Phone Number for Mini-Maintenance Operation Center (MMOC) and Record for Later Use	-
3	Set Up Conference Call With Office, PECC Diagnostic Center (1-800-225-4672), MMOC, and DMAC (1-800-232-6717)	-
	<b>NOTE:</b> At appropriate time, MMOC will notify DMAC to perform RUAS backout	
4	Request MMOC To Perform RUAS Backout to PreConfig File Procedure. Wait for MMOC To Complete Backout Before Proceeding	-
5	Request Installer To Verify RUAS Backout	DLP-655
6	Request PECC Diagnostic Center To Verify RUAS Backout	DLP-655
7	End Conference Call	-

SUMMARY

Depress each of the five **LAMP TEST** switches on MCC **SYSTEM DISPLAY** panel to light the lamps and numeric displays on MCC panels. After depressing **LAMP TEST** switch, check that the lamps and numeric displays light as indicated in

TABLES A-C. If lamp does not light, replace lamp. If lamp replacement does not clear the trouble or if numeric displays do not light as all 8s, refer to appropriate TAP in TOP 234-151-006



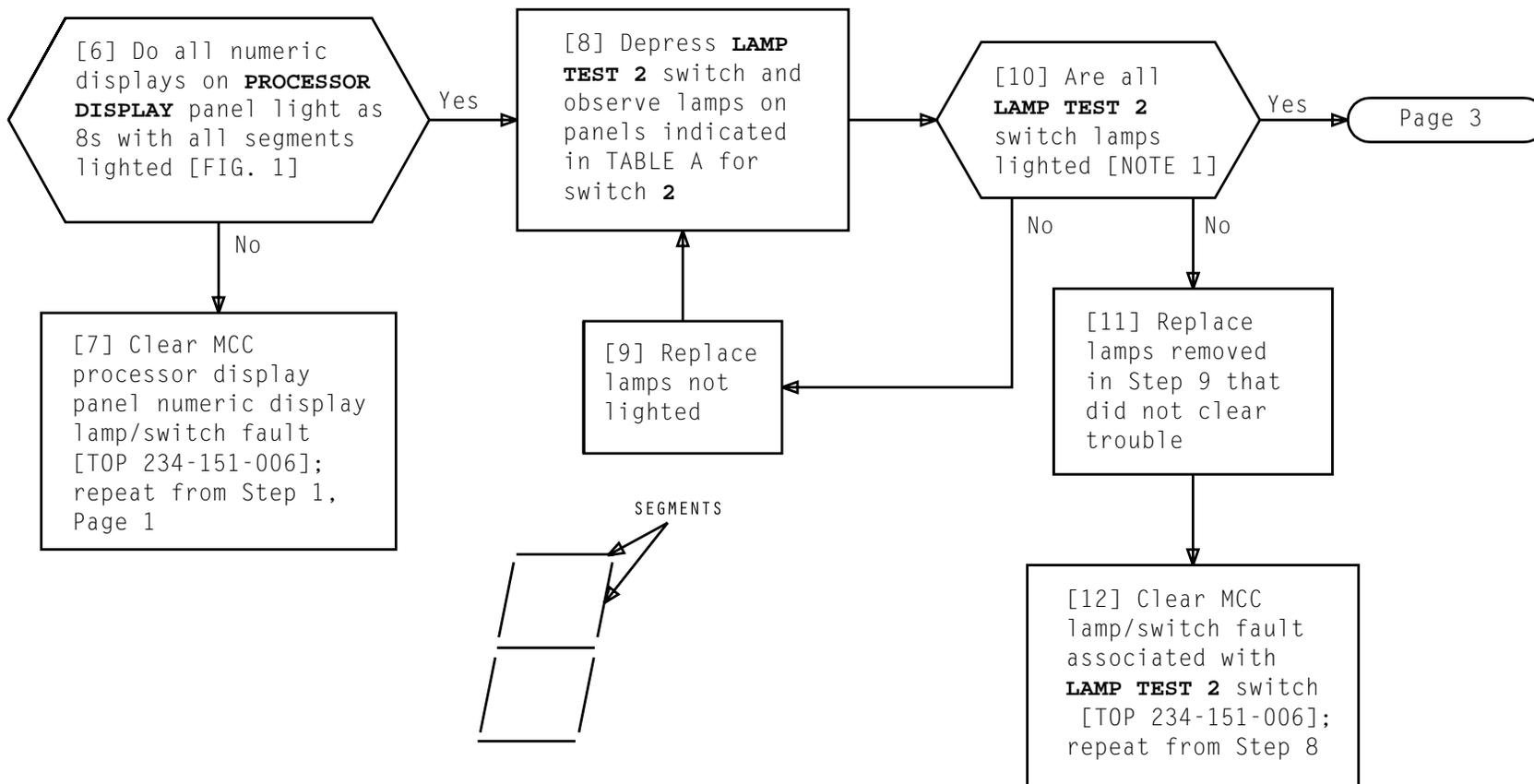


FIG. 1 - Numeric Display Segments

TABLE A	
LAMP TEST SWITCH	MCC PANELS LIGHTED
2	UPDATE, OVERRIDE CONTROL, SYSTEM REINITIALIZATION, PROCESSOR CONFIGURATION SEQUENCER, and MANUAL INTERRUPT PROGRAM REQUEST panels

NOTE 1  
**RESET COUNTER** and **ACTIVATE PC** switches on **PROCESSOR CONFIGURATION SEQUENCER** panel do not contain lamps. Also, the **ACTIVATE PROGRAM REQUEST** switch on **MANUAL INTERRUPT PROGRAM REQUEST** panel does not contain lamp

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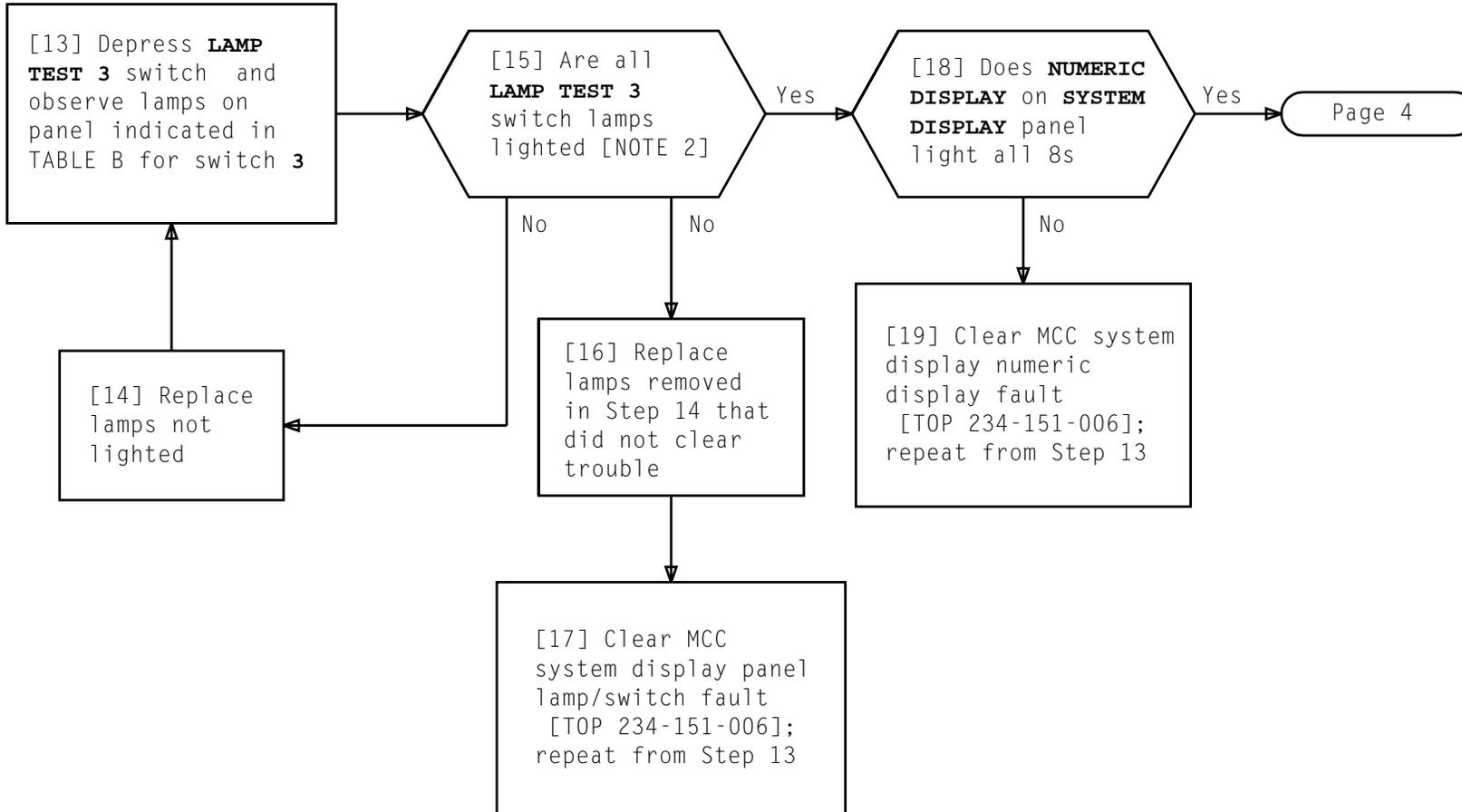


TABLE B	
LAMP TEST SWITCH	MCC PANEL LIGHTED
3	SYSTEM DISPLAY panel (except POWER STATUS-OS and PA lamps)

NOTE 2 LAMP TEST switches do not contain lamps	
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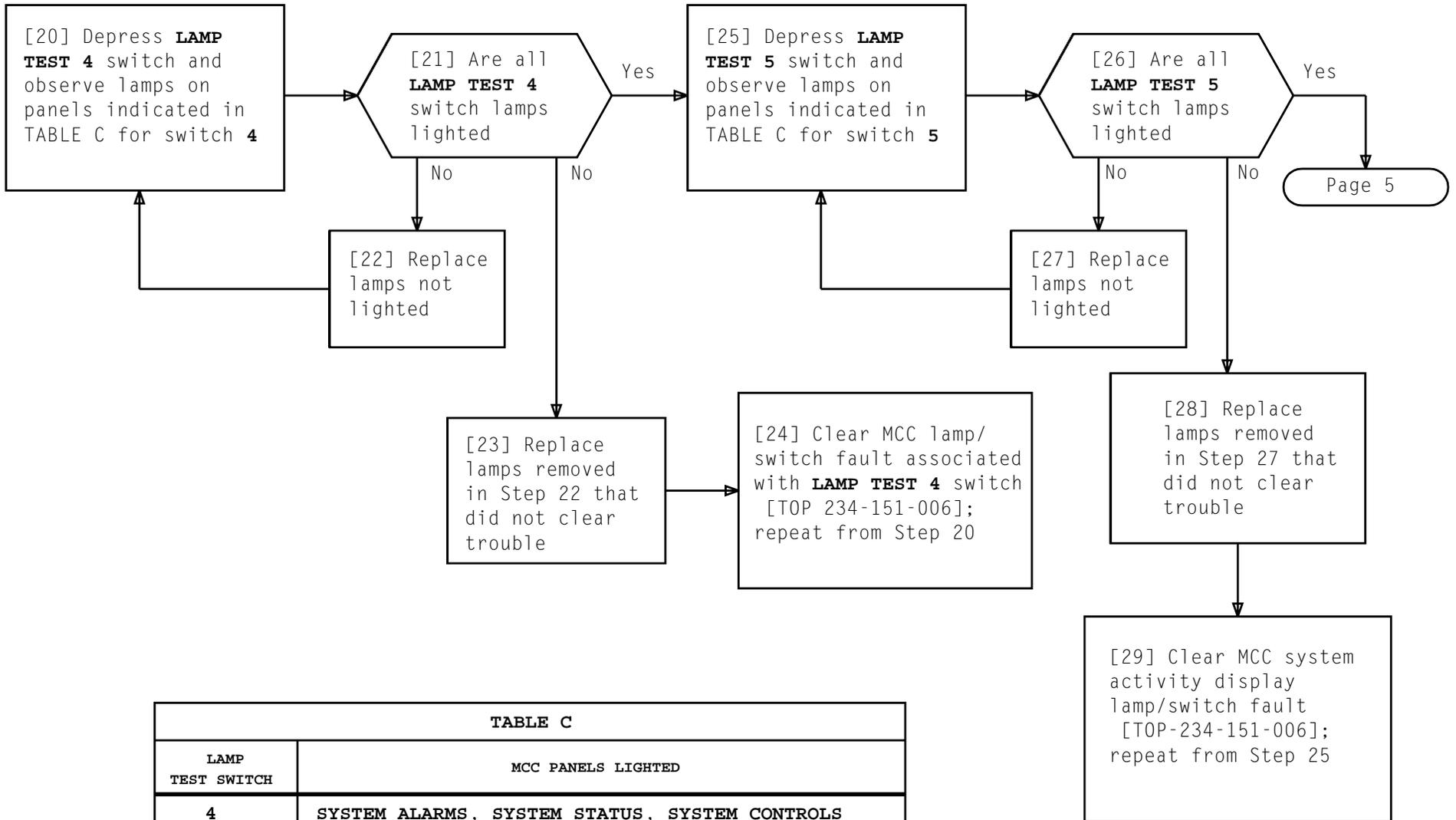
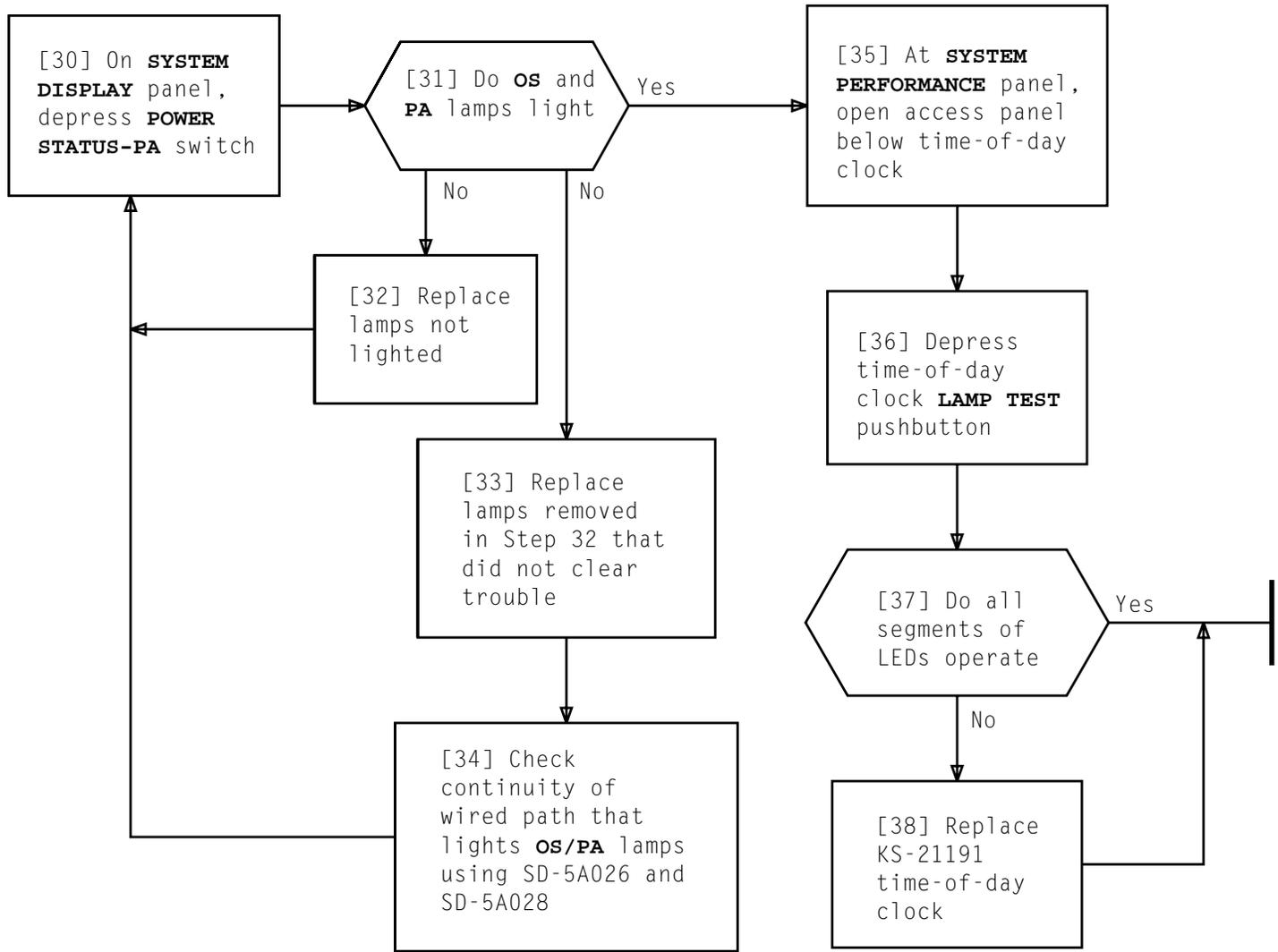


TABLE C	
LAMP TEST SWITCH	MCC PANELS LIGHTED
4	SYSTEM ALARMS, SYSTEM STATUS, SYSTEM CONTROLS EQUIPMENT STATUS, and TEST CALLS lamps on SYSTEM PERFORMANCE panel. Critical alarm sounds
5	SYSTEM ACTIVITY on SYSTEM PERFORMANCE panel



**PERFORM MASTER CONTROL CONSOLE LAMP TESTS**

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1. General

- 1.1 If any lamp or switch faults are detected during execution of these tests, refer to trouble analysis procedures in TOP 234-151-006 for repair
- 1.2 If a failure is detected in a test group, complete remaining steps in that group, then clear fault. Repeat group under test before continuing with tests in the next group
- 1.3 For each test, look for test number to appear on **NUMERIC DISPLAY** and **DIAGNOSIS IN PROGRESS** lamp to begin flashing; then proceed with the appropriate action to record the passing or failing of the test
- 1.4 Failure to perform required action within 20 seconds after **DIAGNOSIS IN PROGRESS** lamp on **SYSTEM STATUS** panel starts flashing, or next test number appears, will result in program stepping to next test and failure recorded for test not performed
- 1.5 This group of tests concerns lamps and keys on the **SYSTEM DISPLAY** panel

2. Test Sequence

2.1 Enter message DGN:MCC 0:PH 91!

*Response:* **37** is displayed on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

- (a) Ensure that **DATA INSERT** keys **21**, **22**, and **23** are off
- (b) Depress **DATA INSERT** key **13** to begin program unit 1 testing

2.3 If **NUMERIC DISPLAY** responds through sequence listed in TABLE A, then displays test number **61**, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

TABLE A		
SEQUENCE NUMBER	NUMERIC DISPLAY	DISPLAY TIME
1	111111	2 sec
2	222222	2 sec
3	333333	2 sec
4	444444	2 sec
5	555555	2 sec
6	666666	2 sec
7	777777	2 sec
8	888888	2 sec
9	999999	2 sec
10	000000	2 sec

2.4 As test numbers appear on **NUMERIC DISPLAY** per TABLE B, depress indicated **DATA INSERT** key

2.5 When test number appears on **NUMERIC DISPLAY** per TABLE C and associated **NUMERIC** or **BINARY DISPLAY SELECTION** key is lighted, depress lighted key

TABLE B			
NUMERIC DISPLAY TEST NUMBER	DATA INSERT KEY	NUMERIC DISPLAY TEST NUMBER	DATA INSERT KEY
63	0	111	12
65	0	113	12
67	1	115	13
69	1	117	13
71	2	119	14
73	2	121	14
75	3	123	15
77	3	125	15
79	4	127	16
81	4	129	16
83	5	131	17
85	5	133	17
87	6	135	18
89	6	137	18
91	7	139	19
93	7	141	19
95	8	143	20
97	8	145	20
99	9	147	21
101	9	149	21
103	10	151	22
105	10	153	22
107	11	155	23
109	11	157	23

TABLE C	
NUMERIC DISPLAY TEST NUMBER	NUMERIC OR BINARY DISPLAY SELECTION KEY
160	SR/UPDATE PROGRESS
163	CONTENTS OF MEMORY
166	MAC CLIENT
169	PHASE PROGRESS
172	CONTENTS OF MEMORY
175	SCAN POINT READING
178	OVERLOAD DATA

2.6 As each test number appears on **NUMERIC DISPLAY**, if listed **BINARY DISPLAY** lamp is lighted per TABLE D, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

TABLE D			
NUMERIC DISPLAY TEST NUMBER	BINARY DISPLAY LAMP	NUMERIC DISPLAY TEST NUMBER	BINARY DISPLAY LAMP
182	0	218	12
185	1	221	13
188	2	223	14
191	3	226	15
194	4	229	16
197	5	232	17
200	6	235	18
203	7	238	19
206	8	241	20
209	9	244	21
212	10	247	22
215	11	250	23

2.7 When test number, or octal number, appears per TABLE E, depress indicated **DISPLAY STATUS** key

*Note:* Octal numbers in this test indicate arbitrary failing addresses

TABLE E	
NUMERIC DISPLAY TEST NUMBER	DISPLAY STATUS KEY
253	FAIL ADDR
Octal number	FAIL ADDR
257	UTIL FLAG
Octal number	UTIL FLAG
261	HOLD
261	HOLD

2.8 When test number **265** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**

2.9 Depress to light **DATA INSERT** key **13**

*Response:* Printout indicating ATP or a list of failed tests

End of procedure

1. This group of tests concerns lamps and keys on the **MANUAL INTERRUPT PROGRAM REQUEST** panel

2. Test Sequence

2.1 Enter message DGN:MCC 0:PH 91!

*Response:* **37** is displayed on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

(a) Depress to light **DATA INSERT** key **21**

(b) Ensure that **DATA INSERT** keys **22** and **23** are off

(c) Depress **DATA INSERT** key **13** to begin program unit 2 testing

2.3 When test numbers in TABLE A appear (**267-361**), depress indicated **DIRECT DATA INSERT** key

TABLE A			
TEST NUMBER	DIRECT DATA INSERT KEY	TEST NUMBER	DIRECT DATA INSERT KEY
267	0	315	12
269	0	317	12
271	1	319	13
273	1	321	13
275	2	323	14
277	2	325	14
279	3	327	15
281	3	329	15
283	4	331	16
285	4	333	16
287	5	335	17
289	5	337	17
291	6	339	18
293	6	341	18
295	7	343	19
297	7	345	19
299	8	347	20
301	8	349	20
303	9	351	21
305	9	353	21
307	10	355	22
309	10	357	22
311	11	359	23
313	11	361	23

2.4 When test numbers in TABLE B appear (379-425), depress indicated key on **MANUAL INTERRUPT PROGRAM REQUEST** panel

TABLE B	
TEST NUMBER	MANUAL INTERRUPT PROGRAM REQUEST KEY
379	CLEAR UTILITY FUNCTION
381	CLEAR UTILITY FUNCTION
383	INHIBIT INTERRUPT
385	INHIBIT INTERRUPT
387	RESTORE MTCE I/O
389	RESTORE MTCE I/O
391	MODIFY RECOVERY ACTIONS
393	MODIFY RECOVERY ACTIONS
395	FULL CFG/EMER MODE
397	FULL CFG/EMER MODE
399	MIN CFG/EMER MODE
401	MIN CFG/EMER MODE
403	PHASE - 6 - REQUEST
405	PHASE - 6 - REQUEST
407	PHASE - 5 - REQUEST
409	PHASE - 5 - REQUEST
411	PHASE - 4 - REQUEST
413	PHASE - 4 - REQUEST
415	PHASE - 3 - REQUEST
417	PHASE - 3 - REQUEST
419	PHASE - 2 - REQUEST
421	PHASE - 2 - REQUEST
423	PHASE - 1 - REQUEST
425	PHASE - 1 - REQUEST

2.5 When test numbers in TABLE C appear (428-456), if indicated **MANUAL INTERRUPT PROGRAM REQUEST** lamp is lighted, depress **DATA INSERT** key 1; otherwise, depress **DATA INSERT** key 0

TABLE C	
NUMERIC DISPLAY TEST NUMBER	MANUAL INTERRUPT PROGRAM REQUEST LAMP
428	FULL CFG
432	MIN CFG
436	PHASE - 6 - IN PROG
440	PHASE - 5 - IN PROG
444	PHASE - 4 - IN PROG
448	PHASE - 3 - IN PROG
452	PHASE - 2 - IN PROG
456	PHASE - 1 - IN PROG

2.6 When test number 459 appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys 21, 22, and 23

2.7 Depress to light **DATA INSERT** key 13

*Response:* Printout indicating ATP or a list of failed tests

End of Procedure

**RUN PHASE 91 PROGRAM UNIT 2 MANUAL INTERRUPT PROGRAM REQUEST TESTS**

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1. This group of tests concerns keys on the **OVERRIDE CONTROL** panel

*Caution: **ACTIVATE OVERRIDE IN EFFECT** key should not be depressed during this test*

*Note: The red **NO OVERRIDE** lamp will be lighted whenever an **OVERRIDE CONTROL** key is operated*

2. Test Sequence

- 2.1 Enter message DGN:MCC 0:PH 91!

*Response: 37 is displayed on **NUMERIC DISPLAY***

- 2.2 At **SYSTEM DISPLAY** panel:

- (a) Depress to light **DATA INSERT** key 22

- (b) Ensure that **DATA INSERT** keys 21 and 23 are off

- (c) Depress **DATA INSERT** key 13 to begin program unit 3 testing

- 2.3 Depress any lighted keys on **OVERRIDE CONTROL** panel to off

- 2.4 When test number 461 appears on **NUMERIC DISPLAY**, depress **DATA INSERT** key 1

- 2.5 When test numbers appear per TABLE A, depress indicated key on **OVERRIDE CONTROL** panel

- 2.6 When test number 501 appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys 21, 22, and 23

- 2.7 Depress to light **DATA INSERT** key 13

*Response: Printout indicating ATP or a listing of failed tests*

End of Procedure

TABLE A	
TEST NUMBER	OVERRIDE CONTROL KEY
465	VARIABLE PS 1
467	VARIABLE PS 1
469	VARIABLE PS 0
471	VARIABLE PS 0
473	AU BUS 1
475	AU BUS 1
477	PS BUS 1
479	PS BUS 1
481	CC1
483	CC1
485	BLOCK 0 PS 0
487	BLOCK 0 PS 0
489	AU BUS 0
491	AU BUS 0
493	PS BUS 0
495	PS BUS 0
497	CC0
499	CC0

1. This group of tests concerns keys on the **UPDATE** panel

2. Test Sequence

2.1 Enter message DGN:MCC 0:PH 91!

*Response:* **37** is displayed on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

(a) Depress to light **DATA INSERT** keys **21** and **22**

(b) Ensure that **DATA INSERT** key **23** is off

(c) Depress **DATA INSERT** key **13** to begin program unit 4 testing

2.3 When test number appears per TABLE A, depress indicated **UPDATE** key

2.4 When test number **516** appears on **NUMERIC DISPLAY**, if **UPDATE - IN PROGRESS** lamp is lighted, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

2.5 When test number **519** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**

2.6 Depress to light **DATA INSERT** key **13**

*Response:* Printout indicating ATP or a listing of failed tests

End of Procedure

TABLE A	
TEST NUMBER	UPDATE KEY
503	UPDATE
506	UPDATE
509	NORMAL
512	NORMAL

1. General

- 1.1 This group of tests concerns lamps on the **PROCESSOR CONFIGURATION SEQUENCER** panel
- 1.2 On tests **524**, **526**, and **528** the indicated lamp will light for approximately 10 seconds, go out, then the test number will be displayed

2. Test Sequence

2.1 Enter message **DGN:MCC 0:PH 91!**

*Response:* **37** is displayed on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

- (a) Depress to light **DATA INSERT** key **23**
- (b) Ensure that **DATA INSERT** keys **21** and **22** are off
- (c) Depress **DATA INSERT** key **13** to begin program unit 5 testing

At **PROCESSOR CONFIGURATION SEQUENCER** panel:

2.3 When test number **521** appears, depress **DISABLE AUTO PC** key

*Response:* Lamp lights

2.4 When test number **522** appears, depress **DISABLE AUTO PC** key

*Response:* Lamp goes off

2.5 When test numbers appear per TABLE A, if listed **PROCESSOR CONFIGURATION SEQUENCER** lamp was lighted, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

TABLE A	
TEST NUMBER	PROCESSOR CONFIGURATION SEQUENCER LAMP
524	BASIC PROCESSOR *
526	CALL STORE *
528	PROGRAM STORE *
530	PROCESSOR CONFIG COMPLETE
* Lamp lights for approximately 10 seconds, goes out, and then test number is displayed	

2.6 When test number **532** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**

2.7 Depress to light **DATA INSERT** key **13**

*Response:* Printout indicating ATP or a list of failed tests

End of procedure

1. General

1.1 This group of tests concerns the PS/CS Member Number display on the **PROCESSOR DISPLAY** panel

2. Test Sequence

2.1 Enter message DGN:MCC 0:PH 91!

*Response:* **37** to appear on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

- (a) Depress to light **DATA INSERT** keys **21** and **23**
- (b) Ensure that **DATA INSERT** key **22** is off
- (c) Depress **DATA INSERT** key **13** to begin program unit 6 testing

2.3 If **PS-MEMBER NO** display sequence is as indicated in TABLE A, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

TABLE A	
TEST NUMBER	PROCESSOR DISPLAY – PS MEMBER NO DISPLAY SEQUENCE
555 *	00, 11, 22, 33, 44, 55, 66, 77, 78 and 79
* Test number is not displayed until after last member number is displayed	

2.4 If **CS-MEMBER NO** display sequence is as indicated in TABLE B, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

TABLE B	
TEST NUMBER	PROCESSOR DISPLAY – CS MEMBER NO DISPLAY SEQUENCE
578 *	00, 11, 22, 33, 44, 55, 66, 77, 78 and 79
* Test number is not displayed until after last member number is displayed	

2.5 When test number **581** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**

2.6 Depress to light **DATA INSERT** key **13**

*Response:* Printout indicating ATP or a list of the failed tests

End of procedure

1. General

- 1.1 If any lamp or switch faults are detected during execution of these tests, refer to trouble analysis procedures in TOP 234-151-006 for repair
- 1.2 If a failure is detected in a test group, complete remaining steps in that group, then clear fault. Repeat group under test before continuing with tests in the next group
- 1.3 For each test, look for test number to appear on **NUMERIC DISPLAY** and **DIAGNOSIS IN PROGRESS** lamp to begin flashing, then proceed with the appropriate action to record the passing or failing of the test
- 1.4 Failure to perform required action within 20 seconds after **DIAGNOSIS IN PROGRESS** lamp starts flashing or next test number appears, will result in program stepping to next test and failure recorded for test not performed
- 1.5 This group of tests concerns lamps on the **SYSTEM PERFORMANCE** panel

2. Test Sequence

- 2.1 Enter message DGN:MCC 0:PH 92!

*Response:* **36** is displayed on **NUMERIC DISPLAY**

At **SYSTEM DISPLAY** panel:

- 2.2 If **DATA INSERT** keys **21**, **22**, and **23** are lighted, depress these keys to turn them off
- 2.3 Depress **DATA INSERT** key **13** to begin Program Unit 1 testing

At **SYSTEM PERFORMANCE** panel:

- 2.4 Observe **SYSTEM ACTIVITY** display as the 10 LEDs and the **THRESHOLD EXCEEDED** lamp lights for each activity in TABLE A. If LEDs and lamp are lighted, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**

TABLE A	
NUMERIC DISPLAY TEST NUMBER	SYSTEM ACTIVITY LAMP
39	BASE CYCLE TIME
41	TRAFFIC INCOMING
43	CALL REGISTER OCCUPANCY
45	CALLS QUEUED FOR SERV
47	TEST CALL SEIZURE TIME
49	DISK REQUESTS QUEUED
51	SWITCHING INEFF ATTEMPTS
53	EQUIP INEFF ATTEMPTS
55	NETWORK OCCUPANCY

- 2.5 When test numbers in TABLE B appear, if indicated lamp is lighted, depress **DATA INSERT** key 1; otherwise, depress **DATA INSERT** key 0
- 2.6 When test number **76** appears on **NUMERIC DISPLAY**, depress **TEST CALLS-FAIL** key after lamp lights
- 2.7 When test number **77** appears, if **TEST CALL-PASS** lamp is lighted, depress **DATA INSERT** key 1; otherwise, depress **DATA INSERT** key 0
- 2.8 When test number **78** appears, if **TEST CALL-MONITOR INHIBITED** lamp is lighted, depress **DATA INSERT** key 1; otherwise, depress **DATA INSERT** key 0
- 2.9 When test number **80** appears, depress to light **DATA INSERT** keys **21**, **22**, and **23**
- 2.10 Depress to light **DATA INSERT** key **13**
- Response:* Printout indicating ATP or the test number of the failed test(s)

End of procedure

TABLE B	
NUMERIC DISPLAY TEST NUMBER	SYSTEM PERFORMANCE LAMP
59	BASE CYCLE TIME
61	TRAFFIC INCOMING
63	CALL REGISTER OCCUPANCY
65	CALLS QUEUED FOR SERV
67	TEST CALL SEIZURE TIME
69	DISK REQUESTS QUEUED
71	SWITCHING INEFF ATTEMPTS
73	EQUIP INEFF ATTEMPTS
75	NETWORK OCCUPANCY

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1. General

1.1 This group of tests concerns lamps and keys on the **SYSTEM ALARMS** panel

2. Test Sequence

2.1 Enter message DGN:MCC 0:PH 92!

*Response:* **36** is displayed on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

(a) Depress to light **DATA INSERT** key **21**

(b) Ensure that **DATA INSERT** keys **22** and **23** are off

(c) Depress **DATA INSERT** key **13** to begin Program Unit 2 testing

2.3 Perform required actions as stated in TABLE A, Page 2

2.4 When **NUMERIC DISPLAY** displays **125**, depress to light **DATA INSERT** keys **21**, **22**, and **23**

2.5 Depress to light **DATA INSERT** key **13**

*Response:* Printout indicating ATP or the test numbers of the failed test(s)

End of procedure

**TABLE A  
SYSTEM ALARMS PANEL TESTS**

<b>TEST NUMBER</b>	<b>ACTION</b>	<b>TEST NUMBER</b>	<b>ACTION</b>
87	Depress <b>RECENT CHANGE ROLLBACK</b> key if lamp is lighted	105	If <b>BILLING RECORDING STOPPED</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
89	Depress <b>DIAGNOSIS FAILURE</b> key if lamp is lighted	107	If <b>SERVICE DEGRADING FAILURE</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
91	Depress <b>MTCE INTERRUPT</b> key if lamp is lighted	109	Depress <b>SERVICE DEGRADING FAILURE</b> key (lamp does not light)
93	Depress <b>STORE REGEN</b> key if lamp is lighted	110	Depress <b>SERVICE DEGRADING FAILURE</b> key (lamp does not light)
95	Depress <b>MEMORY RECOVERY PHASE</b> key if lamp is lighted	112	If <b>CHANGE TAPE</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
97	Depress <b>PC CIRCUIT ACTIVATED</b> key if lamp is lighted	114	If <b>CARRIER GROUP</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
99	Depress <b>SYS PERF DISPLAY TIMEOUT</b> key if lamp is lighted	116	If <b>EQUIPMENT POWER ALARM</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
101	If <b>REFSTAT</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0	118	If <b>POWER ROOM</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
102	If <b>FREERUN</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0	120	If <b>MINOR</b> lamp is lighted, depress key
103	Depress <b>REFSTAT/FREERUN</b> key	122	If <b>MAJOR</b> lamp is lighted, (alarm will sound) depress key
104	Depress <b>REFSTAT/FREERUN</b> key	124	If <b>CRITICAL</b> lamp is lighted, (alarm will sound) depress key

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1. General

- 1.1 This group of tests concerns lamps and keys on the **SYSTEM STATUS** panel
- 1.2 Before starting this test sequence, check the Network Management Control Frame for relay **DOCT** (location 051-35). If this relay has not been installed, test **170** times out and tests **171, 174,** and **175** are skipped, and test failure will be recorded for test **170**.

2. Test Sequence

2.1 Enter message DGN:MCC 0:PH 92!

*Response:* **36** is displayed on **NUMERIC DISPLAY**

2.2 At **SYSTEM DISPLAY** panel:

- (a) Depress to light **DATA INSERT** key **22**
- (b) Ensure that **DATA INSERT** keys **21** and **23** are off
- (c) Depress **DATA INSERT** key **13** to begin Program Unit 3 testing.

2.3 Perform required actions as stated in TABLE A, Pages 2 and 3, when test number **132** appears

2.4 When test number **183** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21, 22,** and **23**

2.5 Depress to light **DATA INSERT** key **13**

*Response:* Printout indicating ATP or the test numbers of the failed test(s)

End of procedure

TABLE A

TEST NUMBER	ACTION	TEST NUMBER	ACTION
132	If <b>INTERRUPT INHIBITED</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0	157	If <b>ONI CAMA SUSPENDED</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
134	Depress <b>INTERRUPT INHIBITED</b> key	160	If <b>MANUAL</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
135	Depress <b>INTERRUPT INHIBITED</b> key	162	Depress <b>MANUAL</b> key
137	If <b>TTY MESSAGE INHIBITED</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0	163	Depress <b>MANUAL</b> key
139	Depress <b>TTY MESSAGE INHIBITED</b> key	165	If <b>AUTO</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
140	Depress <b>TTY MESSAGE INHIBITED</b> key	167	Depress <b>AUTO</b> key
142	If <b>OVERLOAD CONTROLS IN EFFECT</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0	168	Depress <b>AUTO</b> key
144	Depress <b>OVERLOAD CONTROLS IN EFFECT</b> key	*170	Depress <b>MC3 ACT/DISAB</b> key
145	Depress <b>OVERLOAD CONTROLS IN EFFECT</b> key	*171	If bottom half of <b>MC3 ACT/DISAB</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0 pushbutton. <i>There will be a 30-second delay</i> , then top half of <b>MC3 ACT/DISAB</b> lamp should light and go off before test number 174 appears on <b>NUMERIC DISPLAY</b> . Also, the critical alarm lamp will light, and alarm bells will ring for up to 30 seconds. DOC inconsistency report will print out
147	If <b>SPECIAL CAMA RECORD</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0	*174	If top half of <b>MC3 ACT/DISAB</b> has lighted and extinguished, depress <b>DATA INSERT</b> key 1; otherwise, (lamp did not light or remains lighted) depress <b>DATA INSERT</b> key 0. <i>Caution: Do not depress MC3 ACT/DISAB pushbutton if both halves of the lamp remain lighted.</i>
149	Depress <b>SPECIAL CAMA RECORD</b> key	*175	If only bottom half of lamp is lighted, depress <b>MC3 ACT/DISAB</b> key
150	Depress <b>SPECIAL CAMA RECORD</b> key		
152	If <b>PROGRAM CONTROL OFF NORM</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0		
154	Depress <b>PROGRAM CONTROL OFF NORM</b> key		
155	Depress <b>PROGRAM CONTROL OFF NORM</b> key		

\* The program may bypass these test numbers

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TABLE A (Contd)	
TEST NUMBER	ACTION
177	If <b>RESTRICT RECENT CHANGES</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
179	Depress <b>RESTRICT RECENT CHANGES</b> key
180	Depress <b>RESTRICT RECENT CHANGES</b> key
181	If <b>RB AREA CAPACITY WARNING</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0
182	If <b>ACTIVITY</b> lamp is lighted, depress <b>DATA INSERT</b> key 1; otherwise, depress <b>DATA INSERT</b> key 0

1. This group of tests concerns lamps and keys on the **SYSTEM CONTROLS** panel
  2. Test Sequence
    - 2.1 Enter message DGN:MCC 0:PH 92!  
*Response:* **36** is displayed on **NUMERIC DISPLAY**
    - 2.2 At **SYSTEM DISPLAY** panel:
      - (a) Depress to light **DATA INSERT** keys **21** and **22**
      - (b) Ensure that **DATA INSERT** key **23** is off
      - (c) Depress **DATA INSERT** key **13** to begin Program Unit 4 testing
    - 2.3 Perform required actions as stated in TABLE A when test numbers appear
    - 2.4 When test number **212** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**
    - 2.5 Depress to light **DATA INSERT** key **13**  
*Response:* Printout indicating ATP or the test numbers of the failed test(s)
- End of procedure

<b>TABLE A</b> <b>SYSTEM CONTROLS PANEL TESTS</b>	
<b>TEST NUMBER</b>	<b>ACTION</b>
187	Depress <b>ELEVATE AUDIT PRINTOUT</b> key
188	Depress <b>ELEVATE AUDIT PRINTOUT</b> key
189	Depress <b>INHIBIT AUDIT PRINTOUT</b> key
190	Depress <b>INHIBIT AUDIT PRINTOUT</b> key
191	Depress <b>INHIBIT INTERRUPT PRINTOUT</b> key
192	Depress <b>INHIBIT INTERRUPT PRINTOUT</b> key
193	Depress <b>INHIBIT SUPP INT PRINTOUT</b> key
194	Depress <b>INHIBIT SUPP INT PRINTOUT</b> key
196	If <b>FOR ATR/REQUEST</b> lamp is lighted, depress <b>DATA INSERT</b> key <b>1</b> ; otherwise, depress <b>DATA INSERT</b> key <b>0</b>
198	Depress <b>FOR ATR/REQUEST</b> key
199	Depress <b>FOR ATR/REQUEST</b> key
201	If <b>REINIT TTY SYSTEM</b> lamp is lighted, depress <b>DATA INSERT</b> key <b>1</b> ; otherwise, depress <b>DATA INSERT</b> key <b>0</b>
203	Depress <b>REINIT TTY SYSTEM</b> key
204	Depress <b>REINIT TTY SYSTEM</b> key
206	If <b>REQUEST TTY AUDIT</b> lamp is lighted, depress <b>DATA INSERT</b> key <b>1</b> ; otherwise, depress <b>DATA INSERT</b> key <b>0</b>
208	Depress <b>REQUEST TTY AUDIT</b> key
209	Depress <b>REQUEST TTY AUDIT</b> key
210	Depress <b>CANCEL OVERLOAD CONTROL</b> key
211	Depress <b>CANCEL OVERLOAD CONTROL</b> key

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1. This group of tests concerns lamps on the **EQUIPMENT STATUS** panel
  2. Test Sequence
    - 2.1 Enter message DGN:MCC 0:PH 92!  
*Response:* **36** is displayed on **NUMERIC DISPLAY**
    - 2.2 At **SYSTEM DISPLAY** panel:
      - (a) Depress to light **DATA INSERT** key **23**
      - (b) Ensure that **DATA INSERT** keys **21** and **22** are off
      - (c) Depress **DATA INSERT** key **13** to begin Program Unit 5 testing
    - 2.3 When test numbers in TABLE A, Page 2, appear, if listed **EQUIPMENT STATUS** lamp is lighted, depress **DATA INSERT** key **1**; otherwise, depress **DATA INSERT** key **0**
    - 2.4 When test number **351** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**
    - 2.5 Depress to light **DATA INSERT** key **13**  
*Response:* Printout indicating ATP or the test numbers of the failed test(s)
- End of procedure

TABLE A					
TEST NUMBER	EQUIPMENT STATUS LAMPS	LAMP COLOR	TEST NUMBER	EQUIPMENT STATUS LAMPS	LAMP COLOR
219	CC0	RED	275	SIGNAL PROCESSOR	RED
221	CC1		277	CCIS SLK	
223	PROGRAM STORES		279	CCIS	
225	CALL STORES		281	VOICE INTERFACE UNIT	
227	API		283	DIGROUP TERMINAL	
229	Blank key to right of API key		285	SYS CLOCK	
231	PS BUS 0		287	NCLK SYNC	
233	PS BUS 1		289	RT SIDE 0	
235	CS BUS 0		291	RT SIDE 1	
237	CS BUS 1		293	RECORDED ANN	
239	AU BUS 0		295	SERVICE CIRCUITS	
241	AU BUS 1		297	ECHO SUPP TERMINAL	
243	PU BUS 0		299	DIGITAL INTERFACE	
245	PU BUS 1		308	PROGRAM STORES	AMBER
247	DATA UNIT SELECTORS		310	CALL STORES	
249	TAPE UNIT CONT		312	API	
251	CAMA TAPE UNIT		314	Blank key to right of API key	
253	DATA LINK CONT		316	DATA UNIT SELECTORS	
255	I/O UNIT SELECTORS		318	TAPE UNIT CONT	
257	I/O UNIT CONT		320	CAMA TAPE UNIT	
259	PROCESSOR PWR CONV AND DIST		322	DATA LINK CONT	
260	Depress DATA INSERT key 13		324	I/O UNIT SELECTORS	
265	PERIPH UNIT CONT/SCS		326	I/O UNIT CONT	
267	MASS ANN SYSTEM/Blank key		328	PROCESSOR PWR CONV AND DIST	
269	TIME MULTIPLEX SWITCH		346	RECORDED ANN	
271	TIME SLOT INTER		348	SERVICE CIRCUITS	
273	NETWORK CLOCK		350	DIGITAL INTERFACE	

1. This group of tests concerns lamps and keys on the **EQUIPMENT STATUS** panel
  
2. Test Sequence
  - 2.1 Enter message DGN:MCC 0:PH 92!  
*Response:* **36** is displayed on **NUMERIC DISPLAY**
  - 2.2 At **SYSTEM DISPLAY** panel:
    - (a) Depress to light **DATA INSERT** keys **21** and **23**
    - (b) Ensure that **DATA INSERT** key **22** is off
    - (c) Depress **DATA INSERT** key **13** to begin  
 Program Unit 5A testing
  - 2.3 In TABLE A, Page 2, when test number appears on **NUMERIC DISPLAY**, depress indicated **EQUIPMENT STATUS** key
  - 2.4 When test number **426** appears on **NUMERIC DISPLAY**, depress to light **DATA INSERT** keys **21**, **22**, and **23**
  - 2.5 Depress to light **DATA INSERT** key **13**  
*Response:* Printout indicating ATP or the test numbers of the failed test(s)

End of procedure

TABLE A			
TEST NUMBER	EQUIPMENT STATUS LAMPS *	TEST NUMBER	EQUIPMENT STATUS LAMPS *
355	CC0/CC1	391	PERIPH UNIT CONT/SCS
356	CC0/CC1	392	PERIPH UNIT CONT/SCS
357	PROGRAM STORES	393	MASS ANN SYSTEM/Blank key
358	PROGRAM STORES	394	MASS ANN SYSTEM/Blank key
359	CALL STORES	395	TIME MULTIPLEX SWITCH
360	CALL STORES	396	TIME MULTIPLEX SWITCH
361	API	397	TIME SLOT INTER
362	API	398	TIME SLOT INTER
363	Blank key to right of API key	399	NETWORK CLOCK
364	Blank key to right of API key	400	NETWORK CLOCK
365	PS BUS 0/PS BUS 1	401	SIGNAL PROCESSOR
366	PS BUS 0/PS BUS 1	402	SIGNAL PROCESSOR
367	CS BUS 0/CS BUS 1	403	CCIS SLK/CCIS VFL
368	CS BUS 0/CS BUS 1	404	CCIS SLK/CCIS VFL
369	AU BUS 0/AU BUS 1	405	CCIS
370	AU BUS 0/AU BUS 1	406	CCIS
371	PU BUS 0/PU BUS 1	407	VOICE INTERFACE UNIT
372	PU BUS 0/PU BUS 1	408	VOICE INTERFACE UNIT
373	DATA UNIT SELECTORS	409	DIGROUP TERMINAL
374	DATA UNIT SELECTORS	410	DIGROUP TERMINAL
375	TAPE UNIT CONT	411	SYS CLOCK/NCLK SYNC
376	TAPE UNIT CONT	412	SYS CLOCK/NCLK SYNC
377	CAMA TAPE UNIT	413	RT SIDE 0/RT SIDE 1
378	CAMA TAPE UNIT	414	RT SIDE 0/RT SIDE 1
379	DATA LINK CONT	415	RECORDED ANN
380	DATA LINK CONT	416	RECORDED ANN
381	I/O UNIT SELECTORS	417	SERVICE CIRCUITS
382	I/O UNIT SELECTORS	418	SERVICE CIRCUITS
383	I/O UNIT CONT	419	ECHO SUPP TERMINAL
384	I/O UNIT CONT	420	ECHO SUPP TERMINAL
385	PROCESSOR PWR CONV AND DIST	421	DIGITAL INTERFACE
386	PROCESSOR PWR CONV AND DIST	422	DIGITAL INTERFACE
387	Depress DATA INSERT key 13		

\* Lamps do not light during test

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

[2] Using printout, determine  
program stores assigned  
K-code 20

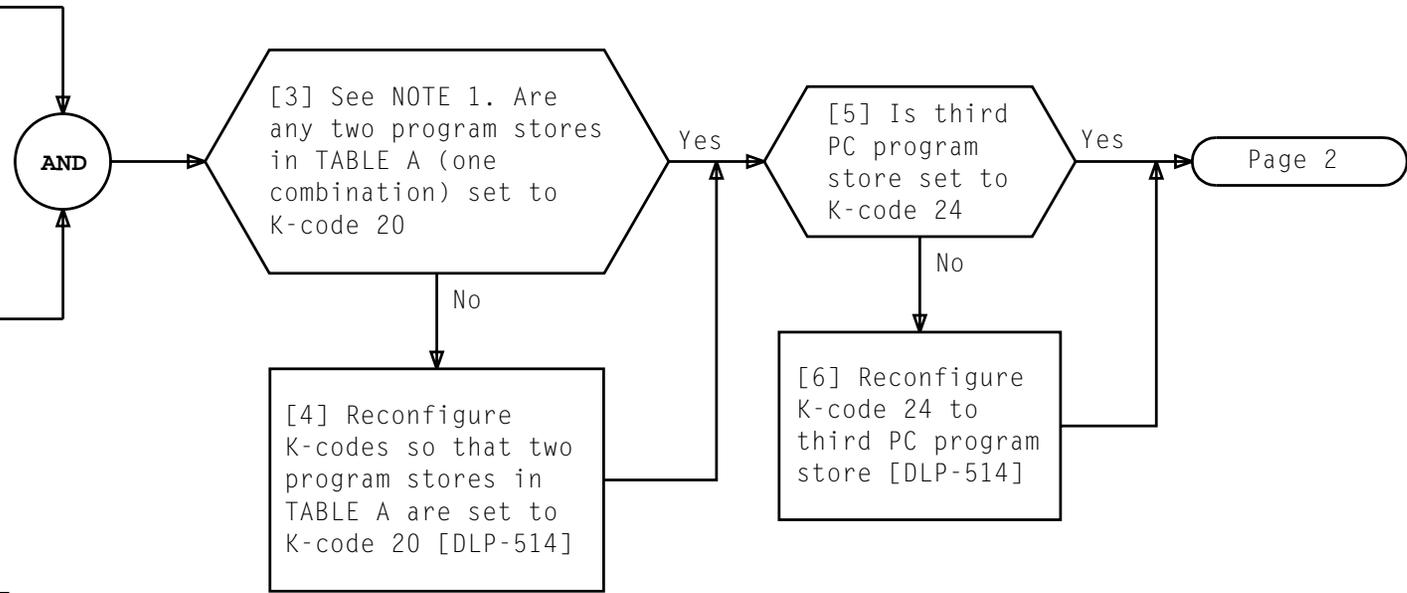
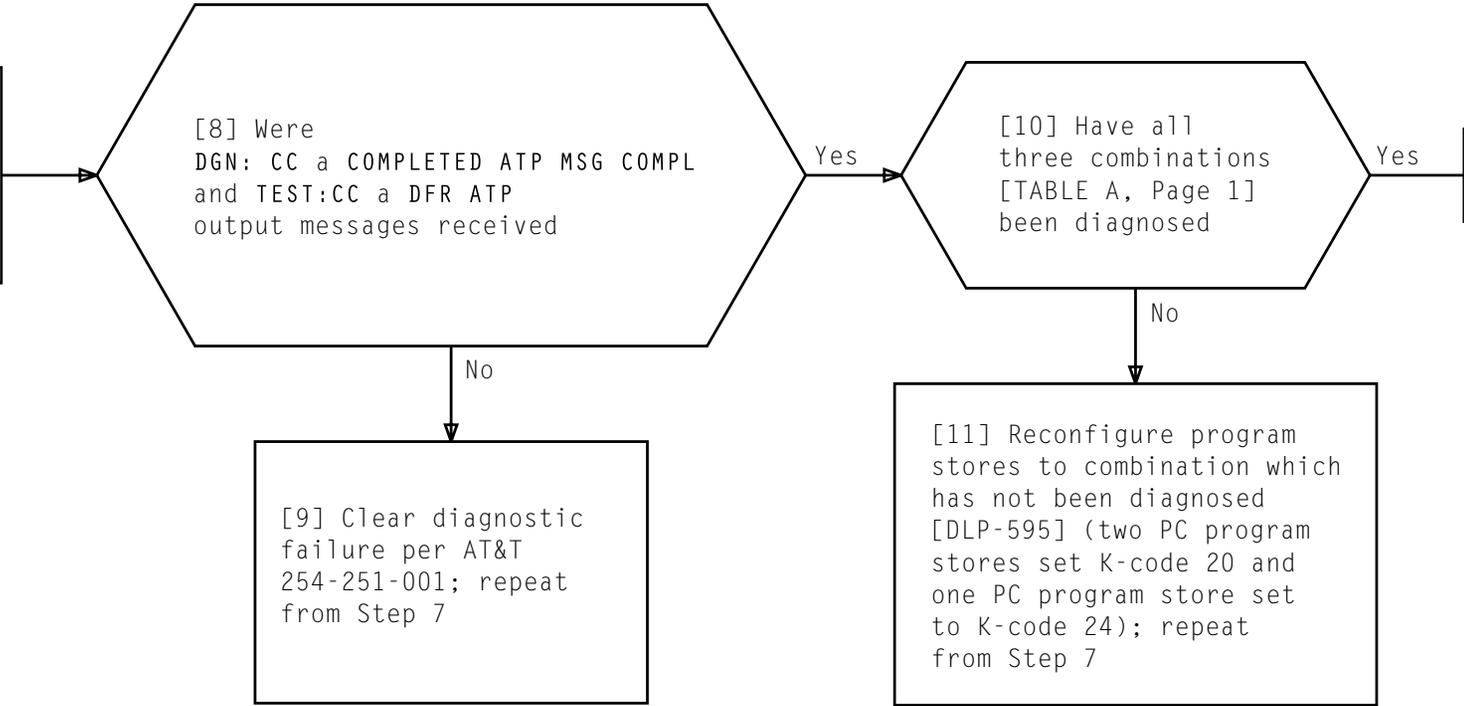


TABLE A	
PC PS COMBINATIONS	
256K START OFFICE	64K START OFFICE
0 and 2	18 and 20
0 and 4	18 and 22
2 and 4	20 and 22

NOTE 1	
If office was equipped initially with 256 K stores, program stores 0, 2, and 4 are normally the PC stores (K-code 20). If office was equipped initially with 64 K stores that were replaced by 256 K stores, program stores 18, 20, and 22 are normally the PC stores	
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[7] At MTC terminal,  
enter message  
DGN:CC a:PC!  
a = Standby CC



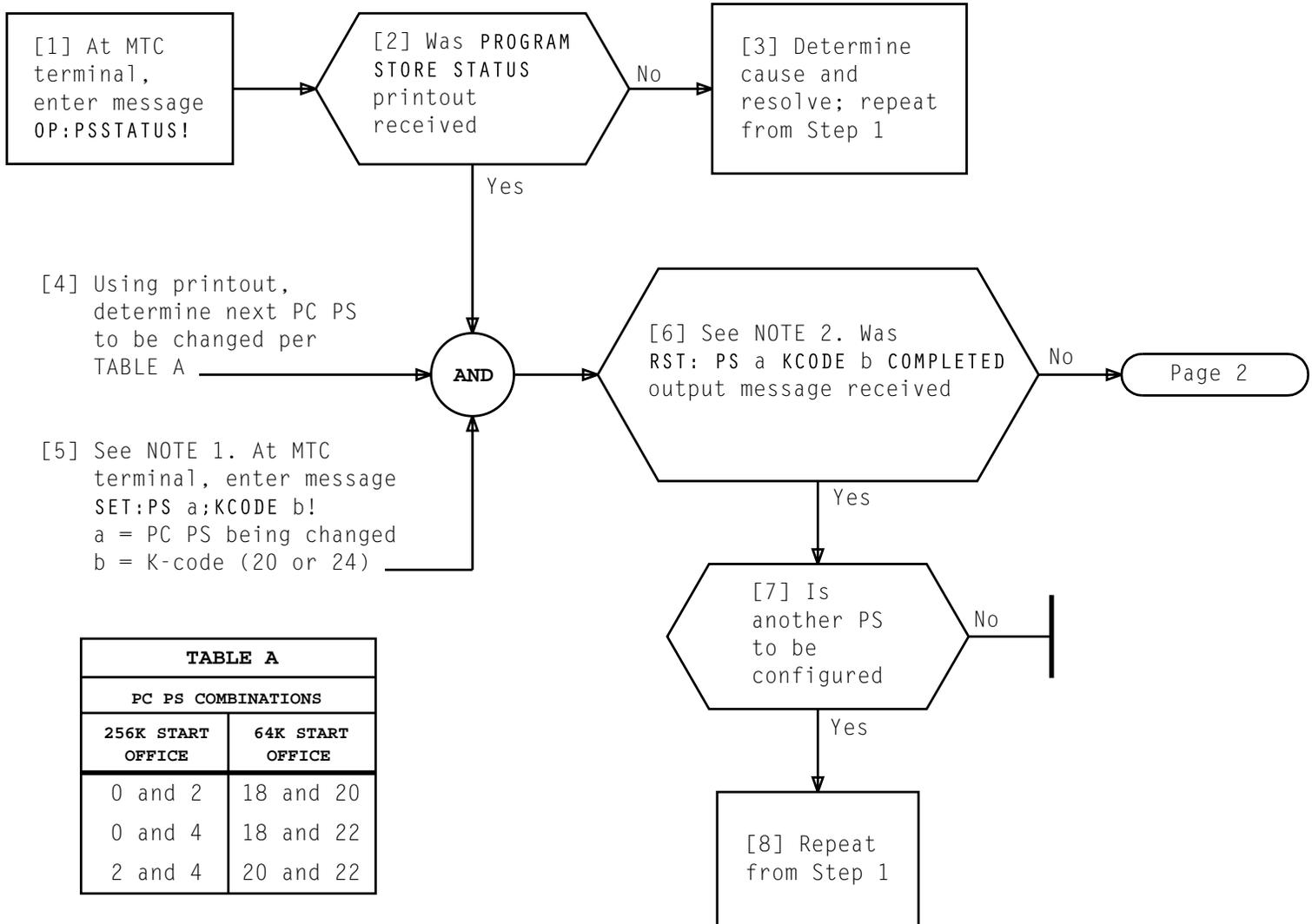
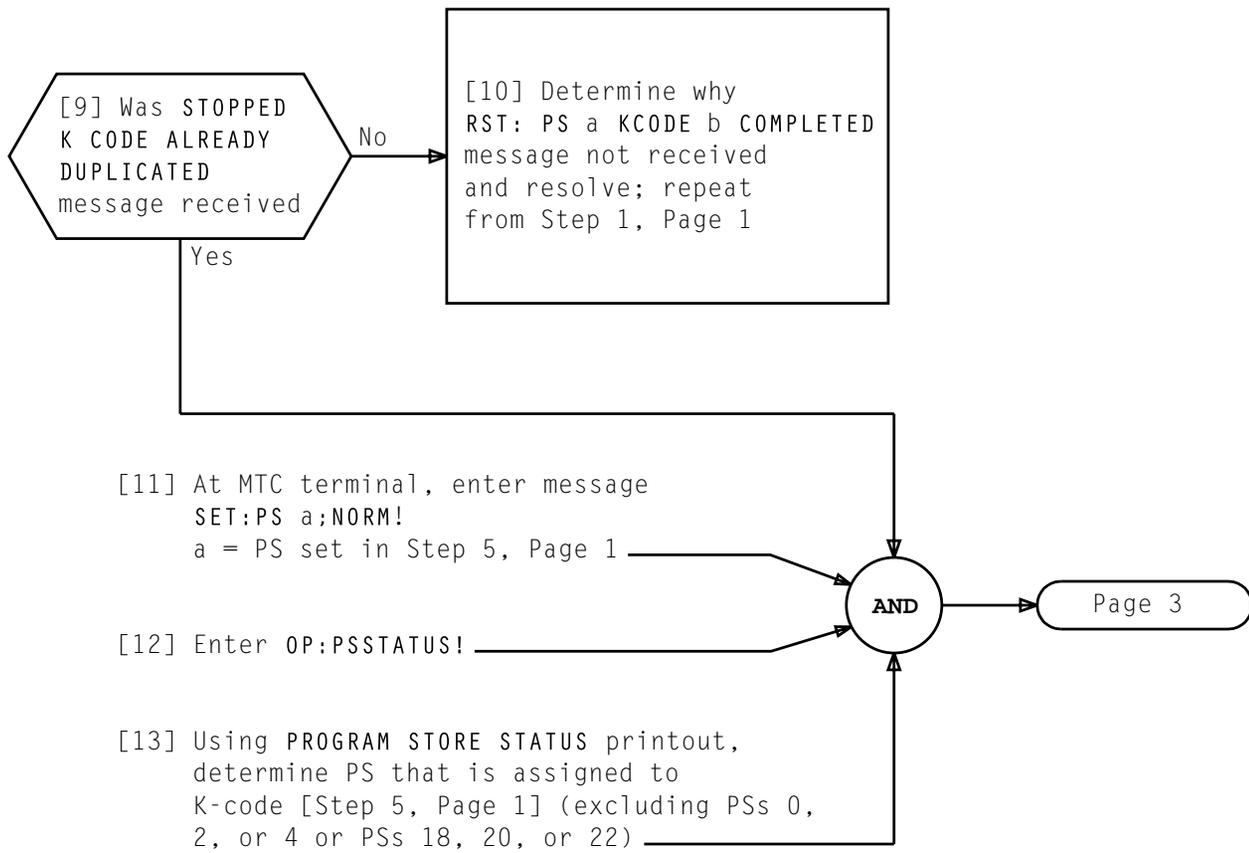
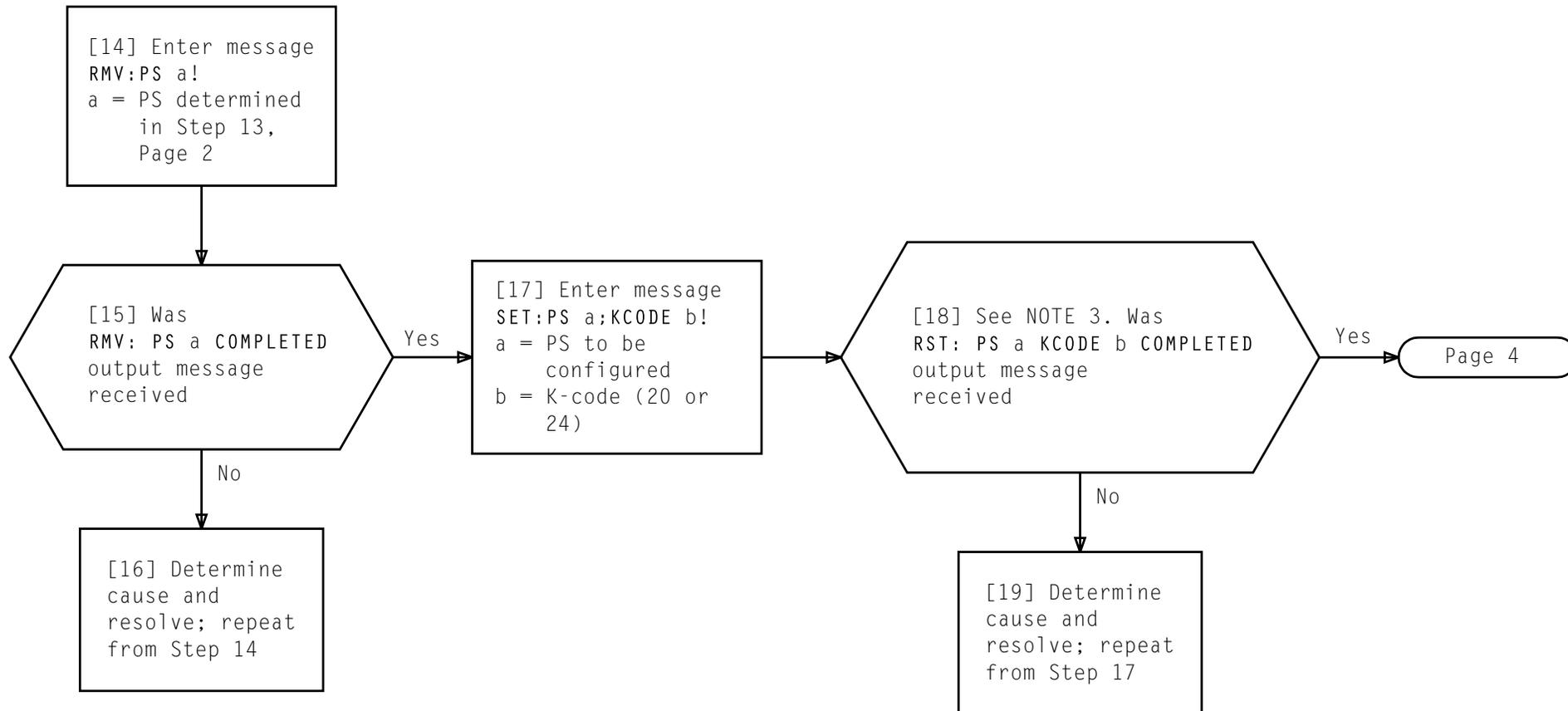


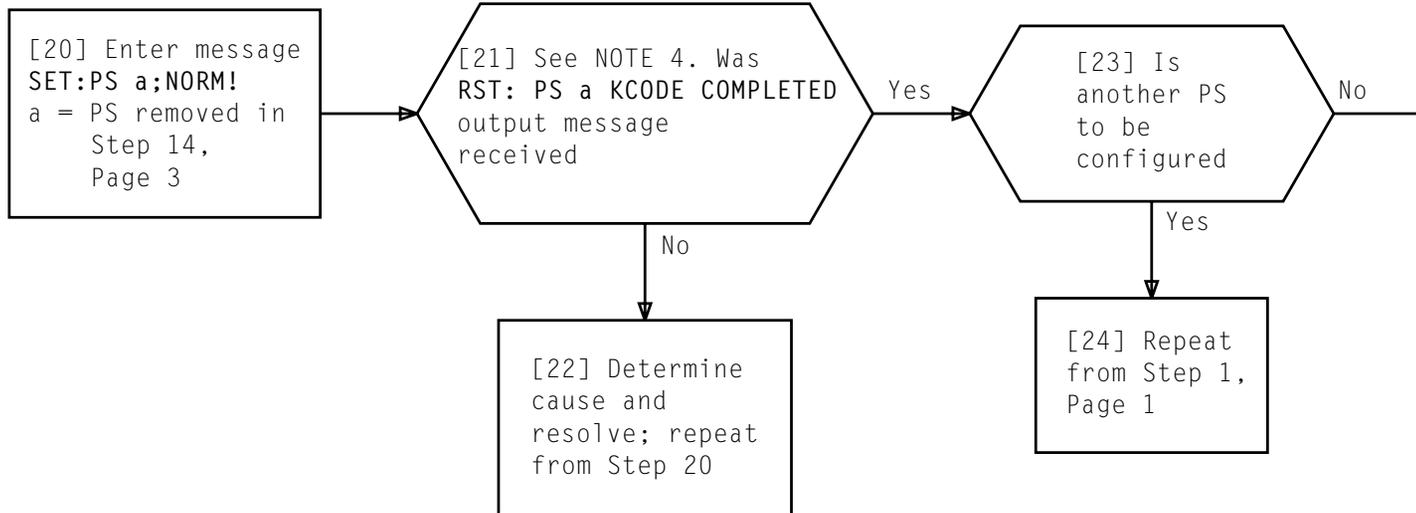
TABLE A	
PC PS COMBINATIONS	
256K START OFFICE	64K START OFFICE
0 and 2	18 and 20
0 and 4	18 and 22
2 and 4	20 and 22

NOTES	
1. Program store may need to be removed in order to set PC PS to appropriate K-code	
2. CATP bit 15 will be received if standby CC is out-of-service	
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NOTE 3 CATP bit 15 will be received if standby CC is out-of-service	
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NOTE 4 CATP bit 15 will be received if standby CC is out-of-service	
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## 1. General

- 1.1 This test procedure concerns lamp switches on **SYSTEM REINITIALIZATION** and **MANUAL INTERRUPT PROGRAM REQUEST** panels.
- 1.2 Before this test procedure can be run, PC PS K-codes must be checked (Steps 2.3 and 2.7, Page 2). If PC PS K-codes are not set to an acceptable configuration, they must be reset: K-codes can be reset via DLP-514.
- 1.3 This test procedure is initiated by typing DGN:MCC 0:PH 94! (Step 2.11, Page 2). After **37** is displayed on **NUMERIC DISPLAY** at **SYSTEM DISPLAY** panel, 20 seconds are allowed to set **DATA INSERT** keys (Step 2.12, Page 2). This program will then step to the first test (Step 2.13, Page 2). As each test number is displayed, 1 minute is allowed for the operator to perform actions related to that test. Actions to be performed are listed with test numbers in TABLE C, Pages 4 and 5.
- 1.4 In tests 44 through 80, the operator is asked to depress and hold **INVALID SELECTION** key at **SYSTEM REINITIALIZATION** panel; then while holding **INVALID SELECTION** key, depress and hold **DIRECT DATA INSERT 1** key at **MANUAL INTERRUPT PROGRAM REQUEST** panel until test number on **NUMERIC DISPLAY** changes. If **INVALID SELECTION** and **DIRECT DATA INSERT 1** keys are not depressed in the right order or are not held until test number on **NUMERIC DISPLAY** changes, the processor will record a failure for test just completed.
- 1.5 After performing last action listed in TABLE C, test procedure is ended by setting **DATA INSERT 13** key (Step 2.14, Page 2). This test is repeated three times to test PC PSs under all three K-code configurations (Step 2.15, Page 2)

## 2. Test Sequence

### 2.1 Read CAUTION and NOTE

*Caution: Read entire procedure and familiarize yourself with the MCC before performing this diagnostic. If this procedure is performed improperly, or **ACTIVATE OVERRIDE IN EFFECT, ACTIVATE PC or ACTIVATE PROGRAM REQUEST** key is depressed, call processing will be lost.*

*Note: Failure to set **DATA INSERT** keys within 20 seconds after first and last test numbers appear will result in the program stepping to next test and recording a failure for the missed test.*

### 2.2 At TTY, enter message OP:PSSTATUS!

### 2.3 Using **PROGRAM STORE STATUS** printout, determine if two PC PSs (one combination per TABLE A) are configured to K-code 20

TABLE A	
PC PS COMBINATIONS	
256K START OFFICE	64K START OFFICE
0 and 2	18 and 20
0 and 4	18 and 22
2 and 4	20 and 22

2. Test Sequence (Contd)

- 2.4 If two PC PSs are configured to K-code 20, go to Step 2.8; otherwise, continue
- 2.5 Configure two PC PSs to K-code 20 via DLP-514
- 2.6 At MTC Terminal enter message OP:PSSTATUS!
- 2.7 Using **PROGRAM STORE STATUS** printout, determine if third PC PS is configured to K-code 24
- 2.8 If third PC PS is configured to K-code 24, go to Step 2.10; otherwise, continue
- 2.9 Configure third PC PS to K-code 24 via DLP-514
- 2.10 Ensure that all lamps listed in TABLE B, Page 3, are off
- 2.11 At MTC Terminal enter message DGN:MCC 0:PH 94!  
*Response:* **37** displayed on **NUMERIC DISPLAY**
- 2.12 At **SYSTEM DISPLAY** panel:
  - (a) Depress to light **DATA INSERT 21** key
  - (b) Ensure that **DATA INSERT 22** and **23** keys are not lighted
  - (c) Depress **DATA INSERT 13** key to begin Soft A-Level tests
- 2.13 As each test number appears on **NUMERIC DISPLAY**:
  - (a) Ensure that **DIAGNOSIS IN PROGRESS** lamp flashes
  - (b) Perform action(s) listed in TABLE C, Pages 4 and 5
- 2.14 Depress to light **DATA INSERT 13** key. Read NOTE  
*Response:* Printout indicating results of Soft A-Level tests  
  
*Note:* Expect CATP with bit 20 set. If STF or CATP with any other bit set is received, do not continue Phase 94 testing until problems corrected.

- 2.15 If procedure has not been run for all three combinations of PC PSs (See TABLE A, Page 1), reconfigure PC PSs to a combination which has not been tested using DLP-595; then repeat procedure from Step 2.6
- 2.16 If Phase 94 testing is to be stopped:  
at MTC Terminal enter message RST:MCC 0!

End of procedure

TABLE B	
LAMP/SWITCH	PANEL SECTION
NORMAL UPDATE	UPDATE
BLOCK 0 PS 0 VARIABLE PS 0 VARIABLE PS 1 AU BUS 0 AU BUS 1 PS BUS 0 PS BUS 1 CC0 CC1	OVERRIDE CONTROL
ENABLE DATA UNIT	SYSTEM REINITIALIZATION
DISABLE AUTO PC	PROCESSOR CONFIGURATION SEQUENCER
CLEAR UTILITY FUNCTION INHIBIT INTERRUPT RESTORE MTCE I/O MODIFY RECOVERY ACTIONS FULL CFG/EMER MODE MIN CFG/EMER MODE PHASE 6 IN PROG REQUEST PHASE 5 IN PROG REQUEST PHASE 4 IN PROG REQUEST PHASE 3 IN PROG REQUEST PHASE 2 IN PROG REQUEST PHASE 1 IN PROG REQUEST	MANUAL INTERRUPT PROGRAM REQUEST
MC 3 ACT/MC 3 DISAB	SYSTEM STATUS

TABLE C

TEST NUMBER	ACTIONS TO BE PERFORMED	TEST NUMBER	ACTIONS TO BE PERFORMED
38	Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes	62	Depress <b>FULL CFG/EMER MODE</b> key (lamp off). Depress <b>MIN CFG/EMER MODE</b> key ( <b>EMER MODE</b> lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
41	Depress <b>DIRECT DATA INSERT 1</b> key	65	Depress <b>MIN CFG/EMER MODE</b> key (lamp off). Depress <b>PHASE 6</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
43	Observe <b>INVALID SELECTION</b> key. If lamp is lighted, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key	68	Depress <b>PHASE 6</b> key (lamp off). Depress <b>PHASE 5</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
44	Depress <b>CLEAR UTILITY FUNCTION</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes	71	Depress <b>PHASE 5</b> key (lamp off). Depress <b>PHASE 4</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
48	Depress <b>CLEAR UTILITY FUNCTION</b> key (lamp off). Depress <b>INHIBIT INTERRUPT</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes	74	Depress <b>PHASE 4</b> key (lamp off). Depress <b>PHASE 3</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
53	Depress <b>INHIBIT INTERRUPT</b> key (lamp off). Depress <b>RESTORE MTCE I/O</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes		
56	Depress <b>RESTORE MTCE I/O</b> key (lamp off). Depress <b>MODIFY RECOVERY ACTIONS</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes		
59	Depress <b>MODIFY RECOVERY ACTIONS</b> key (lamp off). Depress <b>FULL CFG/EMER MODE</b> key ( <b>EMER MODE</b> lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes		

TABLE C (Contd)	
TEST NUMBER	ACTIONS TO BE PERFORMED
77	Depress <b>PHASE 3</b> key (lamp off). Depress <b>PHASE 2</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
80	Depress <b>PHASE 2</b> key (lamp off). Depress <b>PHASE 1</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes
84	Depress <b>PHASE 1</b> key (lamp off). Depress <b>DATA INSERT 21, 22, and 23</b> keys (lamps light). Go to Step 2.14, Page 2

## 1. General

- 1.1 This test procedure concerns lamp switches on **OVERRIDE CONTROL** panel.
- 1.2 Before this test procedure can be run, PS K-codes must be checked (Steps 2.4 and 2.8, Page 2). If PS K-codes are not set to an acceptable configuration, they must be reset: K-codes can be reset via DLP-514.
- 1.3 This test procedure is initiated by typing DGN:MCC 0:PH 94! (Step 2.12, Page 2). After **37** is displayed on **NUMERIC DISPLAY** at **SYSTEM DISPLAY** panel, 20 seconds are allowed to set **DATA INSERT** keys (Step 2.13, Page 2). This program will then step to the first test (Step 2.14, Page 2). As each test number is displayed, 1 minute is allowed for the operator to perform actions related to that test. Actions to be performed are listed with test numbers in TABLE C, Pages 4 and 5
- 1.4 In tests 85 and 94 through 115, the operator is asked to depress and hold **INVALID SELECTION** key at **SYSTEM REINITIALIZATION** panel; then while holding **INVALID SELECTION** key, depress and hold the **DIRECT DATA INSERT 1** key at **MANUAL INTERRUPT PROGRAM REQUEST** panel until test number on **NUMERIC DISPLAY** changes. If **INVALID SELECTION** and **DIRECT DATA INSERT 1** keys are not depressed in the right order, or are not held until test number changes, the processor will record a failure for test just completed
- 1.5 In tests 89 and 90, the operator is asked to depress and hold **INVALID SELECTION** key, then while holding **INVALID SELECTION** key, depress and hold **DIRECT DATA INSERT 0** or **DIRECT DATA INSERT 1** key until test number on **NUMERIC DISPLAY** changes. The **DIRECT DATA INSERT** key depressed (**0** and **1**) is determined by operator observations
- 1.6 After performing last action listed in TABLE C, test procedure is ended by setting the **DATA INSERT 13** key (Step 2.15, Page 2). This test procedure is repeated

three times in order to test PC PSs under all three K-code configurations (Step 2.16, Page 2)

## 2. Test Sequence

### 2.1 Read CAUTION and NOTE

*Caution: Read entire procedure and familiarize yourself with the MCC before performing this diagnostic. If this procedure is performed improperly, or **ACTIVATE OVERRIDE IN EFFECT**, **ACTIVATE PC**, or **ACTIVATE PROGRAM REQUEST** key is depressed, call processing will be lost.*

*Note: Failure to set **DATA INSERT** keys within 20 seconds after first and last test numbers appear will result in the program stepping to next test and recording a failure for the missed test.*

### 2.2 At TTY, enter message 0P:PSSTATUS!

2.3 Using **PROGRAM STORE STATUS** printout, determine which CC (0 or 1) is active

2.4 Using **PROGRAM STORE STATUS** printout, determine if two PC PSs (one combination per TABLE A) are configured to K-code 20

TABLE A	
PC PS COMBINATIONS	
256K START OFFICE	64K START OFFICE
0 and 2	18 and 20
0 and 4	18 and 22
2 and 4	20 and 22

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2. Test Sequence (Contd)

2.5 If two PC PSs are configured to K-code 20, go to Step 2.8; otherwise, continue

2.6 Configure two PC PSs to K-code 20 via DLP-514

2.7 At MTC Terminal enter message OP:PSSTATUS!

2.8 Using **PROGRAM STORE STATUS** printout, determine if third PC PS is configured to K-code 24

2.9 If third PC PS is configured to K-code 24, go to Step 2.11; otherwise, continue

2.10 Configure third PC PS to K-code 24 via DLP-514

2.11 Ensure that all lamps listed in TABLE B, Page 3 are off

2.12 At MTC Terminal enter message DGN:MCC 0:PH 94!

*Response:* **37** displayed on **NUMERIC DISPLAY**

2.13 At **SYSTEM DISPLAY** panel:

(a) Depress to light **DATA INSERT 22** key

(b) Ensure that **DATA INSERT 21** and **23** keys are not lighted

(c) Depress **DATA INSERT 13** key to begin Hard A-Level tests

2.14 As each test number appears on **NUMERIC DISPLAY**:

(a) Ensure that **DIAGNOSIS IN PROGRESS** lamp flashes

(b) Perform action(s) listed in TABLE C, Pages 4 and 5

2.15 Depress to light **DATA INSERT 13** key. Read NOTE

*Response:* Printout indicating results of Hard A-Level tests

*Note:* Expect CATP with bits 19 and 23 set. If STF or CATP with any other bit set is received, do not continue Phase 94 testing until problems corrected.

2.16 If procedure has not been run for all three combinations of PC PSs (See TABLE A, Page 1), reconfigure PC PSs to a combination which has not been tested using DLP-595; then repeat procedure from Step 2.7

2.17 If Phase 94 testing is to be stopped: at MTC Terminal enter message RST:MCC 0!

End of procedure

TABLE B	
LAMP/SWITCH	PANEL SECTION
NORMAL UPDATE	UPDATE
BLOCK 0 PS 0 VARIABLE PS 0 VARIABLE PS 1 AU BUS 0 AU BUS 1 PS BUS 0 PS BUS 1 CC0 CC1	OVERRIDE CONTROL
ENABLE DATA UNIT	SYSTEM REINITIALIZATION
DISABLE AUTO PC	PROCESSOR CONFIGURATION SEQUENCER
CLEAR UTILITY FUNCTION INHIBIT INTERRUPT RESTORE MTCE I/O MODIFY RECOVERY ACTIONS FULL CFG/EMER MODE MIN CFG/EMER MODE PHASE 6 IN PROG REQUEST PHASE 5 IN PROG REQUEST PHASE 4 IN PROG REQUEST PHASE 3 IN PROG REQUEST PHASE 2 IN PROG REQUEST PHASE 1 IN PROG REQUEST	MANUAL INTERRUPT PROGRAM REQUEST
MC 3 ACT/MC 3 DISAB	SYSTEM STATUS

**TABLE C**

TEST NUMBER	ACTIONS TO BE PERFORMED	TEST NUMBER	ACTIONS TO BE PERFORMED
85	Depress <b>CC0</b> or <b>CC1</b> (corresponding to active CC) key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.	91	Depress <b>CC0</b> or <b>CC1</b> (corresponding to active CC) key (lamp off). Depress <b>CC0</b> or <b>CC1</b> (corresponding to standby CC) key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
89	Observe <b>ACTIVATE OVERRIDE IN EFFECT</b> lamp. If lamp is on, depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes; otherwise, depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 0</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.	94	Depress <b>CC0</b> or <b>CC1</b> (corresponding to standby CC) key (lamp off). Depress <b>BLOCK 0 PS 0</b> , <b>AU BUS 0</b> , <b>PS BUS 0</b> , and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps light). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
90	Observe <b>ACTIVATE OVERRIDE IN EFFECT</b> lamp. If lamp is off, depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes; otherwise, depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 0</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.	101	Depress <b>BLOCK 0 PS 0</b> , <b>AU BUS 0</b> , <b>PS BUS 0</b> , and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps off). Depress <b>VARIABLE PS 0</b> , <b>AU BUS 1</b> , <b>PS BUS 1</b> , and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps light). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.

TABLE C (Contd)	
TEST NUMBER	ACTIONS TO BE PERFORMED
108	Depress <b>VARIABLE PS 0, AU BUS 1, PS BUS 1,</b> and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps off). Depress <b>VARIABLE PS 1, AU BUS 0, PS BUS 0,</b> and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps light). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
115	Depress <b>VARIABLE PS 1, AU BUS 0, PS BUS 0,</b> and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps off). Depress <b>BLOCK 0 PS 0, AU BUS 1, PS BUS 1,</b> and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps light). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
123	Depress <b>BLOCK 0 PS 0, AU BUS 1, PS BUS 1,</b> and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamps off). Depress <b>DATA INSERT 21, 22,</b> and <b>23</b> (lamps light). Go to Step 2.15, Page 2

## 1. General

- 1.1 This test procedure concerns lamp switches on **PROCESSOR CONFIGURATION SEQUENCER, OVERRIDE CONTROL,** and **UPDATE** panels.
- 1.2 Before this test procedure can be run, PC PS K-codes must be checked (Steps 2.4 and 2.8, Page 2). If PC PS K-codes are not set to an acceptable configuration, they must be reset: K-codes can be reset via DLP-514.
- 1.3 This test procedure is initiated by typing DGN:MCC 0:PH 94! (Step 2.12, Page 2). After **37** is displayed on **NUMERIC DISPLAY** at **SYSTEM DISPLAY** panel, 20 seconds are allowed to set **DATA INSERT** keys (Step 2.13, Page 2). This program will then step to the first test (Step 2.14, Page 2). As each test number is displayed, 1 minute is allowed for the operator to perform actions related to that test. Actions to be performed are listed with test numbers in TABLE C, Pages 4 and 5.
- 1.4 In these tests the operator is asked to depress and hold **INVALID SELECTION** key at **SYSTEM REINITIALIZATION** panel; then while holding **INVALID SELECTION** key, depress and hold **DIRECT DATA INSERT 1** or **DIRECT DATA INSERT 0** key at **MANUAL INTERRUPT PROGRAM REQUEST** panel until test number on **NUMERIC DISPLAY** changes. If **INVALID SELECTION** key and **DIRECT DATA INSERT 1** key are not depressed in the right order or are not held until test number changes, the processor will record a failure for the test just completed.
- 1.5 After performing last action listed in TABLE C, test results are printed out. This test procedure is repeated three times in order to test PC PSs under all three K-codes configurations (Step 2.16, Page 2).

## 2. Test Sequence

### 2.1 Read CAUTION and NOTE

*Caution: Read entire procedure and familiarize yourself with the MCC before performing this diagnostic. If this procedure is performed improperly, or **ACTIVATE OVERRIDE IN EFFECT, ACTIVATE PC, or ACTIVATE PROGRAM REQUEST** key is depressed, call processing will be lost.*

*Note: Failure to set **DATA INSERT** keys within 20 seconds after the first and last test numbers appear on **NUMERIC DISPLAY** will result in the program stepping to next test and recording a failure for the missed test.*

2. Test Sequence (Contd)

- 2.2 At MTC Terminal enter message OP:PSSTATUS!
- 2.3 Using **PROGRAM STORE STATUS** printout, determine which CC (0 or 1) is active.
- 2.4 Using **PROGRAM STORE STATUS** printout, determine if two PC PSs (one combination per TABLE A) are configured to K-code 20.
- 2.5 If two PC PSs are configured to K-code 20, go to Step 2.8; otherwise, continue.
- 2.6 Configure two PC PSs to K-code 20 via DLP-514
- 2.7 At MTC Terminal enter message OP:PSSTATUS!
- 2.8 Using **PROGRAM STORE STATUS** printout, determine if third PC PS is configured to K-code 24.
- 2.9 If third PC PS is configured to K-code 24, go to Step 2.11; otherwise, continue.
- 2.10 Configure third PC PS to K-code 24 via DLP-514.
- 2.11 Ensure that all lamps listed in TABLE B, Page 3, are off.
- 2.12 At MTC Terminal enter message DGN:MCC 0:PH 94!  
*Response: 37* displayed on **NUMERIC DISPLAY**
- 2.13 At **SYSTEM DISPLAY** panel:
  - (a) Depress to light **DATA INSERT 21** and **22** keys
  - (b) Insure that **DATA INSERT 23** key is not lighted
  - (c) Depress **DATA INSERT 13** key to begin PC B-Level tests.
- 2.14 As each test number appears on **NUMERIC DISPLAY**:
  - (a) Ensure that **DIAGNOSIS IN PROGRESS** lamp flashes
  - (b) Perform action(s) listed in TABLE C, Pages 4 and 5.

- 2.15 Expect CATP with bit 18 set. If STF or CATP with any other bit set is received, do not continue until problems corrected.
- 2.16 If procedure has not been run for all three combinations of PC PSs (See TABLE A), reconfigure PC PSs to a combination which has not been tested using DLP-595; then repeat procedure from Step 2.7.
- 2.17 At MTC Terminal enter message RST:MCC 0!

End of procedure

TABLE A	
PC PS COMBINATIONS	
256K START OFFICE	64K START OFFICE
0 and 2	18 and 20
0 and 4	18 and 22
2 and 4	20 and 22

TABLE B	
LAMP/SWITCH	PANEL SECTION
NORMAL UPDATE	UPDATE
BLOCK 0 PS 0 VARIABLE PS 0 VARIABLE PS 1 AU BUS 0 AU BUS 1 PS BUS 0 PS BUS 1 CC0 CC1	OVERRIDE CONTROL
ENABLE DATA UNIT	SYSTEM REINITIALIZATION
DISABLE AUTO PC	PROCESSOR CONFIGURATION SEQUENCER
CLEAR UTILITY FUNCTION INHIBIT INTERRUPT RESTORE MTCE I/O MODIFY RECOVERY ACTIONS FULL CFG/EMER MODE MIN CFG/EMER MODE PHASE 6 IN PROG REQUEST PHASE 5 IN PROG REQUEST PHASE 4 IN PROG REQUEST PHASE 3 IN PROG REQUEST PHASE 2 IN PROG REQUEST PHASE 1 IN PROG REQUEST	MANUAL INTERRUPT PROGRAM REQUEST
MC 3 ACT/MC 3 DISAB	SYSTEM STATUS

**TABLE C**

TEST NUMBER	ACTIONS TO BE PERFORMED	TEST NUMBER	ACTIONS TO BE PERFORMED
124	Observe <b>PROCESSOR CONFIGURATION SEQUENCER 1</b> lamp. If lamp is on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.	136	Depress <b>DISABLE AUTO PC</b> key (lamp off). Observe all 6 <b>PROCESSOR CONFIGURATION SEQUENCER</b> lamps. If <b>PROCESSOR CONFIGURATION SEQUENCER</b> lamps are off, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.
125	Observe <b>PROCESSOR CONFIGURATION SEQUENCER 2</b> lamp. If lamp is on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.	<i>Response:</i> Some <b>PROCESSOR CONFIGURATION SEQUENCER</b> lamps will light	
126	Observe <b>PROCESSOR CONFIGURATION SEQUENCER 4</b> lamp. If lamp is on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.	147 Depress <b>NORMAL</b> key (lamp lights). Depress <b>DISABLE AUTO PC</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.	
127	Observe <b>PROCESSOR CONFIGURATION SEQUENCER 8</b> lamp. If lamp is on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.	151 Depress <b>NORMAL</b> key (lamp off). Depress <b>UPDATE</b> key (lamp lights). Ensure that <b>DISABLE AUTO PC</b> lamp is lighted. Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.	
128	Observe <b>PROCESSOR CONFIGURATION SEQUENCER PUMP UP 16</b> lamp. If lamp is on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.	155 Depress <b>UPDATE</b> key (lamp off). Depress <b>DISABLE AUTO PC</b> key (lamp off). Depress <b>BLOCK 0 PS 0</b> , <b>AU BUS 0</b> , <b>PS BUS 0</b> , and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.	
129	Observe <b>PROCESSOR CONFIGURATION SEQUENCER PUMP UP 32</b> lamp. If lamp is on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.	<i>Note:</i> When this test is run with PSs 2 and 4 or 20 and 22 configured to K-code 20, the remaining tests in this phase will be skipped and results of PC B-level test will be received.	
130	Depress <b>RESET COUNTER</b> and <b>DIRECT DATA INSERT 1</b> keys <i>simultaneously</i> .  <i>Response:</i> <b>INVALID SELECTION</b> lamp lights	If the tests are skipped, after results received, depress <b>BLOCK 0 PS 0</b> , <b>AU BUS 0</b> , <b>PS BUS 0</b> , and <b>CC0</b> or <b>CC1</b> (corresponding to active CC) keys to off; then go to Step 2.15, Page 2.	
131	Observe all 6 <b>PROCESSOR CONFIGURATION SEQUENCER</b> lamps. If lamps are on, depress <b>DIRECT DATA INSERT 1</b> key; otherwise, depress <b>DIRECT DATA INSERT 0</b> key.		
133	Depress <b>DISABLE AUTO PC</b> key (lamp lights). Depress <b>DIRECT DATA INSERT 1</b> key.		
135	Depress <b>RESET COUNTER</b> and <b>DIRECT DATA INSERT 1</b> keys <i>simultaneously</i> .		

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TABLE C (Contd)	
TEST NUMBER	ACTIONS TO BE PERFORMED
157	Depress <b>BLOCK 0 PS 0, AU BUS 0, PS BUS 0, and CC0 or CC1</b> (corresponding to active CC) keys (lamps off). Depress <b>DISABLE AUTO PC</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
159	Depress <b>DISABLE AUTO PC</b> key (lamp off). Observe <b>PC ATTEMPT</b> key. If lamp is off, depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes; otherwise, depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 0</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
160	Depress <b>BLOCK 0 PS 0, AU BUS 0, PS BUS 0, and CC0 or CC1</b> (corresponding to active CC) keys (lamps light). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until test number on <b>NUMERIC DISPLAY</b> changes.
162	Depress <b>BLOCK 0 PS 0, AU BUS 0, PS BUS 0, and CC0 or CC1</b> (corresponding to active CC) keys (lamps off). Depress <b>DISABLE AUTO PC</b> key (lamp lights). Depress and hold <b>INVALID SELECTION</b> and <b>DIRECT DATA INSERT 1</b> keys until <b>NUMERIC DISPLAY</b> goes blank.  <i>Response:</i> After test 162 completes, results of PC B-Level test will be received  Depress <b>DISABLE AUTO PC</b> key (lamp off). Ensure that all lamps on <b>VERRIDE CONTROL</b> panel are off. Go to Step 2.15, Page 2.

1. General:

- 1.1 If any lamp or switch faults are detected during execution of these tests, refer to trouble analysis procedures in TOP 234-151-006 for repair.
- 1.2 To avoid interference with other office work activity, suspend activities (for example, Recent Change, Library Programs, etc.) until this procedure is completed.
- 1.3 This procedure causes two expected A-level interrupts and one expected B-level interrupt per CC.
- 1.4 Tests in this procedure are to be run following successful completion of MCC demand diagnostic phases 91 and 92.
- 1.5 If a failure is detected in a test group, complete remaining steps in that group and then clear fault. Repeat group under test before continuing with tests in next group.

*Caution 1: Prior to starting these tests, ensure that recent change processing is not restricted (At MCC **SYSTEM STATUS** panel, **RECENT CHANGE – RESTRICT RECENT CHANGES** key lamp is OFF.)*

*Caution 2: If an equipment unit (that is, CC, CSB or PSB, etc.) is left in an out-of-service state following the execution of any test group, restore the unit to service before continuing with tests in the next test group.*

2. Test procedure:

2.1. TEST GROUP 1

1. At MCC **SYSTEM DISPLAY** panel:  
Depress **DATA INSERT** keys (0,1), (3,4), (6,7), (10,11), and (21,23).

*Response:* Each key lamp lighted WHITE

2. Depress **SCAN POINT READING** key

*Response:* Key lamp lighted WHITE  
**BINARY DISPLAY** lamp 12 may be lighted

2.2 TEST GROUP 2

1. At MCC **OVERRIDE CONTROL** panel:  
Depress **CC0/CC1** key associated with presently active CC.

*Response:* Key lamp lighted WHITE  
**BINARY DISPLAY** lamp 4 lighted if **CC0** selected or lamp 5 if **CC1** selected  
**NO OVERRIDE** lamp lighted RED

2. Depress **ACTIVATE-OVERRIDE IN EFFECT** key

*Response:* Key lamp lighted WHITE  
A-level interrupt printout received  
**BINARY DISPLAY** lamps 4 and 11 lighted if **CC0** selected or lamps 5 and 11 if **CC1** selected  
**BINARY DISPLAY** lamp 12 OFF

3. Depress **ACTIVATE-OVERRIDE IN EFFECT** key.

*Response:* **OVERRIDE IN EFFECT** lamp OFF  
**BINARY DISPLAY** lamp 11 OFF

4. Depress **CC0/CC1** key selected in Step 2.2.1.

*Response:* Key lamp OFF  
**NO OVERRIDE** lamp OFF

### 2.3 TEST GROUP 3

1. At MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:  
Depress **RESTORE MTCE I/O** key.  
*Response:* Key lamp lighted WHITE
2. Depress **ACTIVATE-PROGRAM REQUEST** key.  
*Response:* A-level interrupt printout received  
Maintenance I/O terminal cleared  
**BINARY DISPLAY** lamp **12** lighted
3. Depress **RESTORE MTCE I/O** key.  
*Response:* Key lamp OFF  
At **SYSTEM STATUS** panel:  
**INTERRUPT INHIBITED** lamp lighted AMBER  
[NOTE]  
*Note:* Response may not be received if test is repeated within an hour.
4. Enter message ALW:IOUS 0,KCODE!  
*Response:* At **SYSTEM STATUS** panel:  
**INTERRUPT INHIBITED** lamp OFF

### 2.4 TEST GROUP 4

1. At MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel:  
Depress **CLEAR UTILITY FUNCTION** key.  
*Response:* Key lamp lighted WHITE
2. At **PROCESSOR CONFIGURATION SEQUENCER** panel:  
Depress **DISABLE AUTO PC** key.  
*Response:* Key lamp lighted RED  
**BINARY DISPLAY** lamp **3** lighted
3. Depress **RESET COUNTER** key.  
*Response:* All PC STATE COUNTER lamps OFF

4. Depress **ACTIVATE-PC** key.  
*Response:* PC STATE COUNTER **1** lamp lighted,  
B-LEVEL interrupt printout received,  
At MCC **SYSTEM DISPLAY** panel:  
**PHASE PROGRESS** lamp lighted  
**SCAN POINT READING** lamp OFF  
**BINARY DISPLAY** lamps **3** and **12** OFF
5. Depress **RESET COUNTER** key.  
*Response:* All PC STATE COUNTER lamps OFF
6. At **SYSTEM DISPLAY** panel:  
Depress **PHASE PROGRESS** key.  
*Response:* Key lamp OFF
7. Depress **SCAN POINT READING** key.  
*Response:* Key lamp and **BINARY DISPLAY** lamps **3** and **12** lighted
8. At **PROCESSOR CONFIGURATION SEQUENCER** panel:  
Depress **DISABLE AUTO PC** key.  
*Response:* Key lamp and **BINARY DISPLAY** lamp **3** OFF
9. If standby CC is out of service, enter message to restore standby CC to service (RST:CC a!)  
*Response:* Standby CC restored to service after diagnostic completed
10. At **MANUAL INTERRUPT PROGRAM REQUEST** panel:  
Depress **CLEAR UTILITY FUNCTION** key.  
*Response:* Key lamp OFF

## 2.5 TEST GROUP 5

1. At MCC **PROCESSOR CONFIGURATION SEQUENCER** panel:  
Depress **DISABLE AUTO PC** key.

*Response:* Key lamp lighted RED  
**BINARY DISPLAY** lamp **3** lighted

2. At TUC (any available):  
Mount scratch tape without a write protect ring  
(use different TUC when tests are repeated).

3. Depress **SR** key on TUC.

*Response:* Key lamp lighted WHITE  
At MCC **SYSTEM REINITIALIZATION** panel:  
**READY** lamp lighted

4. At MCC **SYSTEM REINITIALIZATION** panel:  
Depress **ENABLE DATA UNIT** key to light lamp,  
then *immediately* depress key again to  
extinguish lamp.

*Response:* First time lamp is depressed:  
Key lamp lighted WHITE  
**BINARY DISPLAY** lamp **10** lighted  
Second time lamp is depressed:  
Key lamp goes OFF  
**BINARY DISPLAY** lamp **10** OFF

5. At TUC frame selected in Step 2.5.2:  
Demount scratch tape from tape transport.

*Response:* At TUC:  
**SR** lap OFF  
At MCC **SYSTEM REINITIALIZATION** panel:  
**READY** lamp OFF

## 2.6 RESTORE CONTROLS USED FOR TEST

1. At MCC **PROCESSOR CONFIGURATION SEQUENCER** panel:  
Depress **DISABLE AUTO PC** key.

*Response:* Key lamp and **BINARY DISPLAY** lamp **3** OFF

2. At MCC **SYSTEM DISPLAY** panel:  
Depress **SCAN POINT READING** key.

*Response:* Key lamp and **BINARY DISPLAY** lamp **12** OFF

3. Depress **DATA INSERT** keys (**0,1**), (**3,4**), (**6,7**),  
(**10,11**), and (**21,23**).

*Response:* Key lamps OFF

4. Enter message 0P:00SUNITS!

5. Restore to service any units which are in  
out-of-service state as a result of executing  
this procedure.

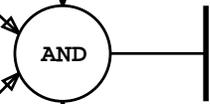
End of procedure

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

[2] At MTC terminal, enter message to obtain list of out-of-service units, OP:OOSUNITS!

[3] Conditionally restore each unit on out-of-service list required for update, using restore message

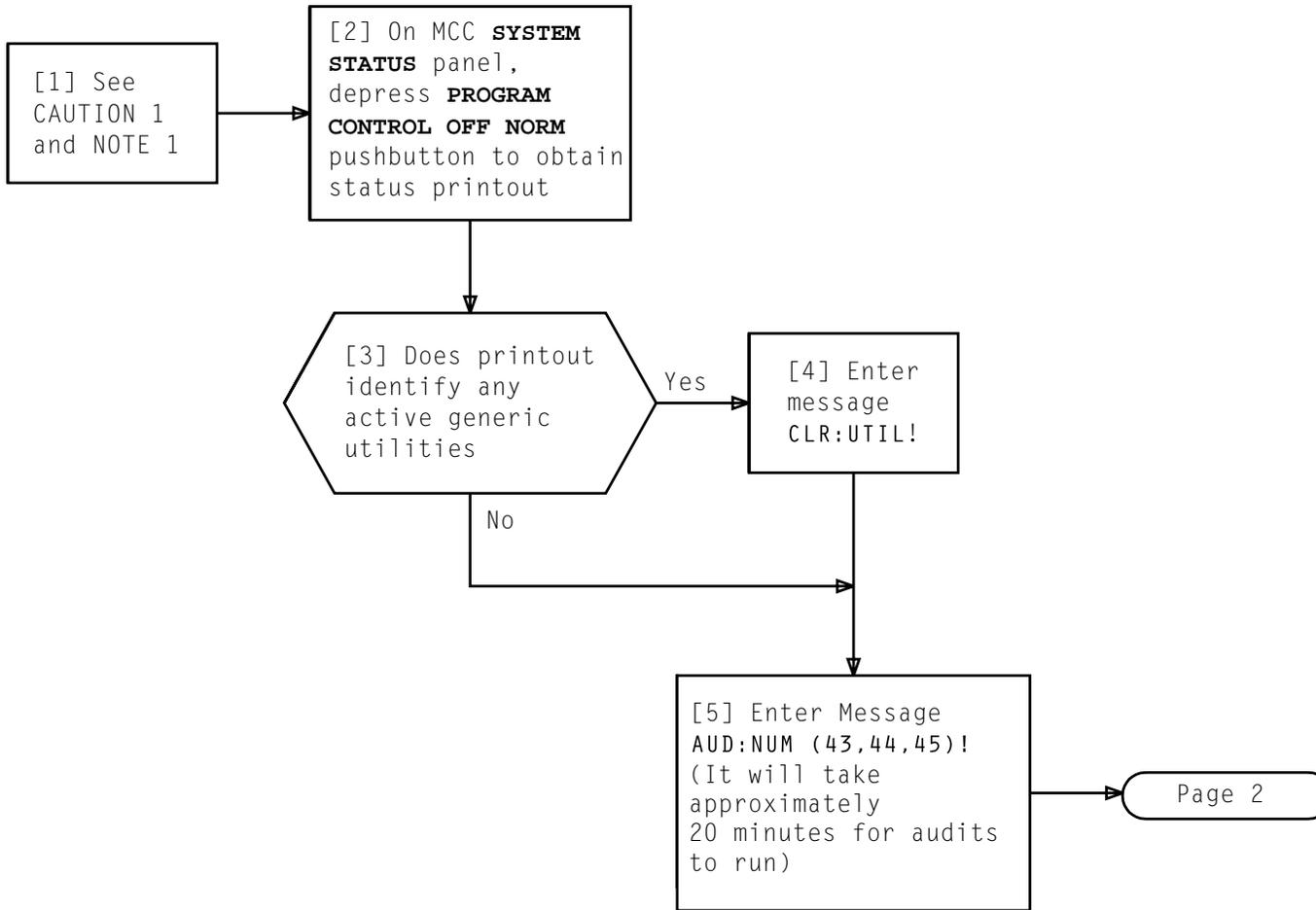
[4] See Note 1. Remove power from any operational unit which fails diagnostics



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

UNIT	MINIMUM REQUIREMENTS*	UNIT	MINIMUM REQUIREMENTS*
CC	Operating full duplex	SP	Base SPs operating full duplex. All other SPs in service with no more than one controller out of service
PS	All in service	TSI	Dedicated TSI operating duplex. All other TSIs in service with no more than one controller out of service
CS	No more than one store out of service	TMS	All in service operating in duplex
DUS	DUS 0 and 1 in service. Must have run diagnostics ATP including system reinitialization phase	PUB	Both peripheral unit buses in service
IOUS	All IOUSs and all essential I/O channels in service	NCLK	All four clock chains in service
TUC	Office requirements plus two available for update	VIF/DT/DIF	All in service. No more than one VIF/DT/DIF controller out of service (excluding TSI caused). No more than one VIU/DTU/DIU out of service in any one VIF/DT/DIF
BUSES	All buses in service operating in duplex	NM	The network management function must be fully operational (to be used as a tool for evaluating office performance in new generic issue).
API	APIs duplex and in service	EST	All ESTs in service and operating duplex
SCS	All controllers and service circuit units available for service	TGR	All TGRs in service and operating duplex
*Any operational unit which fails diagnostics must be powered down			



NOTE 1  
 If necessary, AT&T Practice 234-020-010 should be referenced to for tape storage requirements and procedures

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

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[6] Select tape transport for mounting tape. Demount tape from tape transport if tape is mounted [DLP-528]

[7] Mount blank or erasable tape (with write-enable ring) on available tape transport [DLP-529]

[8] Enter message CLR:ADSFUNC CPY!

AND

[9] Wait for audits to complete. Enter message  
AUD:NUM (43,44,45)!  
every few minutes to ensure that audits have not been interrupted

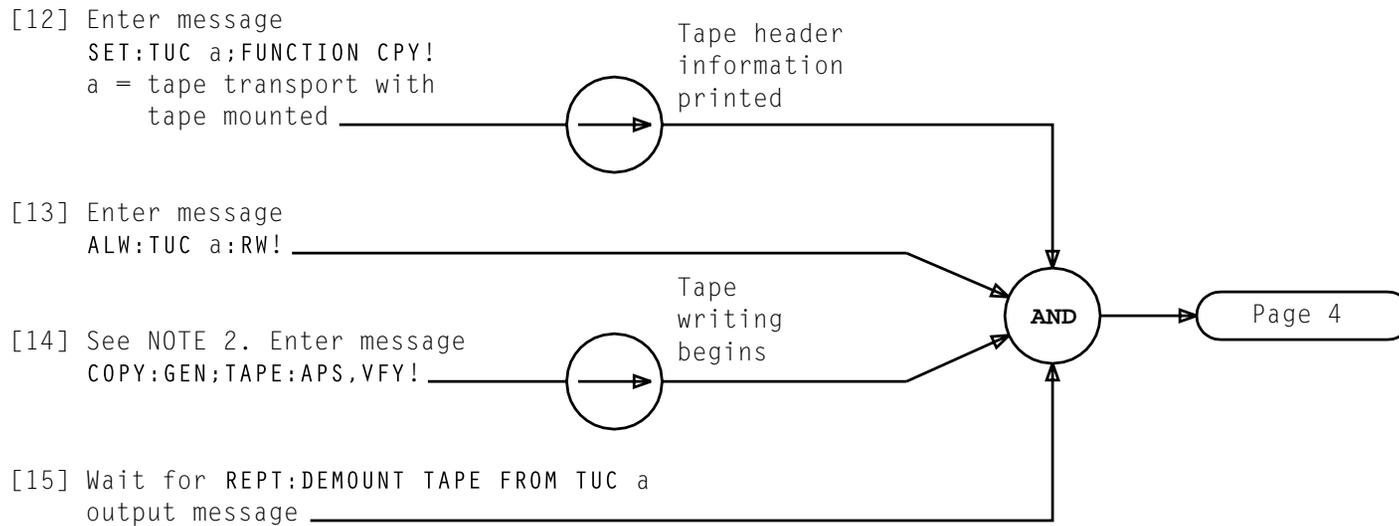
[10] Did audits complete satisfactorily

Yes

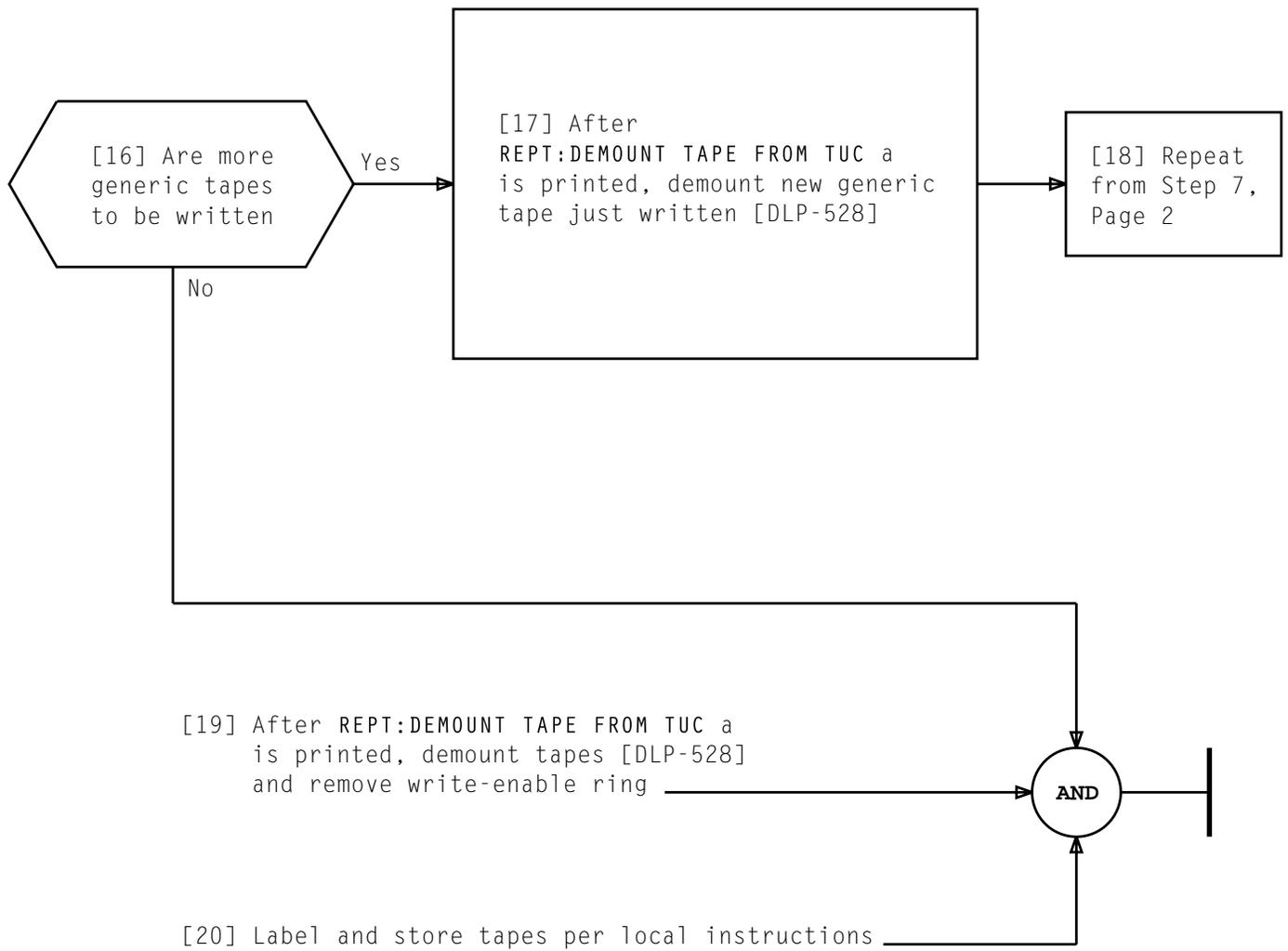
Page 3

No

[11] Clear audit problem.  
See TOP  
234-151-003



NOTE 2	
After generic tape is written, tape will rewind and be verified. After verification has been completed, REPT:DEMOUNT TAPE FROM TUC a message is received	
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[1] See WARNINGS 1 and 2.  
At tape unit controller,  
depress **REQ DMT**  
pushbutton

Tape rewinds;  
**OK DMT**  
lamp lights

At tape transport:

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

[3] Depress **LOCAL/REMOTE** switch  
to obtain **LOCAL** lighted  
condition

**LOCAL**  
lamp  
lights

AND

[4] Is tape  
at BOT marker

Yes

Page 2

No

[5] Depress **REVERSE**  
pushbutton (**REVERSE**  
lamp lights; tape  
rewinds to BOT  
marker and stops)

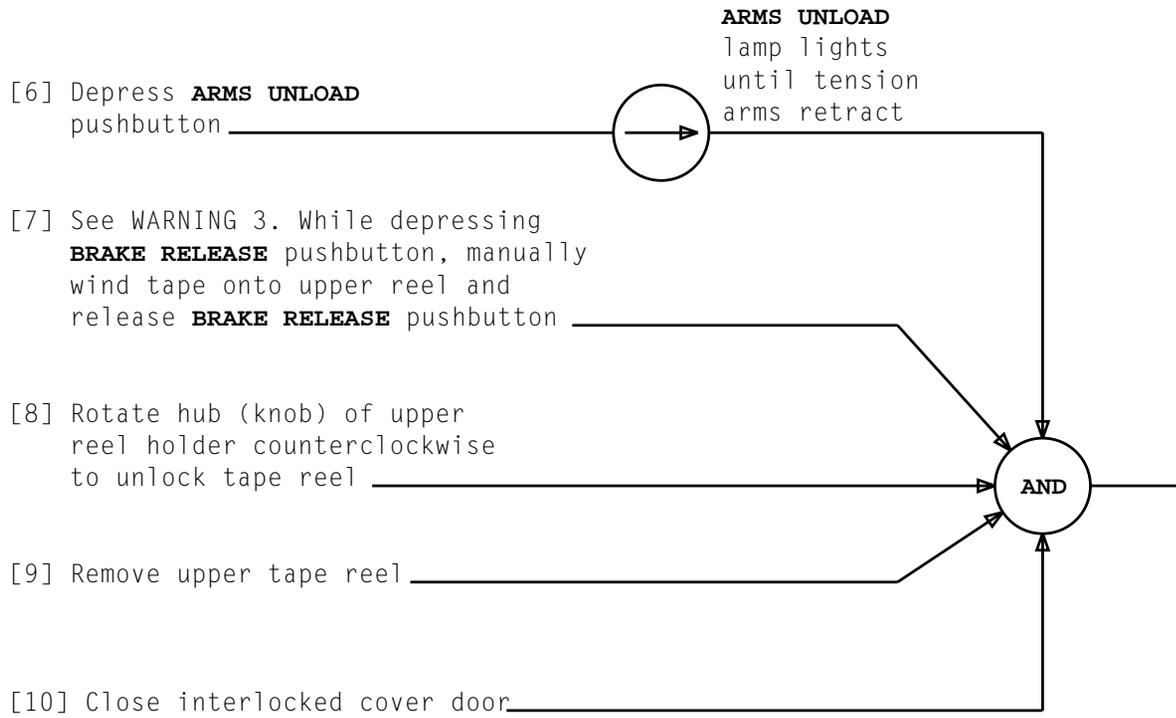
**WARNINGS**

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

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<i>WARNING 3</i> <i>Pulling or dragging last 2 feet of tape across heads may contaminate heads</i>	
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At tape transport:

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

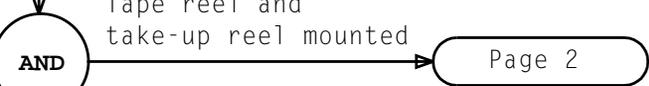
[2] Operate **LOCAL/REMOTE**  
switch to obtain **LOCAL**  
lighted condition



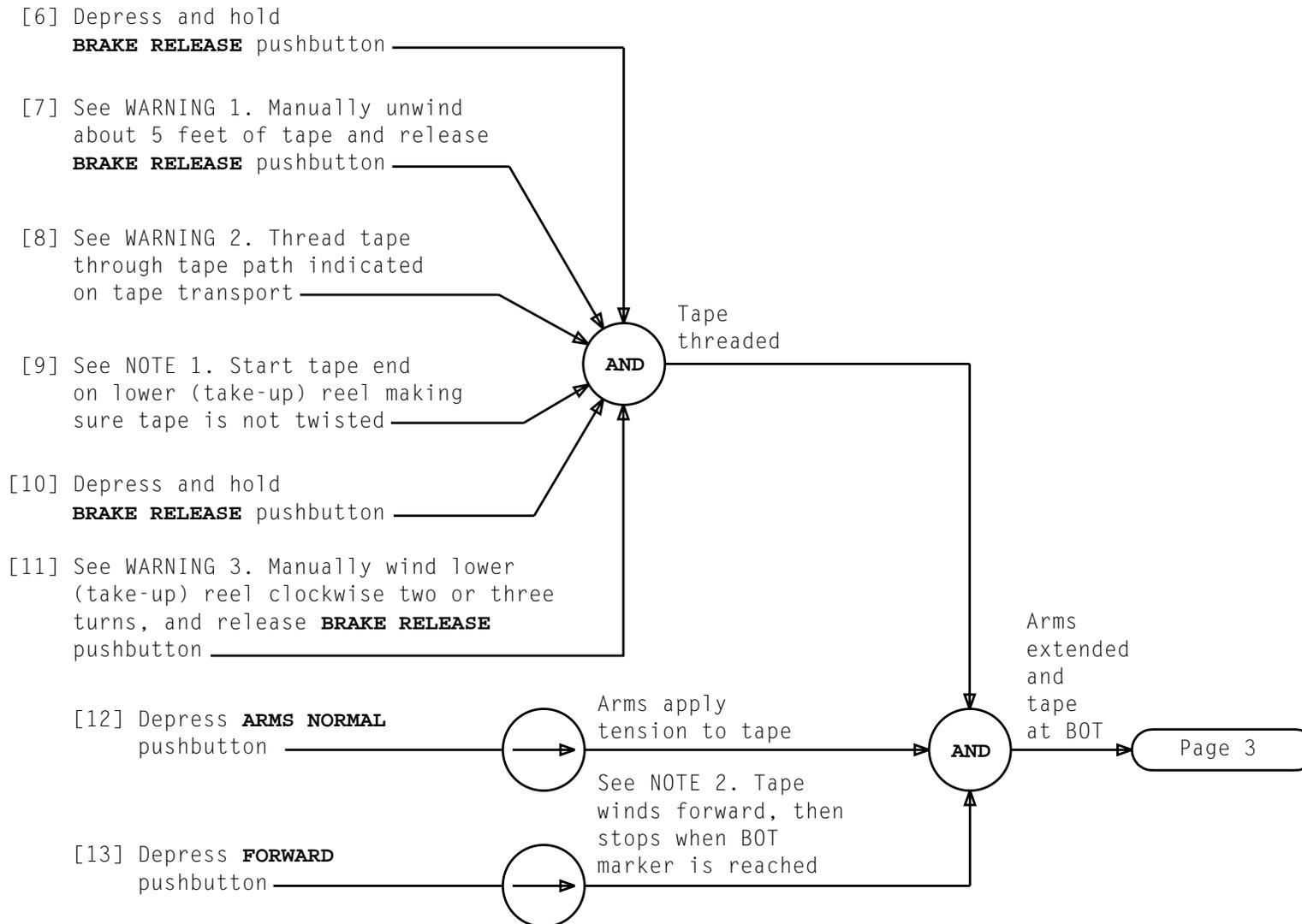
[3] Verify that empty lower (take-up) tape reel is  
same size or larger than tape reel to be mounted

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

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



Page 2

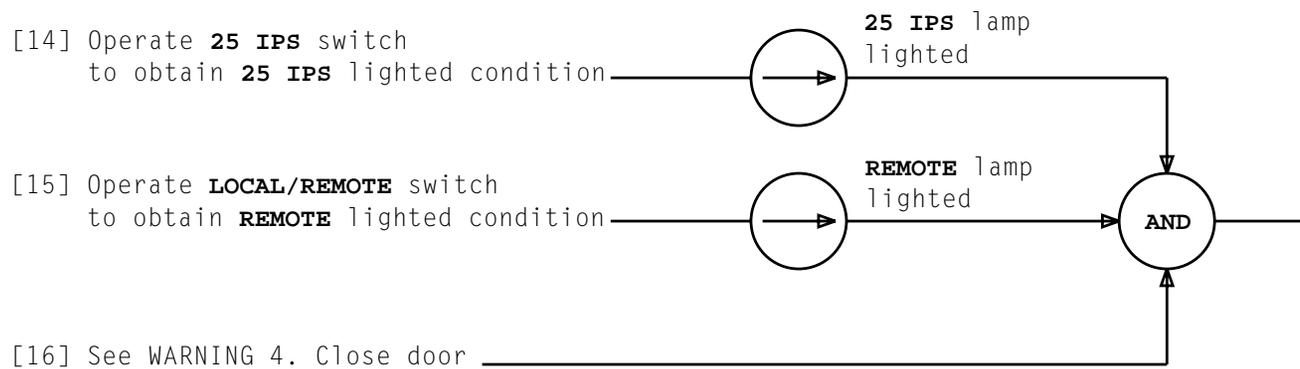


NOTES

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

WARNINGS

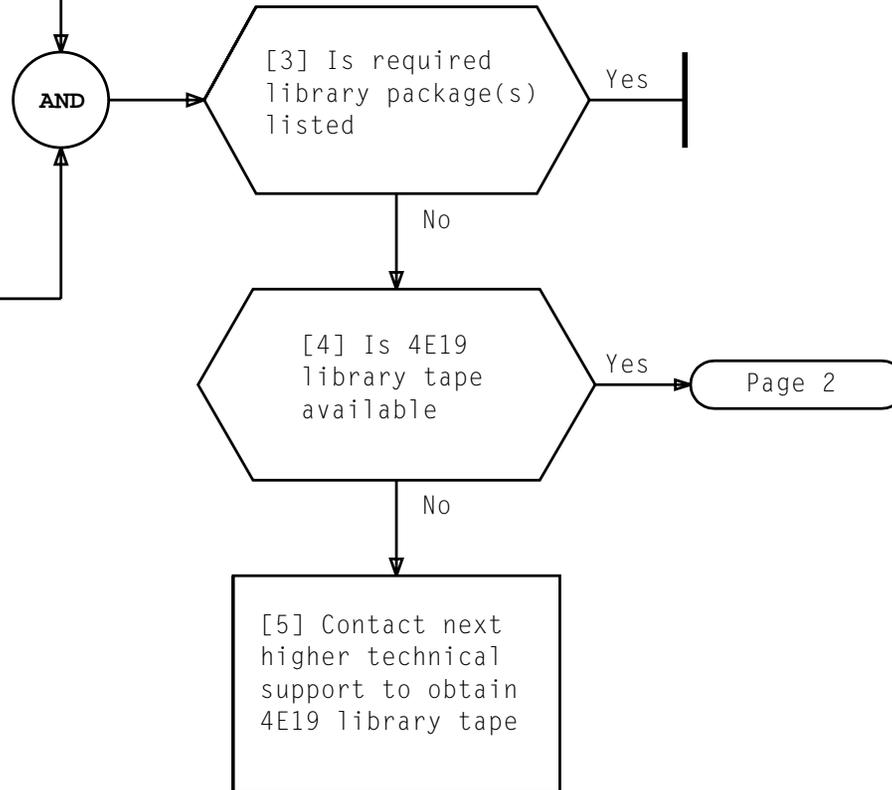
1. Contamination of tape by contact with floor will damage tape heads
2. Do not touch tape head surfaces; body oils will contaminate tape
3. If tape is not properly aligned along rollers and guides or is too loose, it may be damaged



<i>WARNING 4 Closing tape transport door in harsh manner may upset alignment</i>	
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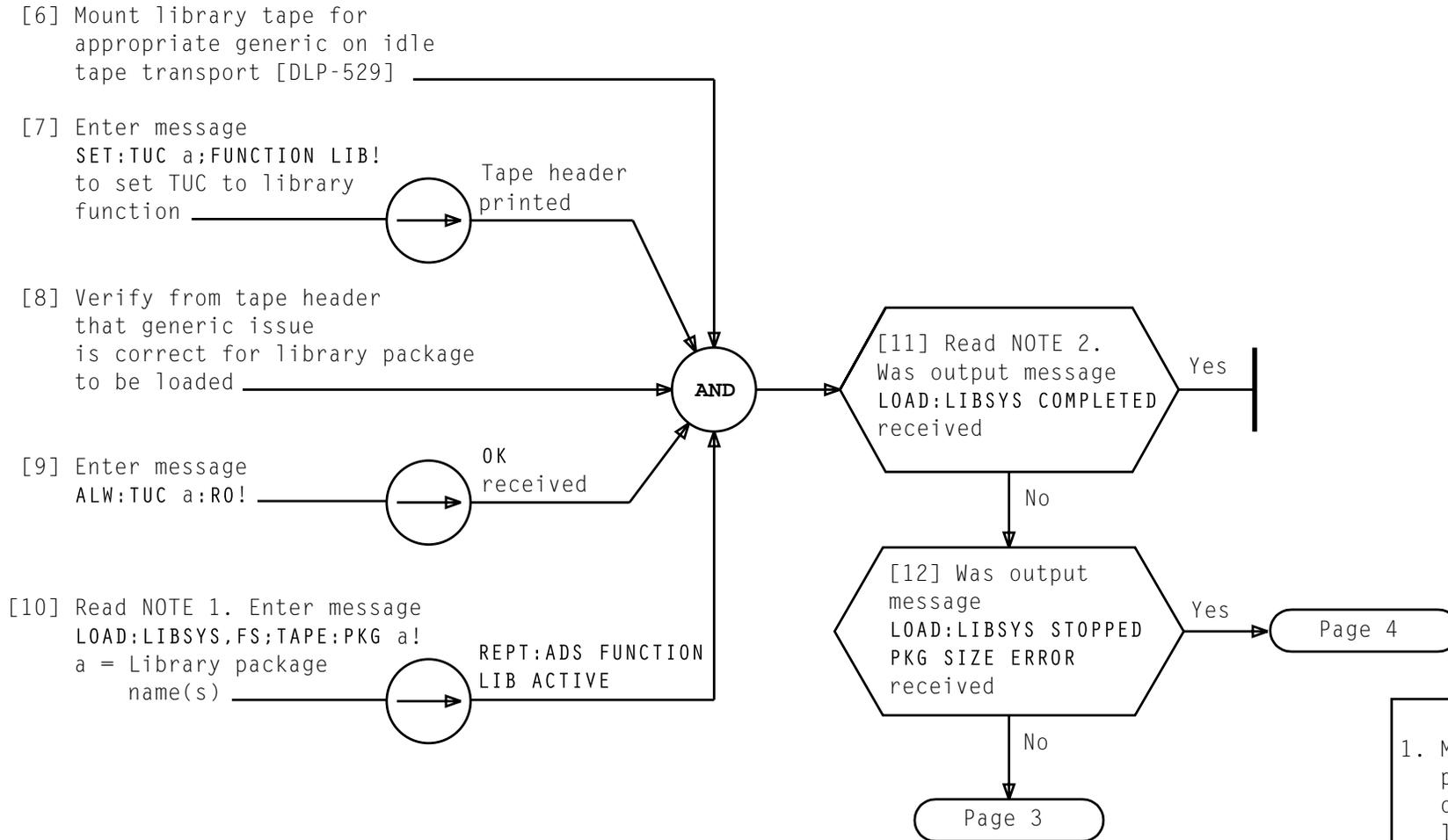
[1] At MTC terminal,  
enter message  
OP:LIBSTAT,FS!

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

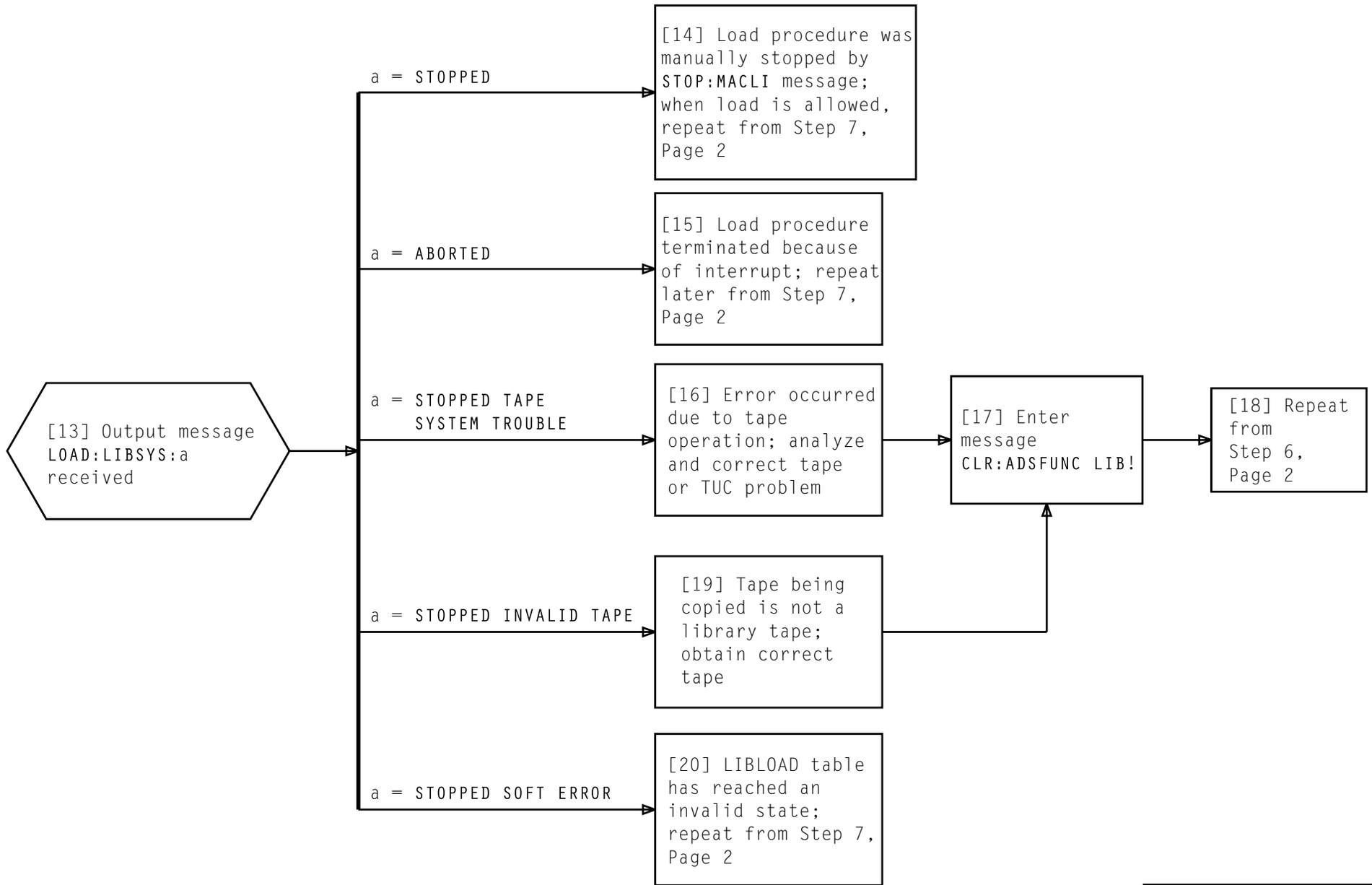


## LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK

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NOTES	
1. Multiple library packages (maximum of 4) may be loaded at one time by separating with commas and enclosing in parentheses	
2. System will not respond COMPLETED until tape is loaded	
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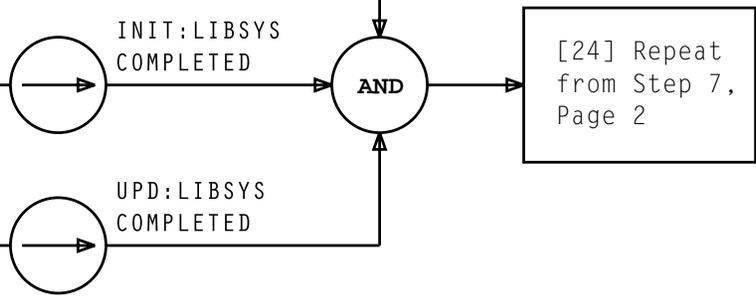
**LOAD LIBRARY PROGRAM PACKAGE(S) FROM TAPE ONTO DISK**

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[21] Enter message  
OP:LIBSTAT,FS! and  
identify library packages that  
will not be required for retrofit  
or ODA update processes

[22] Enter message  
INIT:LIBSYS,PKG a!  
to remove a library package  
a = library package identified  
in previous step

[23] Enter message  
UPD:LIBSYS!  
to repack library packages



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

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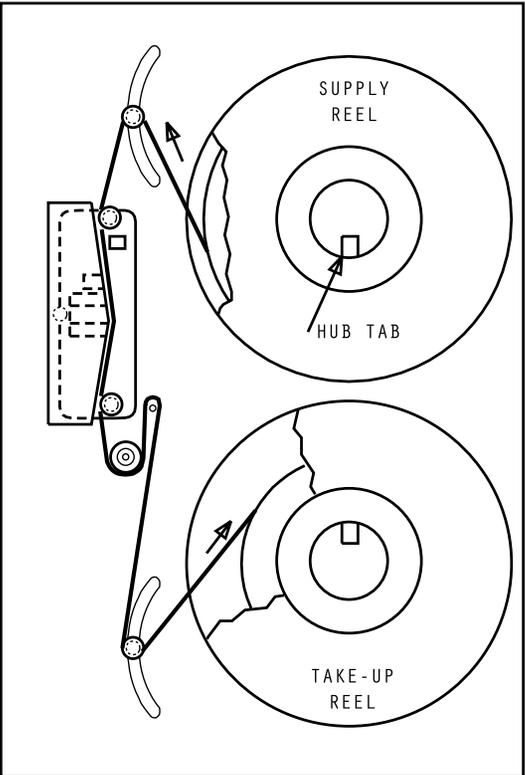
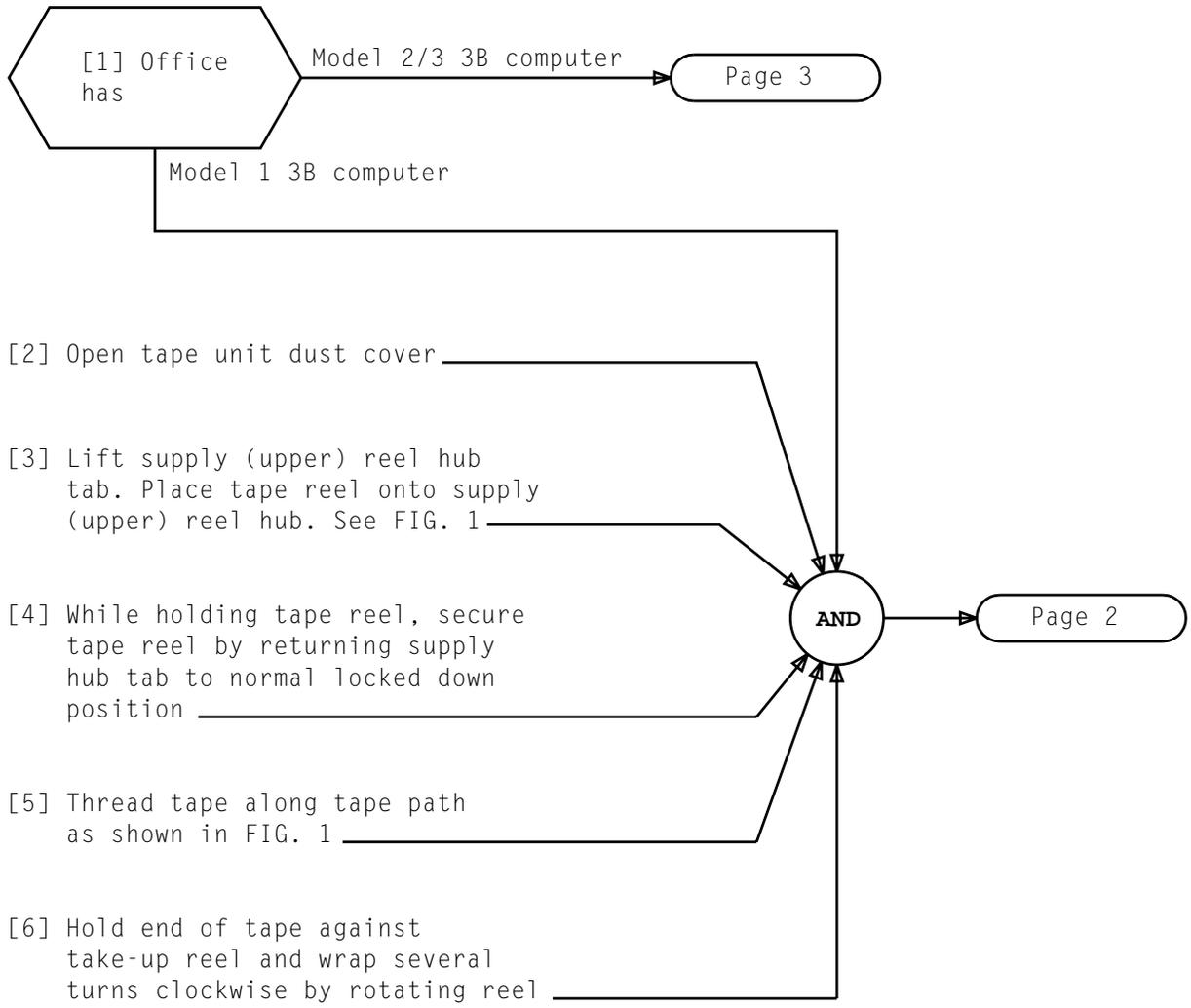
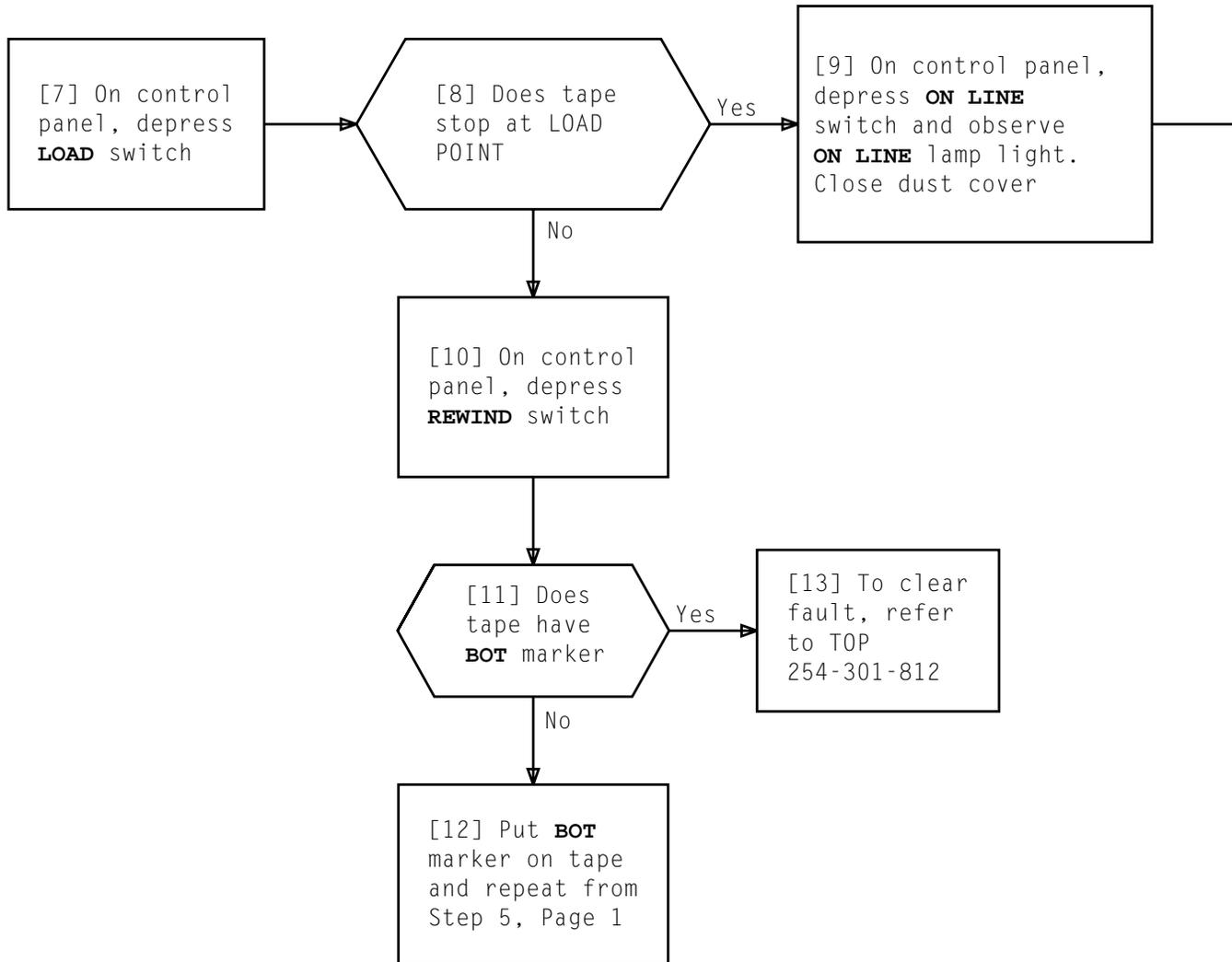


FIG. 1

**MOUNT TAPE ON TAPE UNIT**

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**MOUNT TAPE ON TAPE UNIT**

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

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

[16] Open dust cover and verify circuit breaker at side 1

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

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

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

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

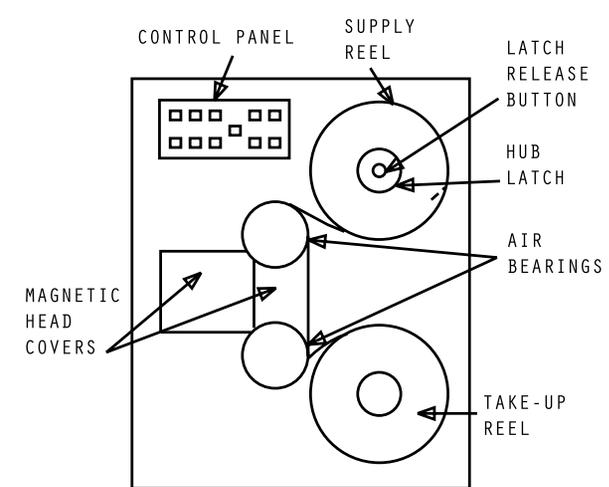
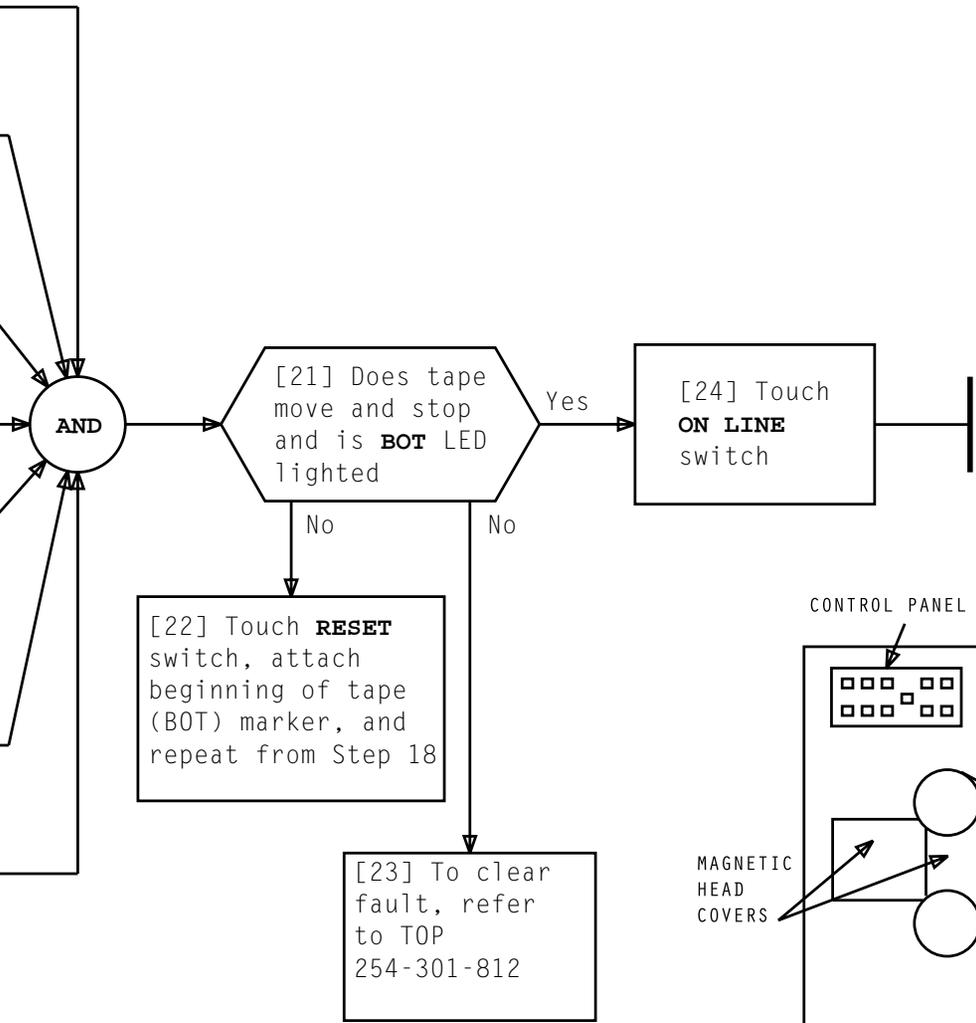
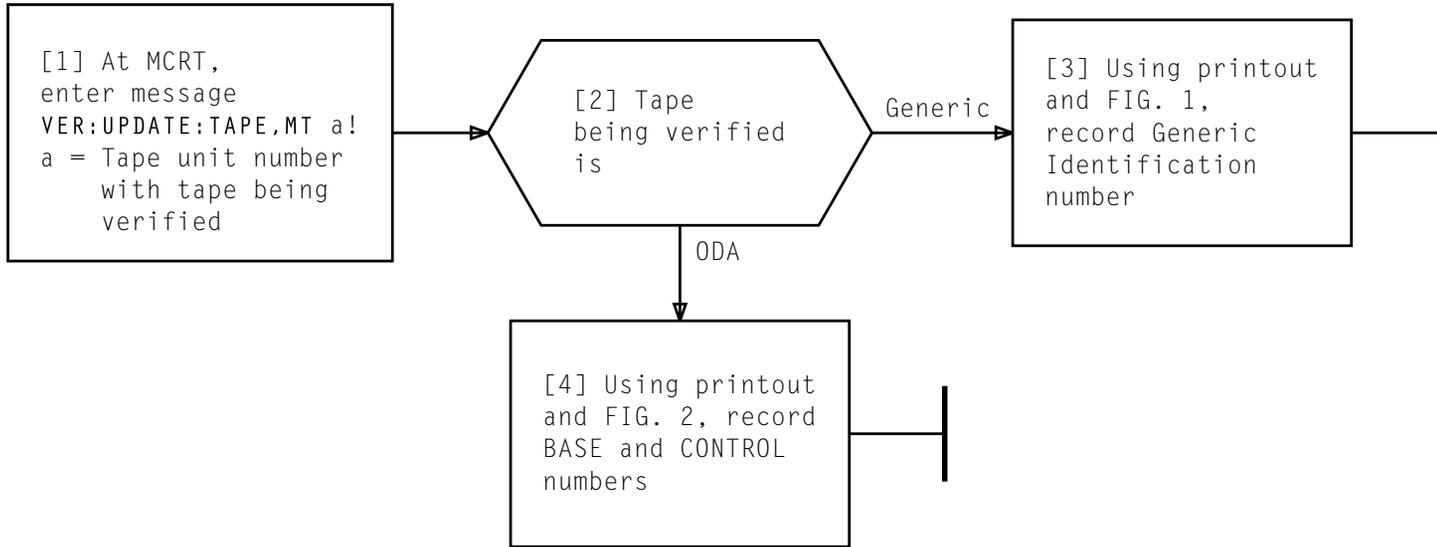


FIG. 2

**MOUNT TAPE ON TAPE UNIT**

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```

TAPE TYPE: GEN
GENERIC 4E<19>5A.01 R1 ← Record This Value
MOST RECENT OFL GENERATION: YR 94,MON 10,DAY 04 AT 11:28
THIS TAPE WRITTEN: YR 94,MON 11,DAY 04 AT 17:19
FS IDS: 0000000000000010,TAPE IDS: 0000000011111111
PARTL UPD FLG: 0,PHASE REQD: 0001000
  
```

FIG. 1 – Sample Generic Tape Header Printout

```

TAPE TYPE: ODA
BASE 908F,CONTROL H0 — Record These Values
ORIGINAL GENERIC 4E<G19>.5R
MOST RECENT OFL GENERATION: YR 94,MON 10,DAY 05 AT 16:23
THIS TAPE WRITTEN: YR 94,MON 11,DAY 09 AT 08:23
FS IDS: 0000000000001000,TAPE IDS: 0000000011110100
PARTL UPD FLG: 0,PHASE REQD: 0001000
  
```

FIG. 2 – Sample ODA Tape Header Printout

[1] Determine Generic Identification number recorded earlier

[2] At MCRT, enter message  
LOAD:UPDATE:GEN "a",MT b!  
a = Generic Identification number (Step 1)  
b = Tape unit number with generic tape mounted

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

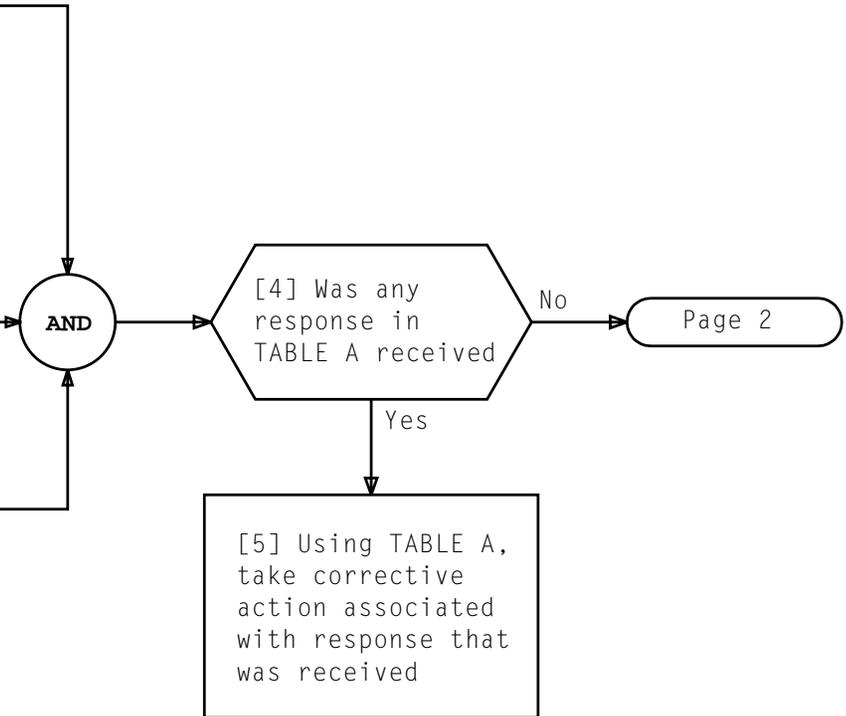
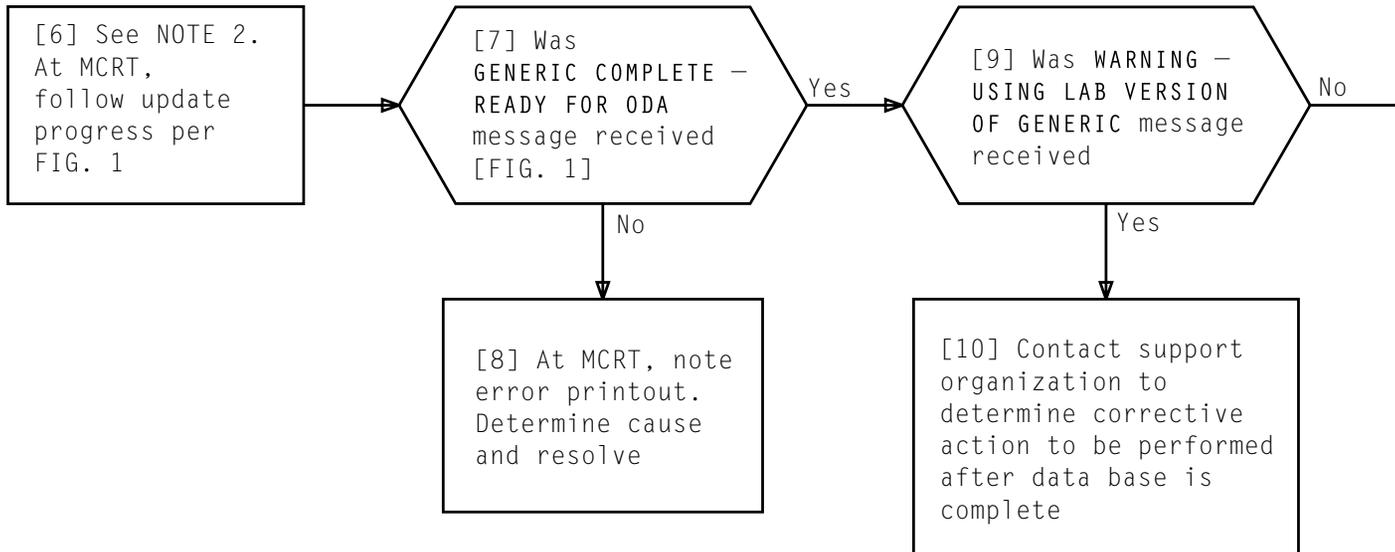


TABLE A	
RESPONSE	CORRECTIVE ACTION
INVALID TAPE ID - ENTER AGAIN	Repeat from Step 2 with correct Generic Identification number
TAPE DRIVE NOT READY - CORRECT AND ENTER AGAIN	Correct tape drive problem and repeat from Step 2

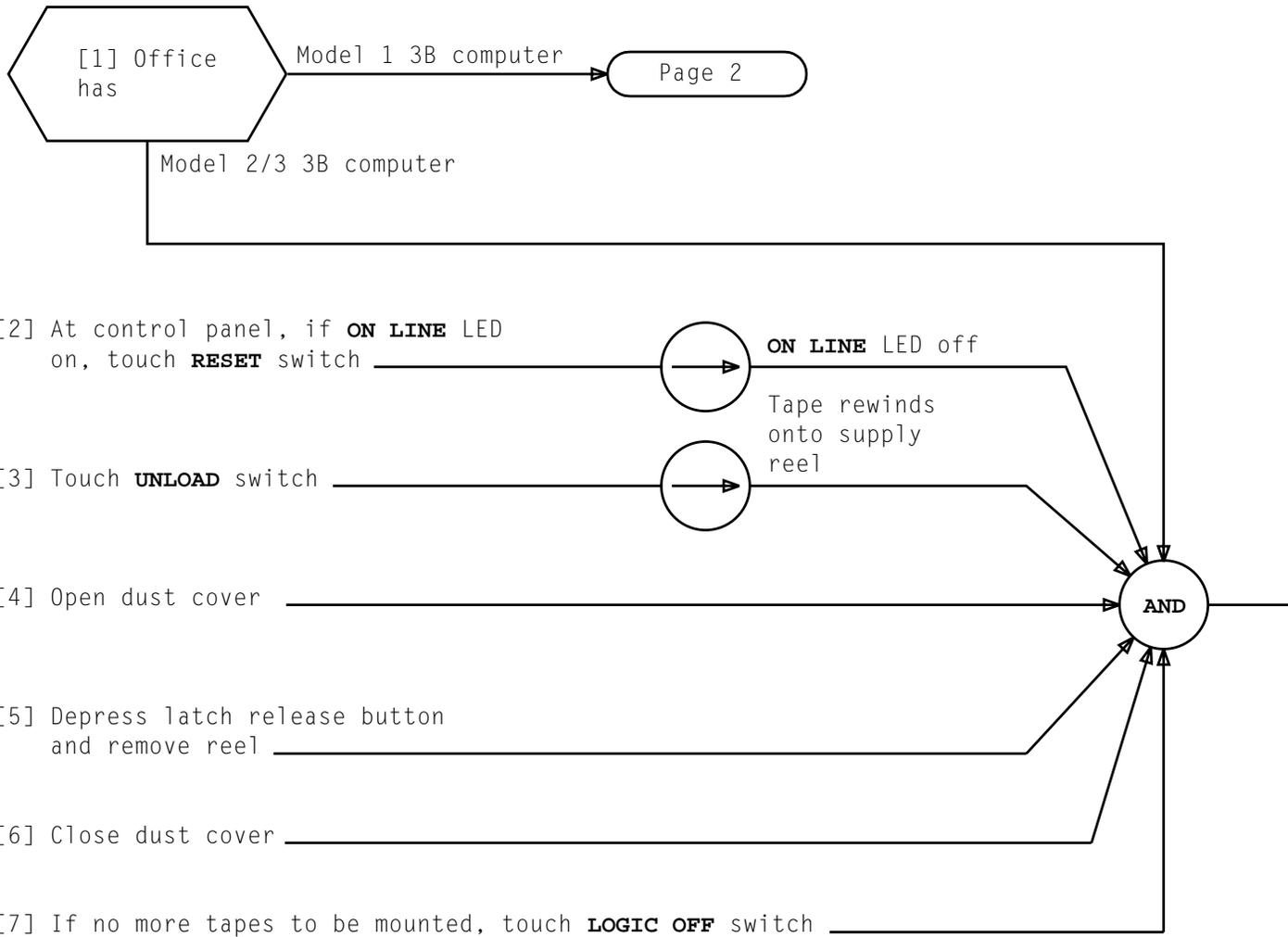


```

GENERIC RETROFIT
TAPE HEADER
.
.
TAPE FILE 10 LOADED TO FS
TAPE FILE 20 LOADED TO FS
TAPE FILE 30 LOADED TO FS
.
.
TAPE FILE n LOADED TO FS
GENERIC COMPLETE - READY FOR ODA
  
```

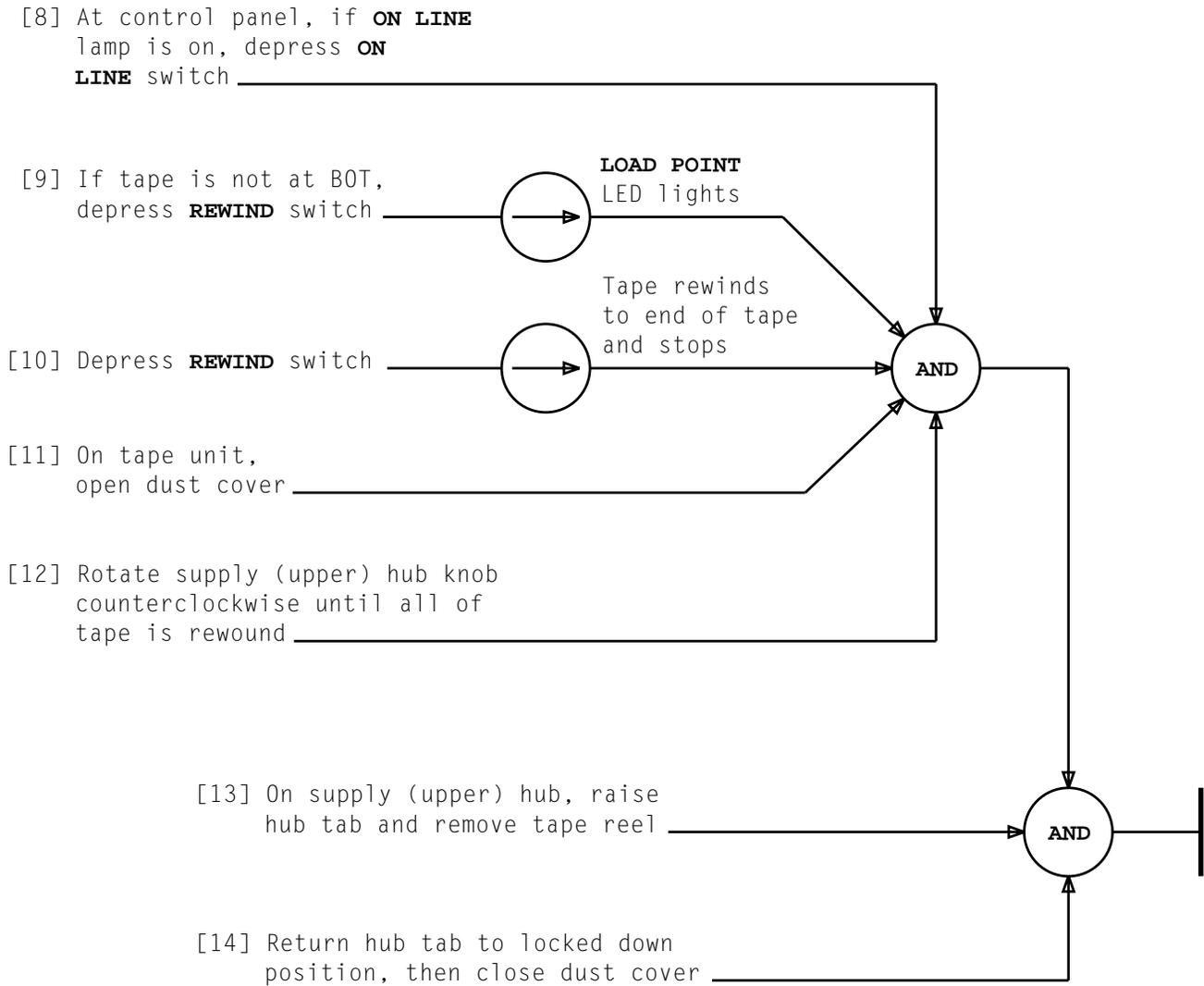
**FIG. 1 - Sample Generic Load Printout**

NOTE 2 WARNING - USING LAB VERSION OF GENERIC message may be received after tape header information	
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**DEMOUNT TAPE ON TAPE UNIT**

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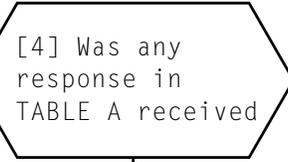
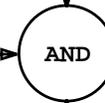
**DEMOUNT TAPE ON TAPE UNIT**

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[1] Determine BASE and CONTROL numbers recorded earlier

[2] At MCRT, enter message  
 LOAD:UPDATE:CONT "ab",MT c!  
 a = BASE number (Step 1). Must be 4 characters long. Spaces are used after BASE number if not 4 characters long  
 b = CONTROL number (Step 1). Must be 2 characters long. Space is used after CONTROL number if not 2 characters long  
 c = Tape unit number with ODA tape mounted

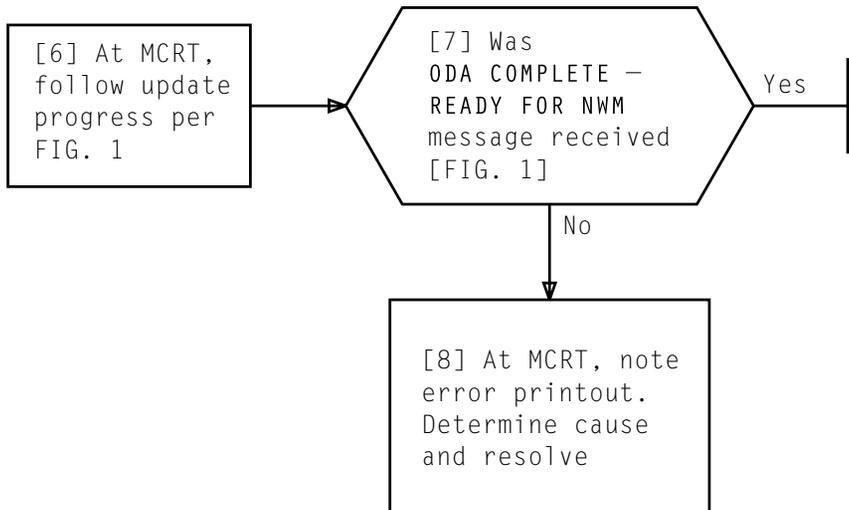
[3] Observe printout and determine if any TABLE A response was received



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

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

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```

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

ODA COMPLETE - READY FOR NWM
  
```

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

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[1] See NOTES 1 and 2.

At MCRT, enter message

LOAD:UPDATE:CONT NWM,MT a!

a = Tape unit number with network management tape mounted

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

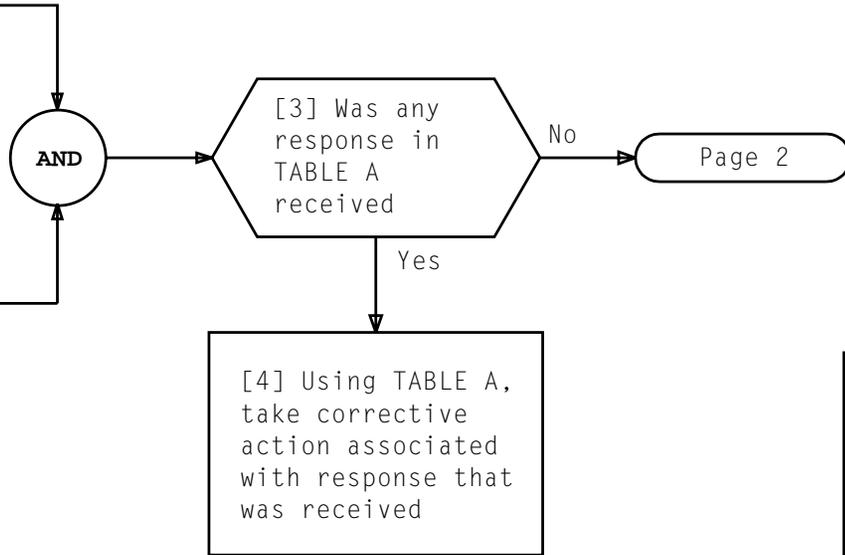
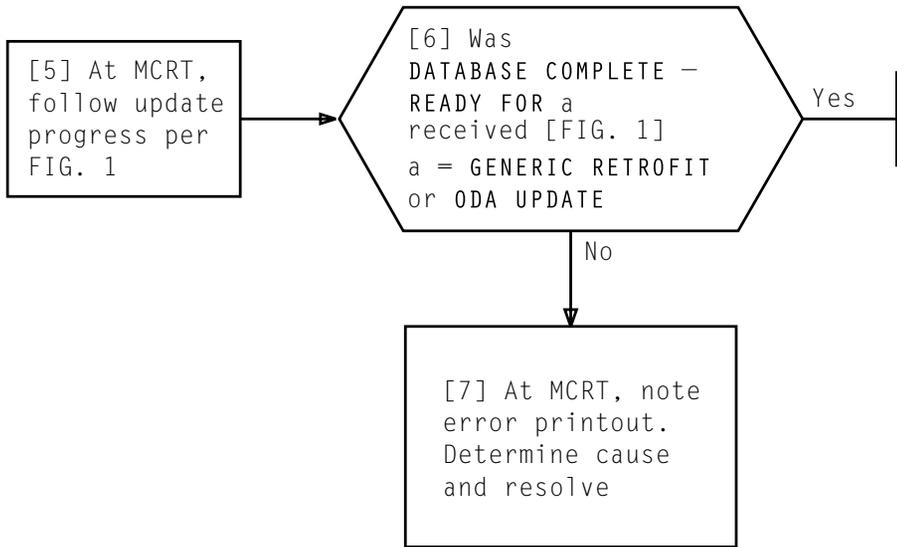


TABLE A	
RESPONSE	CORRECTIVE ACTION
TAPE DRIVE NOT READY – CORRECT AND ENTER AGAIN	Correct tape drive problem and repeat from Step 2
WRONG GENERIC – CHANGE TAPE AND ENTER AGAIN	Demount wrong network management tape. Obtain correct tape and mount on tape drive. Repeat from Step 2
INVALID COMMAND - ENTER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

NOTES

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

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```

TAPE HEADER
.
.
.
TAPE FILE 10 LOADED TO FS
NWM COMPLETE
WRITE MERGE DATA AND ZERO FS AREAS
MAPPING DYNAMIC DATA FROM NORMAL FILE
DATABASE COMPLETE - READY FOR a
  
```

**FIG. 1 - Sample Network Management Load Printout**

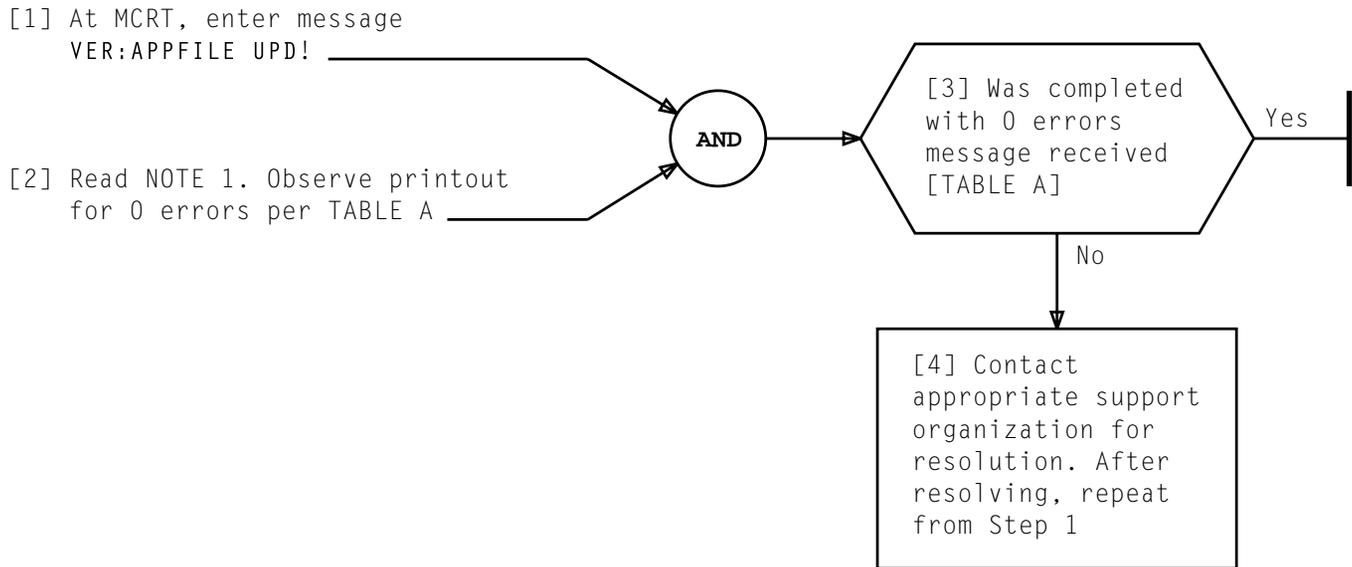


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	VER:APPFILE STARTED, /dev/1afileX (X = 0 or 1) VER:APPFILE /dev/1afileX MERGE AREA, MSG IP, 0 ERRORS DETECTED VER:APPFILE /dev/1afileX ID 1, MSG IP, 0 ERRORS DETECTED (Generic Area) VER:APPFILE /dev/1afileX ID 2, MSG IP, 0 ERRORS DETECTED (Library Area) VER:APPFILE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

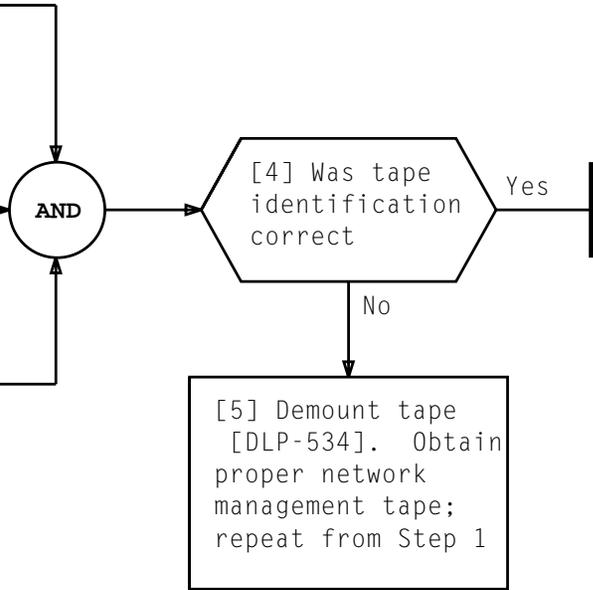
NOTE 1	
It takes approximately 35 minutes for verify to complete	
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**VERIFY 1AFILE HASHED AREAS**

[1] Mount new network management tape on available 3B computer tape unit [DLP-531]

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

[3] Using printout and FIG. 1, verify that TAPE TYPE: is NWM and ORIGINAL GENERIC is 4E<19>R4

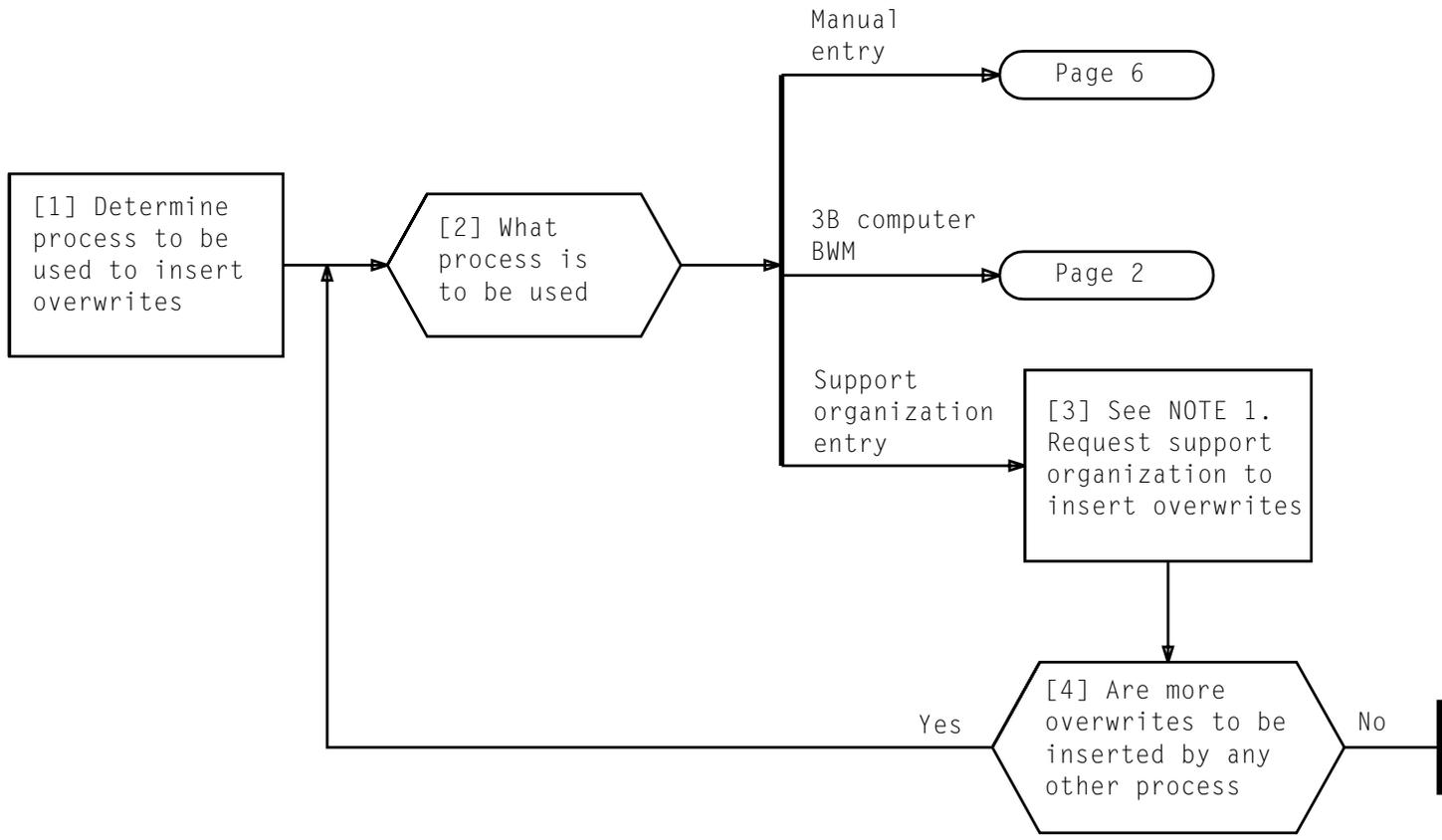


```

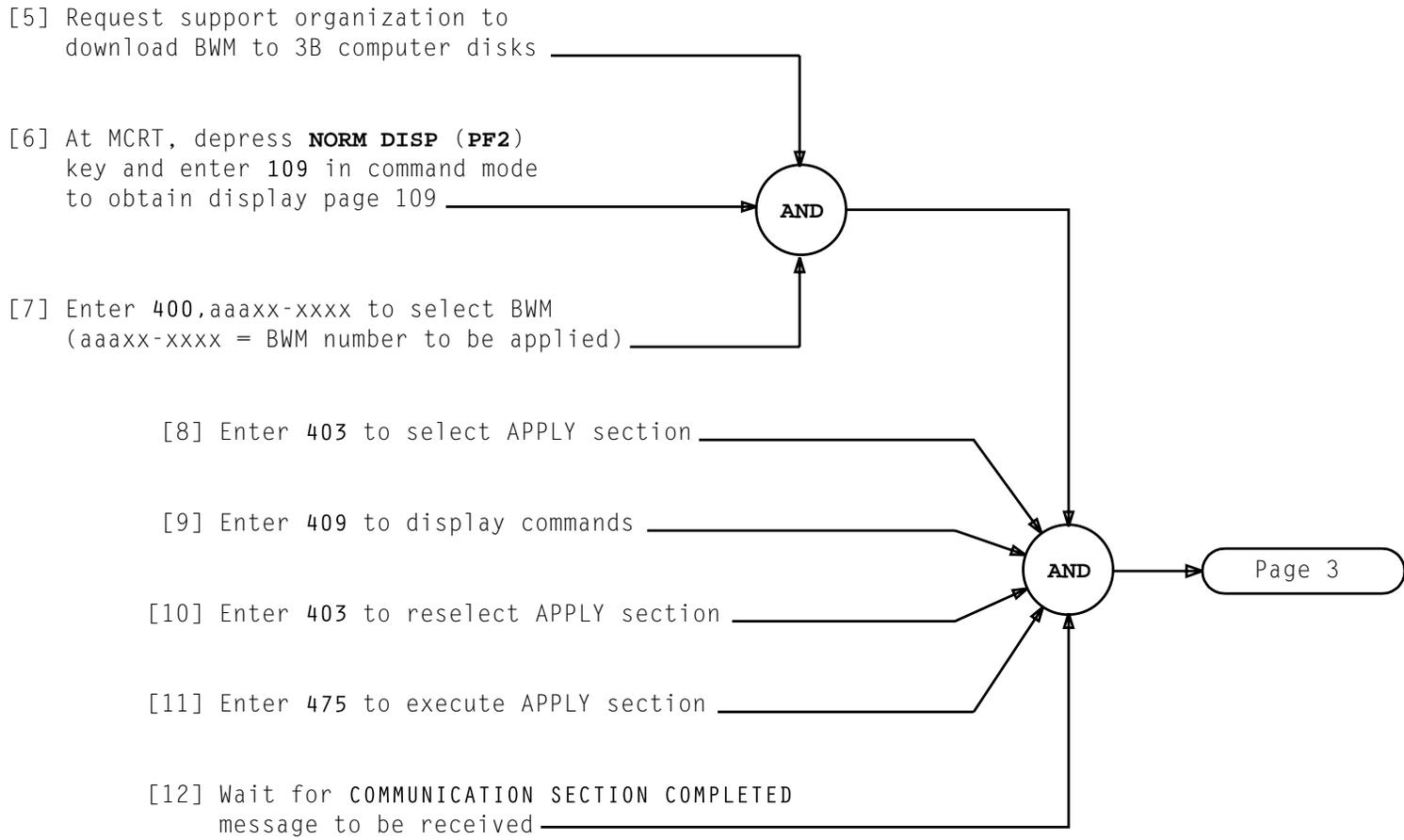
TAPE TYPE: NWM
ORIGINAL GENERIC 4E<19>4R
MOST RECENT OFL GENERATION: YR 94,MON 10,DAY 06 AT 08:30
THIS TAPE WRITTEN: YR 94,MON 10,DAY 06 AT 12:40
FS IDS: 0000000010000000,TAPE IDS: 0000000011110100
PRTL UPD FLG: 0,PHASE REQD: 0000000
  
```

**FIG. 1 - Sample Network Management Tape Header Printout**

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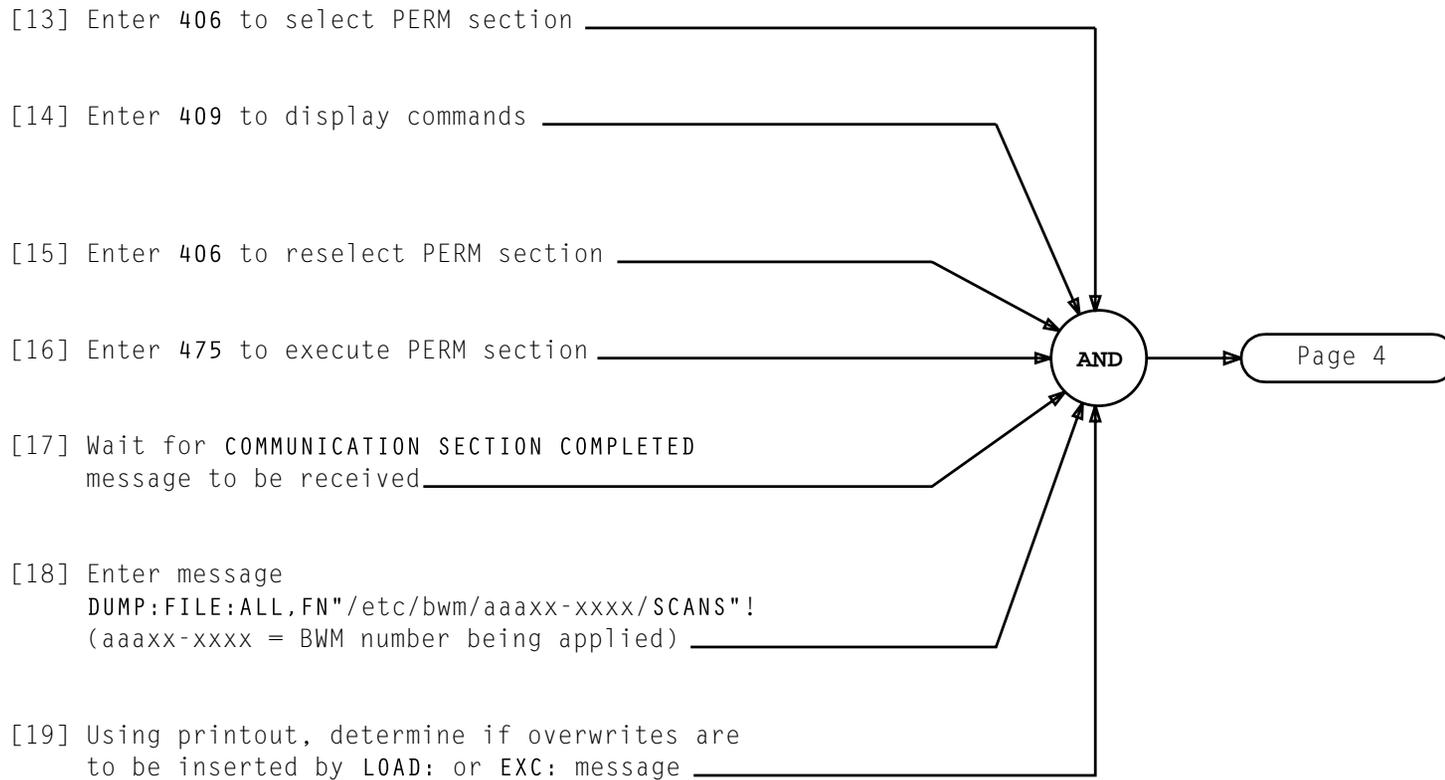


NOTE 1	
Overwrites from support organization must be in form of TABLE B or TABLE C, Page 6	
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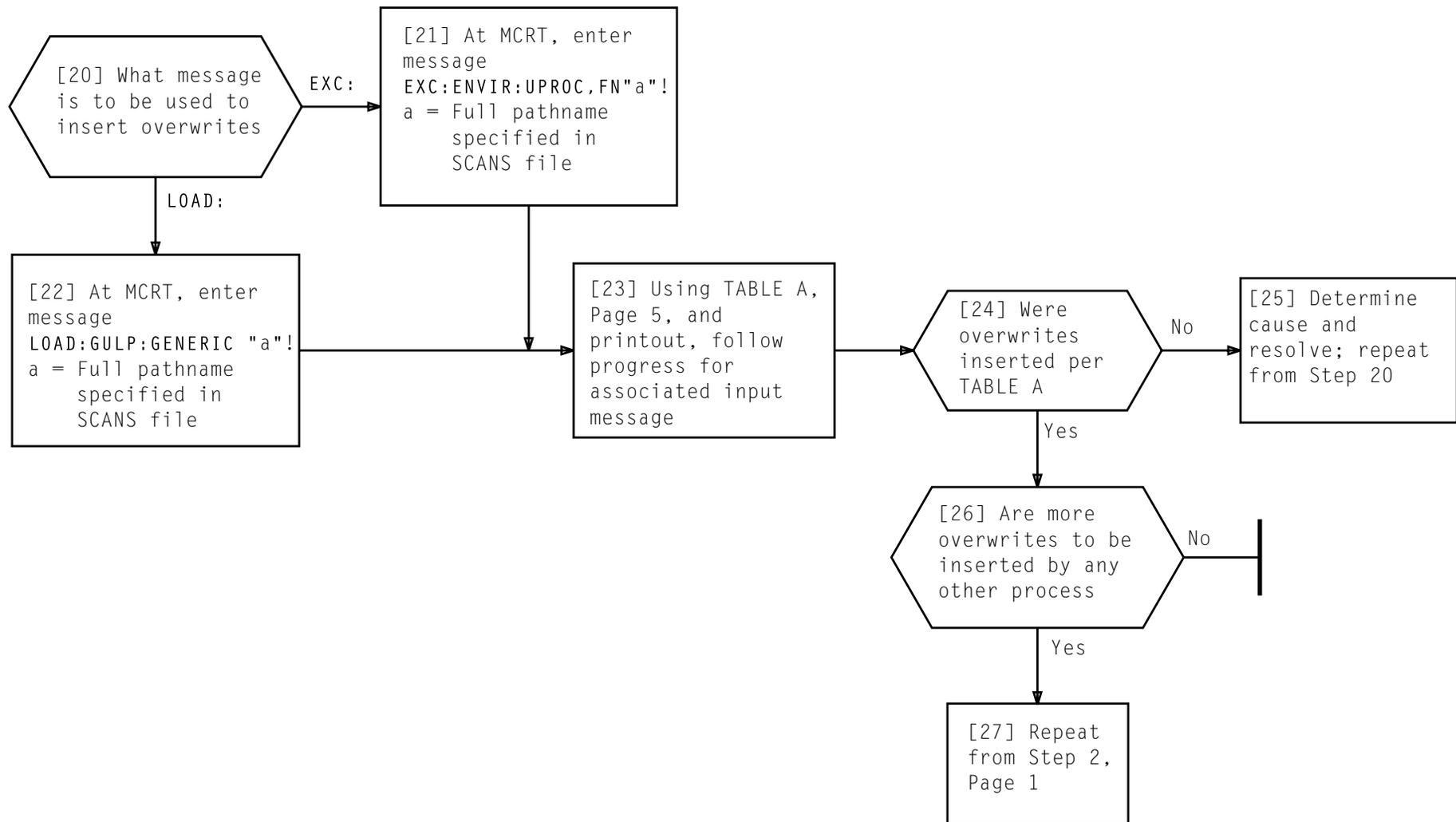
**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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TABLE A	
EXC: INPUT MESSAGE	LOAD: INPUT MESSAGE
OUTPUT MESSAGE	OUTPUT MESSAGE
IN:OSOW:START! READY FOR OVERWRITE DATA IN:OSOW:a b,DATA c! IN:OSOW COMPLETED MM ADR    FS ADR    ID    OLD DATA    NEW DATA vvvvvvvv    wwwwwwww    xx    yyyyyyyy    zzzzzzzz READY FOR OVERWRITE DATA . . . IN:OSOW:UPDC,HASHSUM d]! EXC ENV UPROC COMPLETED OVERWRITE DATA WRITTEN TO UPDATE FILE	BUILDING OW BUFFER — OW BLOCK 1 BUILDING OW BUFFER — OW BLOCK 2 . . . DATABASE UPDATED WITH OVERWRITES
a = MMADR or FSADR b = Main memory or disk address for data being changed c = Data being changed d = Hashsum value v = Main memory address w = Translated file system address x = ID y = Old data z = New data	

**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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[28] Collect and list overwrite(s) to be inserted into 4E19 generic or ODA loaded in update file

[29] At MCRT, enter message IN:OSOW:START! [NOTE 2]

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

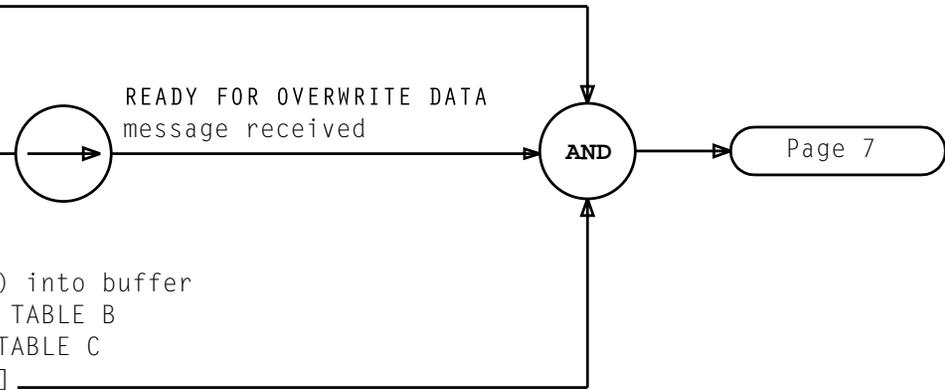


TABLE B	
MESSAGE NUMBER	INPUT MESSAGE
1	IN:OSOW:MMADR a,DATA b[,OLDDATA c]!  a = Main memory address (octal) for data to be changed b = Data (octal) to be changed, or if a list, then enclose with parentheses and separate with commas c = Expected value in octal of old data; if b is a list, then c must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

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

NOTES

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

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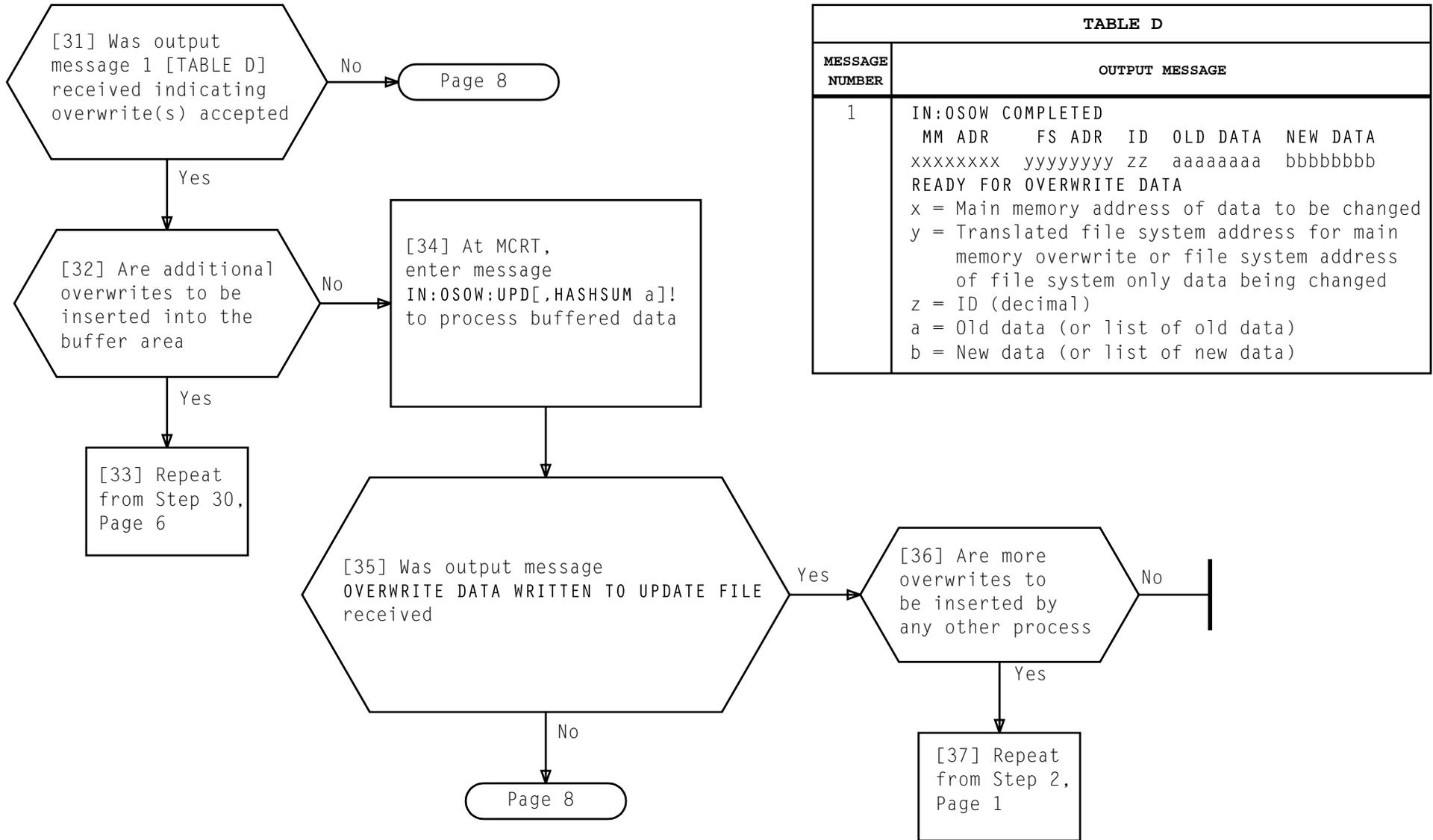
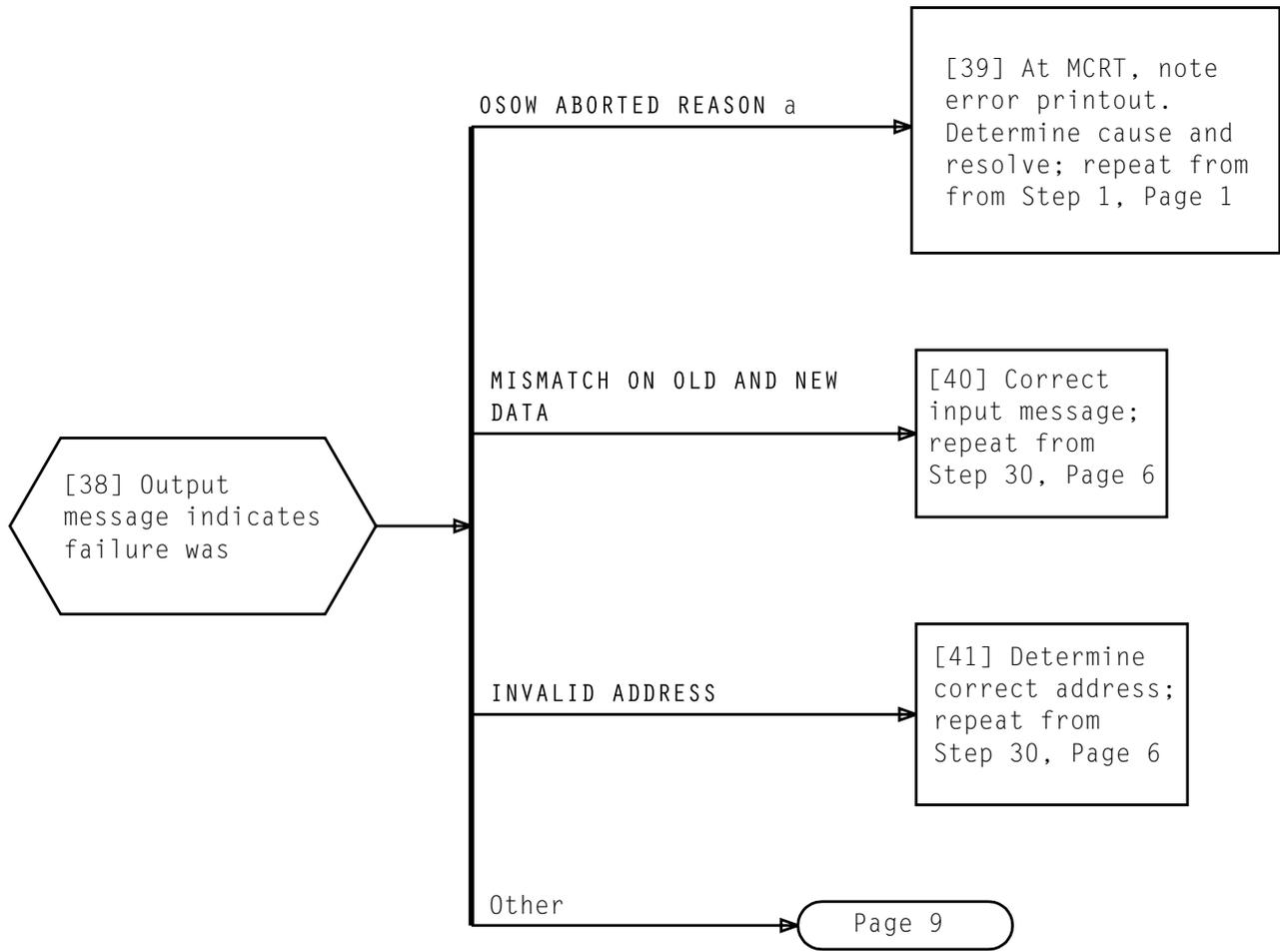
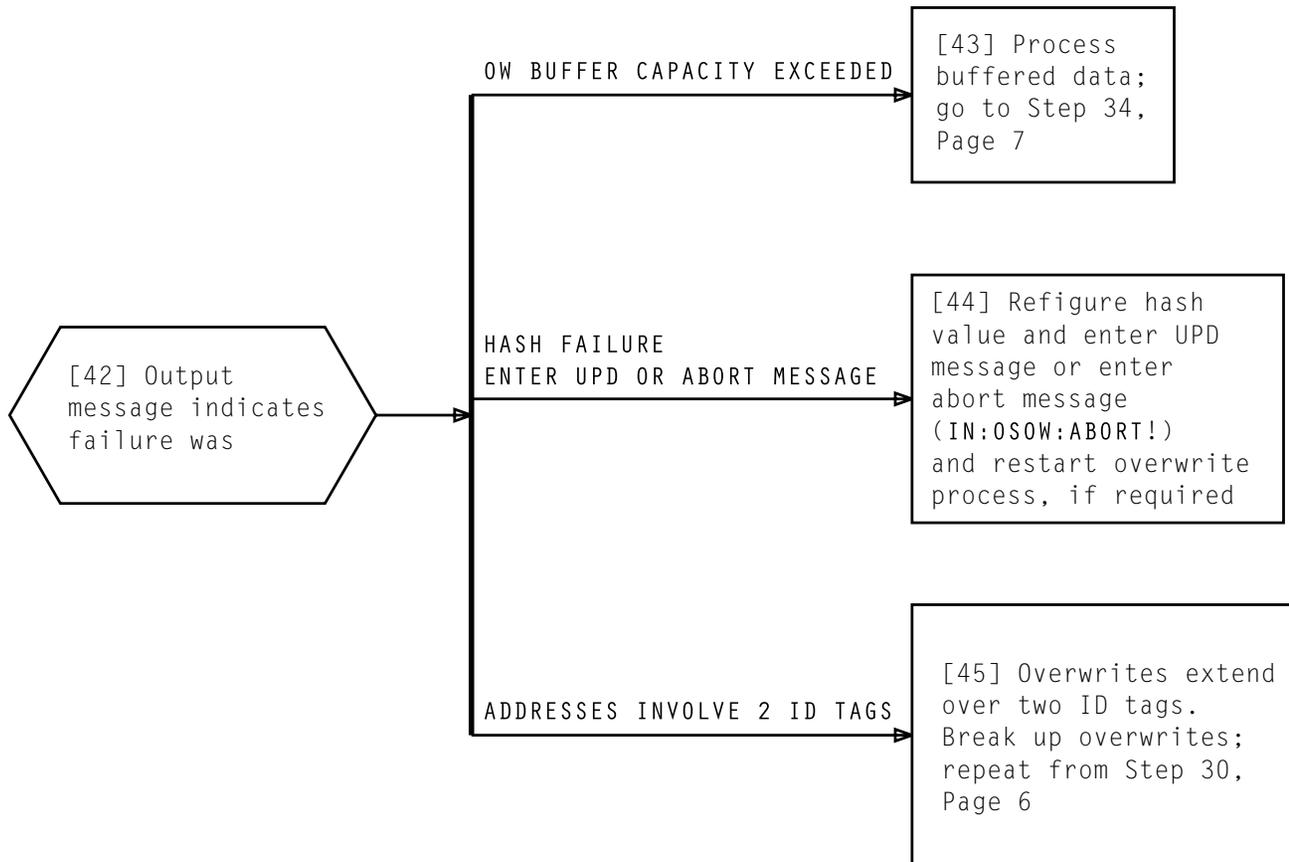


TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGE
1	IN:OSOW COMPLETED MM ADR FS ADR ID OLD DATA NEW DATA xxxxxxxx yyyyyyyy zz aaaaaaaa bbbbbbbb READY FOR OVERWRITE DATA x = Main memory address of data to be changed y = Translated file system address for main memory overwrite or file system address of file system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



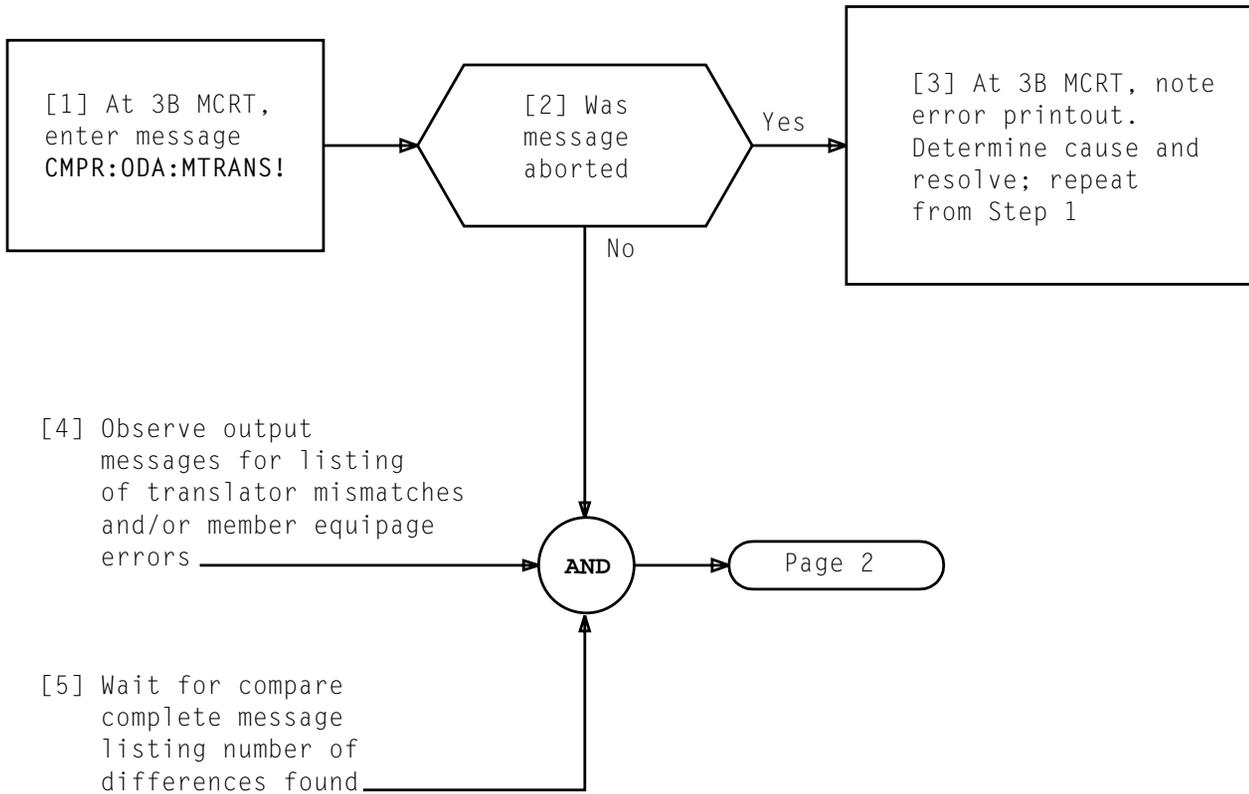
INSERT CRITICAL OVERWRITES INTO UPDATE FILE

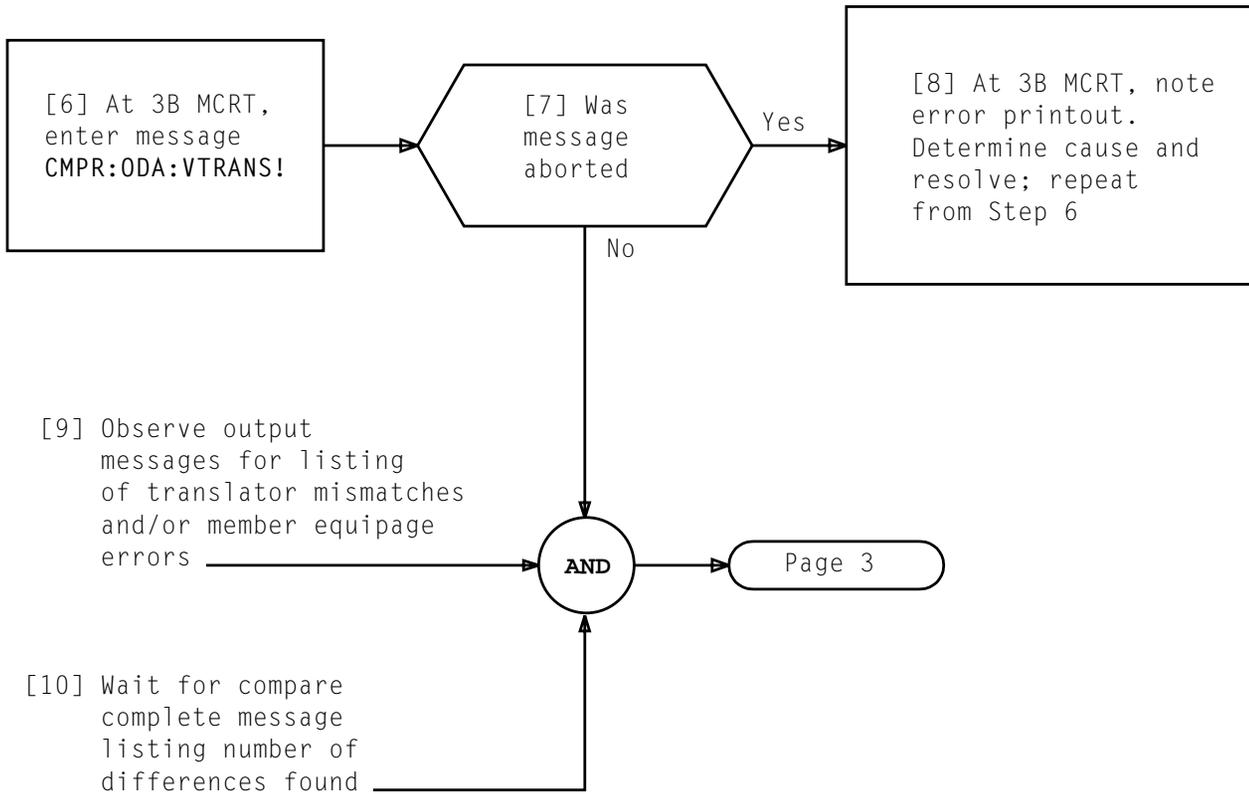
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**INSERT CRITICAL OVERWRITES INTO UPDATE FILE**

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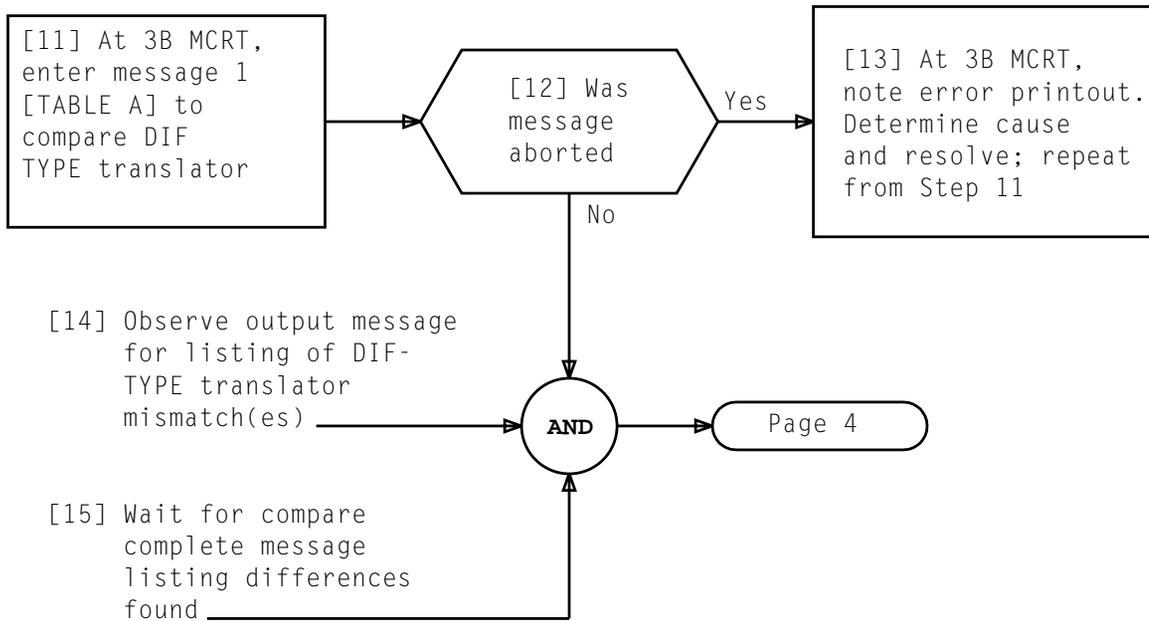


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	CMPR:ODA:SPCL,ACTADR a,00SADR 6745102,L 32! a = 7465021 (for generic retrofit) or 6745102 (for ODA update)

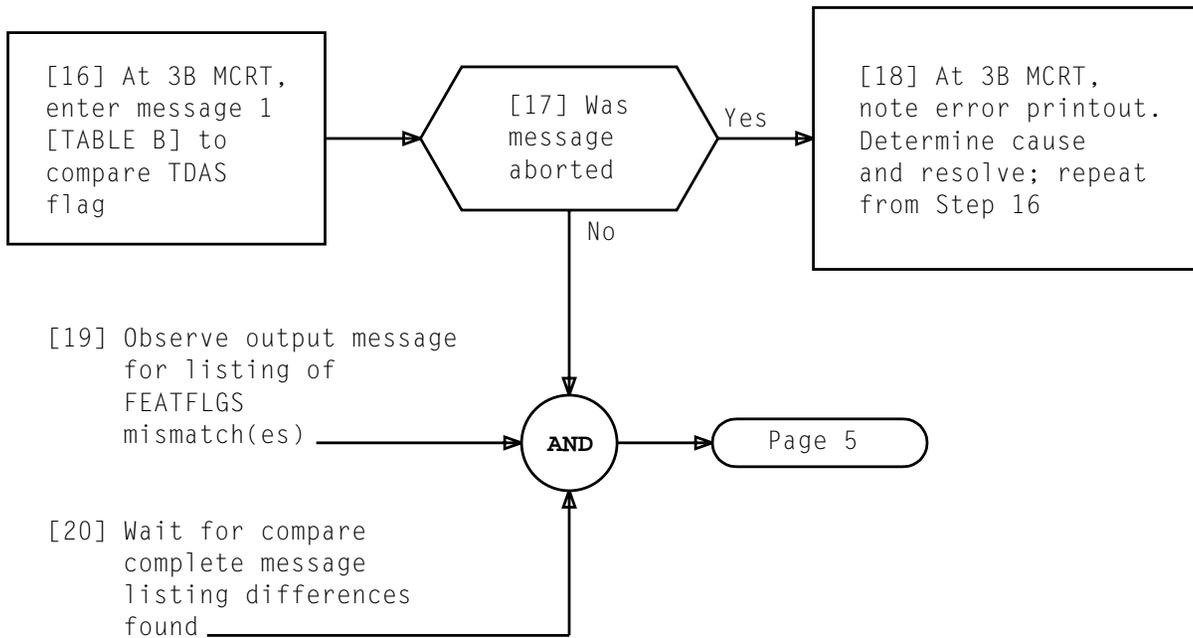


TABLE B	
MESSAGE NUMBER	INPUT MESSAGE
1	CMPR:ODA:SPCL,ACTADR a,00SADR 6660000,MASK 2! a = 7400000 (for generic retrofit) or 6660000 (for ODA update)

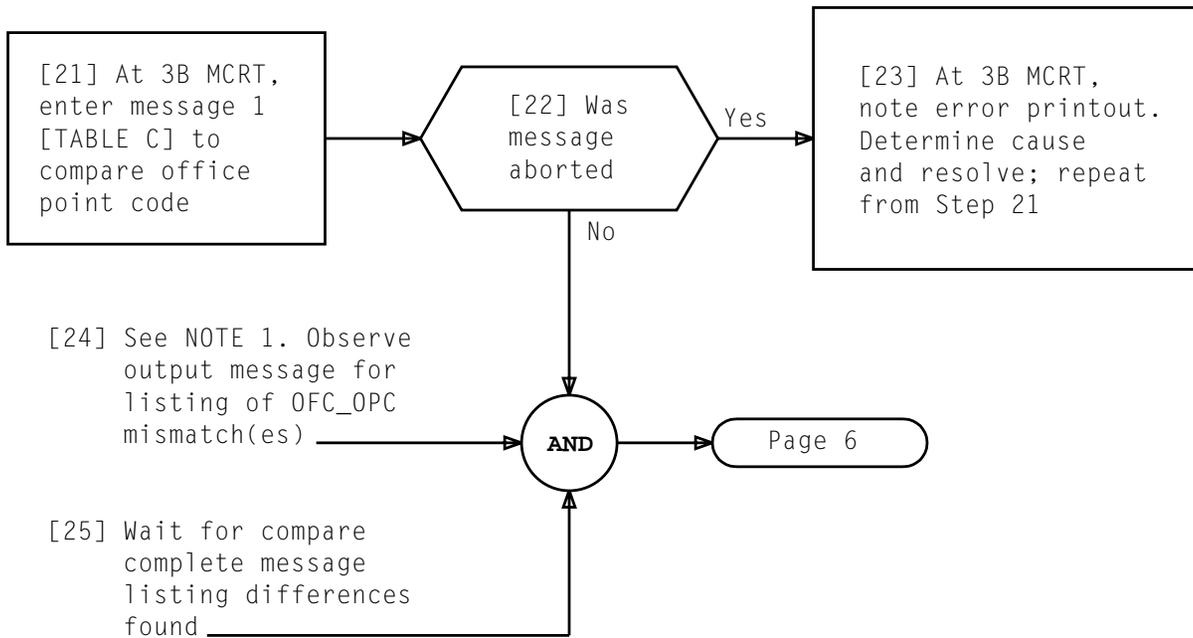


TABLE C	
MESSAGE NUMBER	INPUT MESSAGE
1	CMPR:ODA:SPCL,ACTADR a,00SADR 6673137! a = 7413057 (for generic retrofit) or 6673137 (for ODA update)

NOTE 1 Expect mismatch if point code is being changed	
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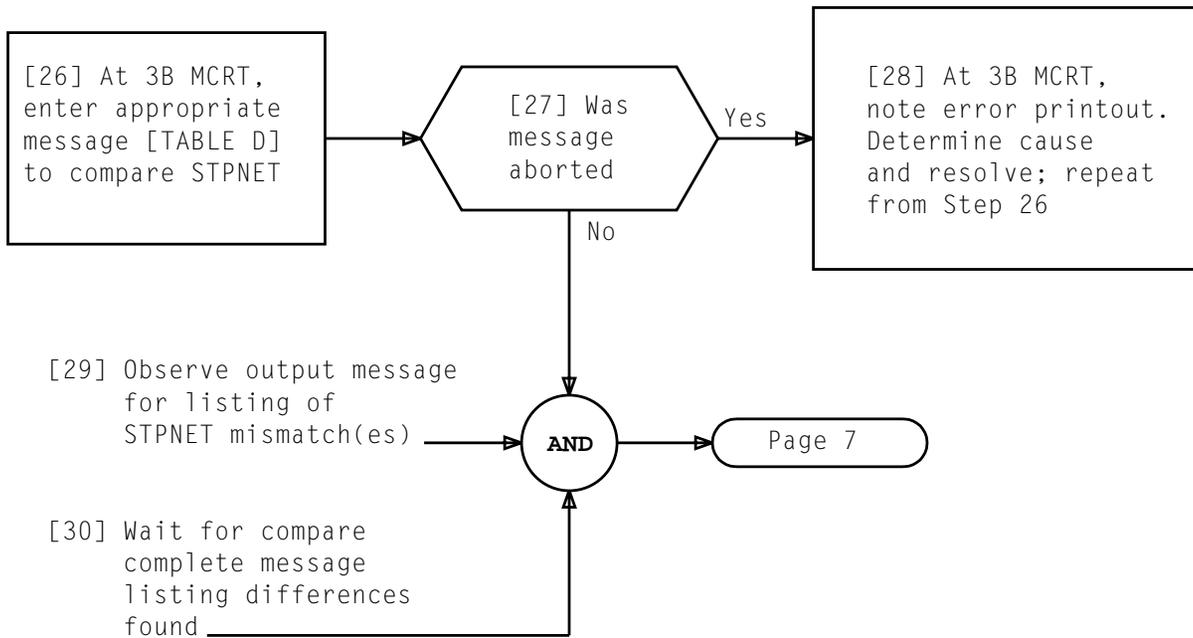


TABLE D	
MESSAGE NUMBER	INPUT MESSAGE
1	CMPR:ODA:SPCL,ACTADR 7465425,00SADR 6745506,MASK 37777! (for generic retrofit)
2	CMPR:ODA:SPCL,ACTADR 6745506,00SADR 6745506! (for oda update)

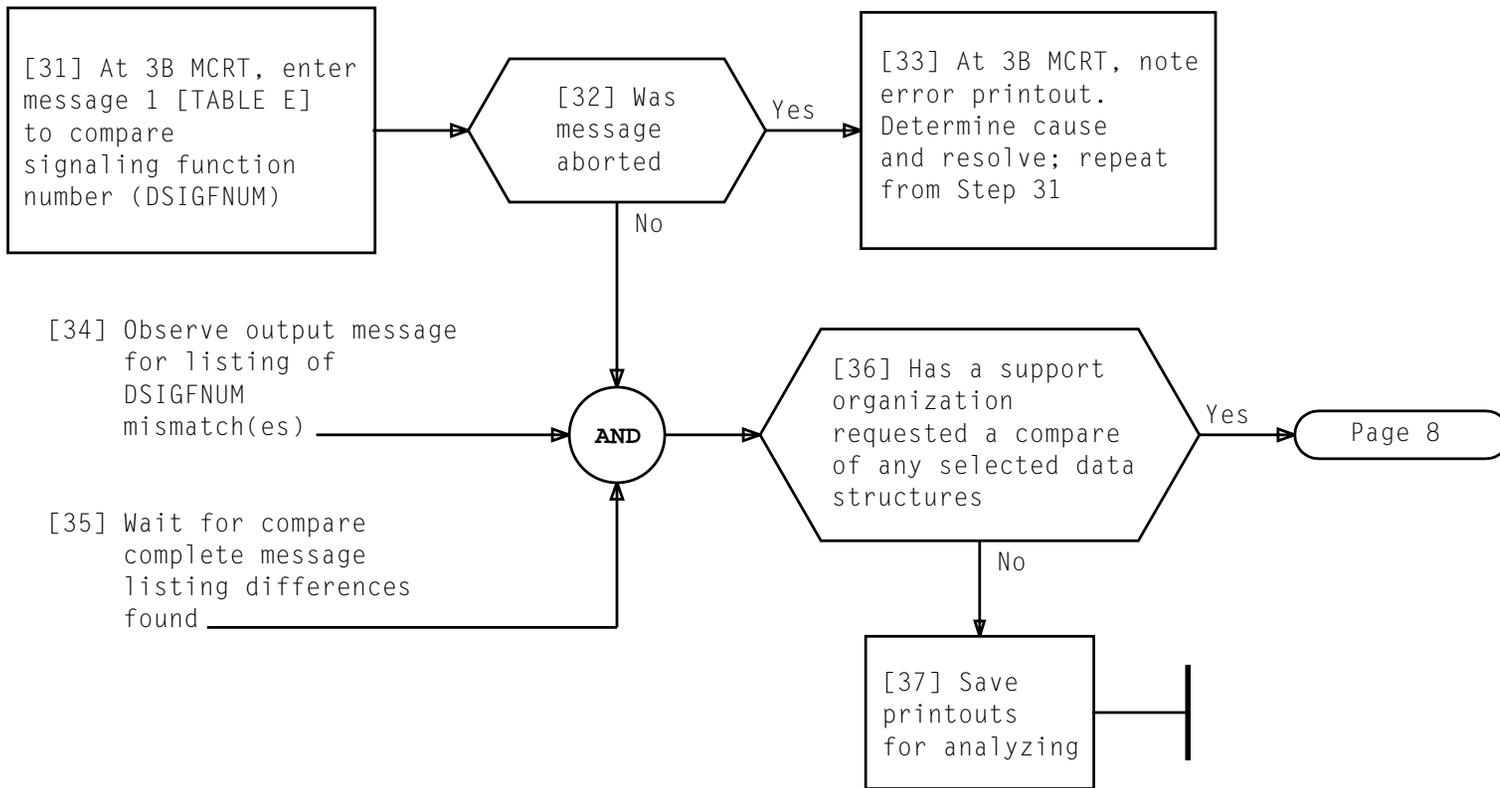
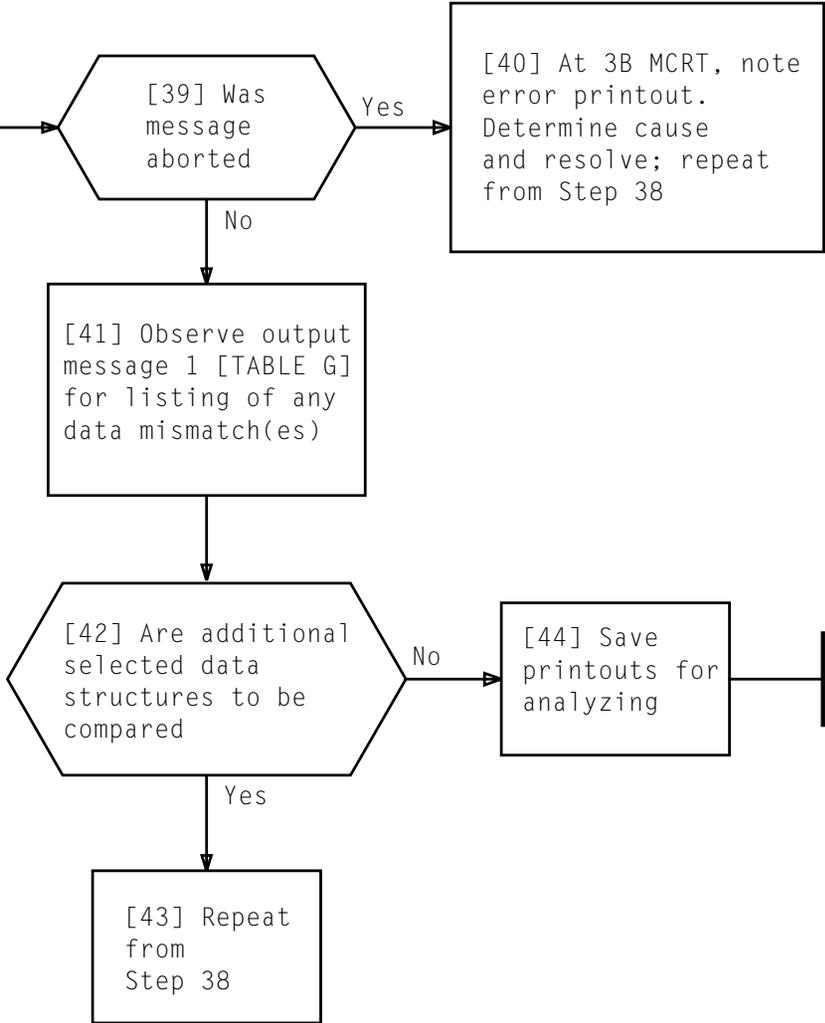


TABLE E	
MESSAGE NUMBER	INPUT MESSAGE
1	CMPR:ODA:SPCL,ACTADR a,00SADR 6673136! a = 7413056 (for generic retrofit) or 6673136 (for ODA update)

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

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

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

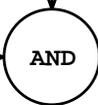
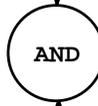


[1] See CAUTION 1

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

[3] Select available tape transport for mounting tape to be written. Demount tape if one is mounted [DLP-528]

[4] Mount blank or erasable tape with write enable ring attached [DLP-529]



Tape mounted

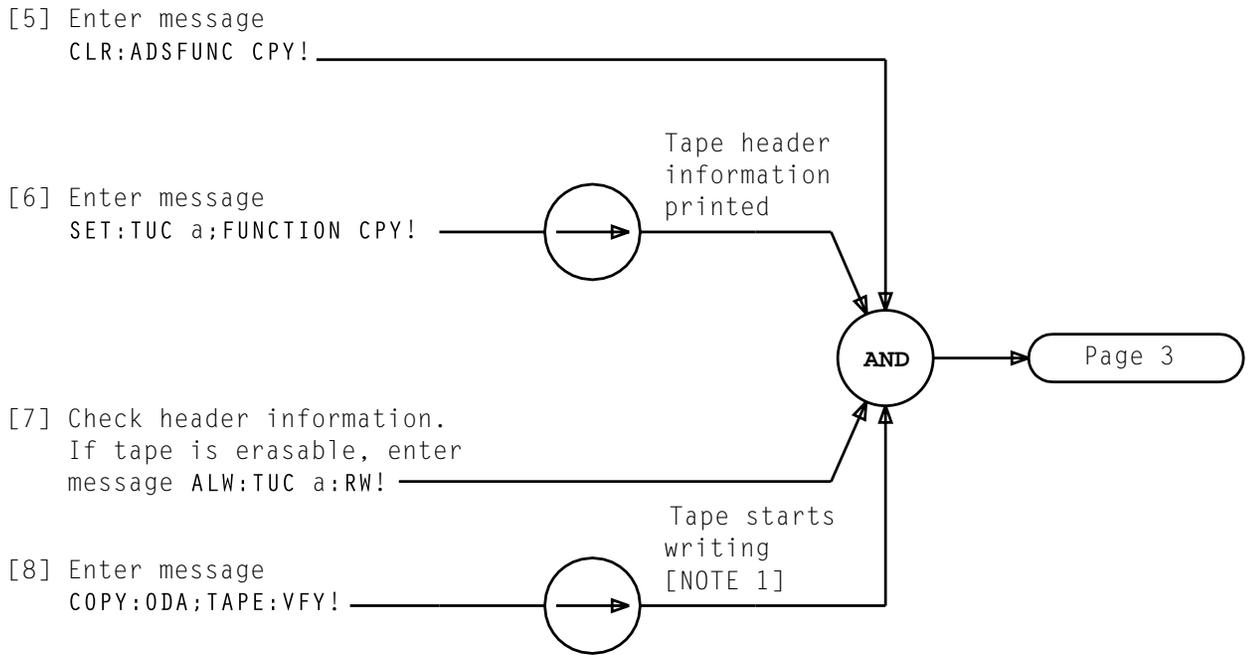
Page 2

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

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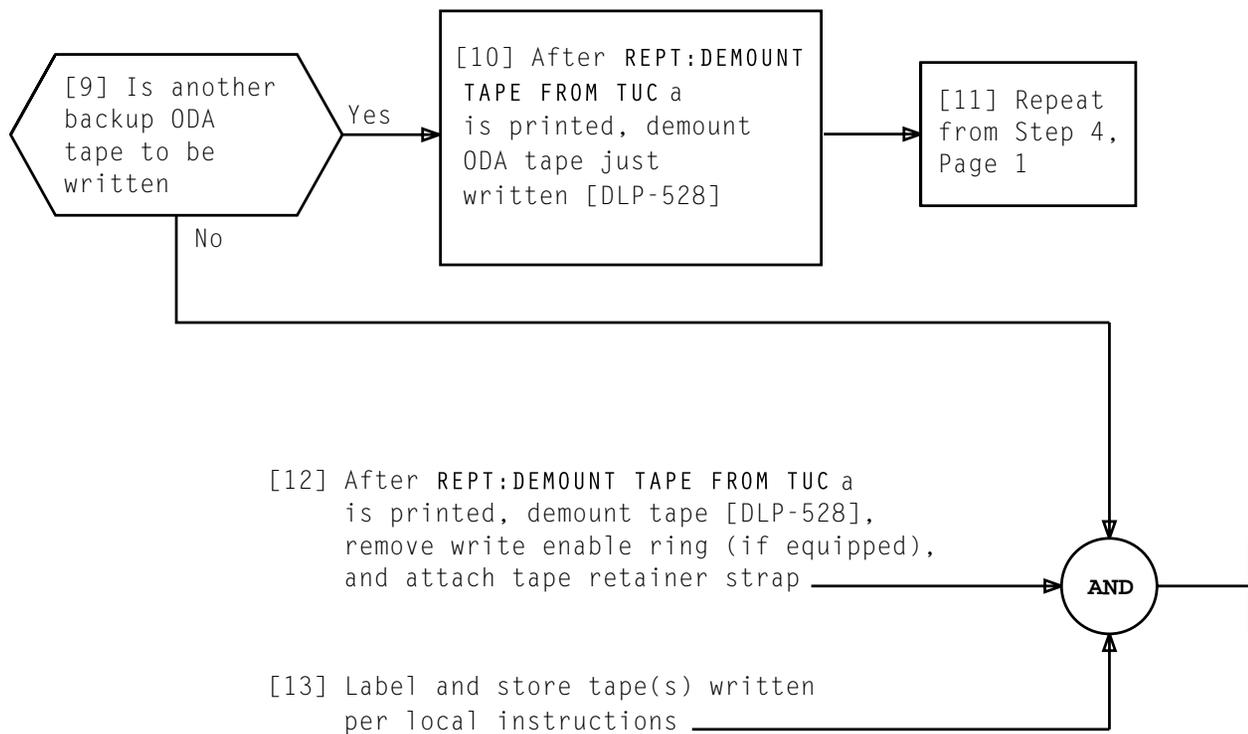
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NOTE 1  
 After ODA tape is written, COPY:ODA;TAPE COMPL date and time are printed. Tape will then rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL is printed followed by REPT:DEMOUNT TAPE FROM TUC a

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[1] Mount a blank or erasable tape with write enable ring attached on 3B computer tape unit [DLP-531]

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

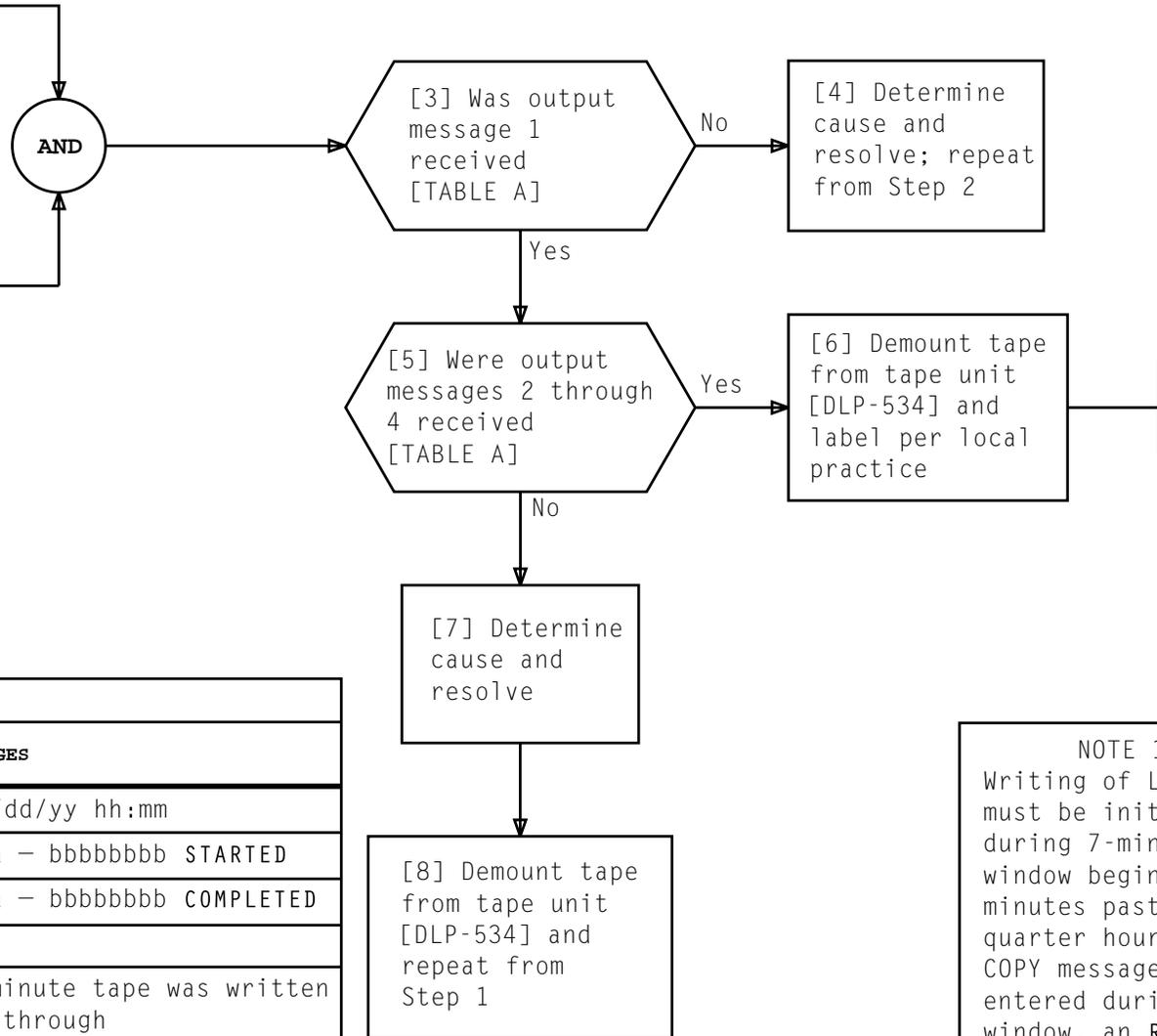


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: LTS, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = month/day/year hour:minute tape was written aaaaaaaa = starting LTS address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

NOTE 1 Writing of LTS tape must be initiated during 7-minute window beginning 4 minutes past any quarter hour. If COPY message is not entered during this window, an RL will be received	
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[1] See CAUTION 1. Inform MAC to not make any traffic scheduling changes while tape writing is in progress

[2] Select available tape transport for mounting tape to be written. Demount tape if one is mounted [DLP-528]

[3] Mount blank, or erasable, tape with write enable ring attached [DLP-529]

At TTY:

[4] Enter message  
CLR:ADSFUNC CPY!

[5] Enter message  
SET:TUC a;FUNCTION CPY!

[6] Check header information.  
If tape is blank or erasable,  
enter message ALW:TUC a:RW!

[7] Enter message  
COPY:TPM;TAPE:VFY!

Inhibits set  
and tape  
mounted



Tape header  
information  
printed



Tape  
writing  
started



Writing of  
tape begins  
[NOTE 1]



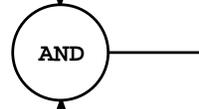
NOTE 1  
After TPM tape is written, COPY:TPM;TAPE COMPL date and time are printed. Tape will then rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL is printed followed by REPT; DEMOUNT TAPE FROM TUC a

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

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[8] After tape has been written  
and verified and REPT:DEMOUNT  
TAPE FROM TUC a is printed, demount  
tape just written [DLP-528] and  
remove write enable ring

[9] Label and store tape per local instructions



[1] Mount a blank, or erasable, tape with write enable ring attached on 3B computer tape unit [DLP-531]

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

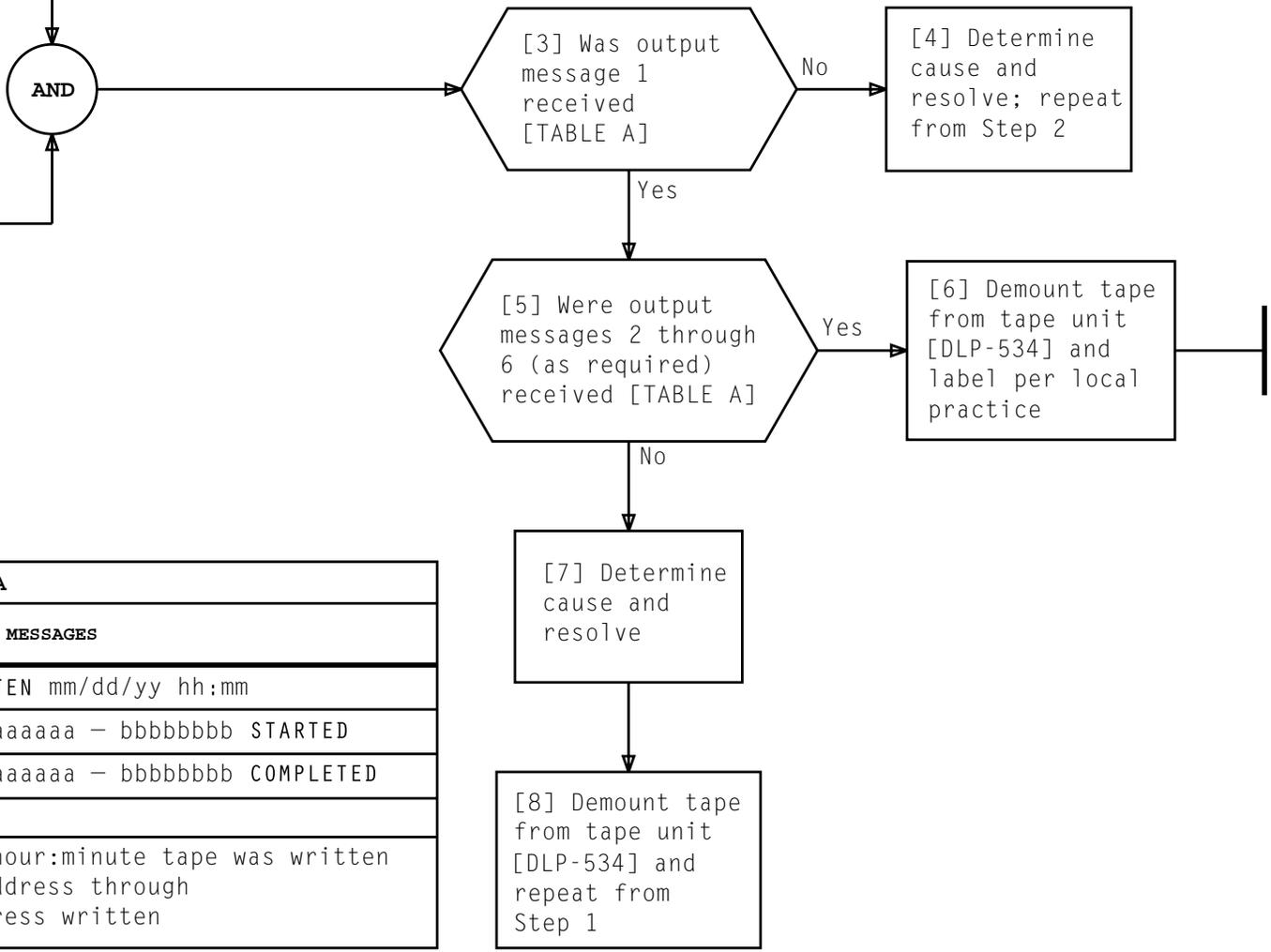


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	APPTAPE TYPE: TOSL, WRITTEN mm/dd/yy hh:mm
2	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb STARTED
3	APPTAPE ADDRESS RANGE aaaaaaaaa - bbbbbbbb COMPLETED
4	APPTAPE COMPLETED
mm/dd/yy hh:mm = month/day/year hour:minute tape was written aaaaaaaa = starting TOSL address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

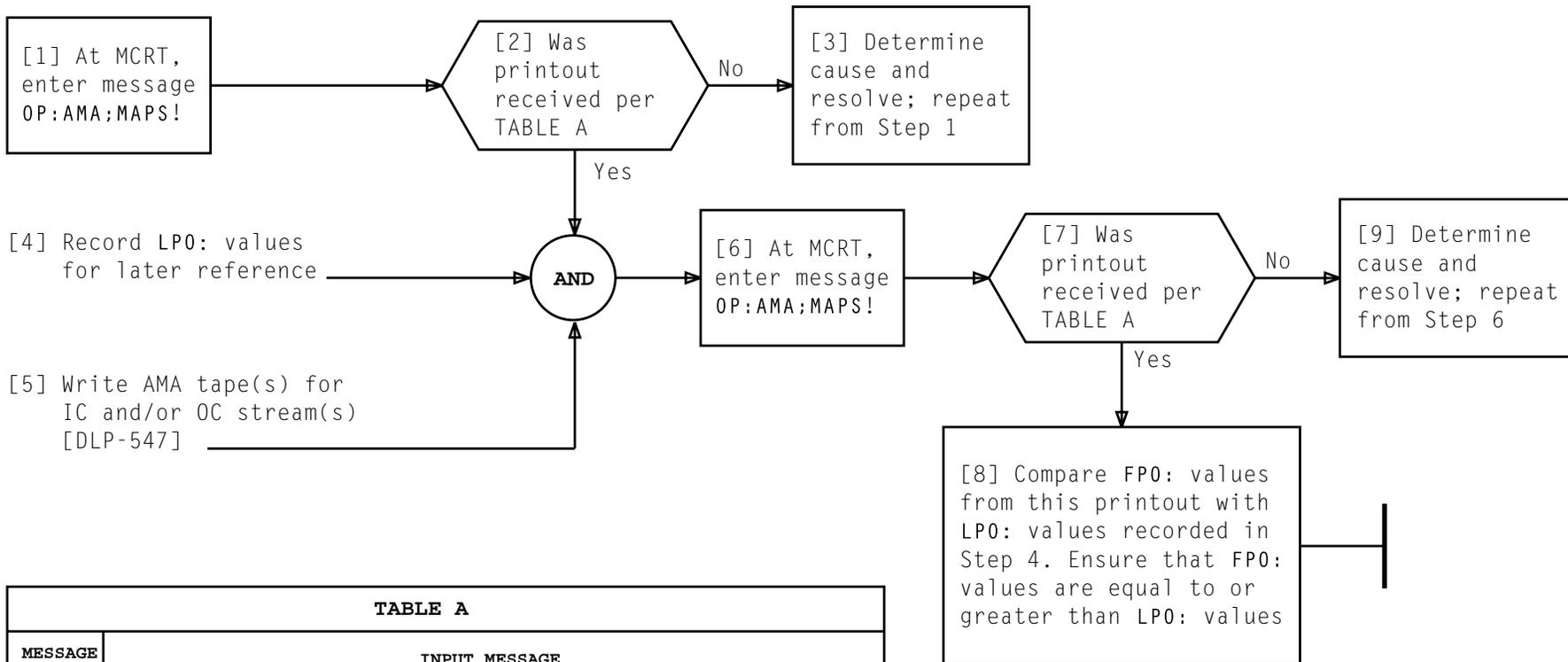


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	REPT AMA DISK MAPS WRITE PARTITION a READ PARTITION a = Partition number AMA data being written
2	PARTITION b DISK MAP: FP0: c      LP0: d      FPS: _____ LPS: _____ FS0: _____ LS0: _____ FSS: _____ LSS: _____ FB0: _____ LB0: _____ FBS: _____ LBS: _____  b = Equipped partition number c = Read value to be recorded after AMA write d = Write value to be recorded before AMA write
3	Message 2 is repeated for each equipped partition

[1] Mount AMA tape, supplied by RAO, with write ring attached on in-service 3B computer tape drive [DLP-531]

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

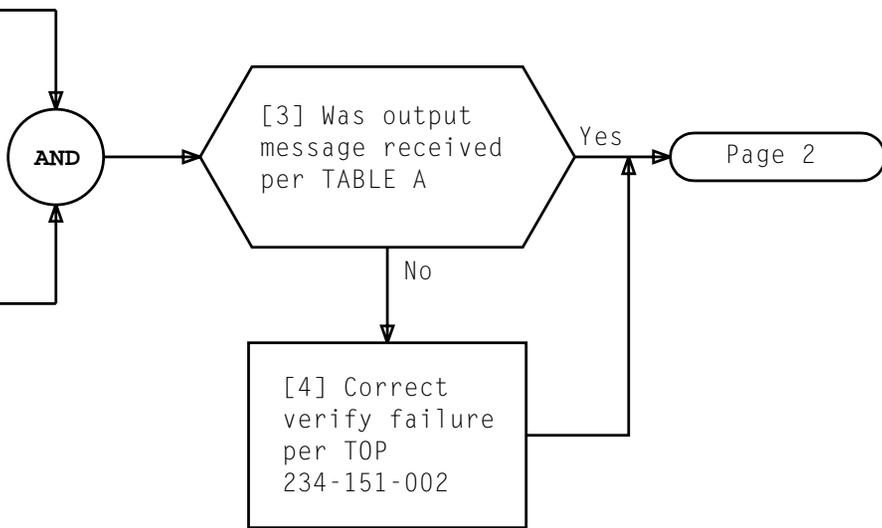
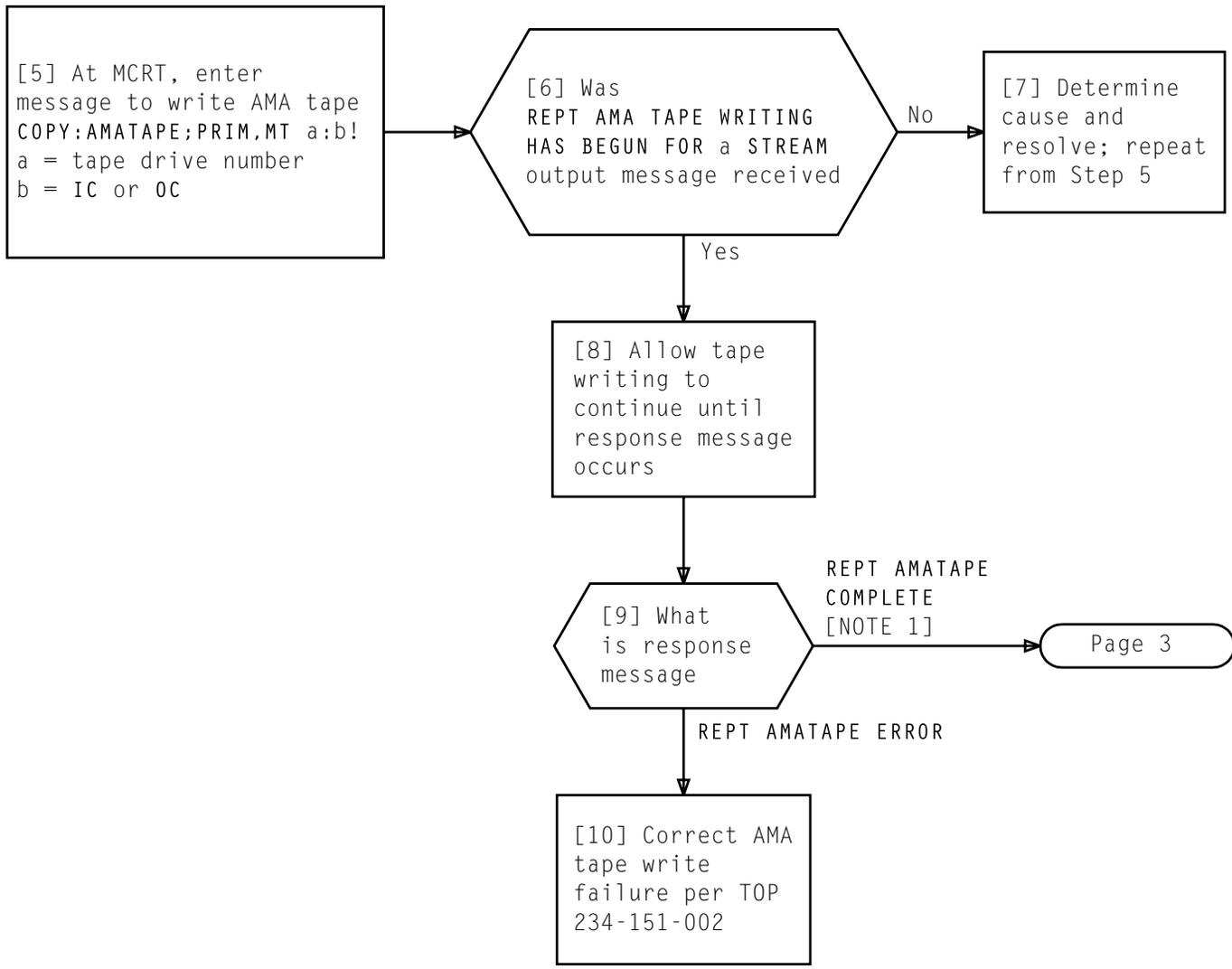


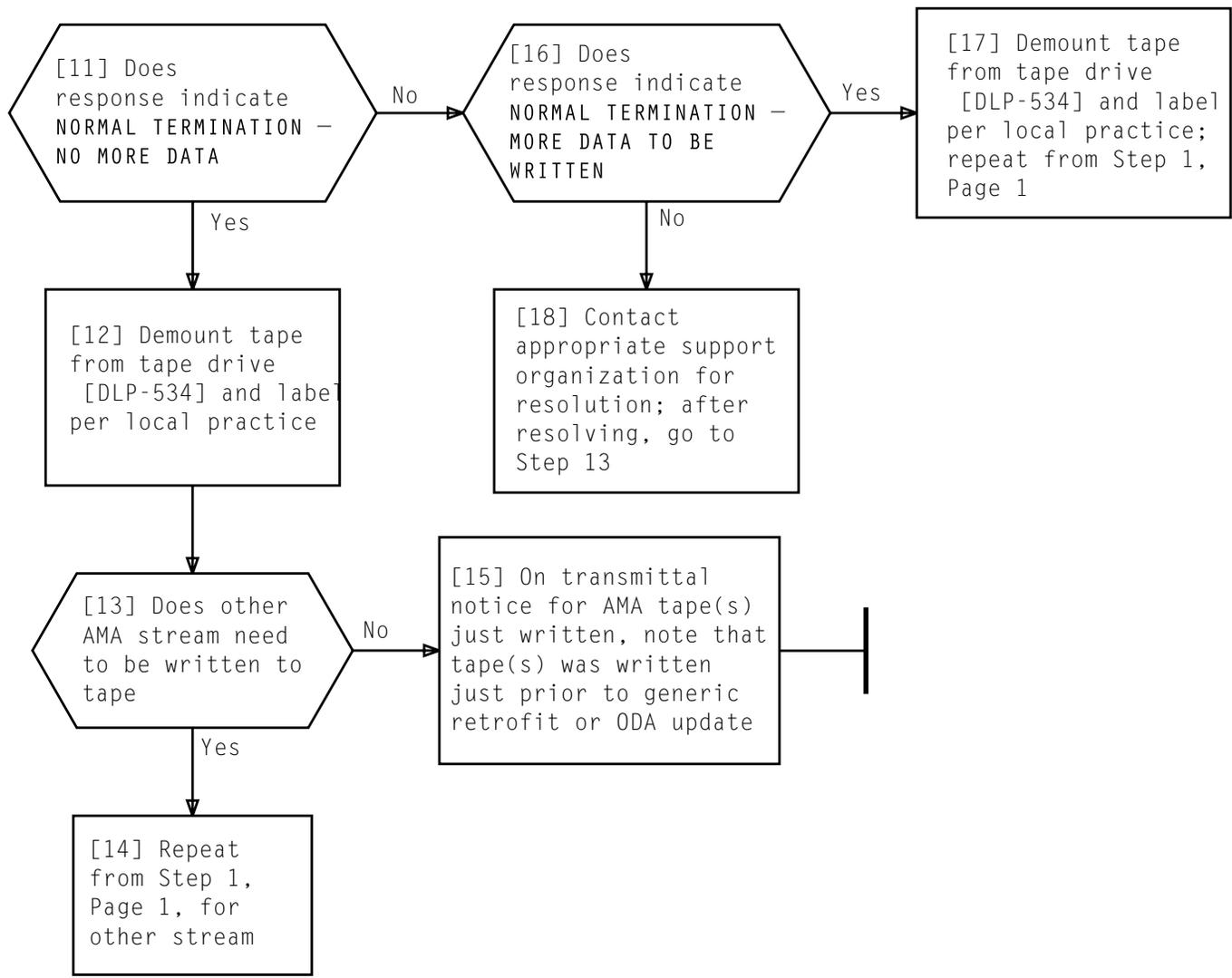
TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT AMATAPE VERIFY FOR a STREAM VOL SER NUMBER b DATA SET ID c EXPIRATION DATE d-e TAPE DRIVE NUMBER f AMA TAPE CAN BE WRITTEN  a = IC or OC b = Tape serial number c = Data set ID d = Year of expiration date e = Day of expiration (1 through 365) f = Tape drive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

**WRITE AMA TAPE(S)**



**WRITE AMA TAPE(S)**

NOTE 1 Output message contains detailed data of AMA tape	
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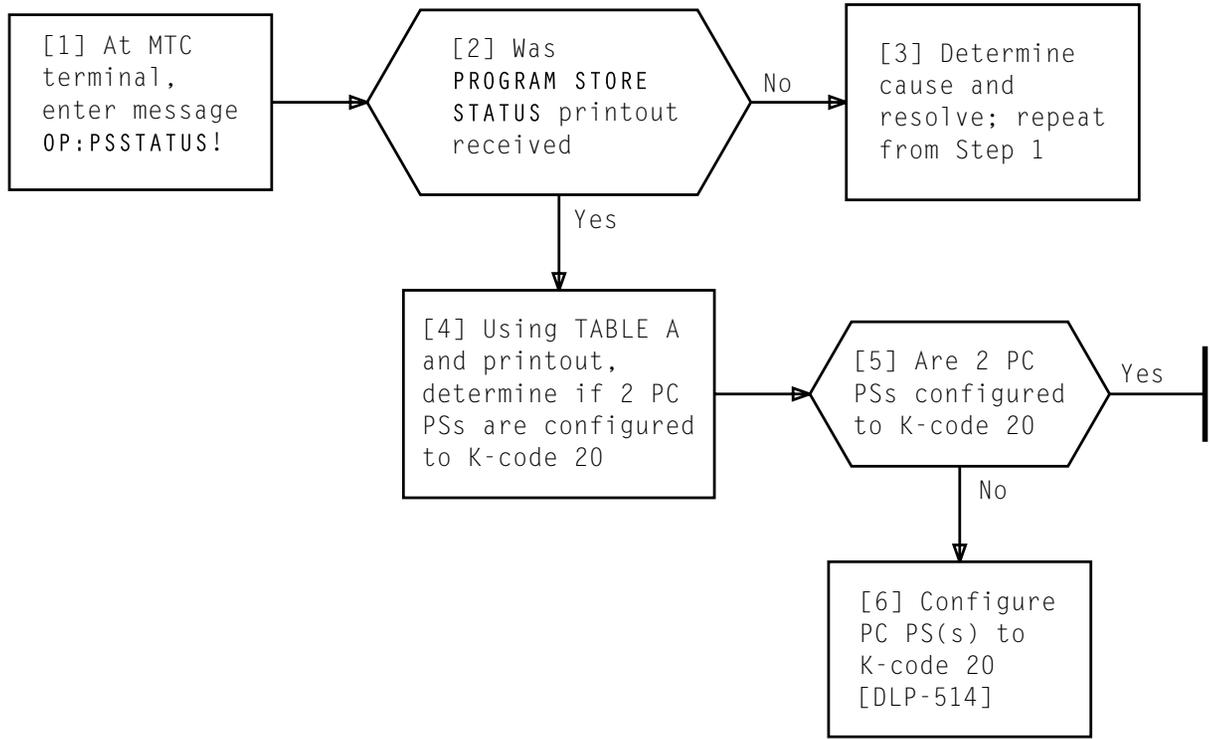
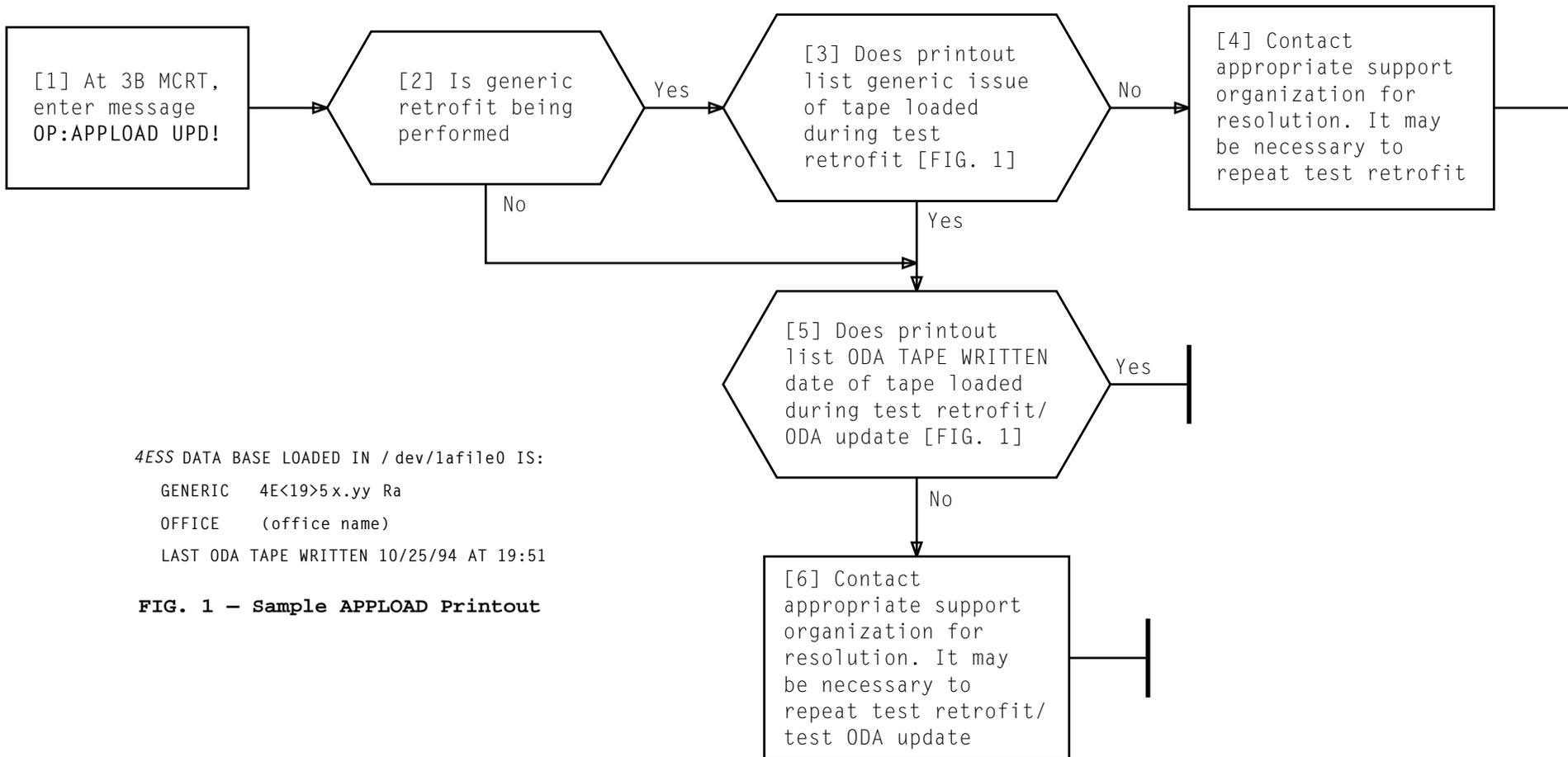


TABLE A	
PC PS COMBINATIONS	
256K START OFFICE	64K START OFFICE
0 and 2	18 and 20
0 and 4	18 and 22
2 and 4	20 and 22

**ENSURE THAT TWO PC PROGRAM STORES ARE CONFIGURED TO K-CODE 20**

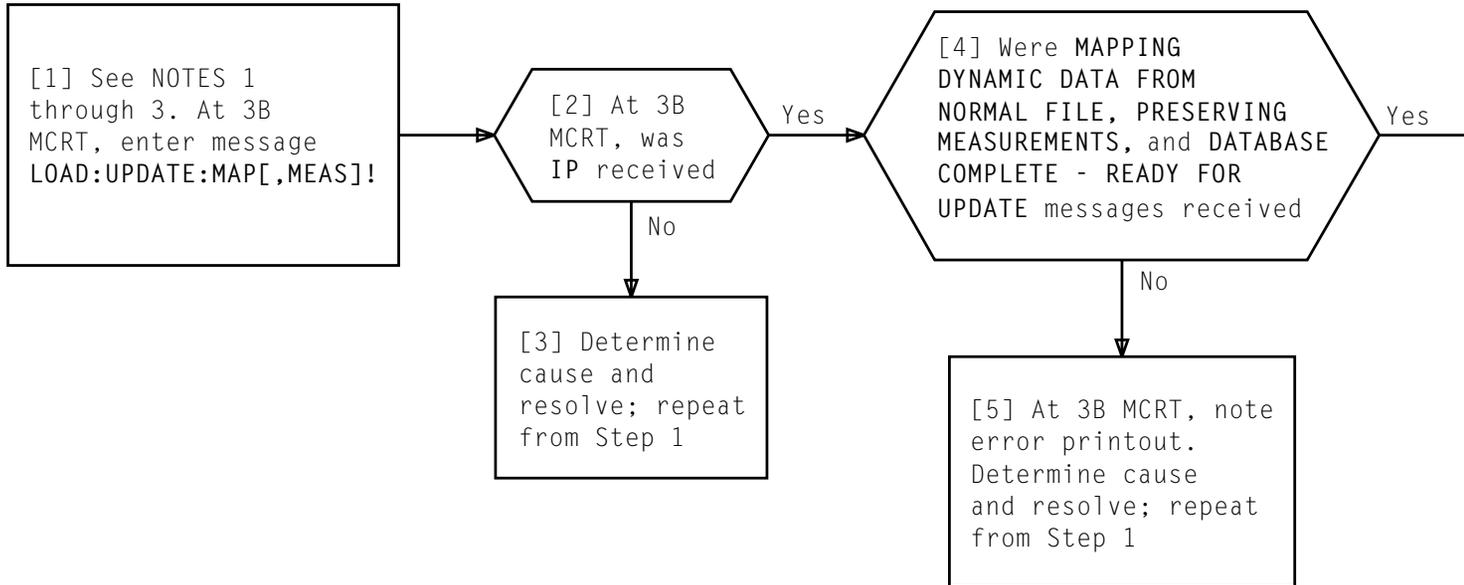
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```

4ESS DATA BASE LOADED IN / dev/1afile0 IS:
  GENERIC  4E<19>5x.yy Ra
  OFFICE   (office name)
  LAST ODA TAPE WRITTEN 10/25/94 AT 19:51
  
```

**FIG. 1 - Sample APPLOAD Printout**



NOTES	
1. If schedules that are entered by SCHED:MEAS input message are to be retained for update, include MEAS option in LOAD message (AT&T offices should use MEAS option)	
2. WAITING FOR 4 TO 13 MINUTES PAST QUARTER HOUR output message may be received. System will automatically map dynamic data when in proper window	
3. Dynamic data being mapped is TOSL and long-term storage	
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[1] At 1A MTC terminal,  
 enter message  
 DUMP:CC,ADR 17776332,L 3!

[2] Using printout, verify  
 words 0 through 2 are  
 per TABLE A, Page 2

[4] Convert octal word in  
 error to binary

[5] Using TABLE B, Page 2,  
 determine binary bit(s)  
 (Step 4) in error

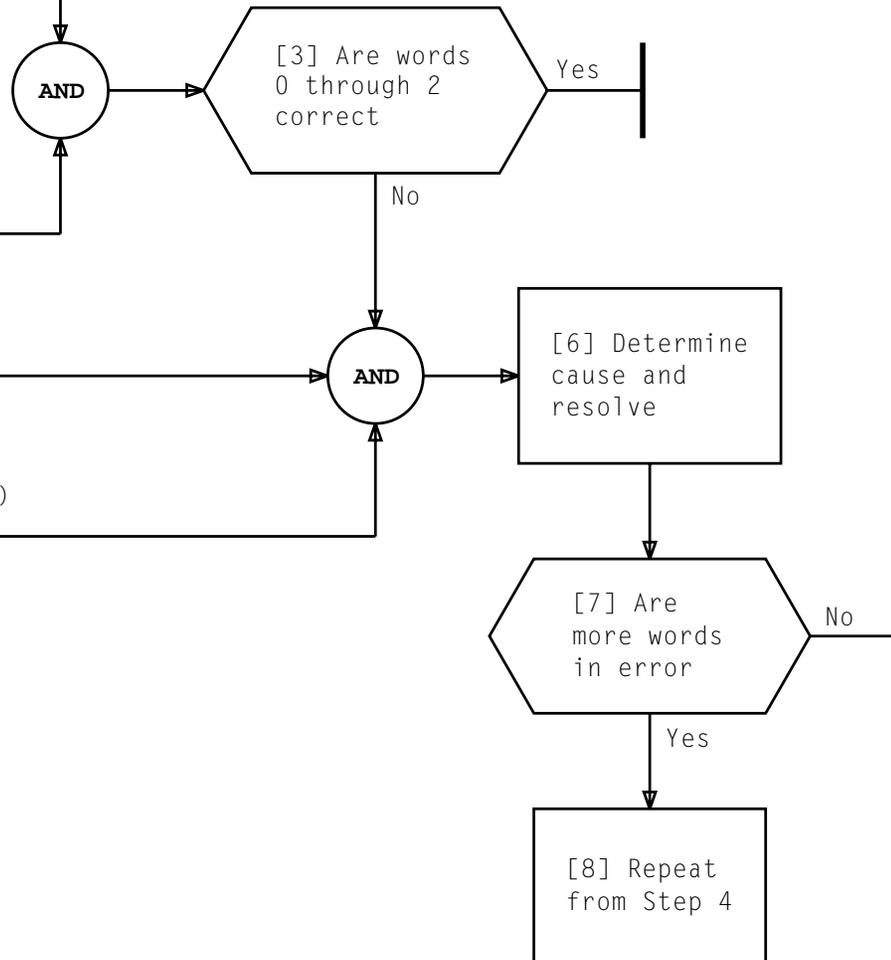


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	DUMP:CC,INDIR 0,ADR 17776332,INC +0 COMPLETED 17776332 06010000 000a0010 00040000 \WORD 0/ \WORD 1/ \WORD 2/
a = 0 or 1 (Do Not Care)	

TABLE B			
WORD	BINARY BIT	PUSHBUTTON SWITCH	MCC PANELS
0	12	MODIFY RECOVERY ACTIONS	MANUAL INTERRUPT PROGRAM REQUEST
1	3	DISABLE AUTO PC	PROCESSOR CONFIGURATION SEQUENCER
2	14	DIRECT DATA INSERT - 14	MANUAL INTERRUPT PROGRAM REQUEST

VERIFY MCC SWITCH STATUS

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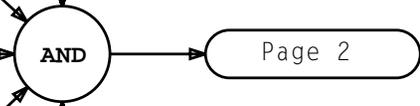
[1] This procedure is to be performed by AT&T offices only. Review and become familiar with this procedure. If something is NOT understood, contact next higher technical support group for assistance. Read NOTE 3, Page 5 to become familiar with what is happening on EAI Page during pump and what to look for.  
*Put some type of book marker at Pages 11 and 20 in case backout is required.*

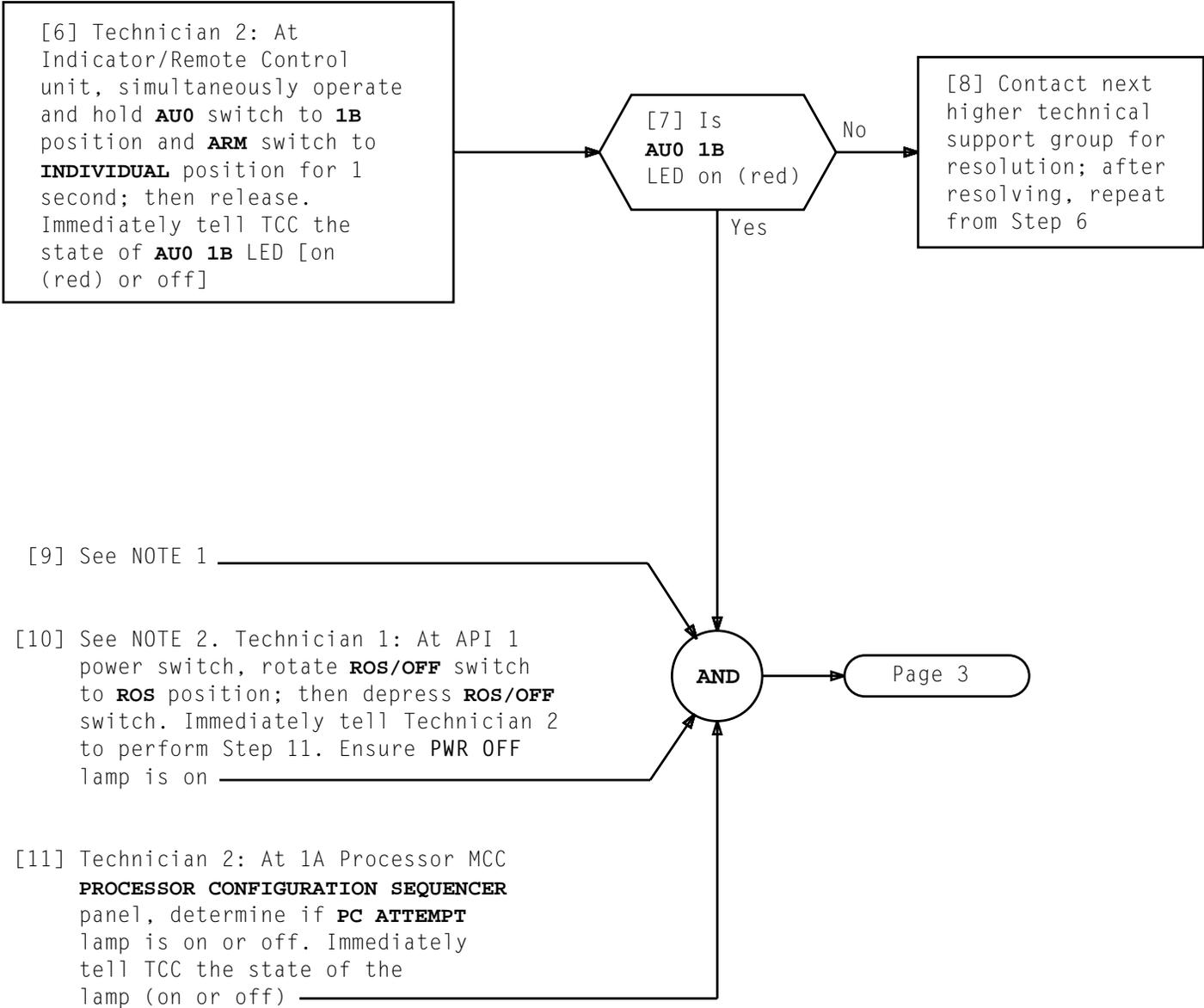
[2] Ensure CAR field on UCD displays **PCRVBOT.AA+2**. If CAR field does not display **PCRVBOT.AA+2**, 1B Processor will need to be suspended (701), **FORCE FNCT** selections reset and Hard A (01) entered

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

[4] Technician 2: At Indicator/Remote Control unit, set rotary bus selector to **AUO**

[5] Two technicians will be required to assist when performing Steps 6 through 13 (Pages 2 and 3). Become familiar with this Step sequence before performing. Steps 10 through 12 (Pages 2 and 3) must be performed without interruption

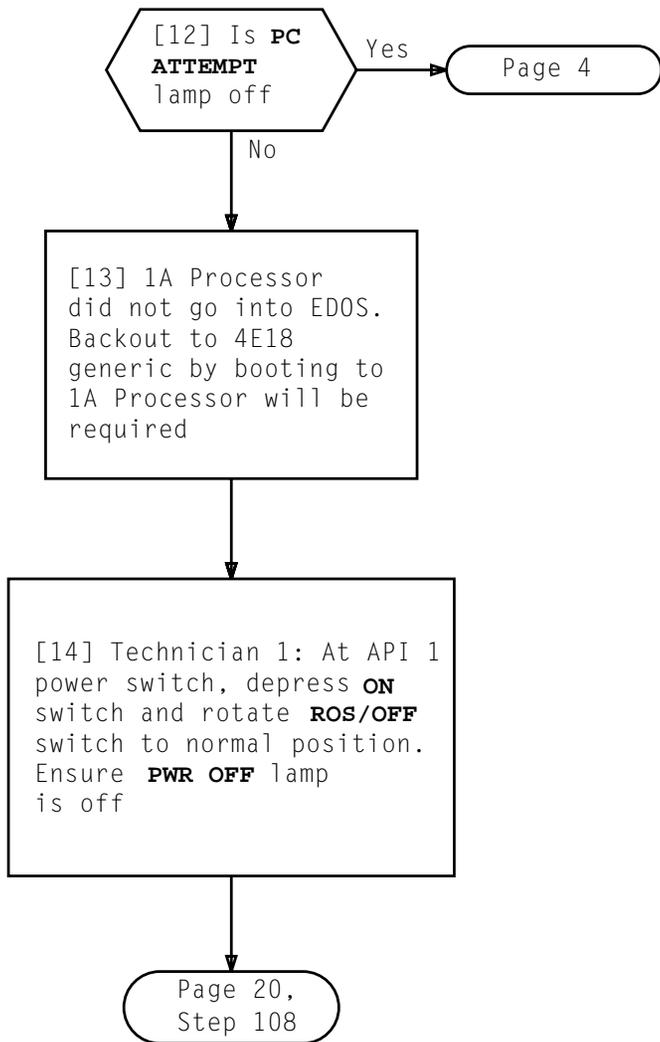




NOTES

1. If system does not respond to commands during Steps 15 through 22 (Pages 4 and 5), procedure must be stopped and backout will be required. If backout is required, perform procedure at Step 54, Page 11
2. Step 10 is being performed to duplex fail the APIs. Duplex-failed APIs will cause 1A Processor to go into EDOS. AMA billing stops when 1A Processor is in EDOS

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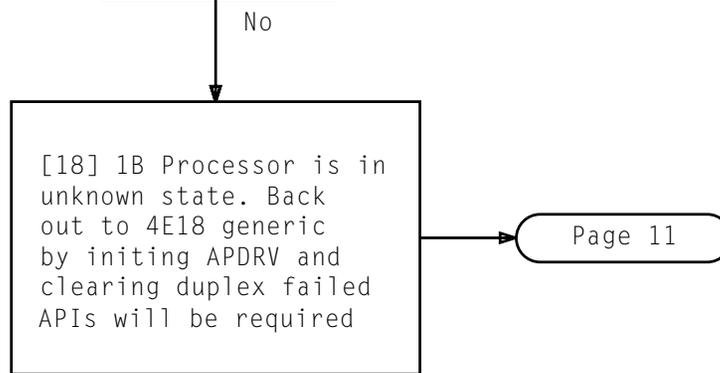
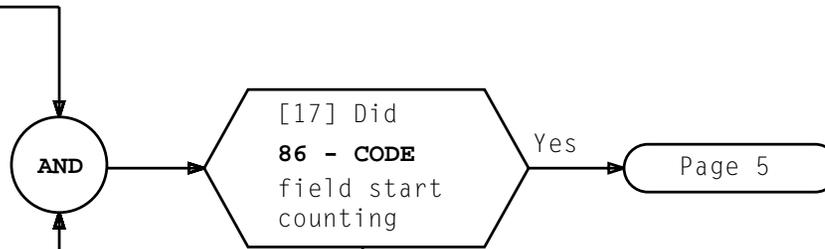


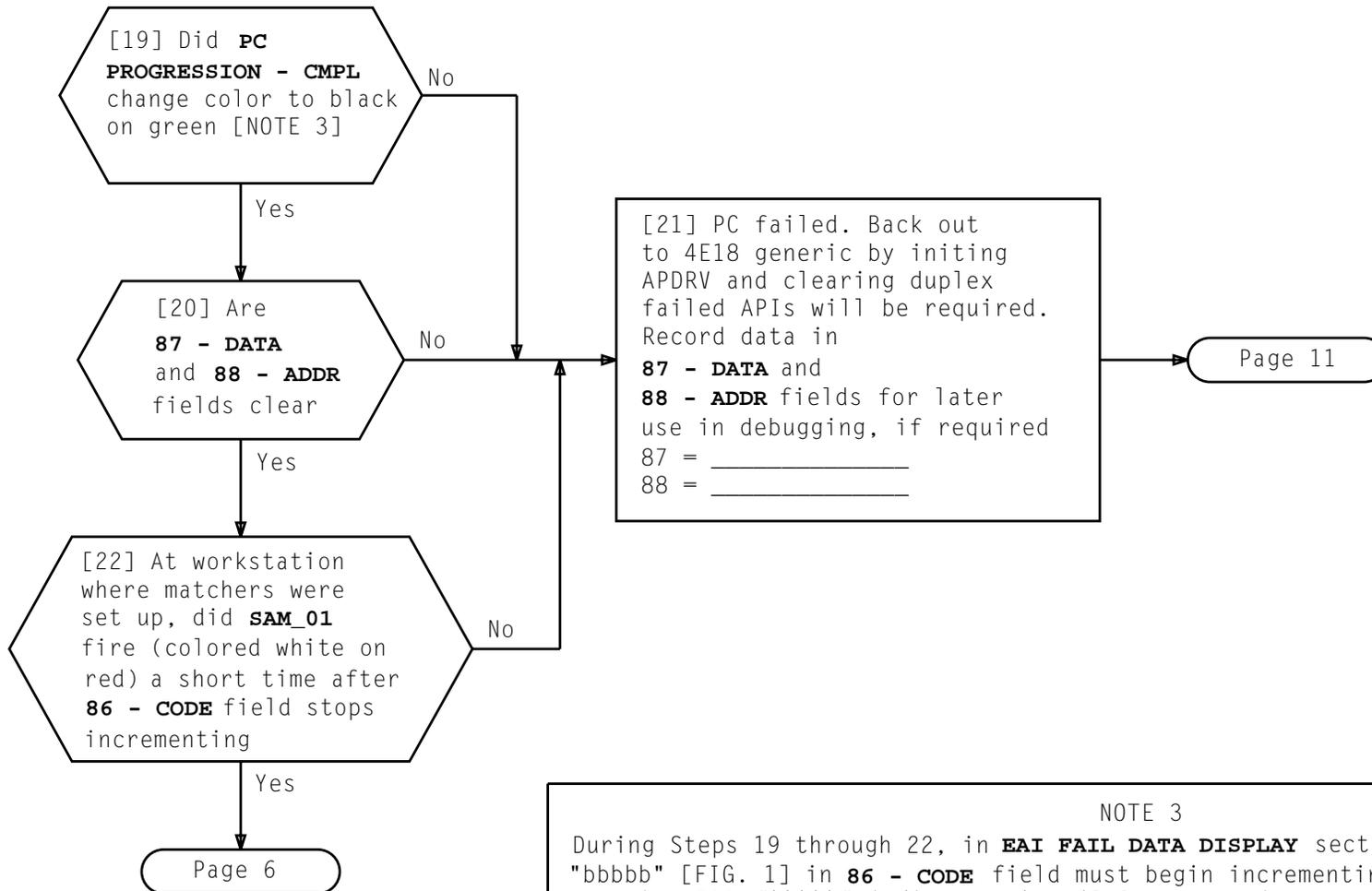
**RETROFIT TO 1B PROCESSOR**

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[15] At 1B Processor remote MCC terminal,  
enter 702 (RUN) to set 1B  
Processor to run

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





[21] PC failed. Back out to 4E18 generic by initing APDRV and clearing duplex failed APIs will be required. Record data in  
**87 - DATA** and  
**88 - ADDR** fields for later use in debugging, if required  
 87 = \_\_\_\_\_  
 88 = \_\_\_\_\_

NOTE 3

During Steps 19 through 22, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 1] in **86 - CODE** field must begin incrementing within 10 seconds after entering 702. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green and **SAM\_01** fires (color white on red), approximately 2 minutes after entering 702. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If "aaa" and "bbbb" stop incrementing and a value is found in **87 - DATA** field, this is a failure.

**86 - CODE:** O'000aaabbbb  
**87 - DATA:**  
**88 - ADDR:**

FIG. 1 - 86 - CODE Field Layout

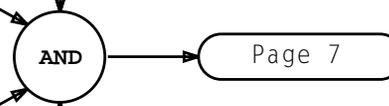
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[23] *If system does not respond to commands during Steps 24 through 53 (Page 10) procedure must be stopped and backout will be required. If backout is required, perform procedure at Step 104, Page 20*

[24] Technician 2: At Indicator/Remote Control unit, operate **ALL-1B** key counterclockwise to **ON** position; then operate **ARM** switch down to **ALL** position. Wait for **PUB0** and/or **PUB1** to go RED; then tell TCC that Step 25 can be performed

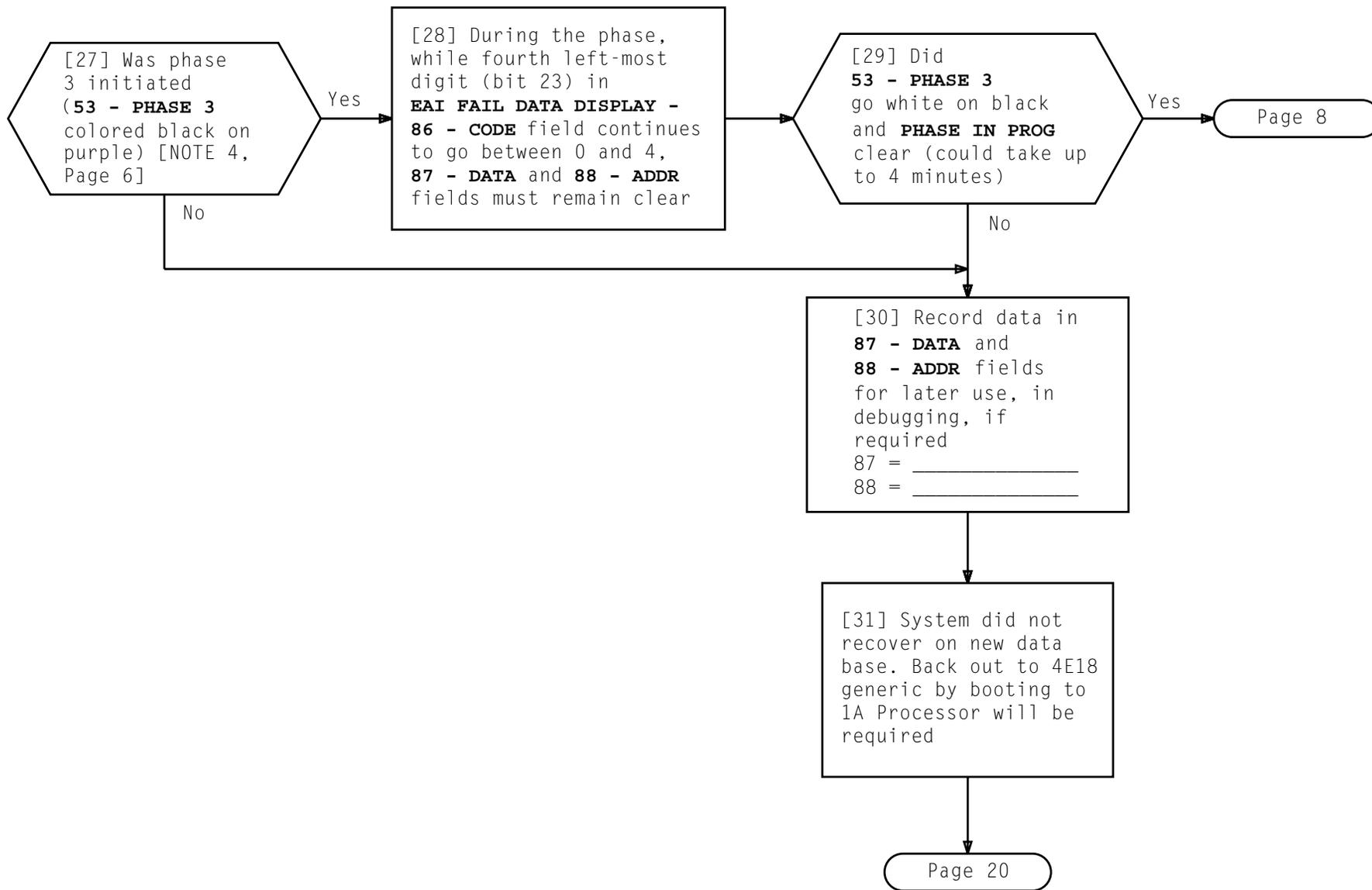
[25] At 1B Processor remote MCC terminal, enter 702 (RUN) to set 1B Processor to run. Tell Technician 1 to perform Step 26; then look for phase 3 indication [NOTE 4]

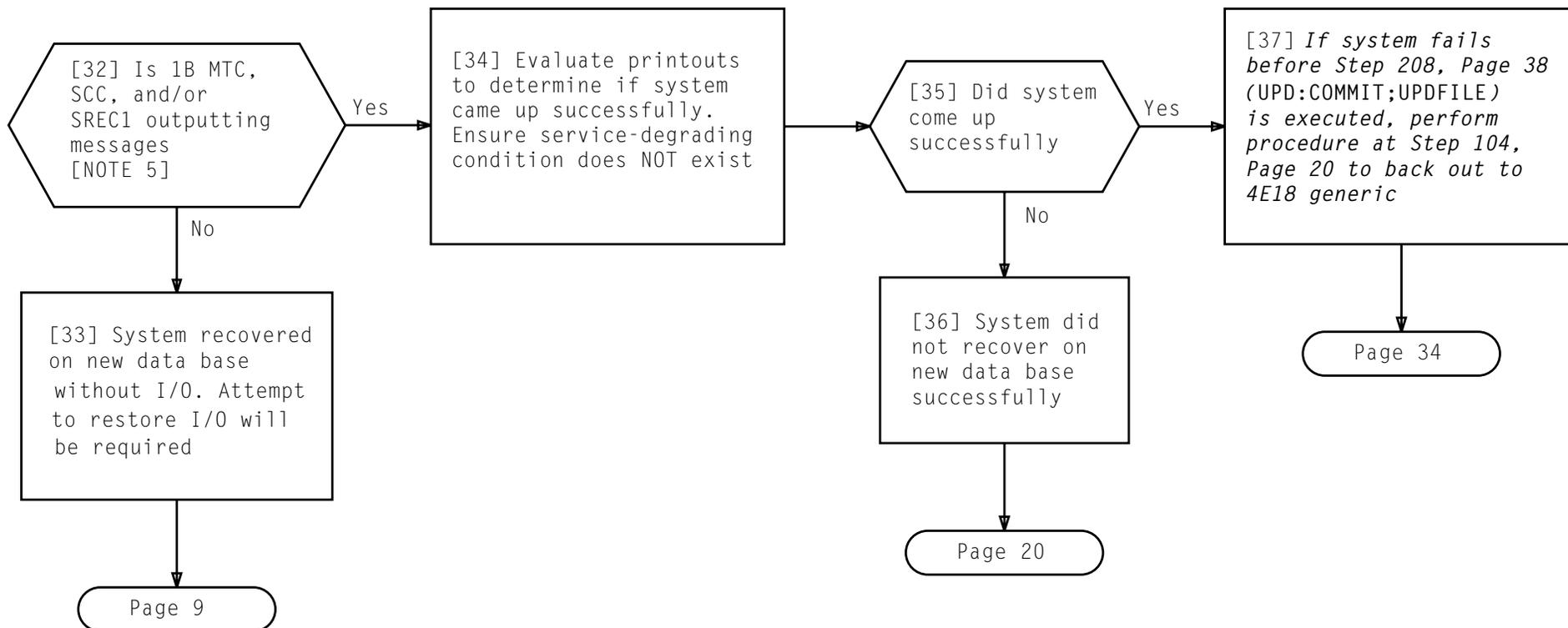
[26] Technician 1: Set UAS switches in 1B Processor Cabinets 0 and 1 to **UTIL INH** to eliminate the ability of 1B Processor to suspend if **SAM\_01** fires



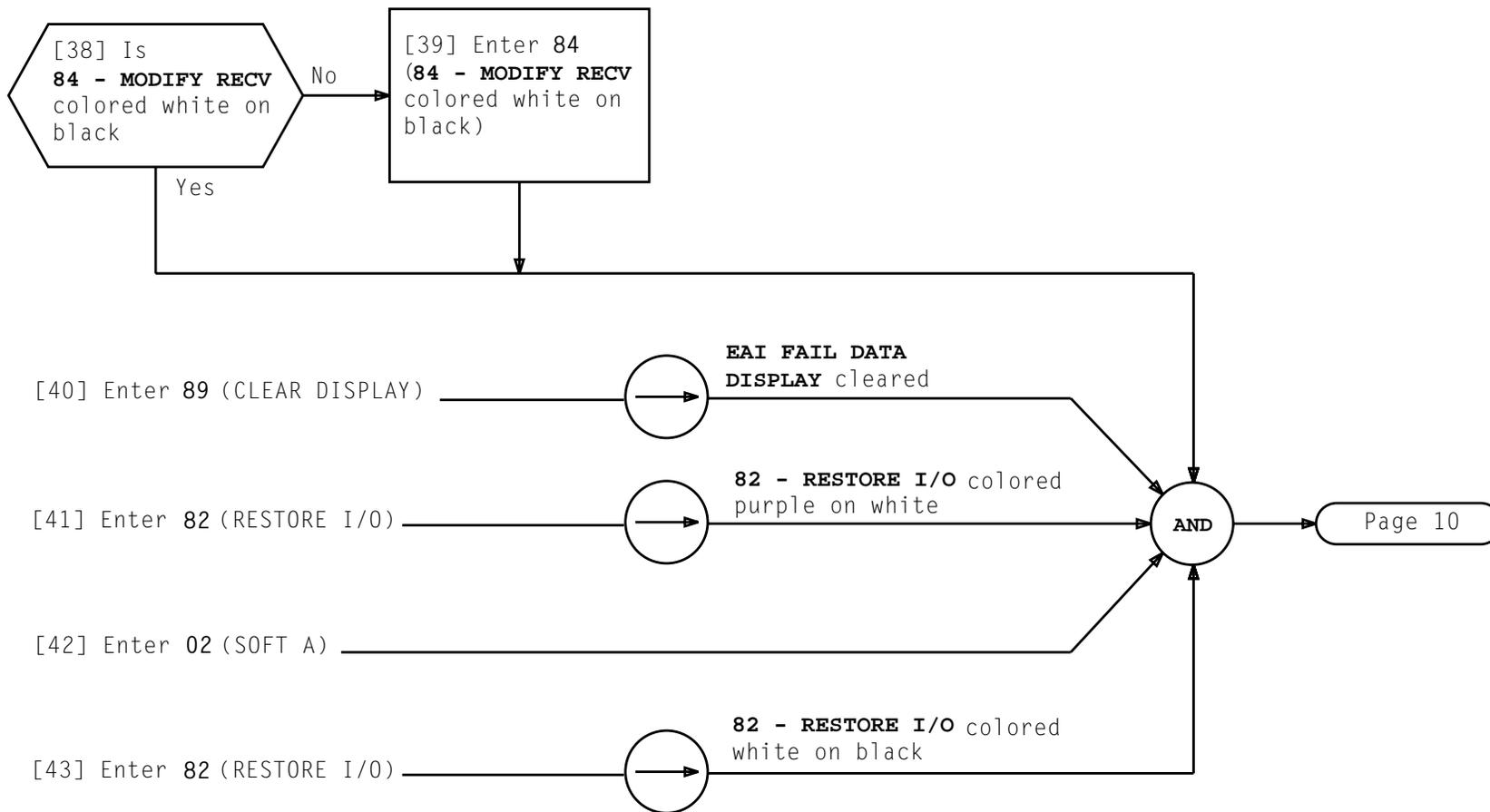
NOTE 4  
 When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit (bit 23) in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between 3 and 4. **53 - PHASE 3** colored black on purple. In lower right-hand corner **PHASE IN PROG** colored white on red. **PC PROGRESSION -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

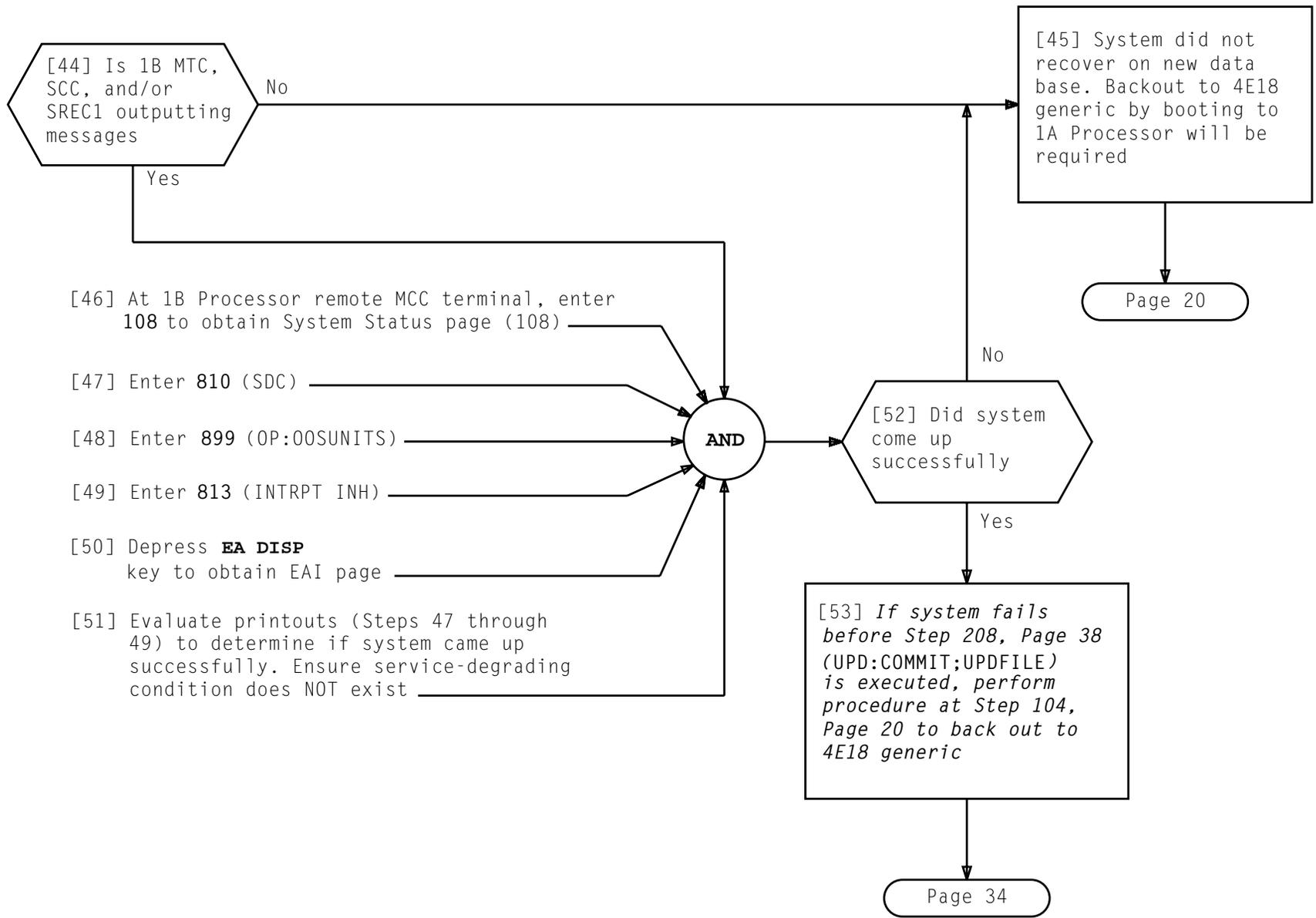
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NOTE 5 1A MTC terminal will now be 1B MTC terminal	
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[54] **THIS IS START OF BACKOUT PROCEDURE (1A PROCESSOR IS CURRENTLY OPERATING IN EDOS).**  
 Notify next higher technical support group that **AUO** Conversion Switch Unit will be switched back to 1A Processor bus access \_\_\_\_\_

[55] At API 0 power switch, rotate **ROS/OFF** switch to **ROS** position; then depress **ROS/OFF** switch. Ensure **PWR OFF** lamp is on \_\_\_\_\_

[56] At 1B Processor remote MCC terminal, enter 1990 to obtain Dead Start page (1990) \_\_\_\_\_

[57] Enter 613 (UAS INTF ALW) \_\_\_\_\_

UAS: INTERFERING  
colored white  
on red

[58] Enter 701 (SUSPEND) to stop 1B Processor \_\_\_\_\_

701 - SUSPEND colored  
white on red

[59] At 3B MCRT, enter message **OP:APPLOAD NORM!** \_\_\_\_\_

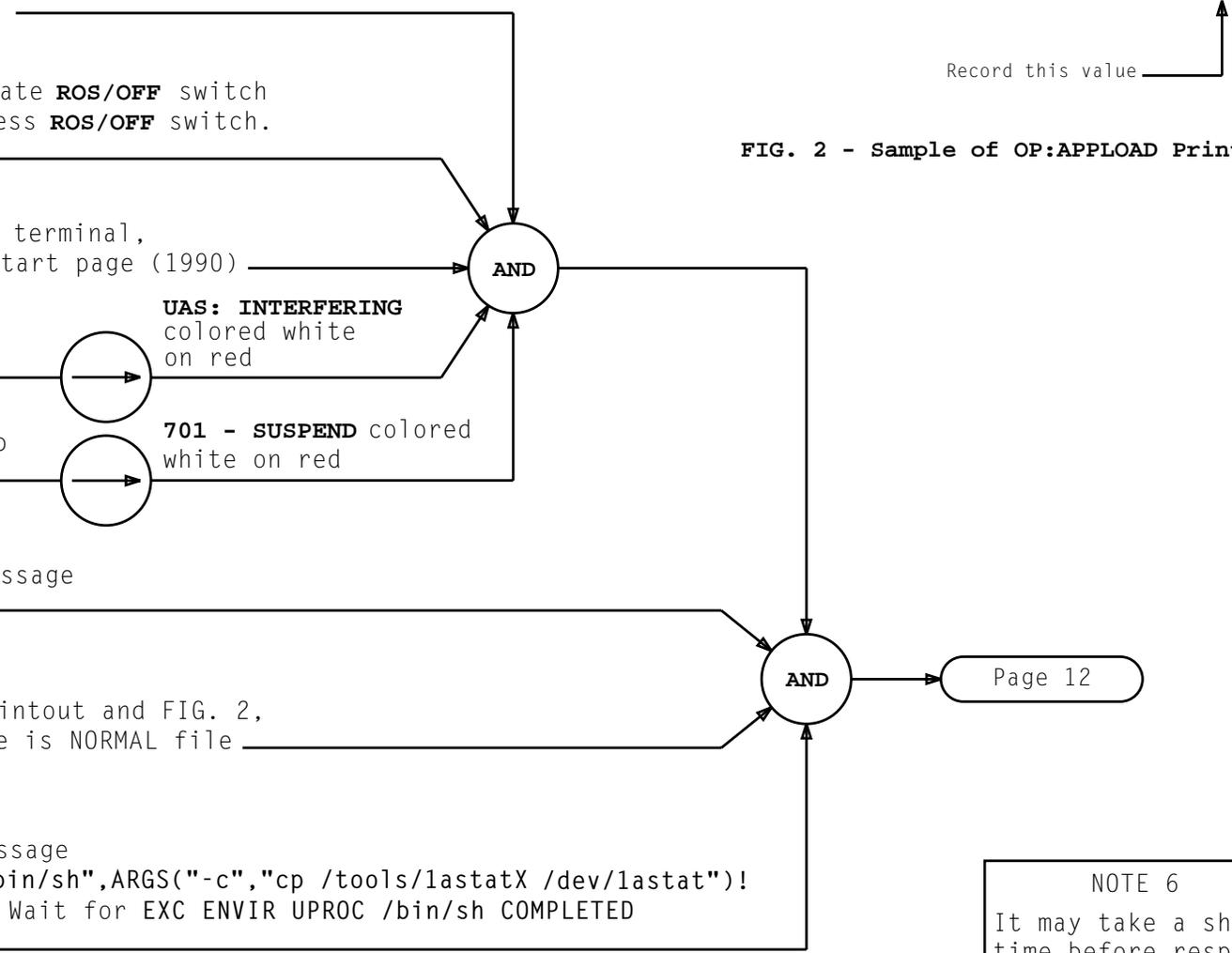
[60] See NOTE 6. Using printout and FIG. 2, determine what lafile is NORMAL file \_\_\_\_\_

[61] At 3B MCRT, enter message **EXC:ENVIR:UPROC, FN"/bin/sh", ARGS("-c", "cp /tools/lastatX /dev/lastat")!**  
 X = recorded lafile. Wait for **EXC ENVIR UPROC /bin/sh COMPLETED** message \_\_\_\_\_

4ESS DATA BASE LOADED IN /dev/lafileX

Record this value \_\_\_\_\_

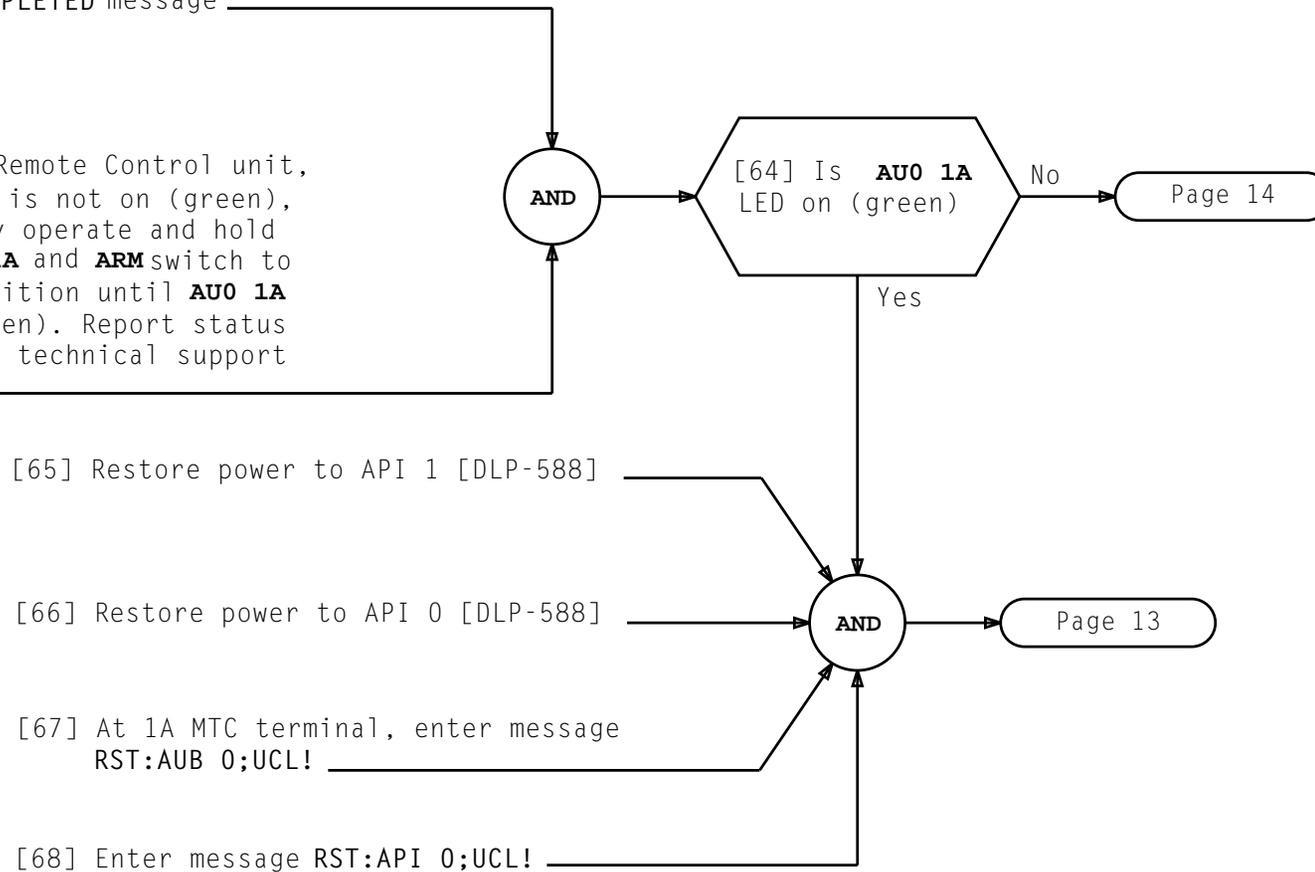
**FIG. 2 - Sample of OP:APPLOAD Printout**

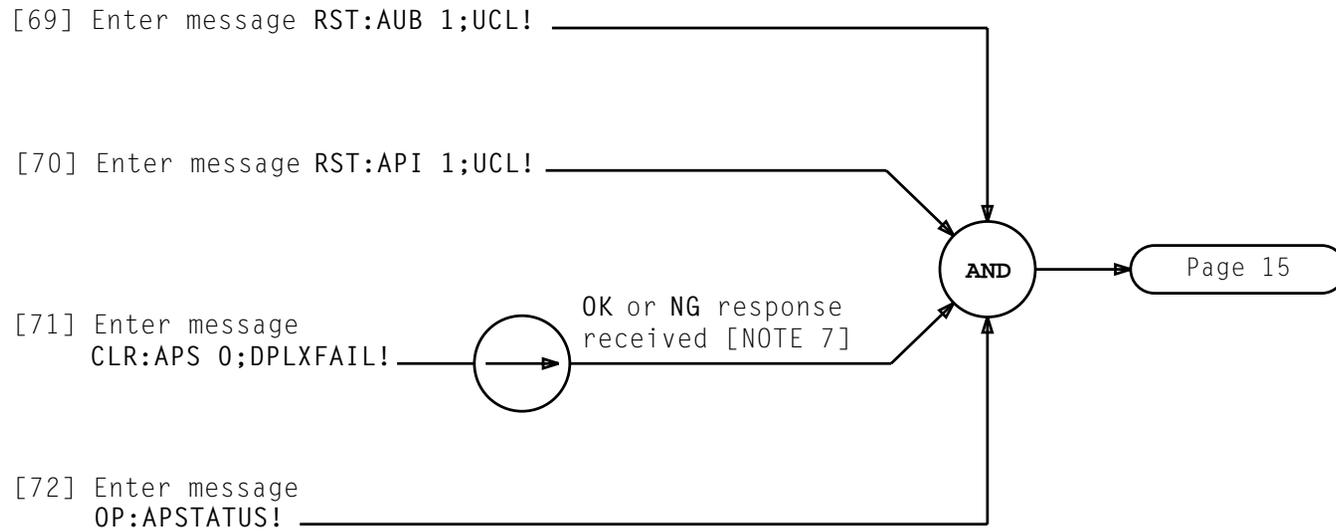


NOTE 6	
It may take a short time before response is received	
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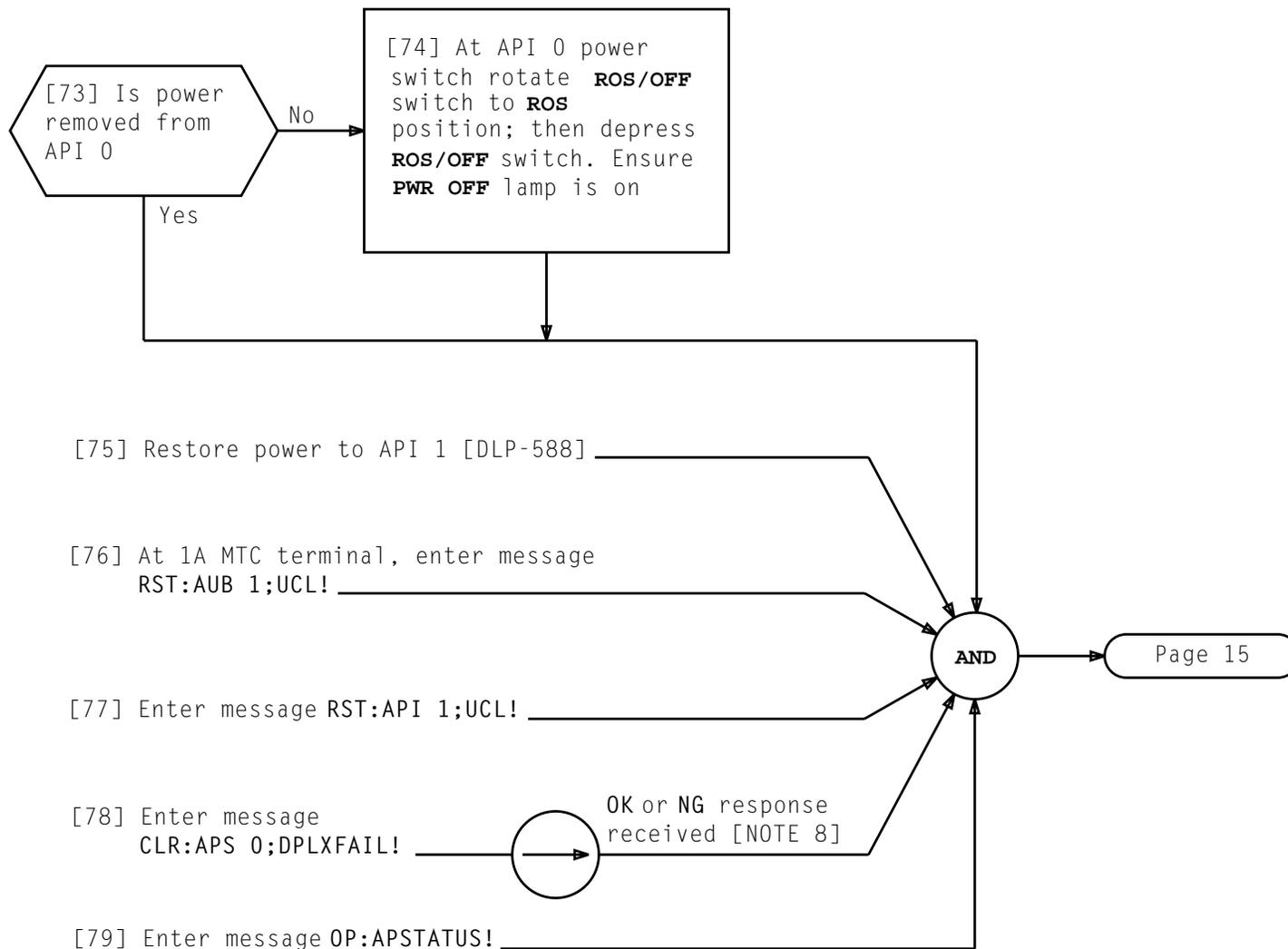
[62] At 3B MCRT, Enter message  
INIT:APDRV:FPI!. Wait for  
INIT APDRV COMPLETED message

[63] At Indicator/Remote Control unit,  
if **AUO 1A** LED is not on (green),  
simultaneously operate and hold  
**AUO** switch to **1A** and **ARM** switch to  
**INDIVIDUAL** position until **AUO 1A**  
LED is on (green). Report status  
to next higher technical support  
group

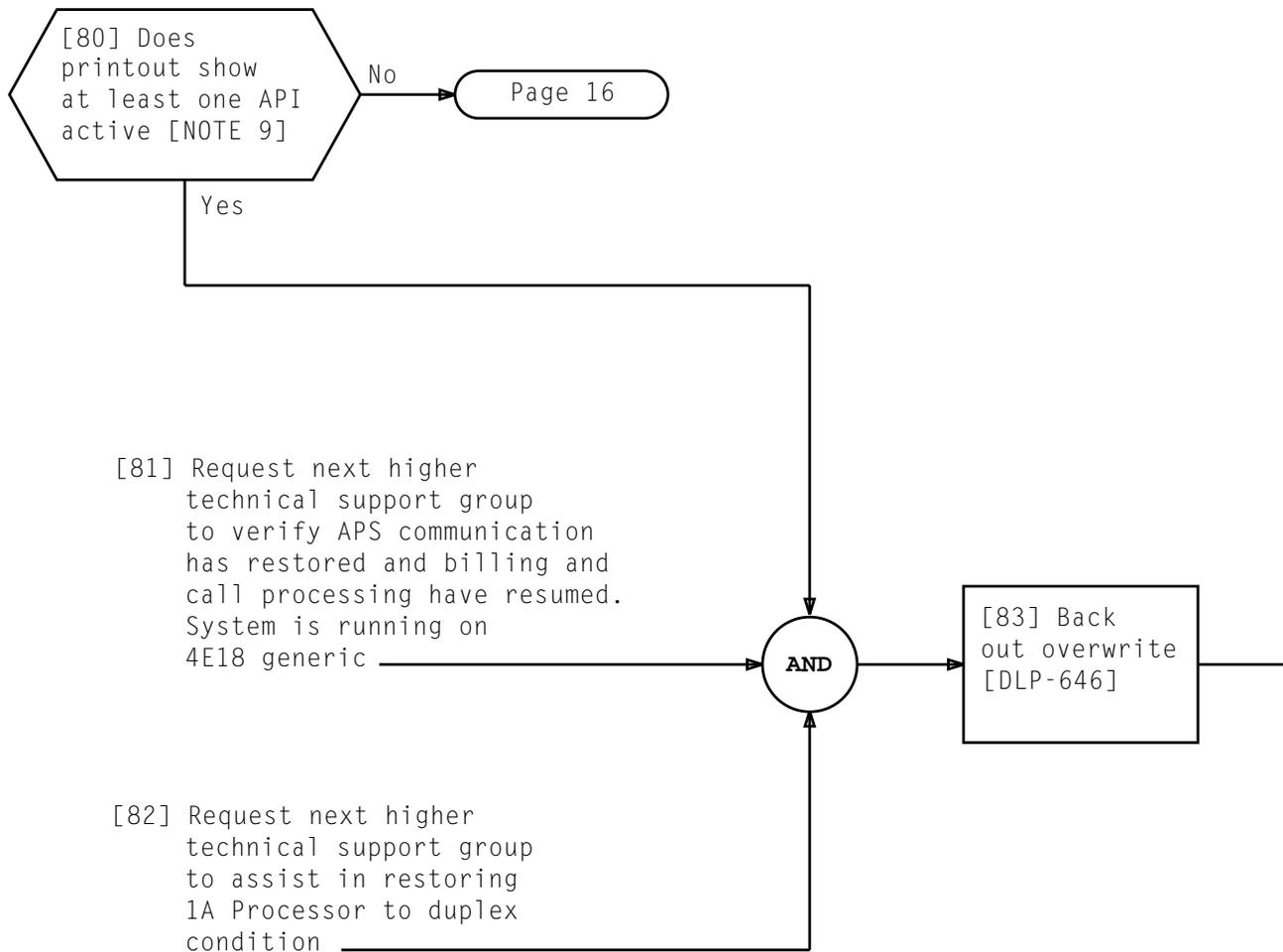




NOTE 7	
NG response will be received if lafiles are not duplex failed	
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NOTE 8	
NG response will be received if lafiles are not duplex failed	
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NOTE 9	
It will take a short time before response is received	
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[84] At 3B MCRT, enter message  
INIT:APDRV:FPI!. Wait for  
INIT APDRV COMPLETED  
message

[85] At 1A MTC terminal, enter message  
RST:API 0;UCL!

[86] At 1A MTC terminal, enter message  
RST:API 1;UCL!

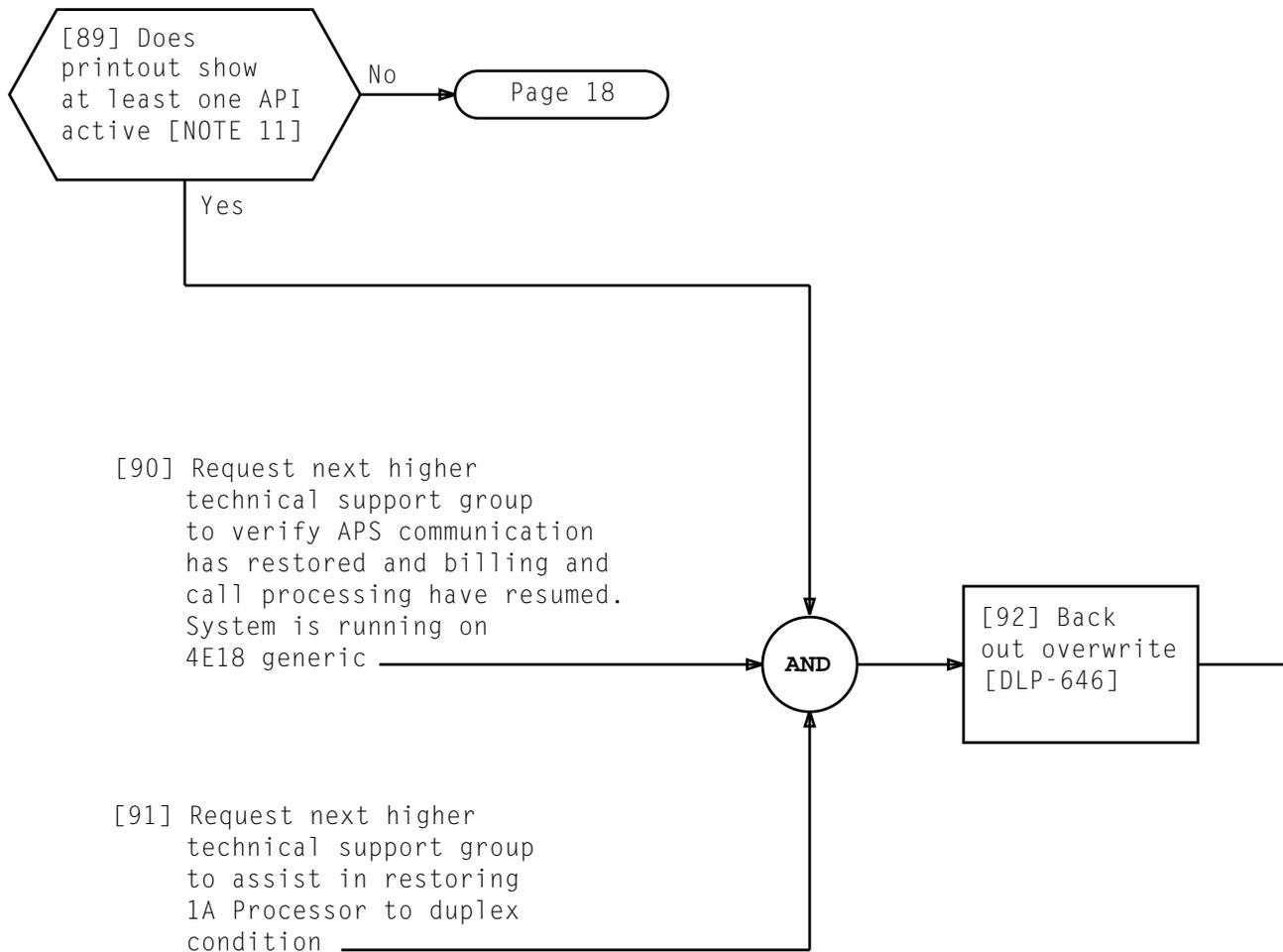
[87] Enter message  
CLR:APS 0;DPLXFAIL! → (circle) → OK or NG response  
received [NOTE 10]

[88] Enter message  
OP:APSTATUS!

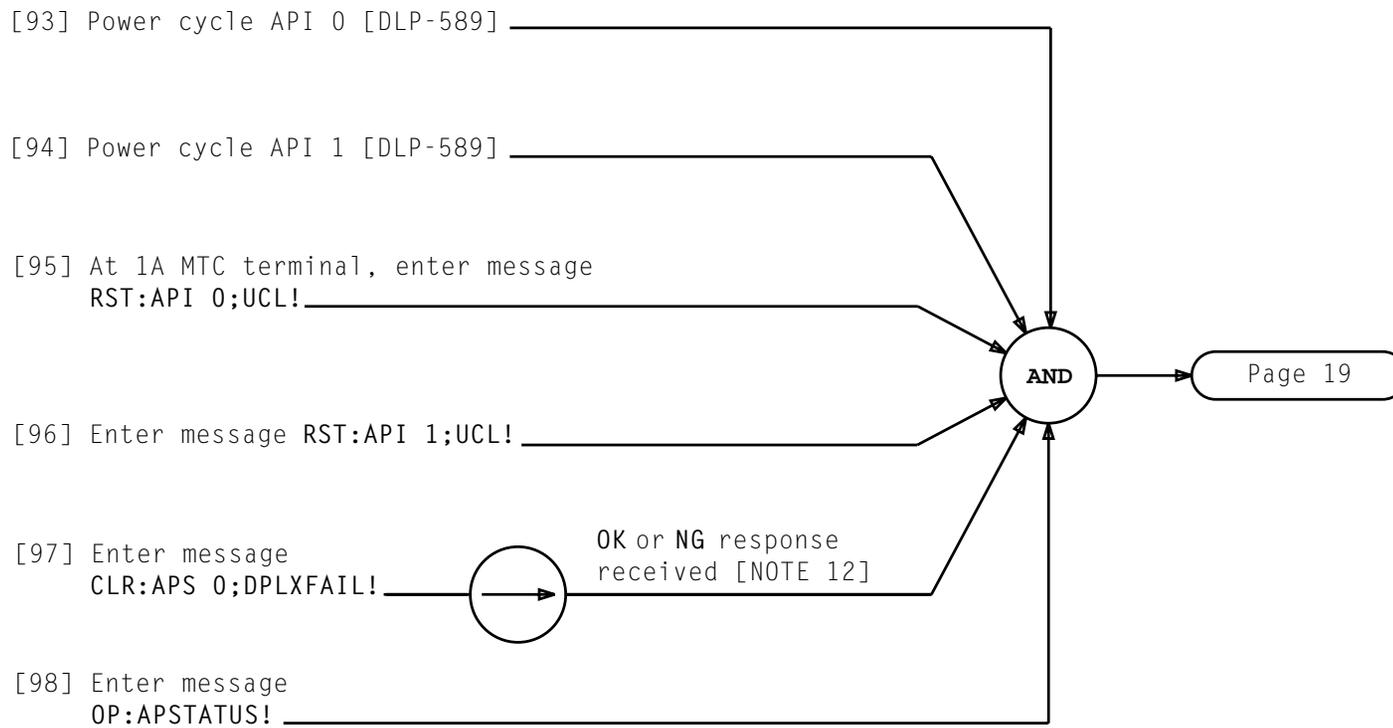


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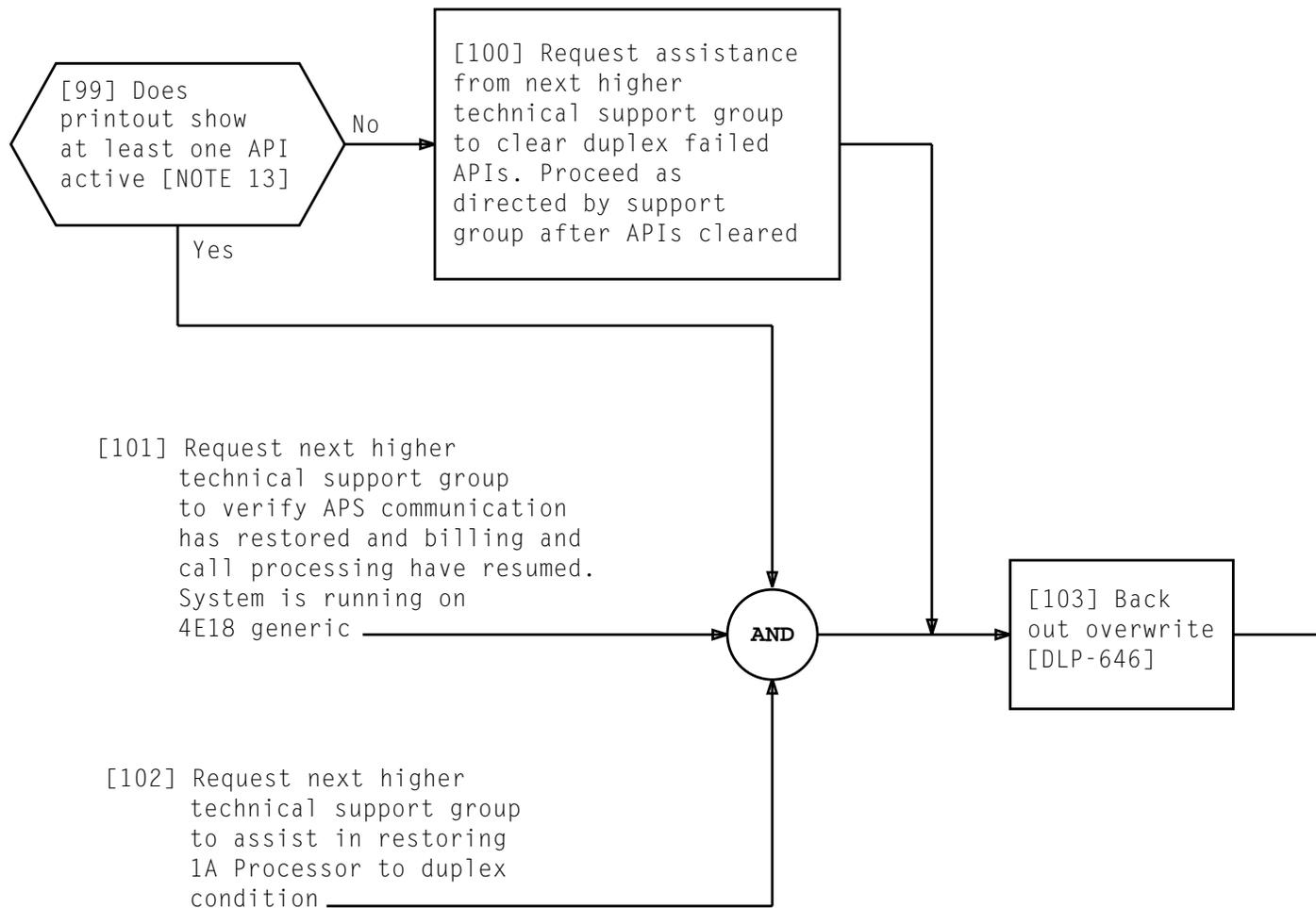
NOTE 10	
It will take a short time before response is received	
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NOTE 11	
It will take a short time before response is received	
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NOTE 12	
NG response will be received if 1afiles are not duplex failed	
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NOTE 13	
It will take a short time before response is received	
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[104] **BACK OUT PROCESSOR TO 1A (1A PROCESSOR IS CURRENTLY IN STAND-ALONE MODE WITH CONVERSION SWITCH UNITS SET TO 1B BUS ACCESS [RED]).**  
 Notify next higher technical support group that attempt to recover on 1A Processor will be made

[105] Technician 1: Allow utility-interfering actions [DLP-585]

[106] At 1B Processor remote MCC terminal, enter 1990 to obtain Dead Start page (1990); then enter 613 (UAS INTF ALW)

[107] Enter 701 (SUSPEND)  **701 - SUSPEND** colored white on red

[108] Technician 2: Perform Steps 109 through 114, Page 21. Ensure power is restored to API 1, and power switch is in normal position

[109] At 1A Processor MCC **UPDATE** panel, depress **NORMAL** key  Lamp lights

[110] At 1A Processor MCC **OVERRIDE CONTROL** panel, depress **BLOCK 0 PS 0, AU BUS 0, PS BUS 0, and CC 0** keys  Lamps light

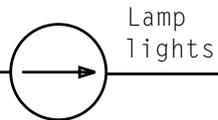
[111] At 1A Processor MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, if **DISABLE AUTO PC** lamp is not on, depress **DISABLE AUTO PC** key  Lamp lights

AND

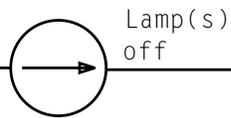
AND

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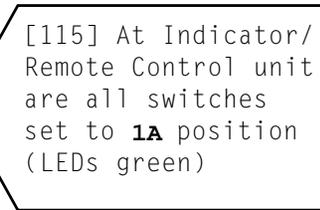
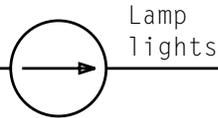
[112] At 1A Processor MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, if **MODIFY RECOVERY ACTIONS** key is not on, depress **MODIFY RECOVERY ACTIONS** key



[113] Depress each **DIRECT DATA INSERT** key that is on



[114] Depress **DIRECT DATA INSERT - 16** key



Yes

Page 22,  
Step 121

No

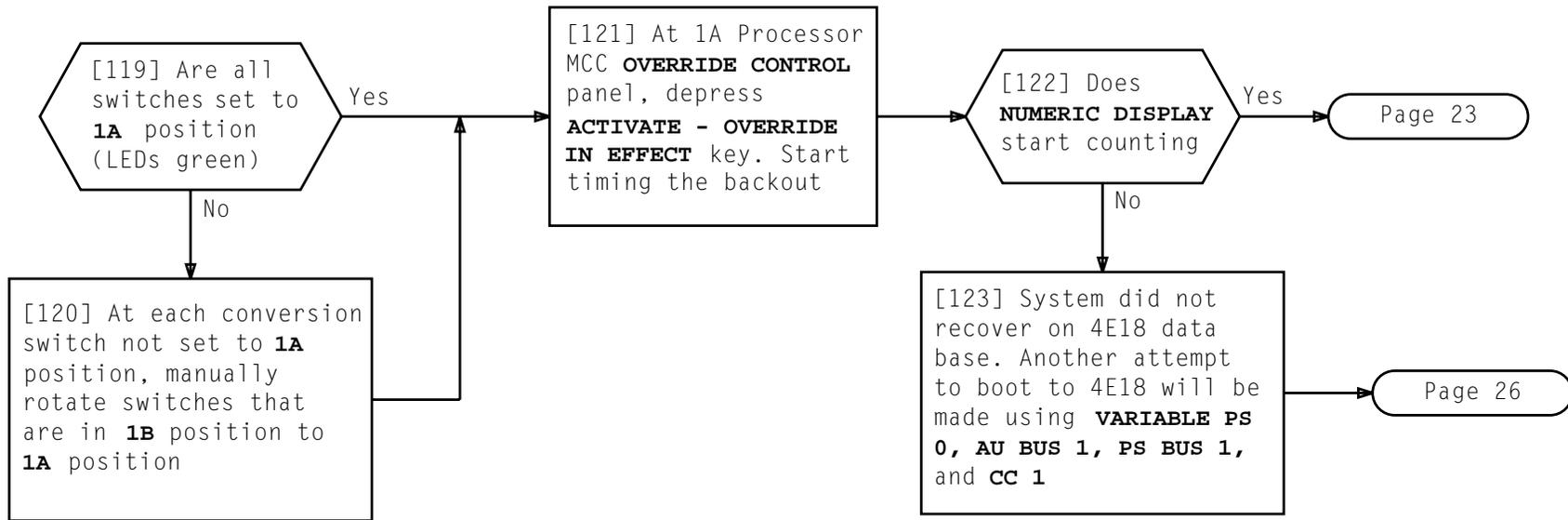
[116] At Indicator/Remote Control unit, operate **ALL-1B** key to **OFF** position

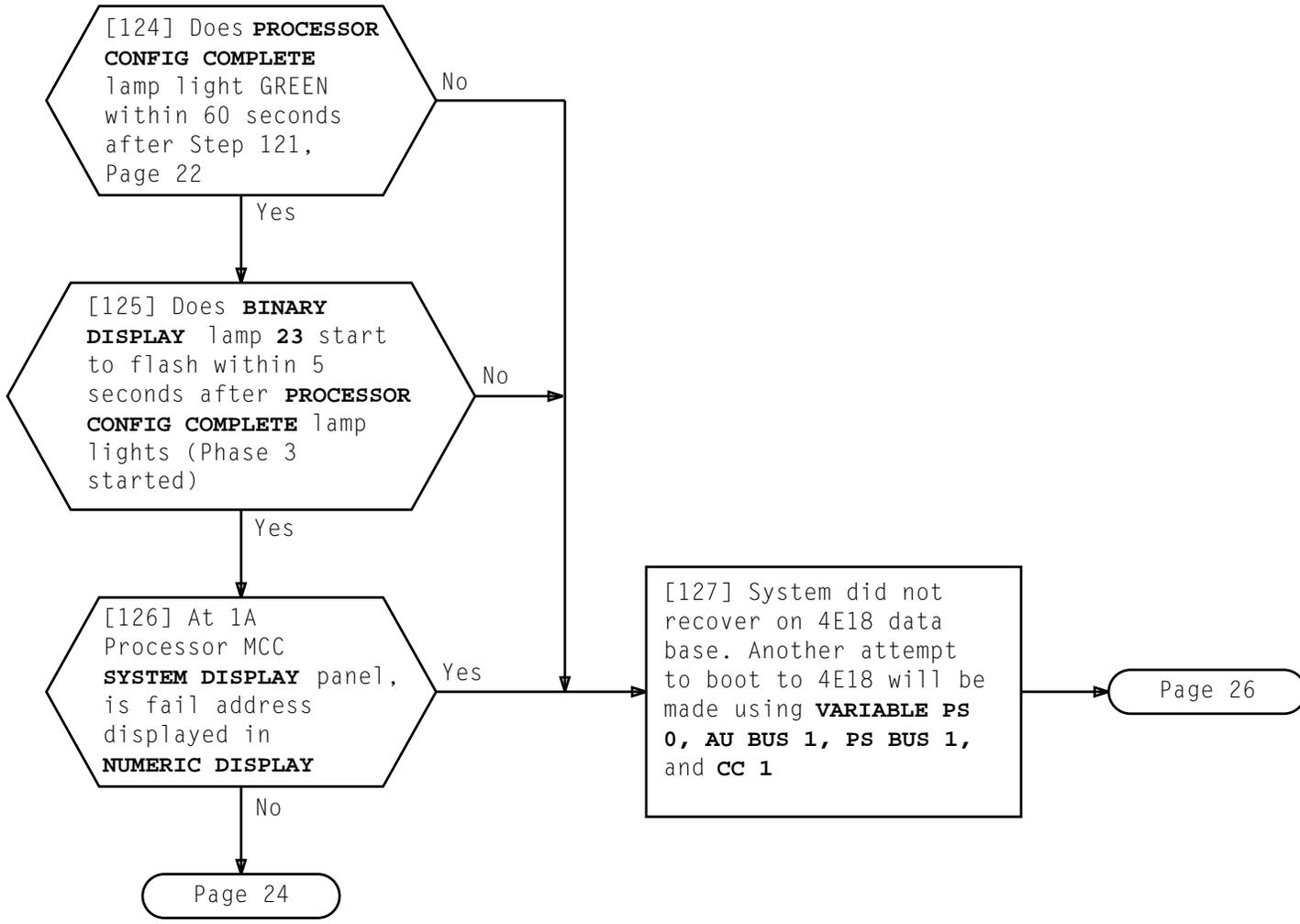
[117] Operate **ALL-1A** key to **ON** position

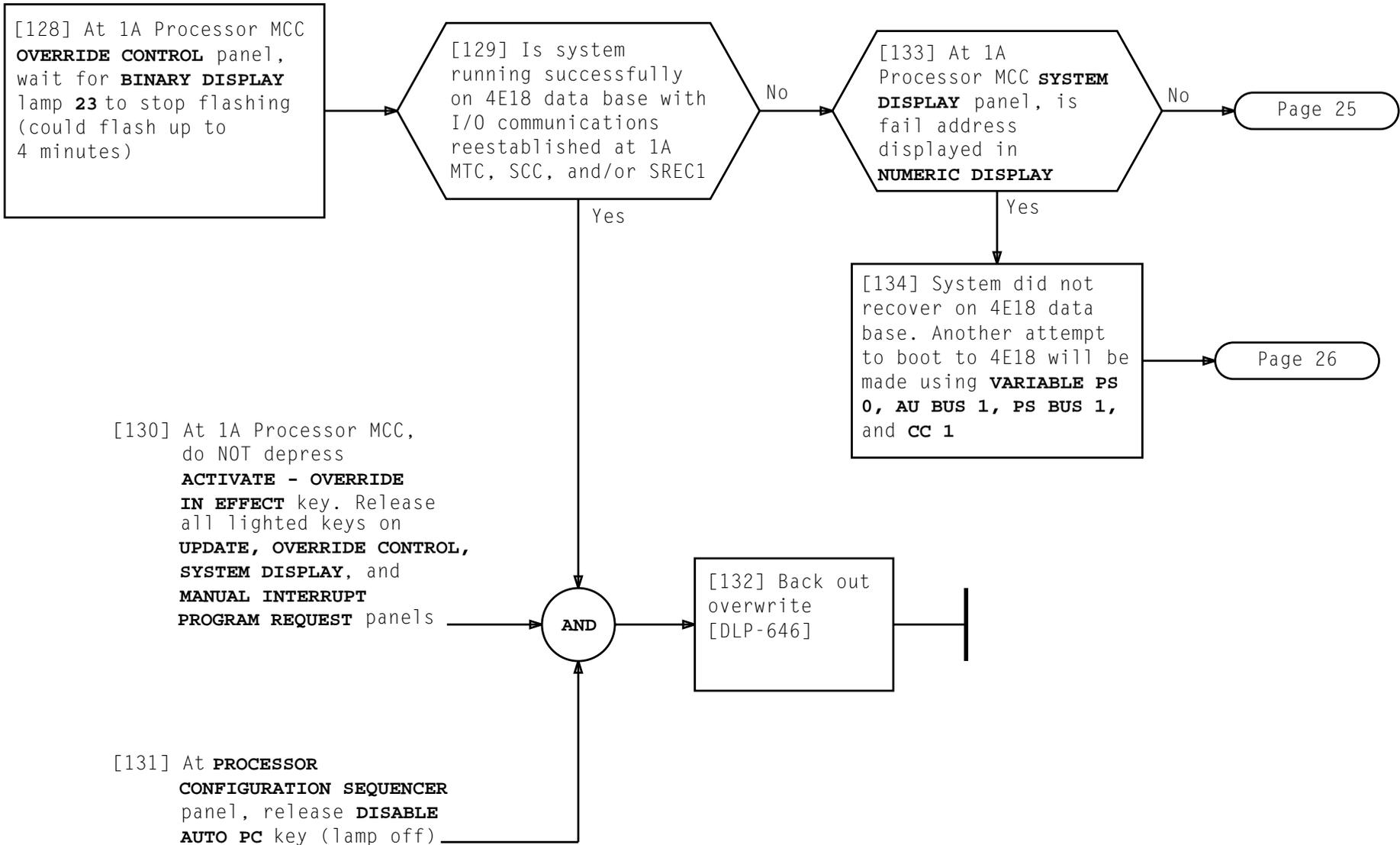
[118] Operate **ARM** switch down to **ALL** position



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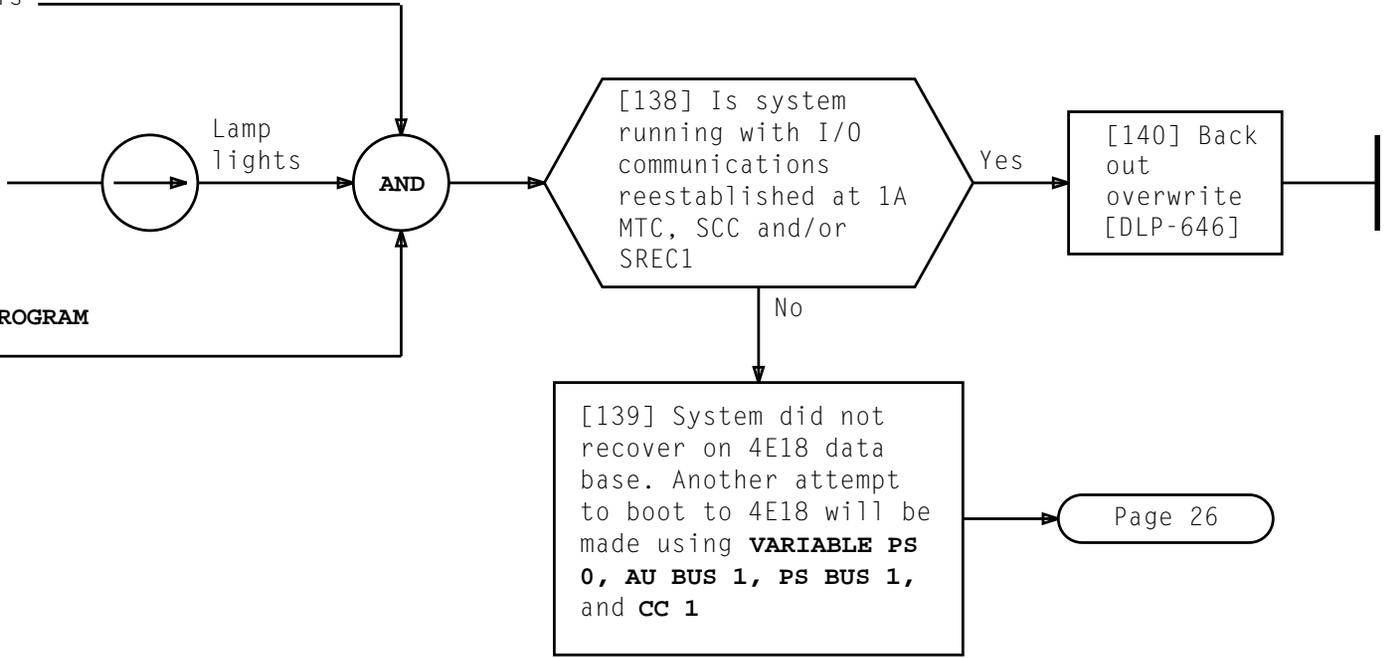




[135] At 1A Processor MCC,  
do NOT depress  
**ACTIVATE - OVERRIDE**  
**IN EFFECT** key.  
Release all lighted  
keys on **UPDATE, OVERRIDE**  
**CONTROL, SYSTEM DISPLAY,**  
and **MANUAL INTERRUPT**  
**PROGRAM REQUEST** panels

[136] At **MANUAL INTERRUPT**  
**PROGRAM REQUEST**  
panel, depress  
**RESTORE MTC I/O** key

[137] Depress **ACTIVATE - PROGRAM**  
**REQUEST** key



[141] At 1A Processor MCC  
**MANUAL INTERRUPT**  
**PROGRAM REQUEST** panel,  
 if **RESTORE MTCE I/O**  
 lamp is on, depress  
 to off (lamp off)

[142] If **MODIFY RECOVERY ACTIONS**  
 lamp is not on, depress to  
 on (lamp on)

[143] At 1A Processor MCC **OVERRIDE**  
**CONTROL** panel, depress any  
 lighted keys (lamps off)

[144] Depress **VARIABLE PS 0,**  
**AU BUS 1, PS BUS 1,** and  
**CC1** keys (lamps on)

[145] At 1A Processor MCC  
**OVERRIDE CONTROL** panel,  
 depress **ACTIVATE -**  
**OVERRIDE IN EFFECT**  
 key. Start timing  
 the backout

AND

[146] Does  
**NUMERIC DISPLAY**  
 start counting

No

Yes

[147] Does **PROCESSOR**  
**CONFIG COMPLETE**  
 lamp light **GREEN**  
 within 60 seconds  
 after Step 145

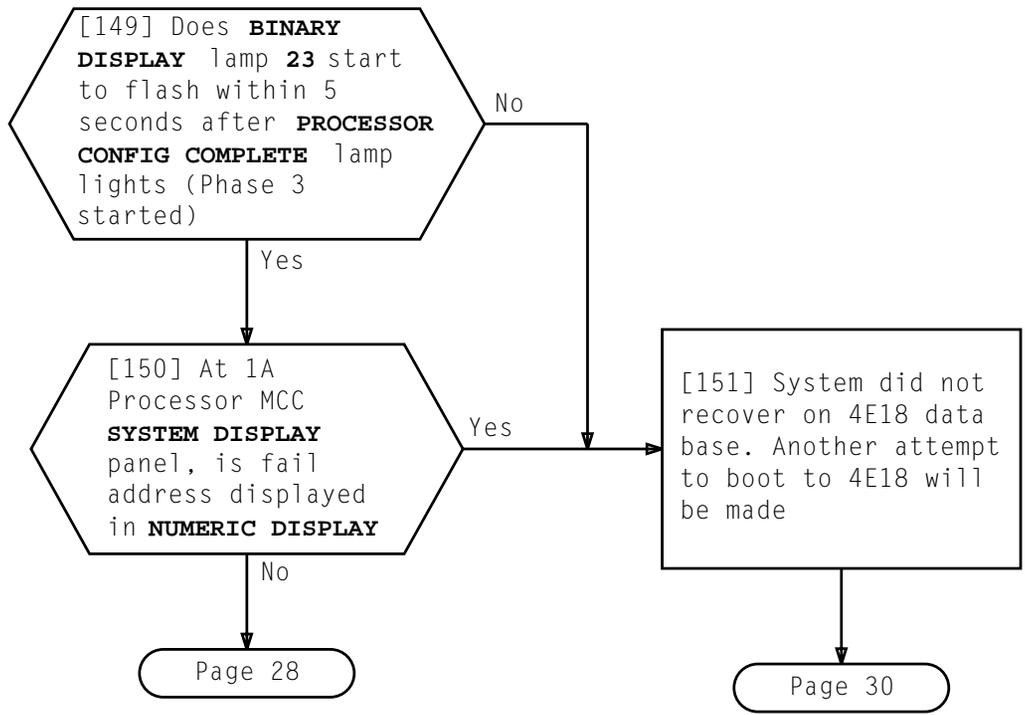
No

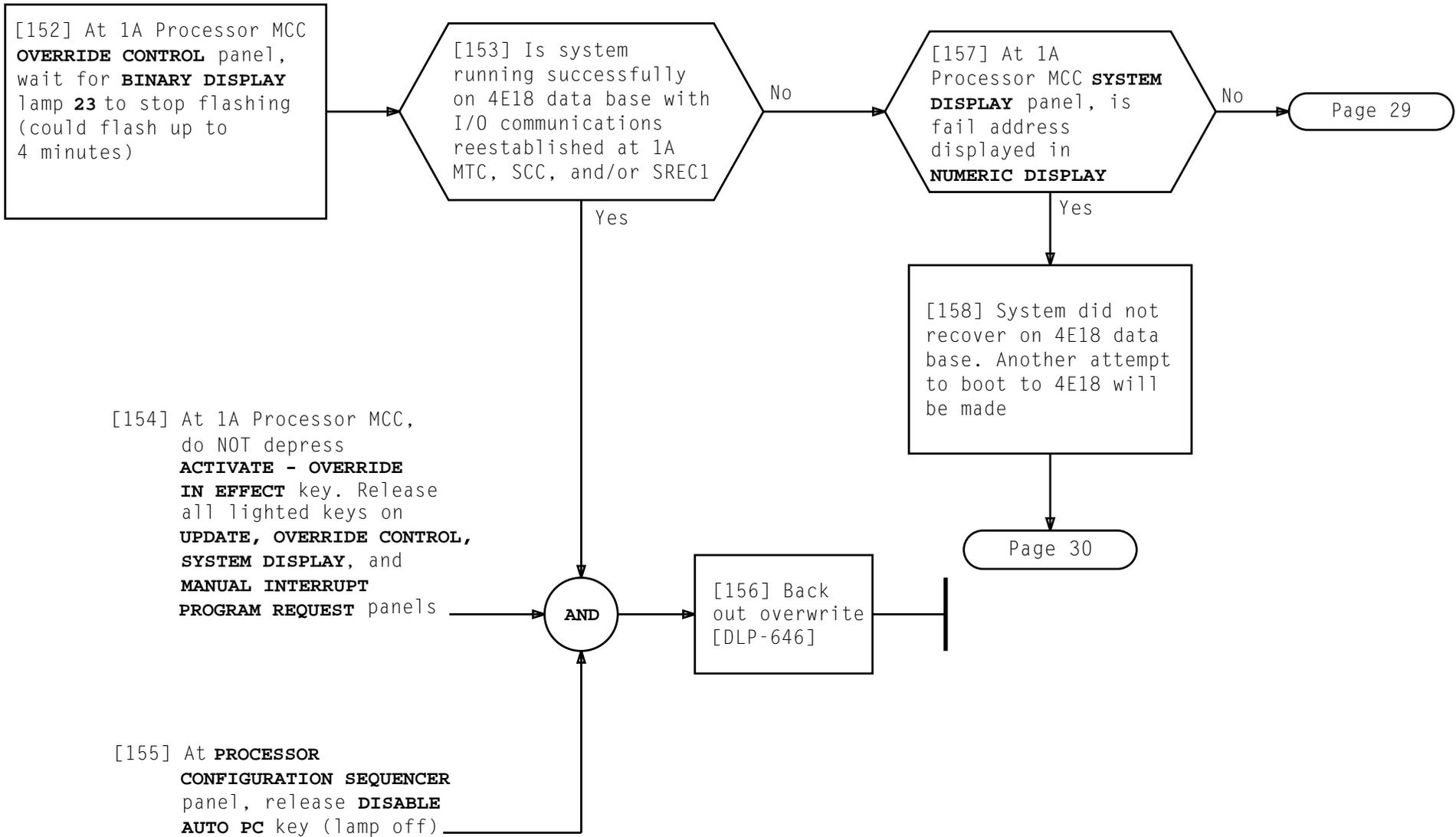
Yes

[148] System did not  
 recover on 4E18 data  
 base. Another attempt  
 to boot to 4E18 will  
 be made

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Page 30

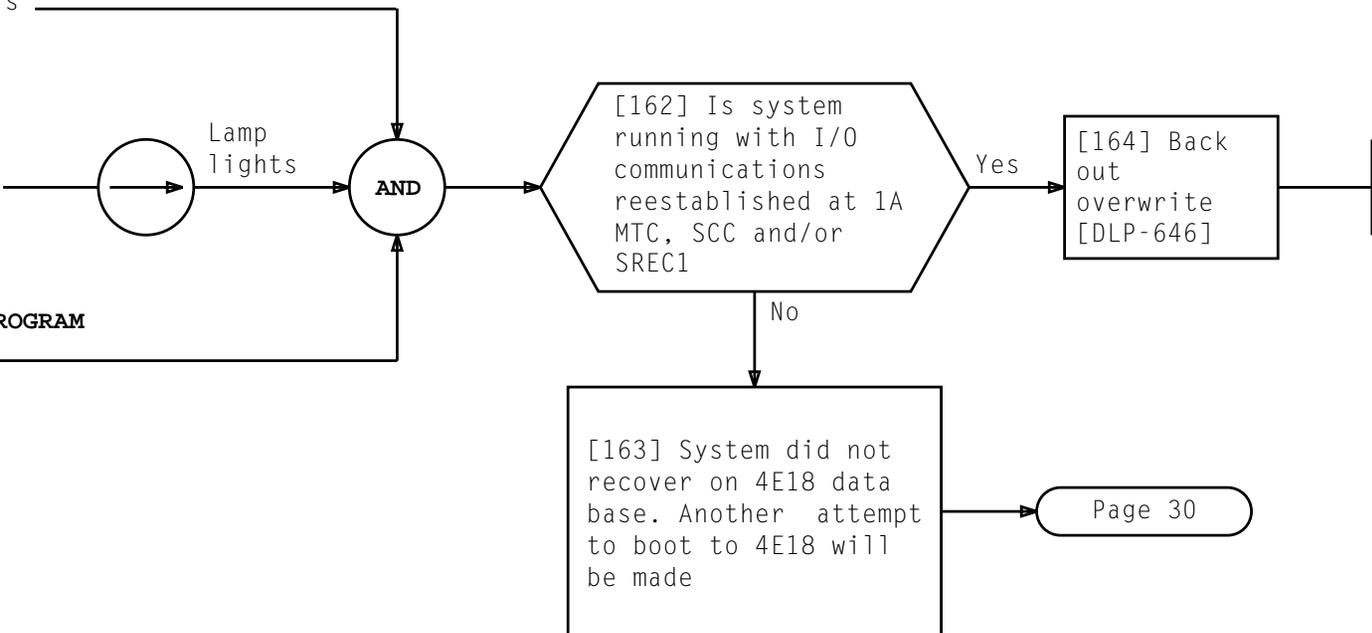




[159] At 1A Processor MCC,  
do NOT depress  
**ACTIVATE - OVERRIDE  
IN EFFECT** key.  
Release all lighted  
keys on **UPDATE, OVERRIDE  
CONTROL, SYSTEM DISPLAY,**  
and **MANUAL INTERRUPT  
PROGRAM REQUEST** panels

[160] At **MANUAL INTERRUPT  
PROGRAM REQUEST**  
panel, depress  
**RESTORE MTCE I/O** key

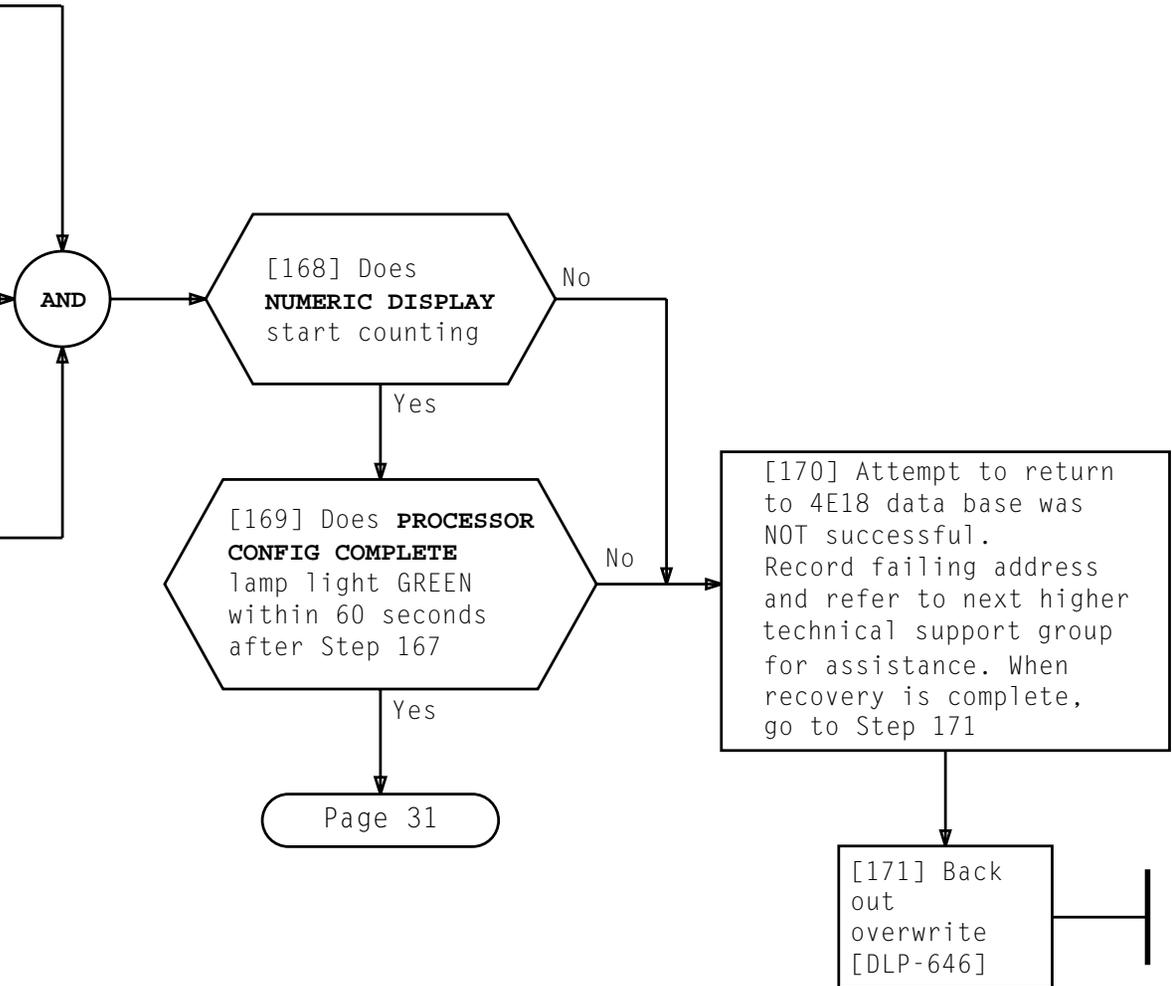
[161] Depress **ACTIVATE - PROGRAM  
REQUEST** key



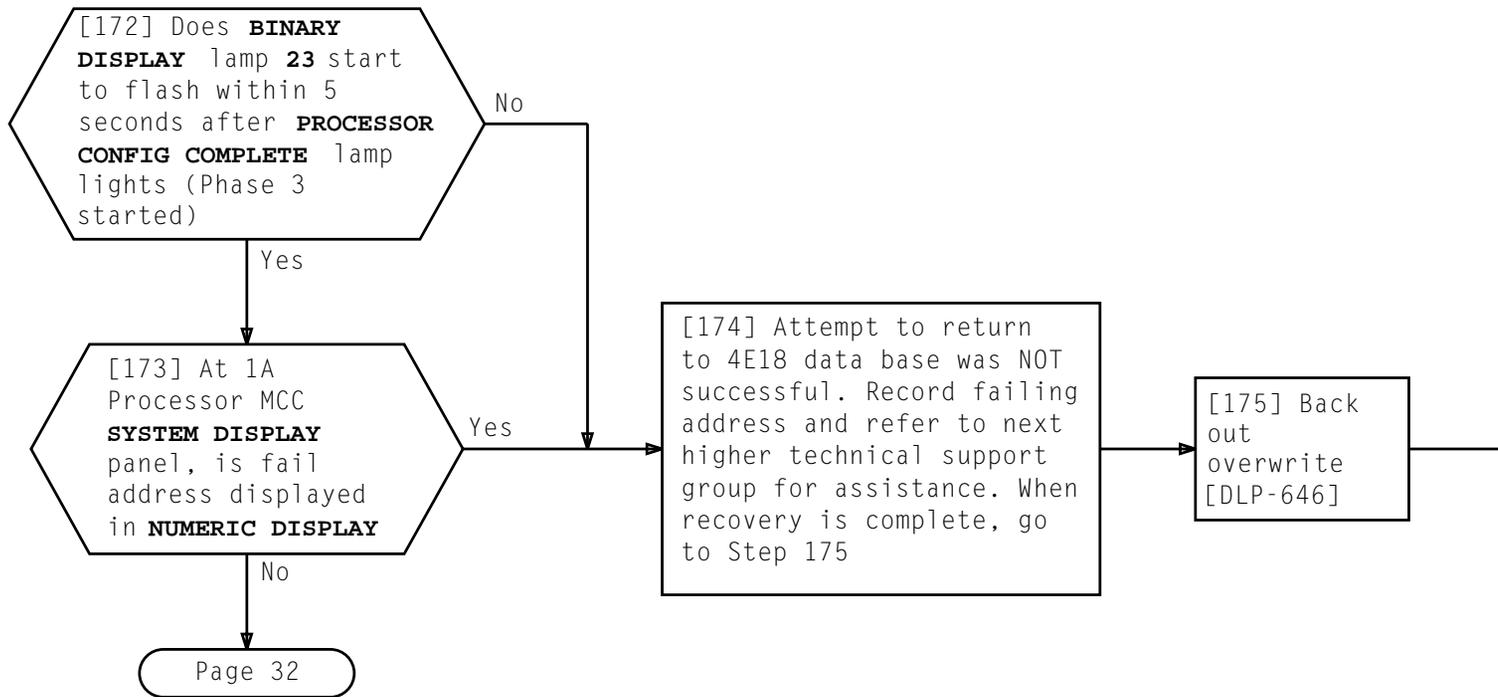
[165] At 1A Processor MCC, do NOT depress **ACTIVATE - OVERRIDE IN EFFECT** key.  
At 1A Processor MCC **OVERRIDE CONTROL** panel, depress any lighted keys (lamps off)

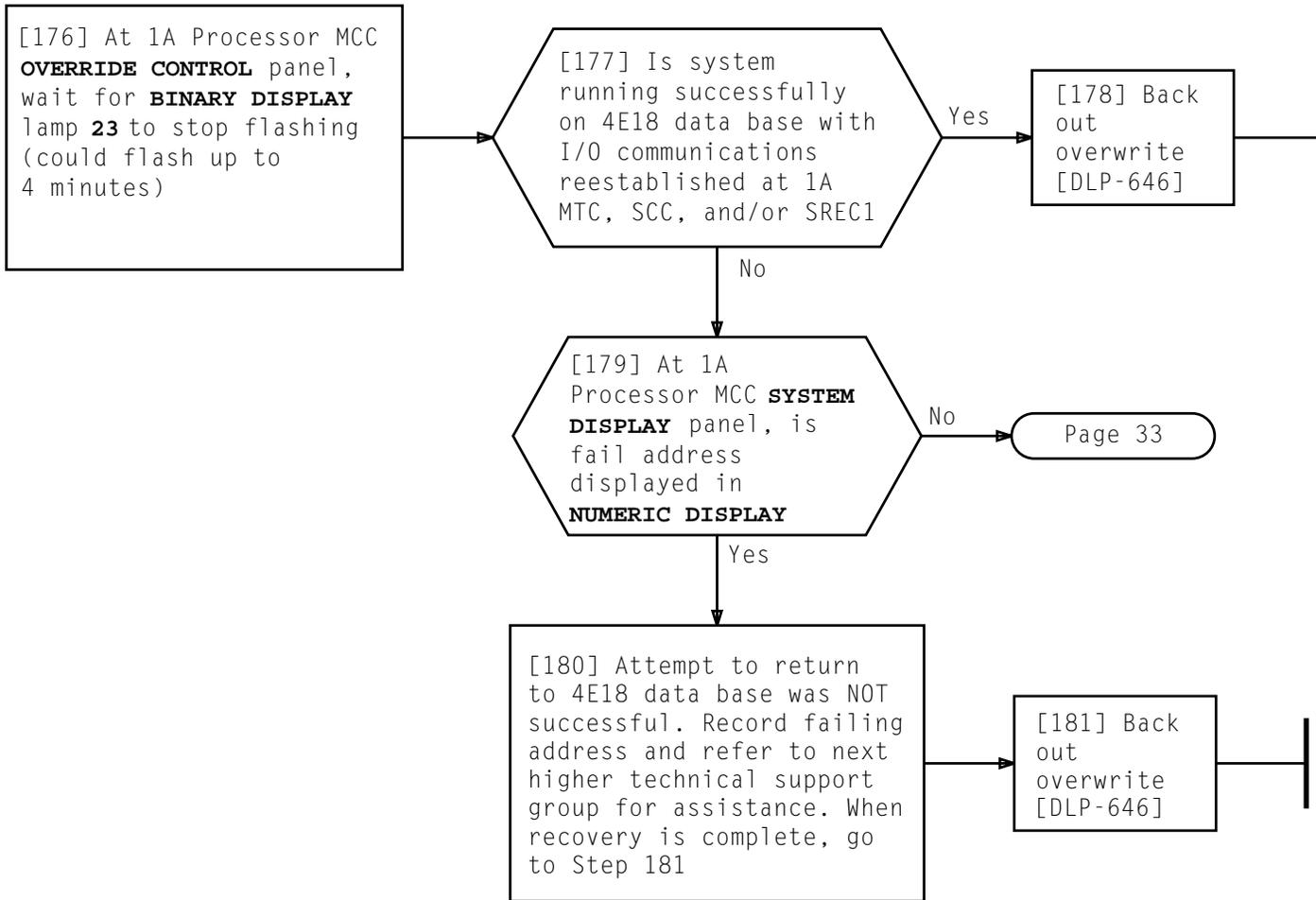
[166] At 1A Processor MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, depress **DISABLE AUTO PC** key (lamp off). PC STATE COUNTERS progress through pump states until good configuration is found

[167] Wait for either **NUMERIC DISPLAY** to start counting or **REPEATED PC** lamp comes on. Start timing the backout

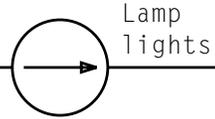


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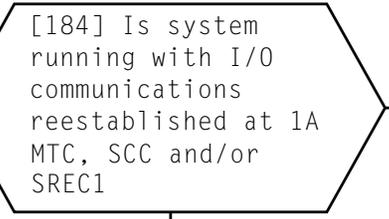




[182] At **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **RESTORE MTC I/O** key

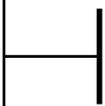
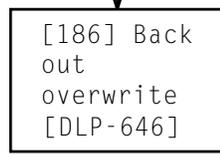
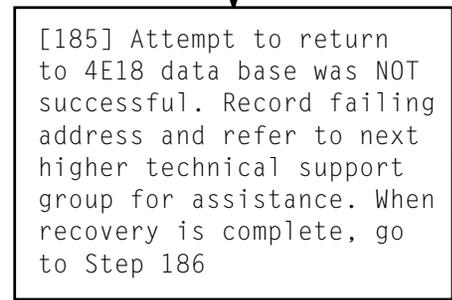


[183] Depress **ACTIVATE - PROGRAM REQUEST** key



Yes

No



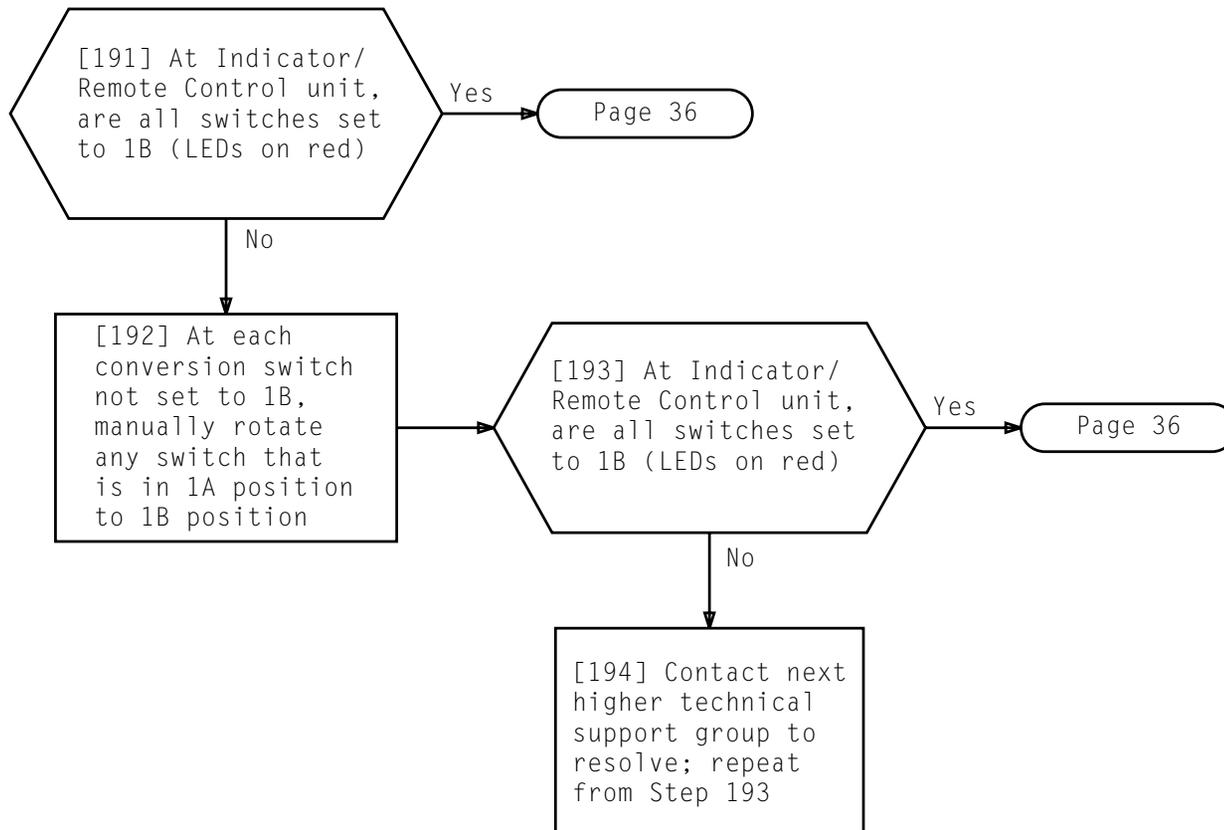
[187] **SYSTEM IS RUNNING ON  
4E19 GENERIC WITH 1B PROCESSOR.  
1B MCC CLEANUP WILL PROCEED**

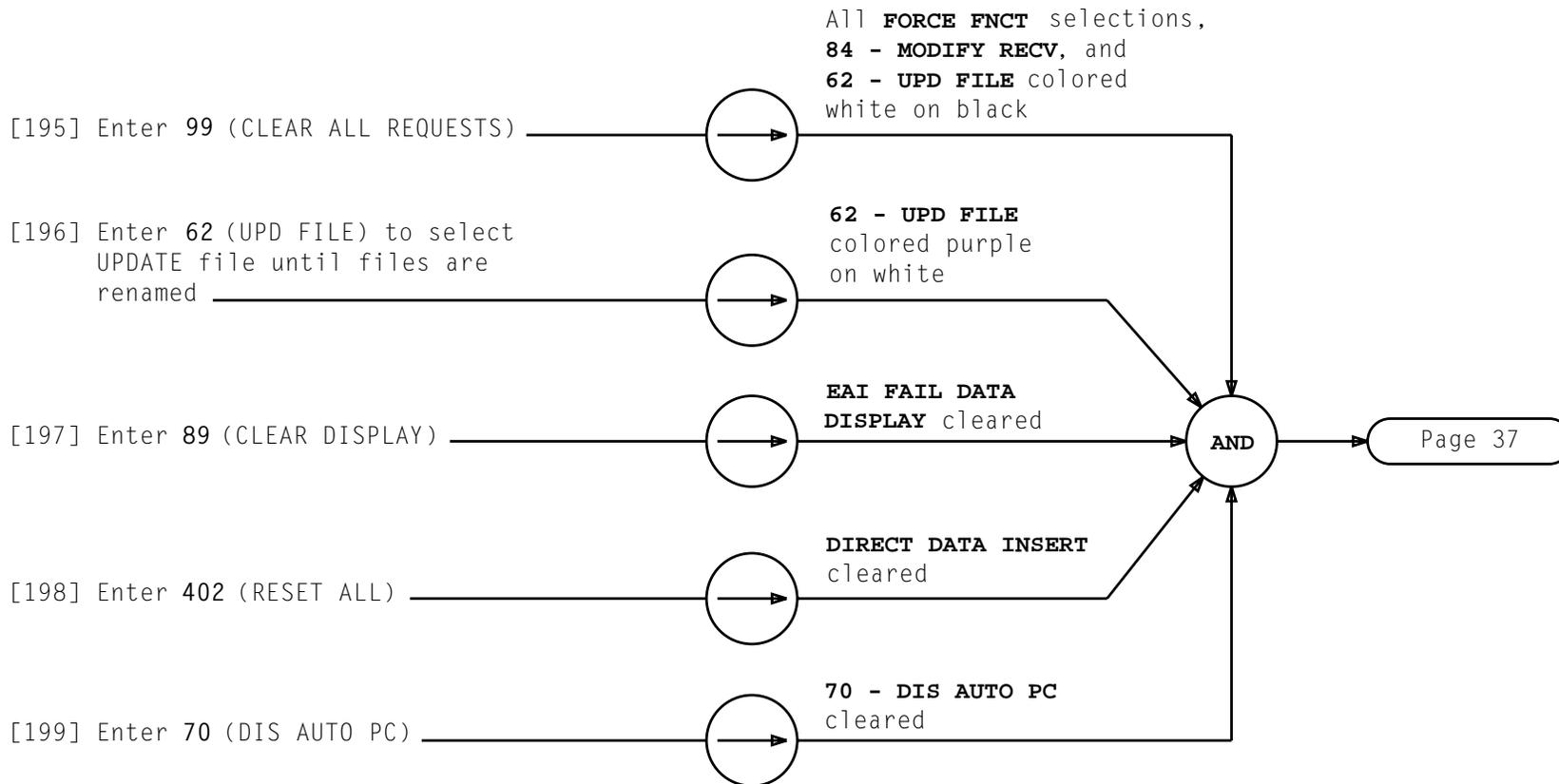
[188] At 1B Processor remote MCC terminal, enter 1x where x is selected CC (0 or 1) [All **FORCE FNCT** selections (except CC x), colored purple on white. CC x colored white on black]

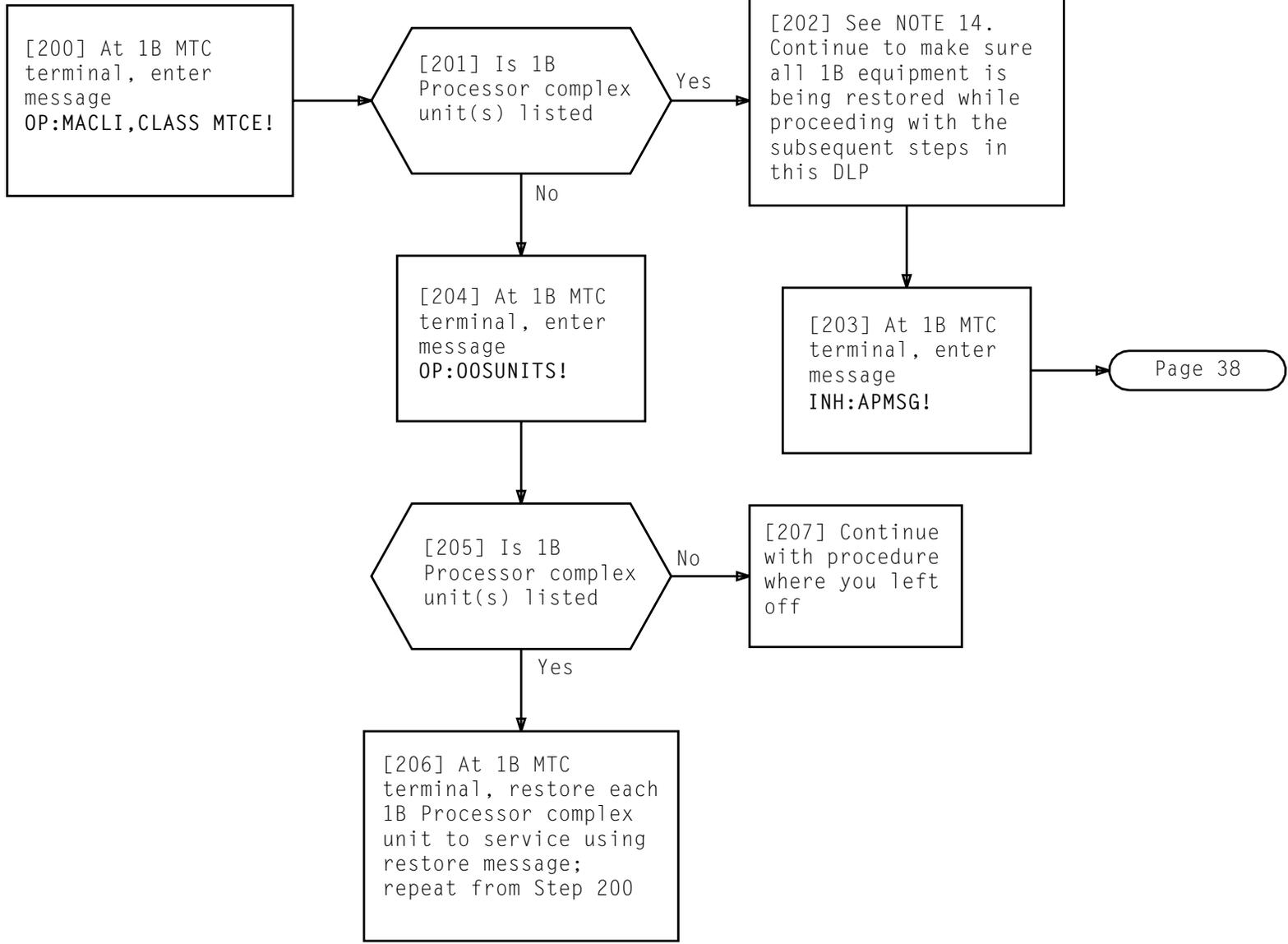
[189] Technician 1: Power up API 1 [DLP-588]

[190] Technician 1: Power cycle DUS 1 [DLP-589]. Technician 1 may be released after this step is completed









NOTE 14  
It is important to get 1B Processor units restored to service as soon as possible while the remainder of the retrofit procedure is being continued

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[208] On workstation where matchers were set up, in UCD window, enter /lab/bin/msave and then continue

[209] At 1B MTC terminal, enter message UPD:COMMIT;UPDFILE! to rename UPDATE file to NORMAL file [NOTE 15]; ensure UPD:COMMIT COMPLETED TO UPDFILE message received. Contact next higher technical support group if not received (62 - UPD FILE will be released in Step 212)

[210] *If backout is required after this point, perform NTP-009* [NOTE 16]

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

[212] Enter 62 (UPD FILE) (62 - UPD FILE colored white on black)

[213] Enter 106 to obtain MUP Status and Control Page (106)

[214] Enter 612 (UAS NON-INTF ALW)

In **UAS MODE** section, UAS: NON-INTERFERING is displayed

AND

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#### NOTES

- Step 208 is being performed to rename UPDATE file to NORMAL file and precedes the actual commitment to 1B Processor
- Commitment to 1B Processor takes place when the NORMAL file is written to the UPDATE file

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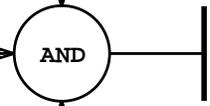
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[215] See NOTE 17. Enter 118 to obtain 1B Processor System Display page (118)

[216] At workstation where /lab/bin/msave command was entered, ensure (msave): Dump Completed message was received

[217] At 1A Processor MCC **SYSTEM DISPLAY** panel, depress **NUMERIC DISPLAY SELECTION - CONTENTS OF MEMORY** and/or **BINARY DISPLAY SELECTION - CONTENTS OF MEMORY** key(s) [lamp(s) on]. Report if 1A Processor did or did not go into stand-alone mode to next higher technical support group. This is for information only [NOTE 18]

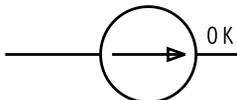


NOTES

- 17. 118 page is to be used to monitor system operation and must NOT be covered by any other screen
- 18. Counting in **NUMERIC DISPLAY** indicates 1A Processor is cycling. If counting, 1A Processor is in stand-alone mode. If not counting, 1A Processor is not in stand-alone mode. If **NUMERIC DISPLAY** does not count or stops counting later, do not attempt to restart

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[1] At MTC terminal, type, but do not send,  
 partially completed message  
 SET:CLK:DAY a,DATE b,TIME ccdd!  
 (Complete everything except minutes and seconds)  
 a = day (SUN, MON, TUE, etc.)  
 b = date (6-digit number - mmddyy)  
 cc = hour  
 dd = minute

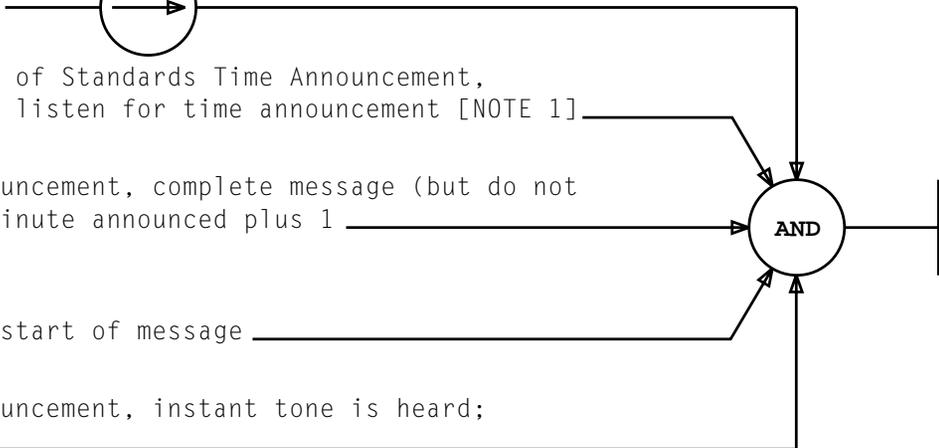


[2] Call U. S. Bureau of Standards Time Announcement,  
 303-499-7111, and listen for time announcement [NOTE 1]

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

[4] Return cursor to start of message

[5] At next time announcement, instant tone is heard;  
 depress **SEND** key



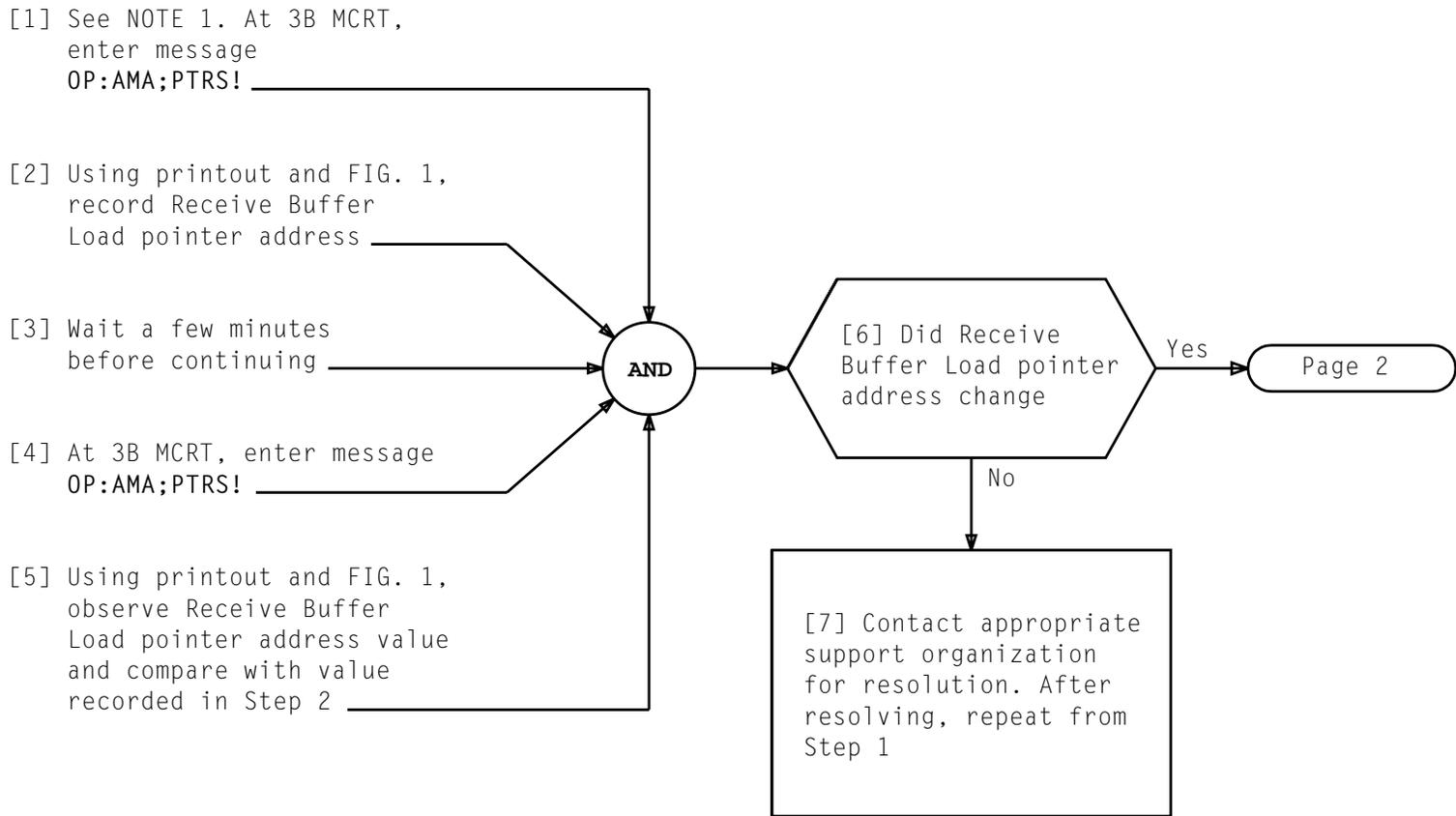
NOTE 1

Time announcements  
 are made every  
 minute on the minute.  
 Hours announced are  
 in Greenwich Mean  
 Time

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```

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

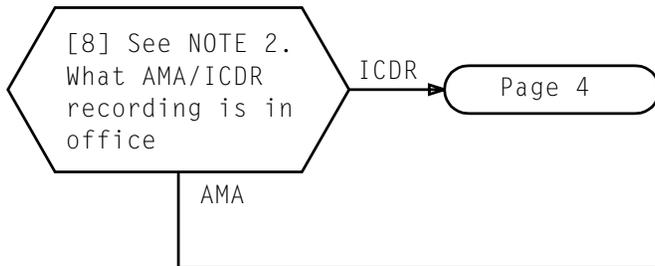
Record This Value

FIG. 1 - Sample Output Message

NOTE 1

OP: input message in Steps 1 and 4 must be entered during an 11-minute window starting 2 minutes past any quarter hour. Tracer records are sent on the quarter hour

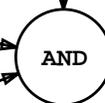
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[9] At 3B MCRT, enter message OP:AMA;MAPS! \_\_\_\_\_

[10] Using printout and TABLE A, determine partition number associated with WRITE PARTITION for each stream (IC/OC) being recorded \_\_\_\_\_

[11] Using printout and TABLE A, record LPO: value(s) under PARTITION DISK MAP: associated with partition(s) determined in Step 10 \_\_\_\_\_

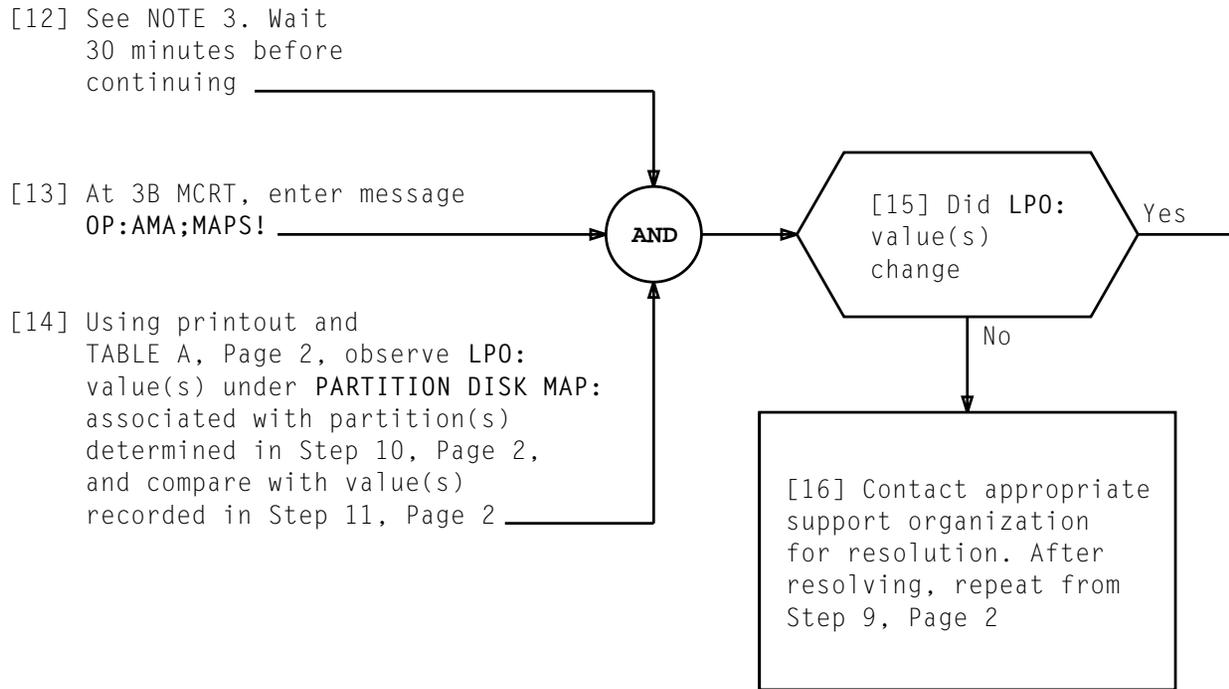


Page 3

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

NOTE 2 If AMA and ICDR data is being recorded, Steps 9 through 16 and Steps 17 through 24 can be performed simultaneously	
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**CHECK CAMA AND/OR ICDR OPERATION**



NOTE 3	
Data accumulates in a big buffer before it is split and written to disk. If only tracer records are being recorded, it would take approximately 2 hours before LPO: value would change. If a lot of AMA data is recorded, 30-minute wait may not be necessary. Other post retrofit activities can be performed during wait period	
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[17] At 3B MCRT, enter message  
OP:ICDR;MAPS!

[18] Using printout and  
TABLE A, Page 2,  
determine partition  
number associated with  
WRITE PARTITION

[19] Using printout and  
TABLE B, record LPO:  
value under  
PARTITION DISK MAP:  
associated with  
partition determined  
in Step 18

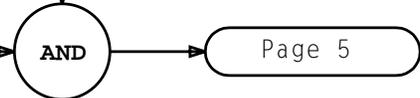
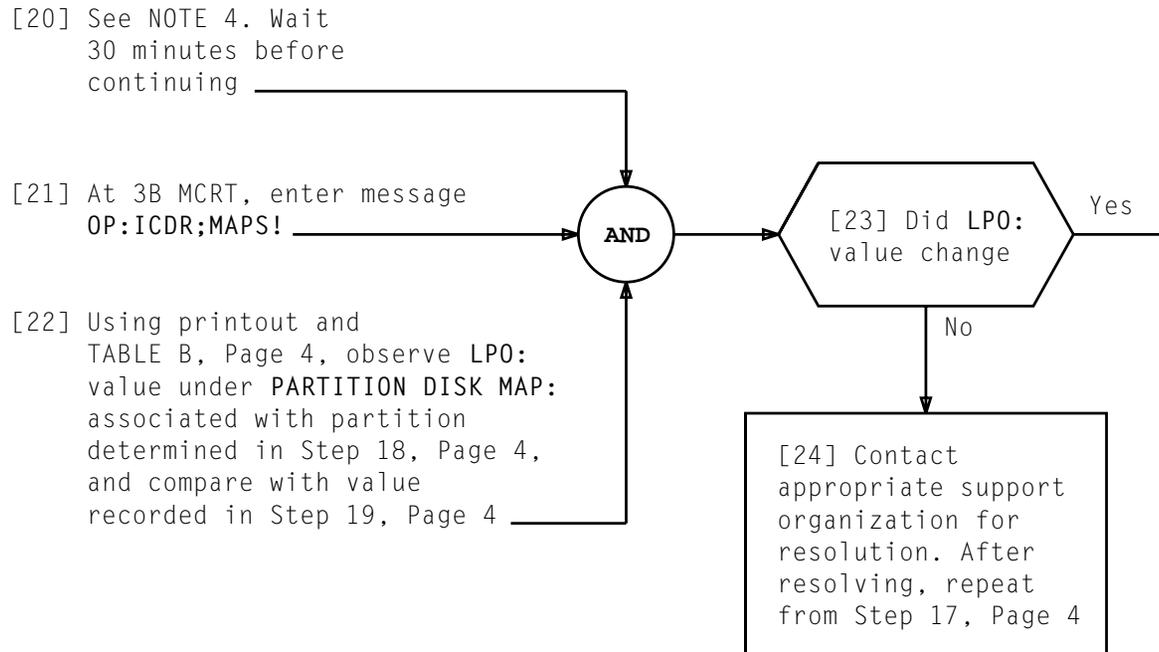


TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT ICDR DISK MAPS WRITE PARTITION a READ PARTITION a = Partition number ICDR data being written
2	PARTITION b DISK MAP: FPO: _____ LPO: c      FPS: _____ LPS: _____ FSO: _____ LSO: _____ FSS: _____ LSS: _____ FBO: _____ LBO: _____ FBS: _____ LBS: _____ b = Equipped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



NOTE 4	
Data accumulates in a big buffer before it is split and written to disk. If only tracer records are being recorded, it would take approximately 2 hours before LPO: value would change. If a lot of ICDR data is recorded, 30-minute wait may not be necessary. Other post retrofit activities can be performed during wait period	
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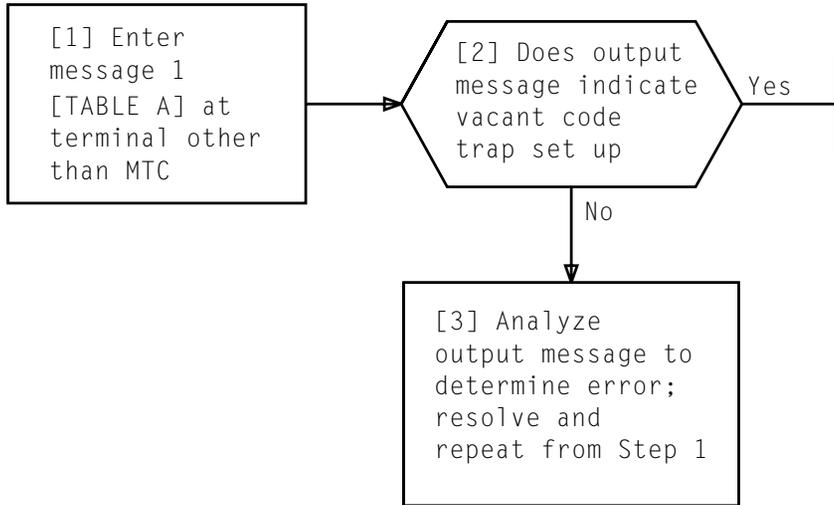
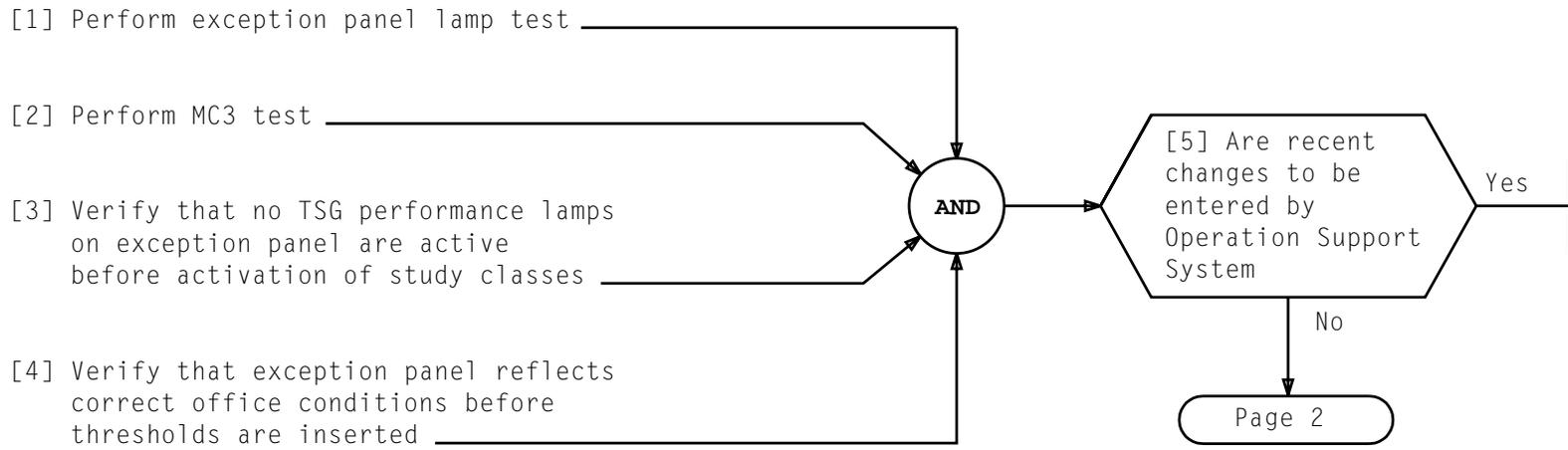
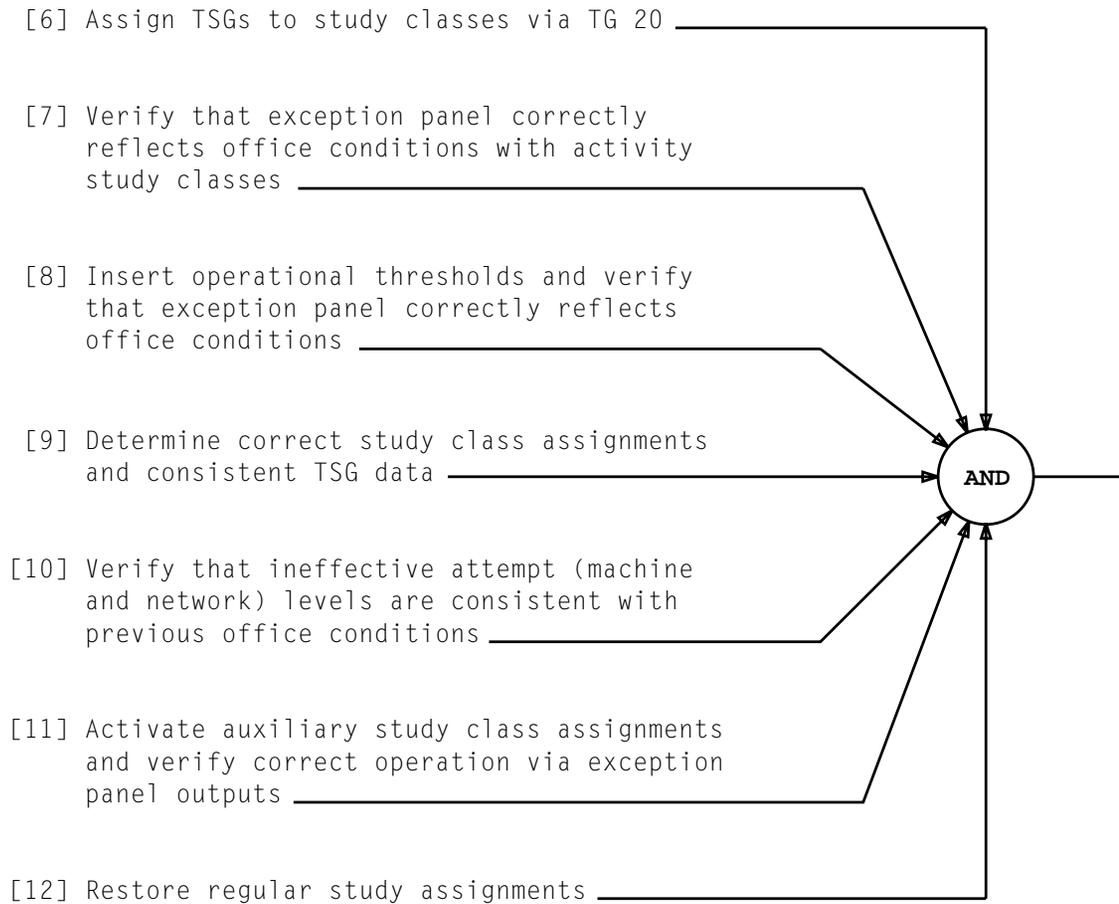


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	MON:IAOFC,NEW;ADD:IA (VCA,NCA,PDA,PER),TIMEON hhmm,COU! hhmm = Hour (00 to 23) and minute (00 to 59) which specifies time trap is to start collecting data



**CHECK OUT NETWORK MANAGEMENT SYSTEM**

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[1] At MTC terminal,  
 enter execute message  
 EX:LIBSYS:PKG LG19RCUA,PGM RCLI,TASK 3,CLIENT 0!

[2] Verify that output messages 1, 2, and 3  
 [TABLE A] are received

[3] See NOTE 1. When output message number 3  
 [TABLE A] is received; enter message to  
 start processing  
 IN:LIBSYS:CLIENT 0,ASC nnnnnn!  
 nnnnnn = first RC order number on tape  
 (6-digit number)

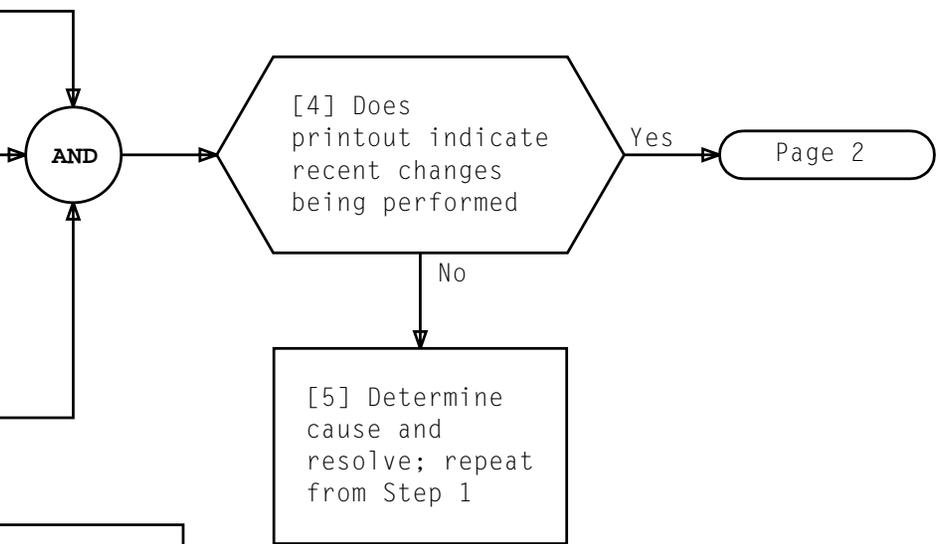


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	EX:LIBSYS:PKG LG19RCUA,PGM RCLI,TASK 3,CLIENT 0 STARTED
2	REPT:RCLI,PROCESSING INPUT FILE RCLIMnyymmddhhmm n = 1 or 2 yymmddhhmm = Date and time Task 3 Tape created
3	REPT:RCLI,ENTER MSG FOR TASK 3 - ORNU TO START PROCESSING

NOTE 1  
 All Large Scale Nailup Capability is mapped over during update. RCLI will not process associated 205 and 206 forms entered after final ODA TWRP (deleted during Task 0 processing)

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**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**

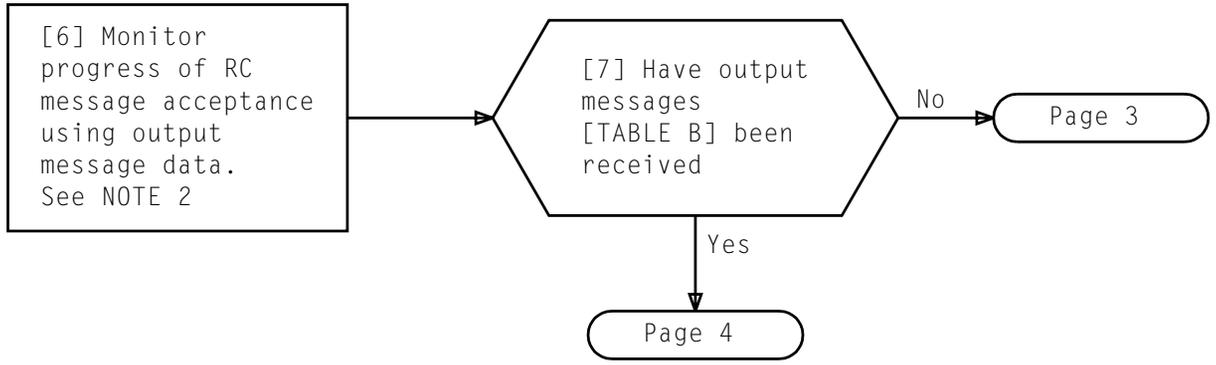


TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT:RCLI,RC ROLLBACK AREA 90% FULL,ORNU nnnnnn LAST ORNU PROCESSED
2	REPT:RCLI, ENTER MSG FOR TASK 3-ABORT OR OVERWRITE ROLLBACK AREA

NOTE 2  
 If error is detected during processing, normal RC error messages will be received and normal RC processing will take over. Library Program will be in wait mode and will abort in 30 minutes if not restarted

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**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**

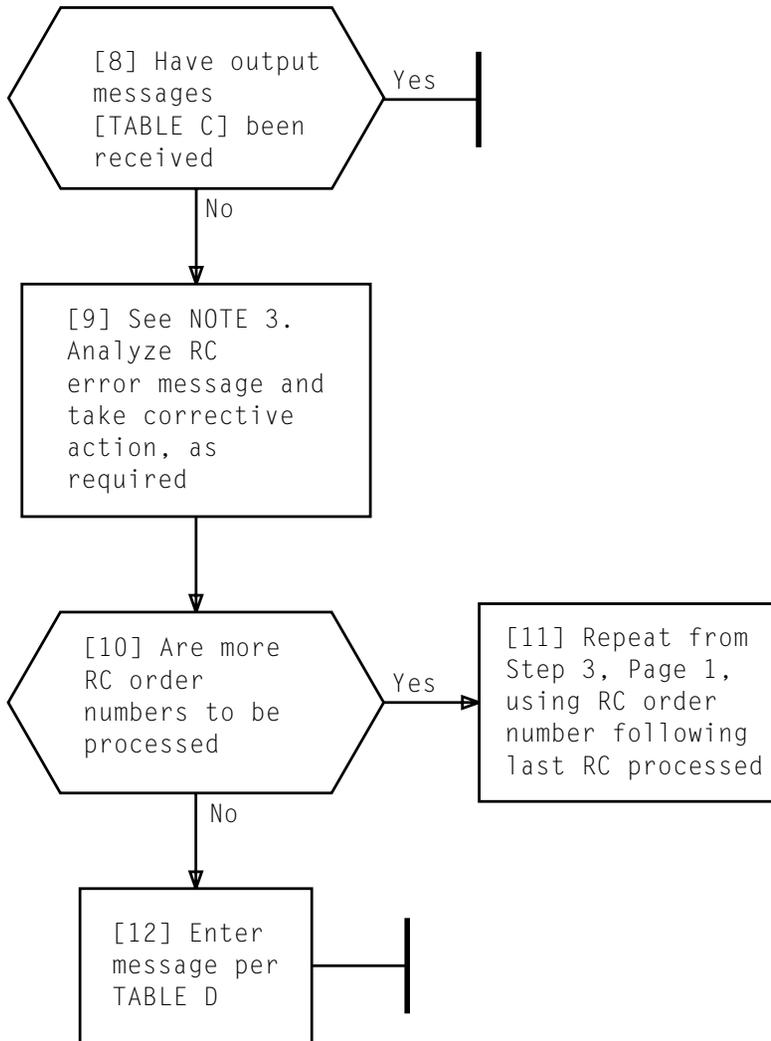
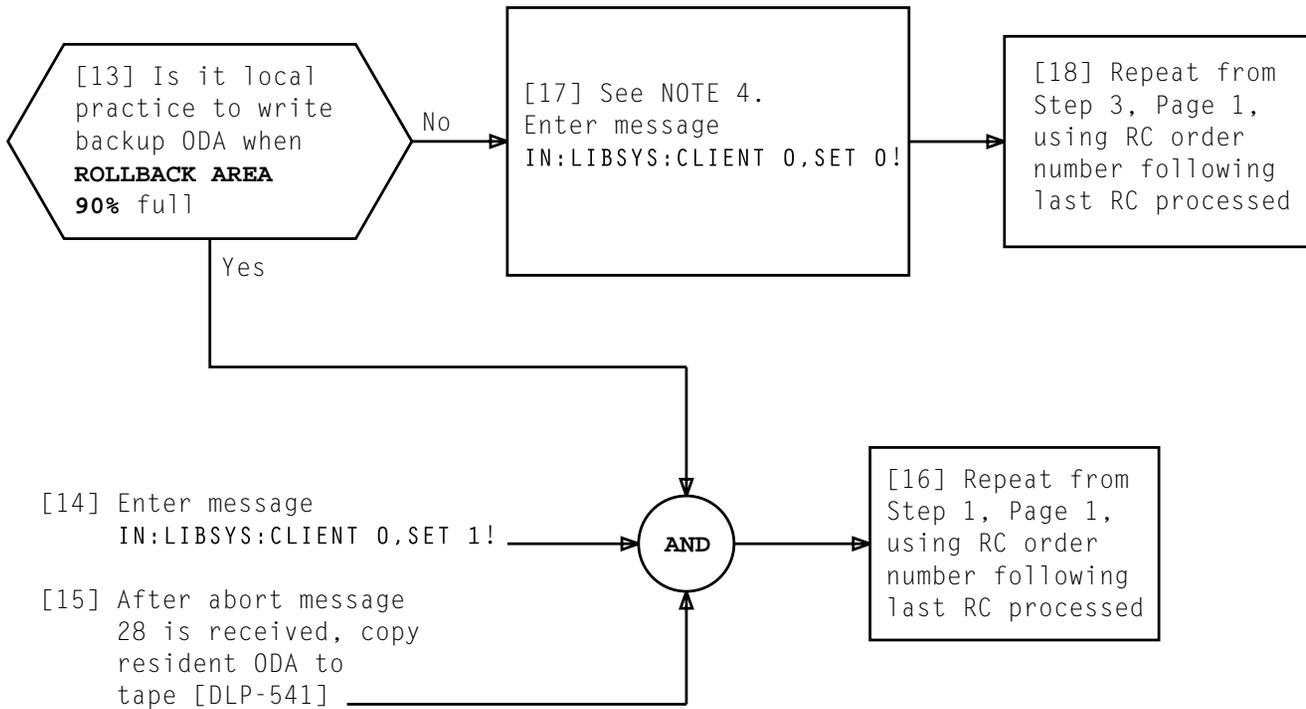


TABLE C	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT:RCLI CONTROL REPORT TASK NUMBER 3 COUNT OF RCDM MESSAGES ON INPUT TAPE (RCLIMnyymmddhhmm):nnnn COUNT OF RCDM MESSAGES SENT TO RC GENERIC PGM:nnnn COUNT OF UNIT TYPE MESSAGES ACTIVATED:nnnn nnnn = Number of messages nyymmddhhmm = Part of Tape filename
2	REPT:RCLI,TASK COMPLETED SUCCESSFULLY
3	EX:LIBSYS:PKG LG19RCUA,PGM RCLI,TASK 3,CLIENT 0 COMPLETED REPT:DEMOUNT TAPE FROM TUC a

TABLE D	
OUTPUT MESSAGE	INPUT MESSAGE
1	STOP:LIBSYS:PKG LG19RCUA,PGM RCLI,TASK 3,CLIENT 0!

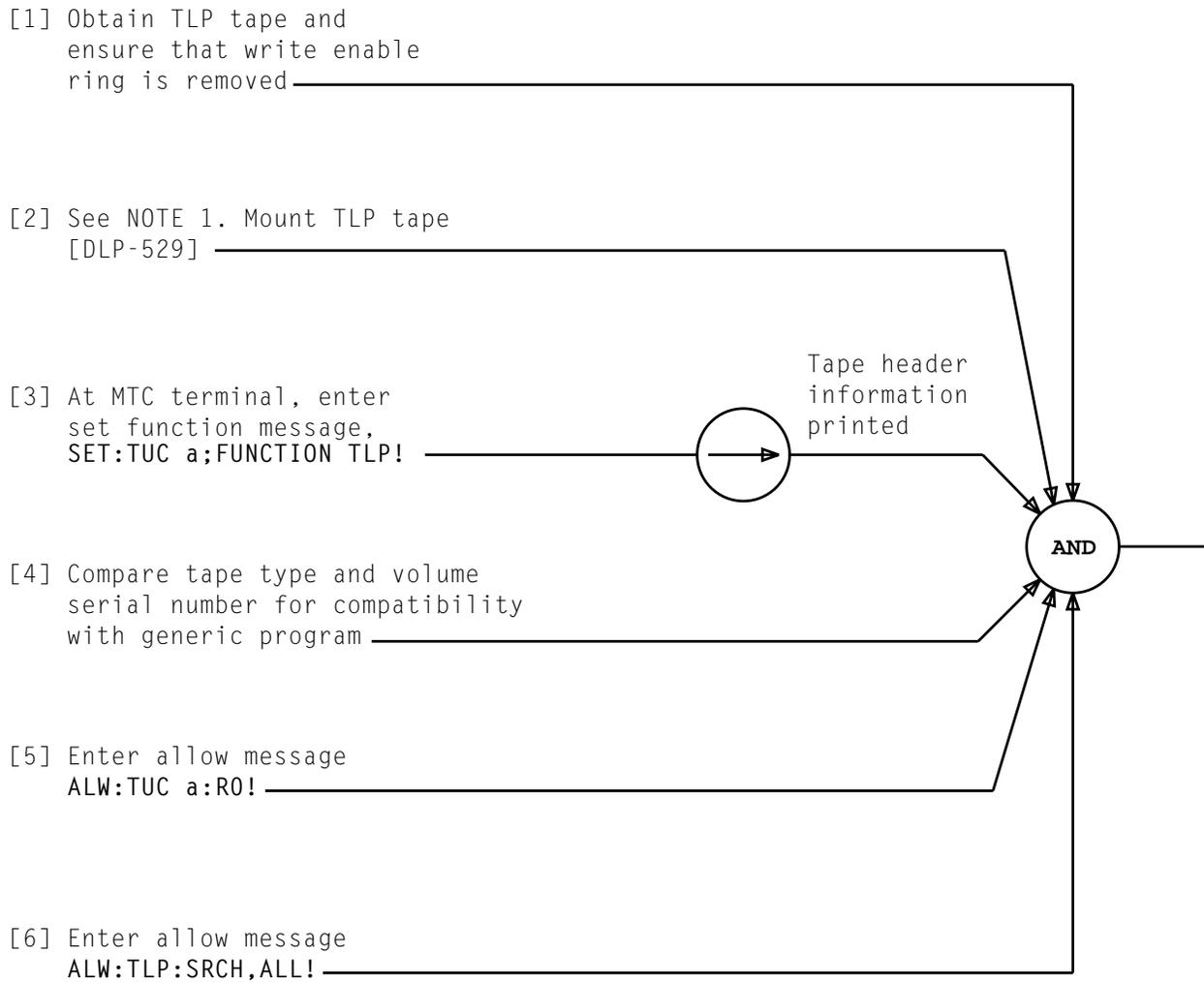
NOTE 3 Recent change in error must be entered manually, if required	
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**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**



NOTE 4	
SET message will cause recent changes to overwrite rollback area	
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**EXECUTE RC UPDATE LIBRARY PROGRAM TASK 3 TO REENTER RECENT CHANGES INTO SYSTEM**



**PLACE TLP TAPE IN SERVICE**

NOTE 1	
Local procedures will dictate tape units on which TLP tape can be mounted	
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[1] See CAUTION 1. Inform Network Management Center not to make any changes to the NWM data base via Page CN20 while tape writing is in progress

[2] Select available tape transport for mounting tape to be written. Demount tape if one is mounted [DLP-528]

[3] Mount blank, or erasable, tape with write-enable ring attached [DLP-529]

At MTC terminal:

[4] Enter message  
CLR:ADSFUNC CPY!

[5] Enter message  
SET:TUC a;FUNCTION CPY!

[6] Check header information. If tape is blank or erasable, enter message ALW:TUC a:RW!

[7] Enter message  
COPY:NWM;TAPE:VFY!

Inhibits set and tape mounted

Tape header information printed

Writing of tape begins [NOTE 1]

Tape writing started

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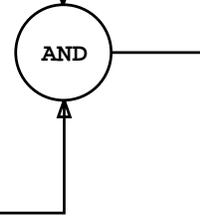
**NOTE 1**  
After network management tape is written, COPY:NWM;TAPE COMPL date and time are printed. Tape will then rewind and be verified. After verification has been completed, COPY:VFY;TAPE COMPL is printed followed by REPT:DEMOUNT TAPE FROM TUC a

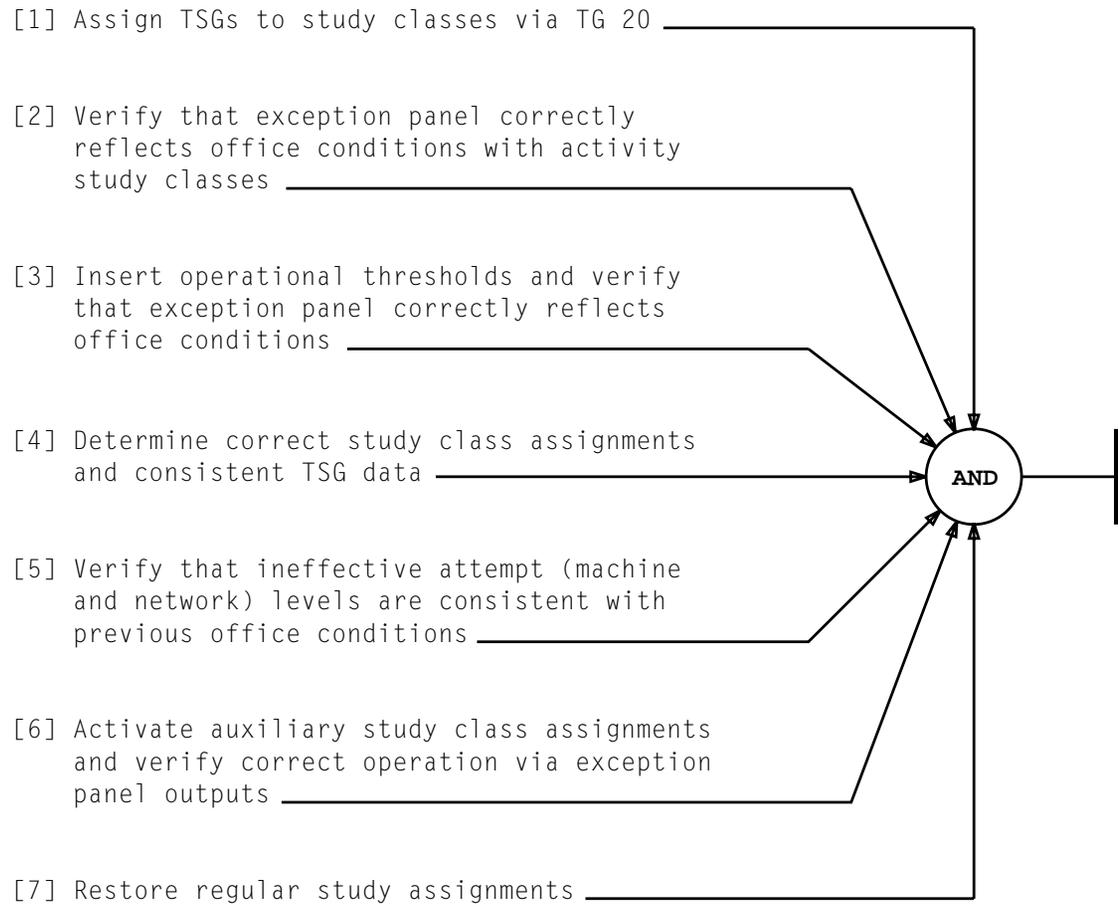
**CAUTION 1**  
Certain system audits are inhibited during tape writing. Therefore, tape writing should be done during light traffic periods

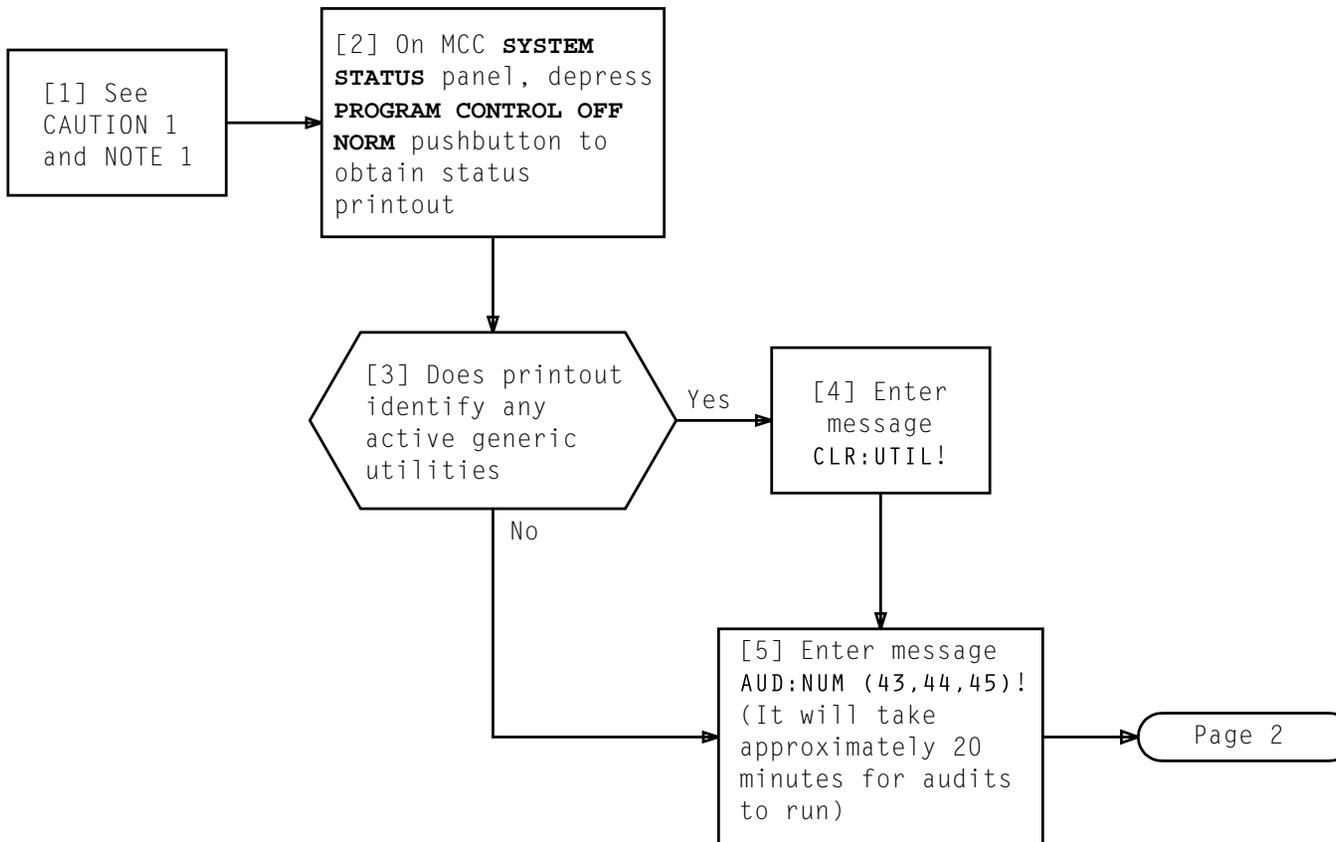
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[8] After tape has been written  
and verified and REPT:DEMOUNT  
TAPE FROM TUC a is printed, demount  
tape just written [DLP-528] and  
remove write-enable ring

[9] Label and store tape per  
local instructions







**NOTE 1**  
 If necessary, AT&T Practice 234-020-010 should be referenced for tape storage requirements and procedures

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

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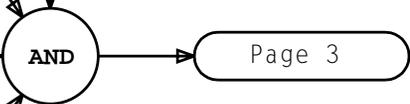
[6] Obtain copy of latest generic tape  
(800 BPI) and oldest generic tape

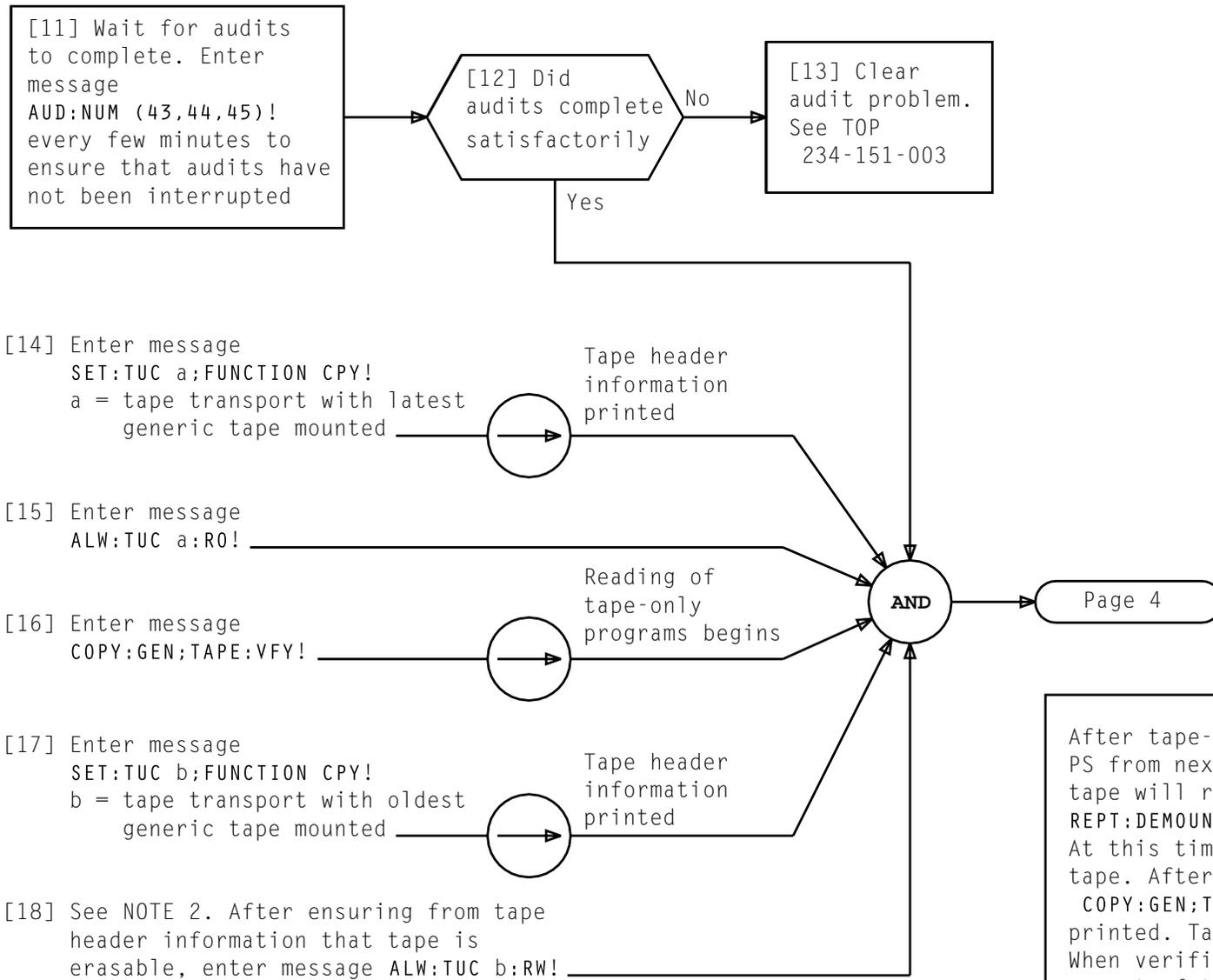
[7] Select tape transports for mounting  
tapes. Demount tapes from tape transports  
if any are mounted [DLP-528]

[8] Mount latest generic tape (without  
write-enable ring) on available  
tape transport (TUC a) [DLP-529]

[9] Mount oldest generic tape (with  
write-enable ring attached) on other  
tape transport (TUC b) [DLP-529]

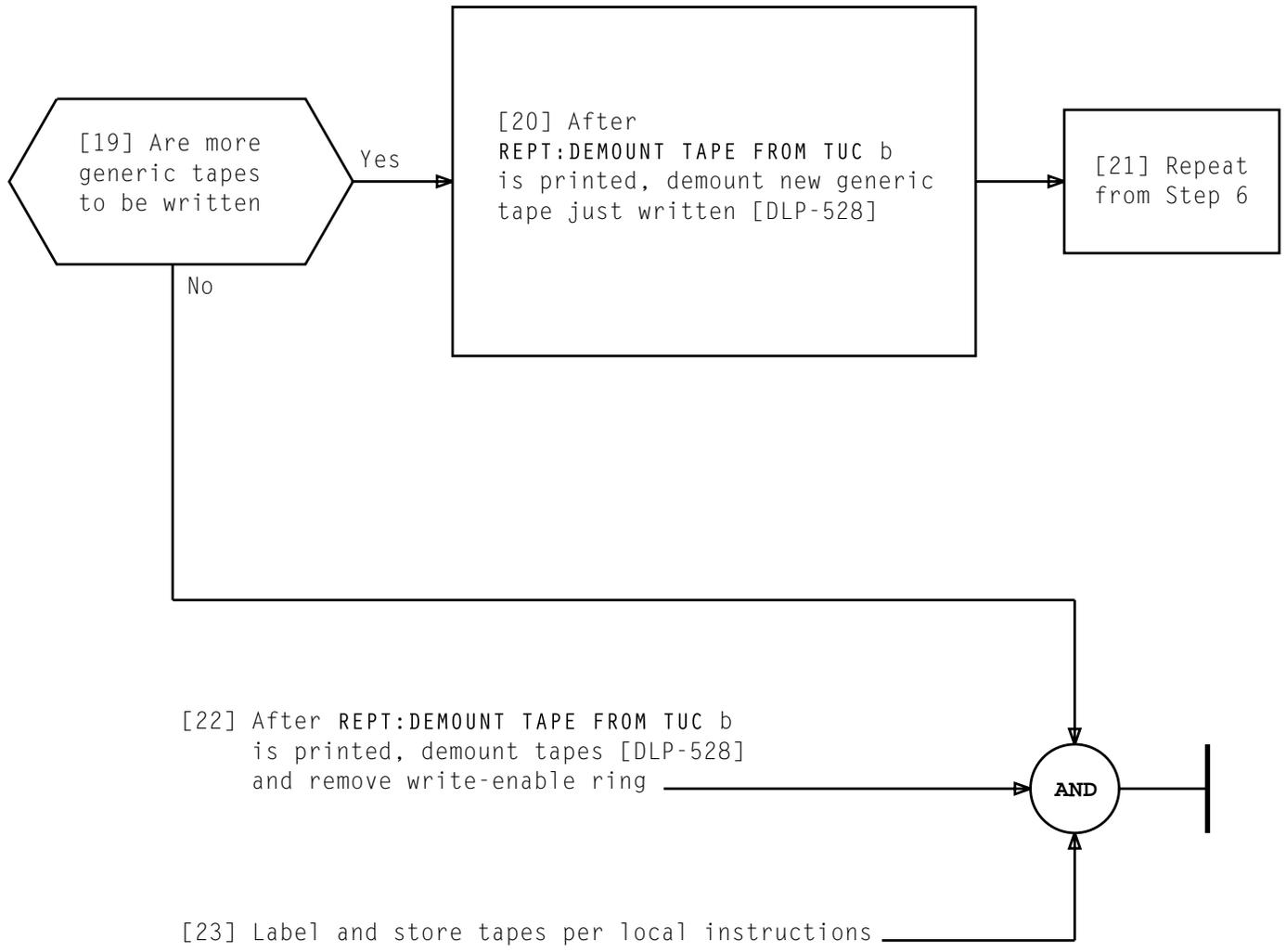
[10] Enter message CLR:ADSFUNC CPY!

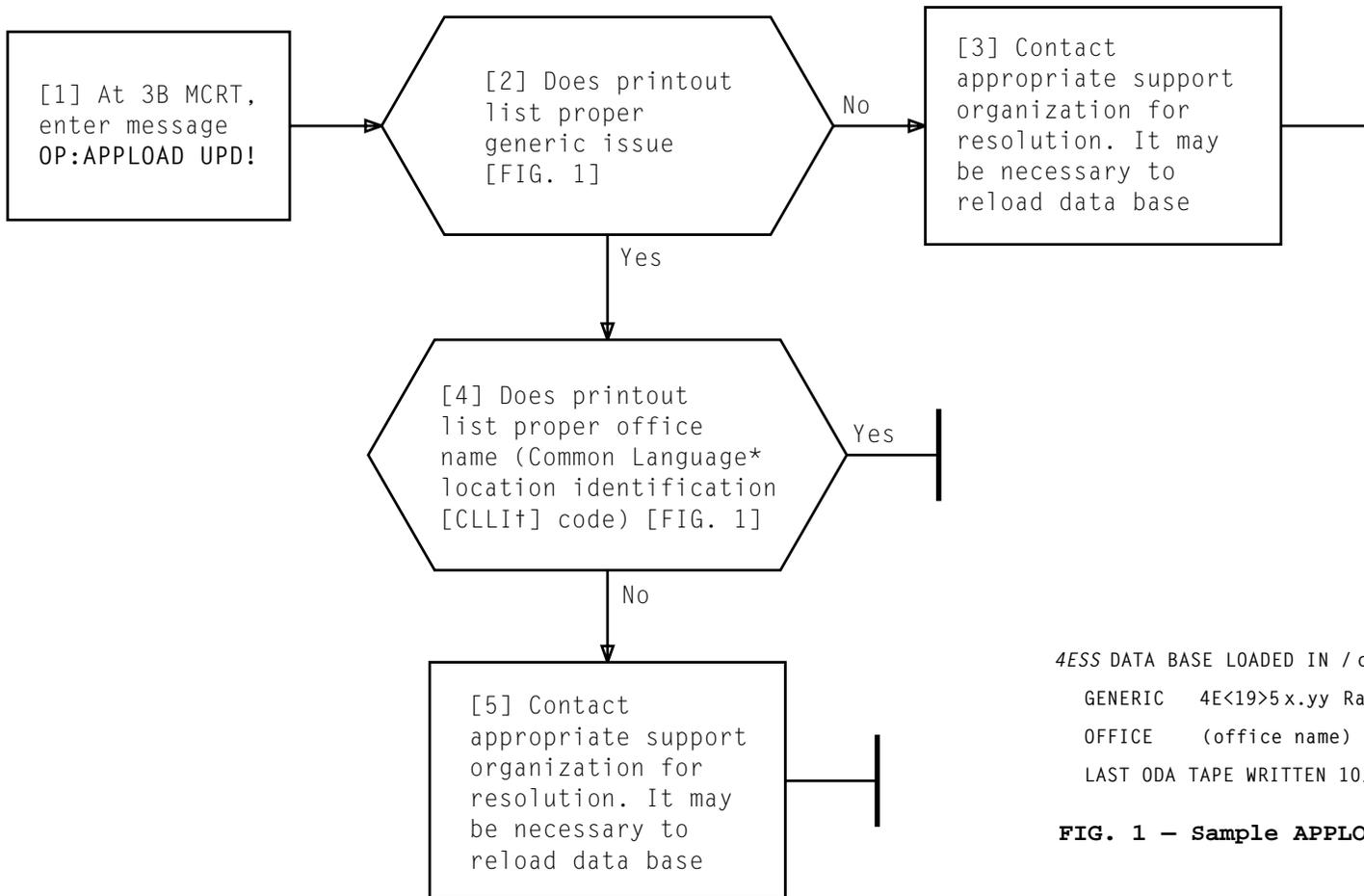




NOTE 2  
 After tape-only programs are copied into PS from next to oldest generic tape, tape will rewind and REPT:DEMOUNT TAPE FROM TUC a is printed. At this time, writing starts on oldest tape. After tape is written (5-10 minutes), COPY:GEN;TAPE COMPLdate and time are printed. Tape rewinds and is verified. When verification has completed (same amount of time as it took to write), COPY:VFY;TAPE COMPLis printed followed by REPT:DEMOUNT TAPE FROM TUCb

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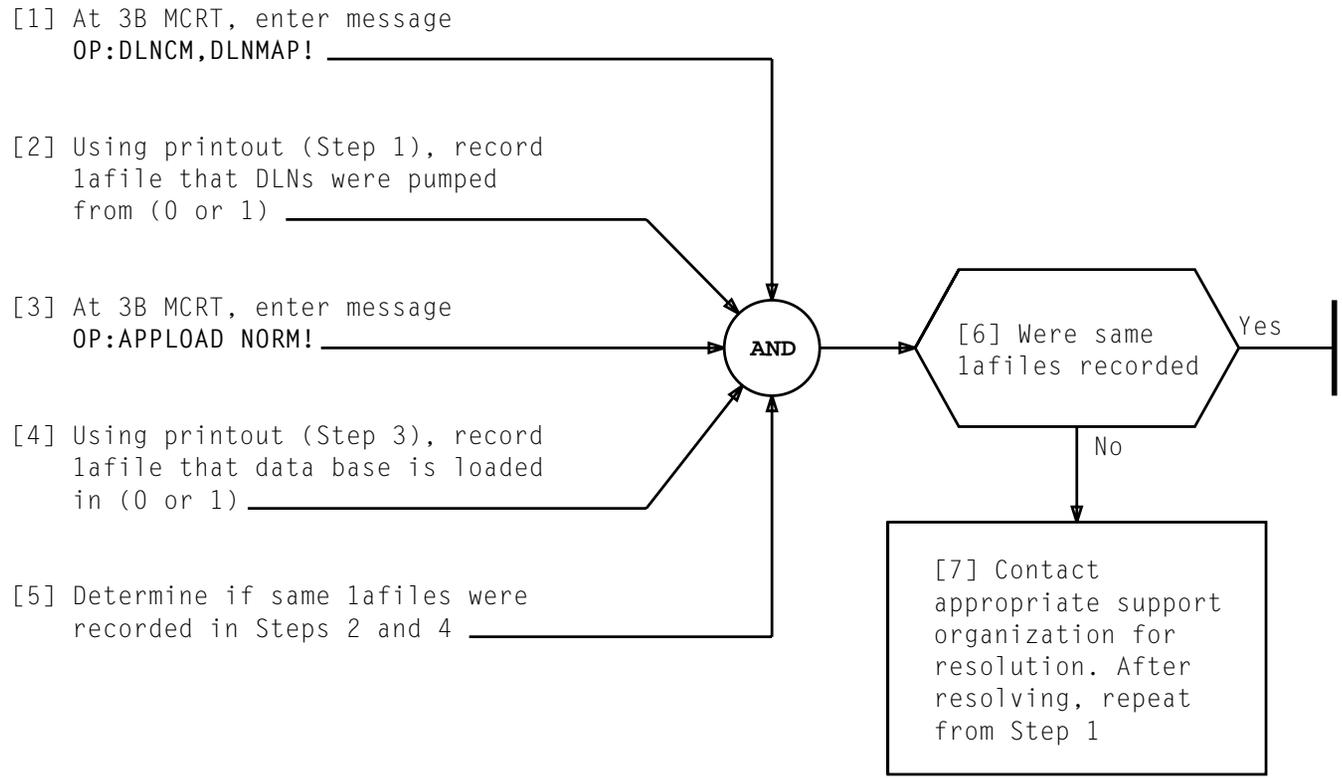
```

4ESS DATA BASE LOADED IN / dev/1afile0 IS:
  GENERIC  4E<19>5x.yy Ra
  OFFICE   (office name)
  LAST ODA TAPE WRITTEN 10/25/94 AT 19:51
  
```

**FIG. 1 — Sample APPLOAD Printout**

\* Registered trademark of Bell Communications Research, Inc.

† Trademark of Bell Communications Research, Inc.



**VERIFY DLNs PUMPED FROM PROPER 1AFILE**

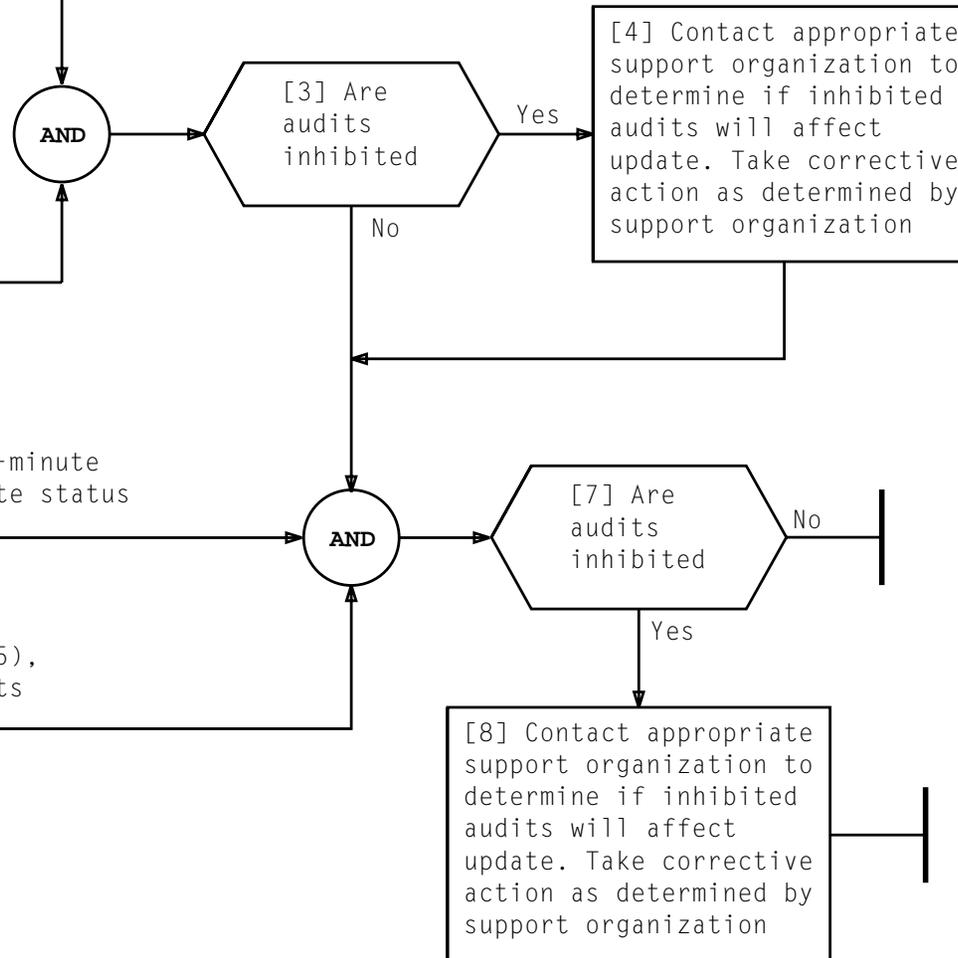
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[1] At 1A MTC terminal, enter message OP:AUDSTAT!

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

[5] At 3B MCRT ROP, on 30-minute marginal report, locate status of audits

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

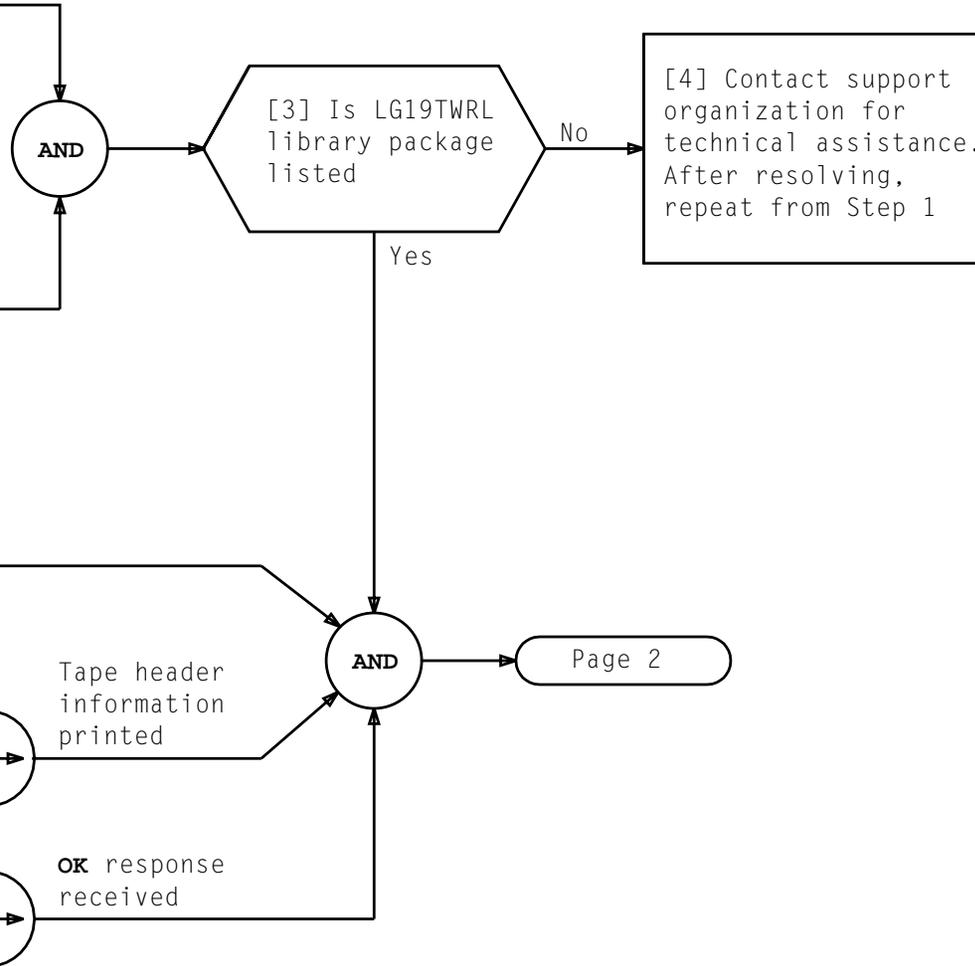


## VERIFY NO AUDITS INHIBITED

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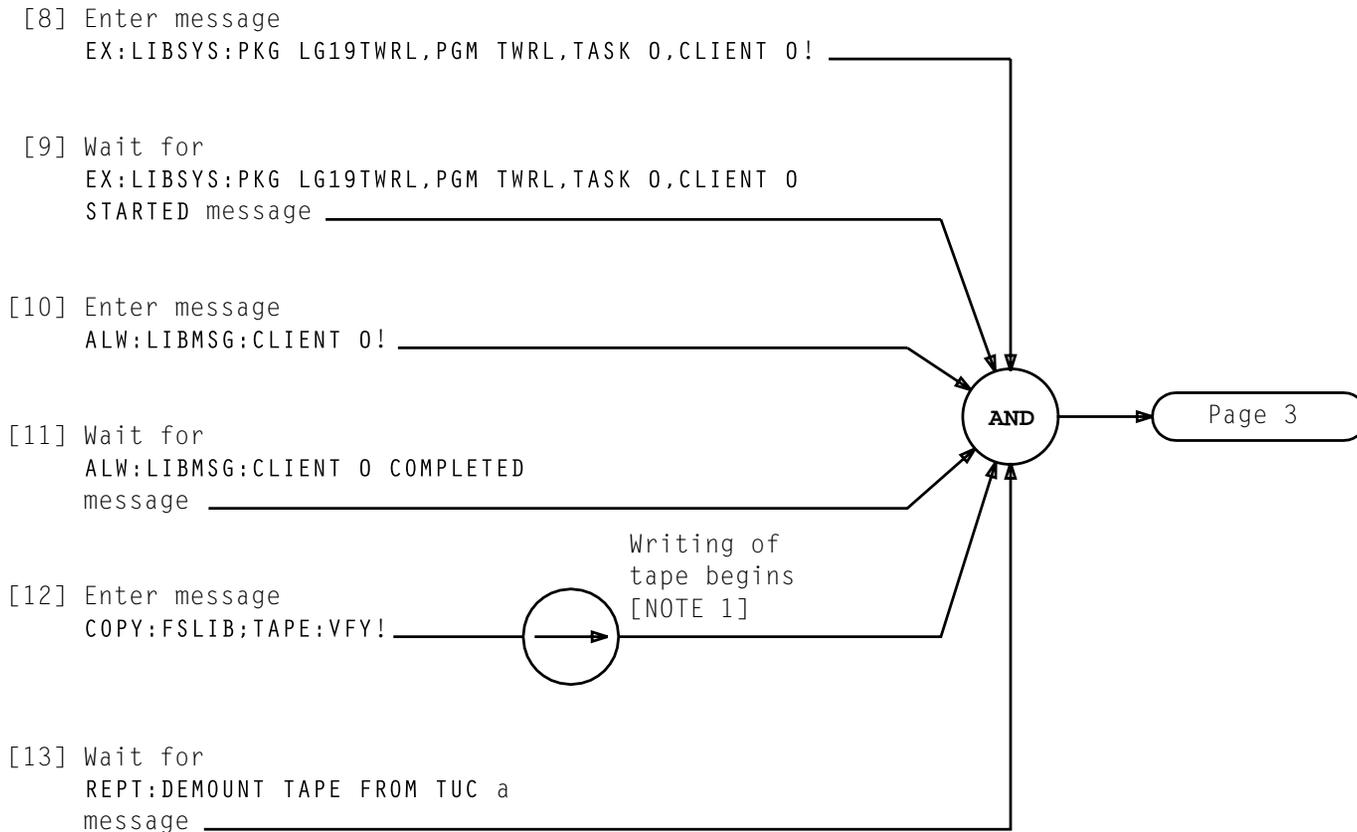
[1] At 1B MTC terminal, enter message  
OP:LIBSTAT,FS!

[2] Using printout, determine  
if LG19TWRL library  
package is listed



# WRITE 4E19 LIBRARY TAPE(S) USING TWRL LIBRARY PROGRAM

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NOTE 1	
After library tape is written, tape will rewind and be verified. After verification has been completed, COPY:FSLIB COMPLETED with date and time are printed. Library program COMPLETED message and list of library packages are received followed by REPT: DEMOUNT TAPE FROM TUC a	
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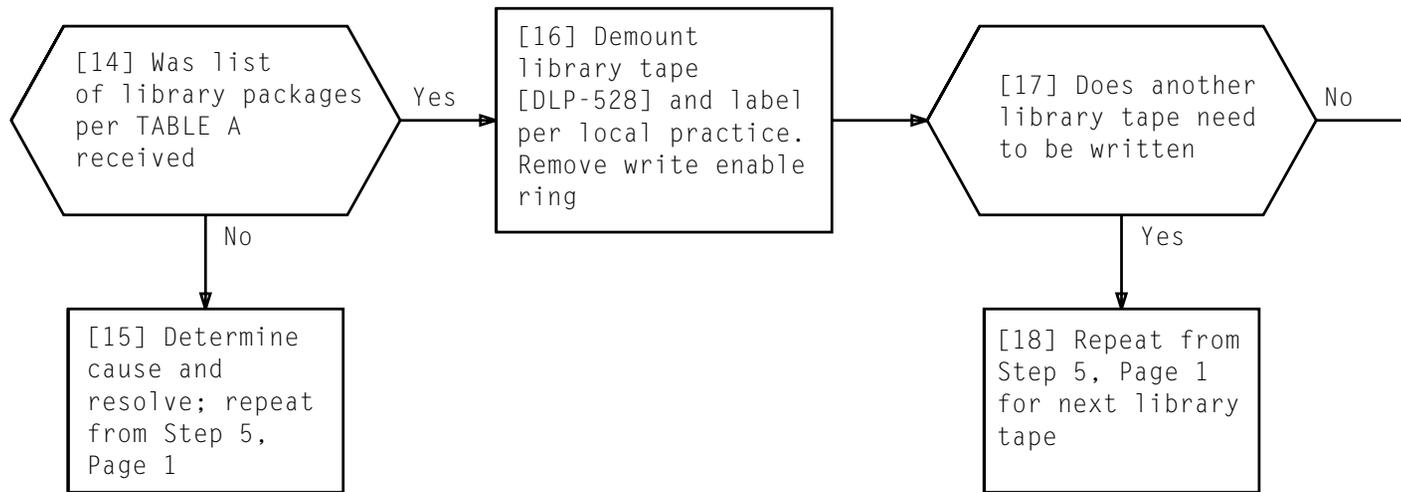
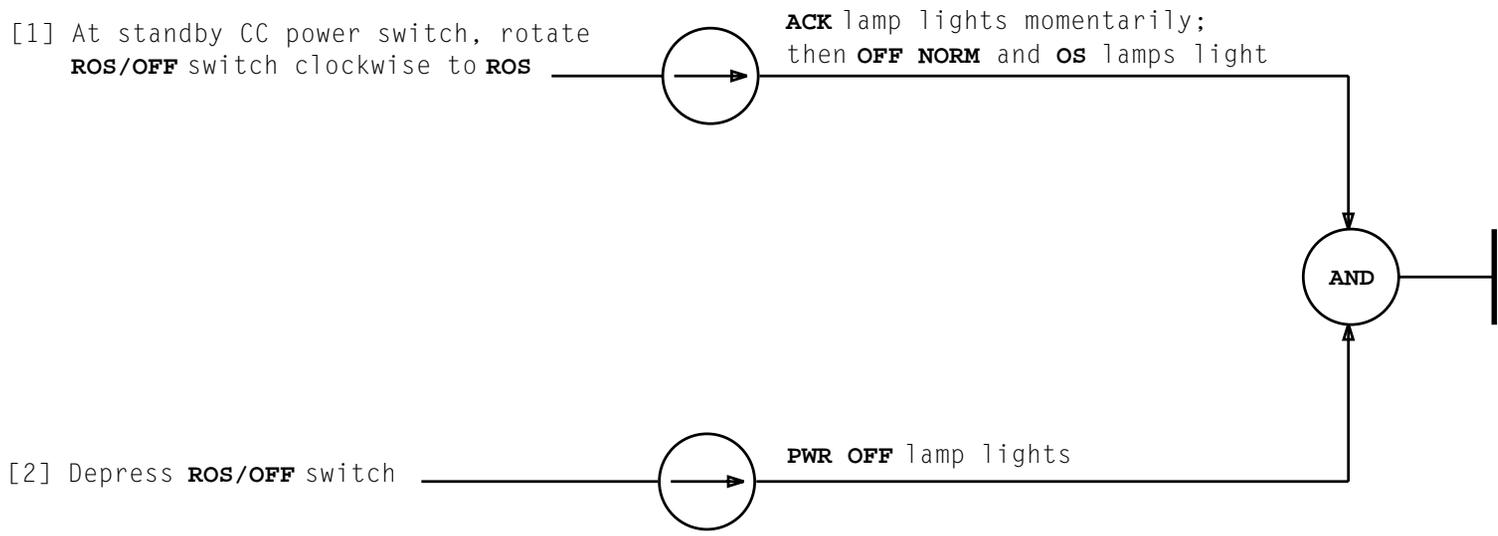
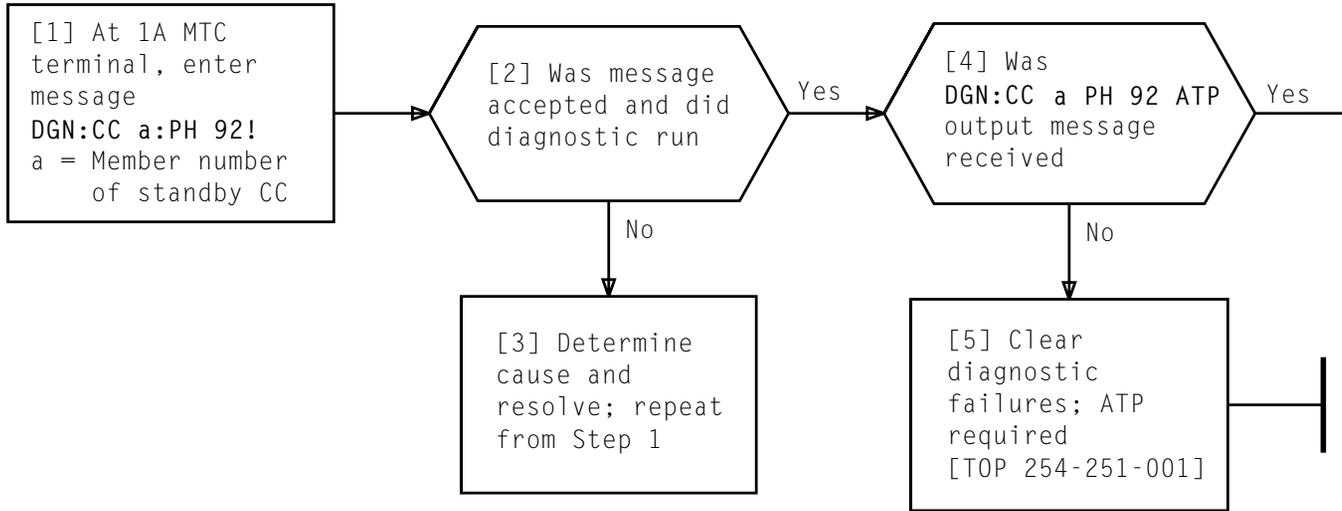


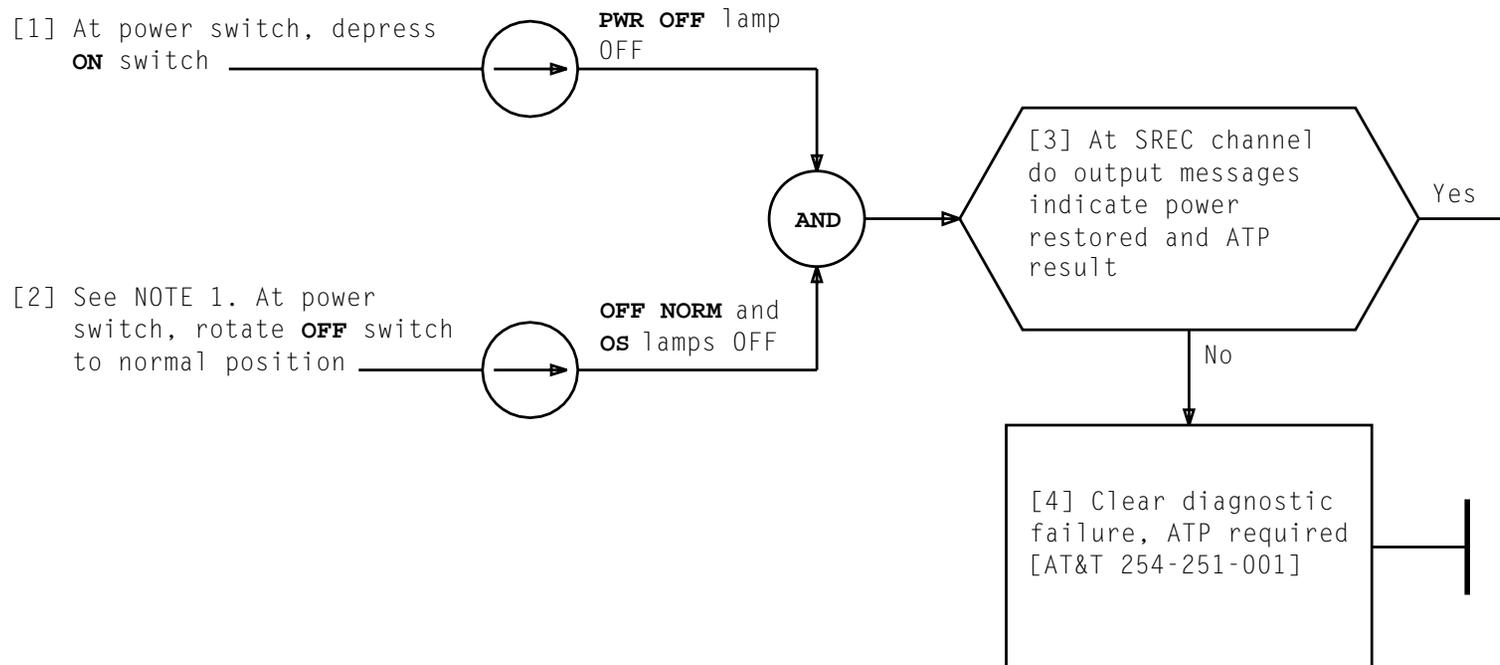
TABLE A	
LIBRARY PACKAGES	
LG19TPAD	LG19PKG1
LG19FLDS	LG19RCUA
LG19NETX	LG19TMSG
LG19PGRO	LG19TWRL



**REMOVE POWER FROM STANDBY CC UNIT USING POWER SWITCH**

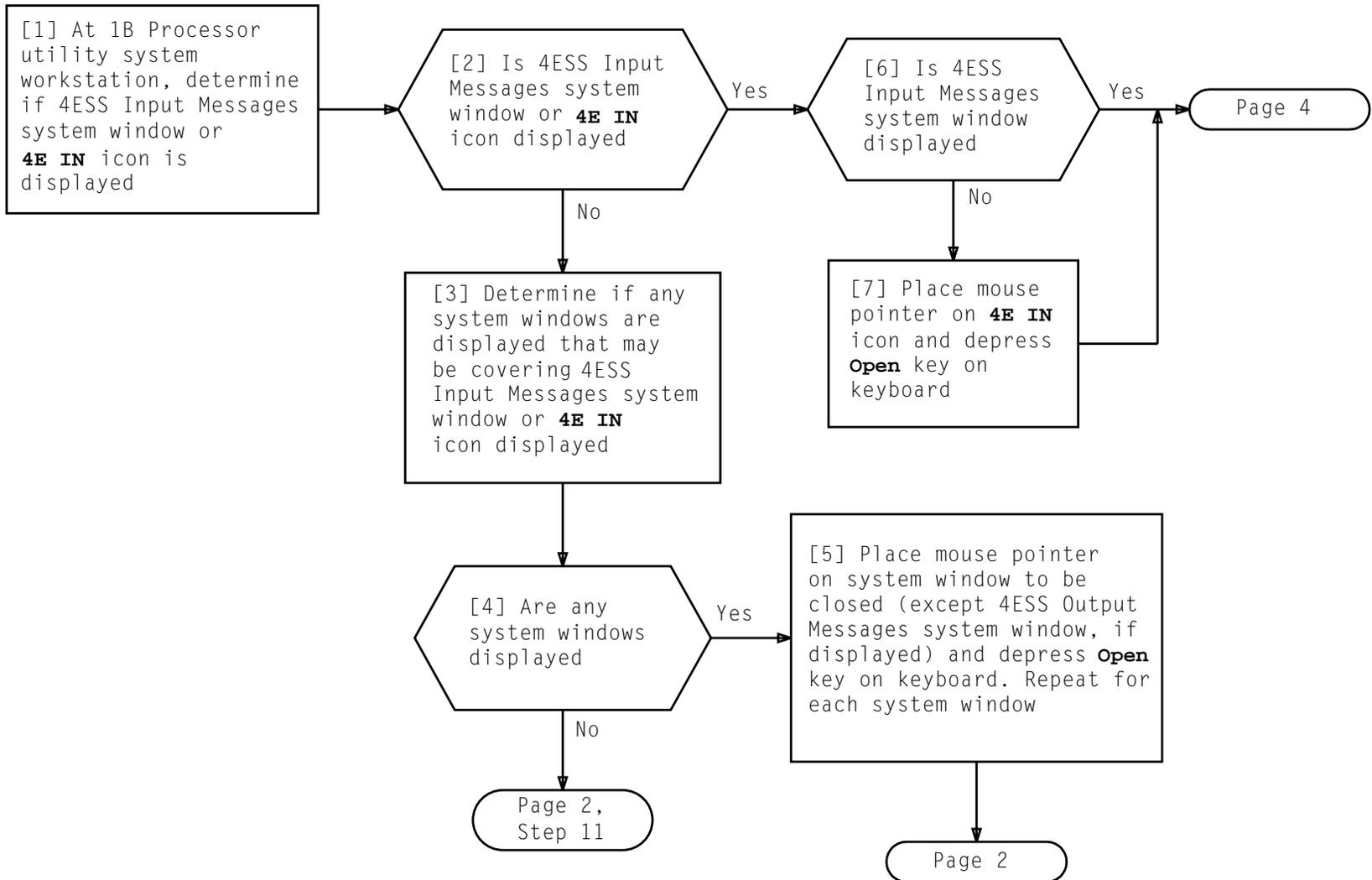
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NOTE 1	
Operation of <b>OFF</b> switch will cause diagnostic to be run	
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**RESTORE POWER WITH POWER SWITCH**



**START I/O MESSAGE PROCESS**

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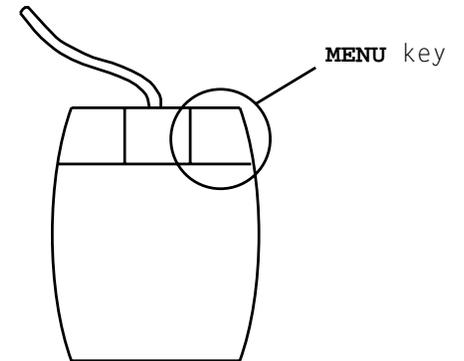
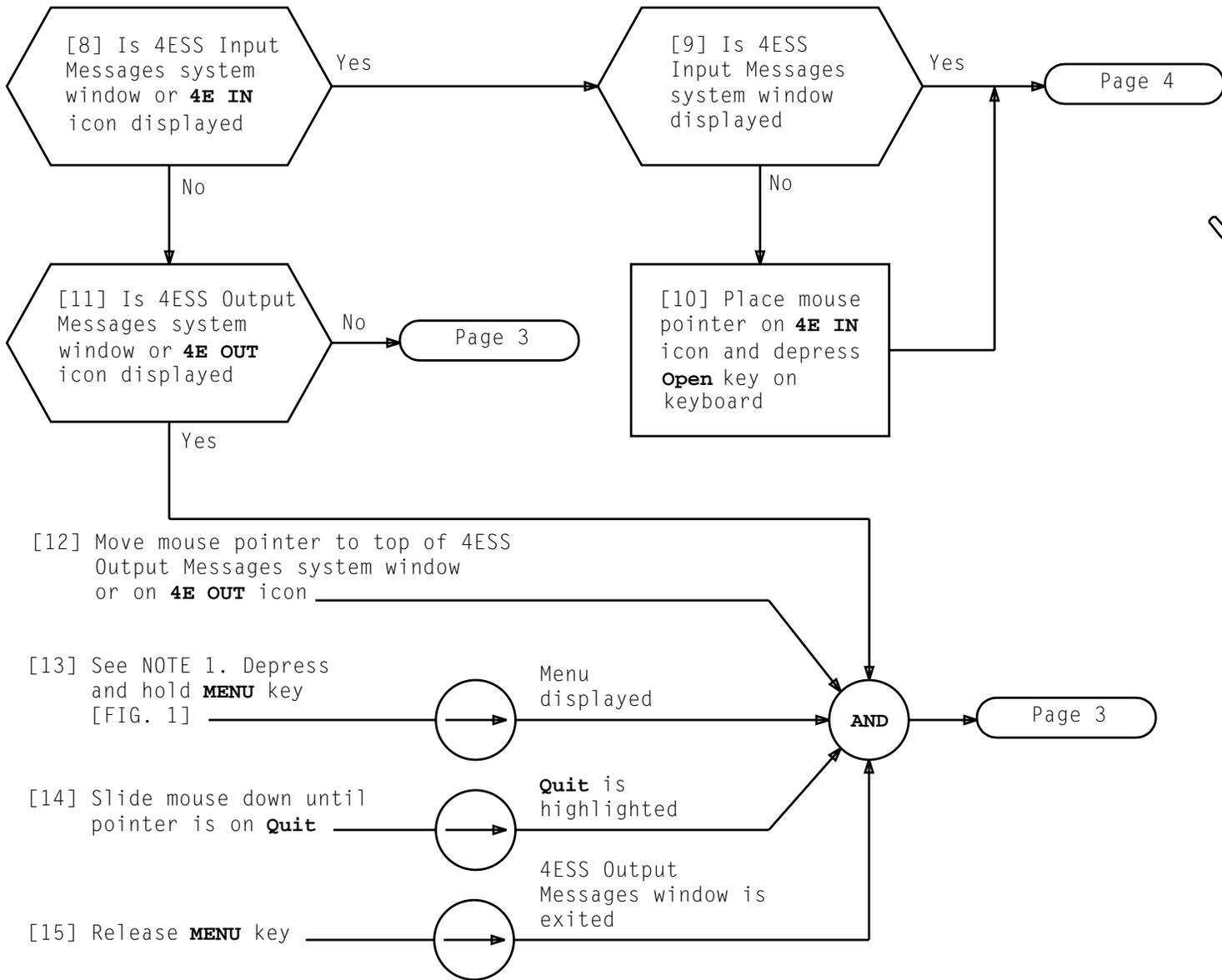


FIG. 1 - Mouse Layout

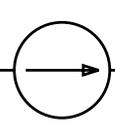
NOTE 1	
MENU key on mouse must be depressed and held for Steps 13 and 14	
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[16] Using mouse for 1B Processor utility system workstation, move pointer to blank area

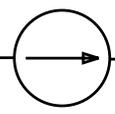
[17] See NOTE 2. Depress and hold **MENU** key on mouse

[18] Slide mouse down until pointer is on **US Tools**

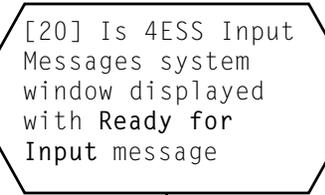
[19] Slide mouse to right until menu is displayed; then slide mouse down to **4ESS INPUT** and release key



Menu displayed



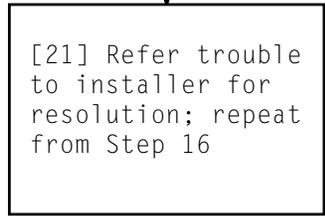
**US Tools** is highlighted



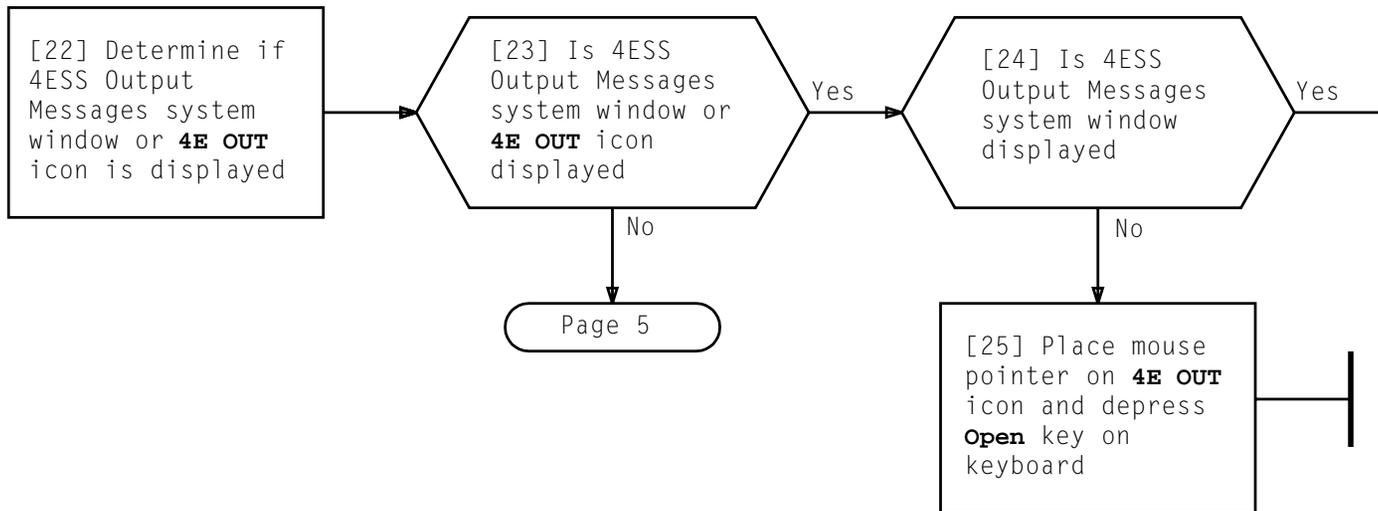
Yes



No



NOTE 2	
MENU key on mouse must be depressed and held for Steps 18 and 19	
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**START I/O MESSAGE PROCESS**

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[26] Using mouse for 1B Processor utility system workstation, move pointer to blank area

[27] See NOTE 3. Depress and hold **MENU** key on mouse [FIG. 2]

[28] Slide mouse down until pointer is on **US Tools**

[29] Slide mouse to right until **US Tools** menu is displayed; then slide mouse down to **4ESS OUTPUT** and release key

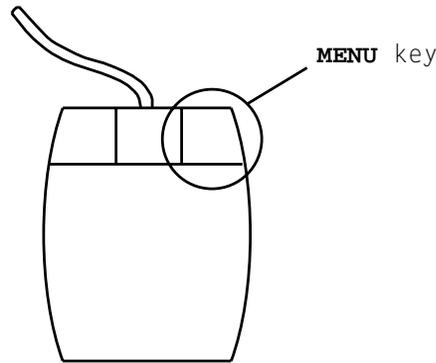
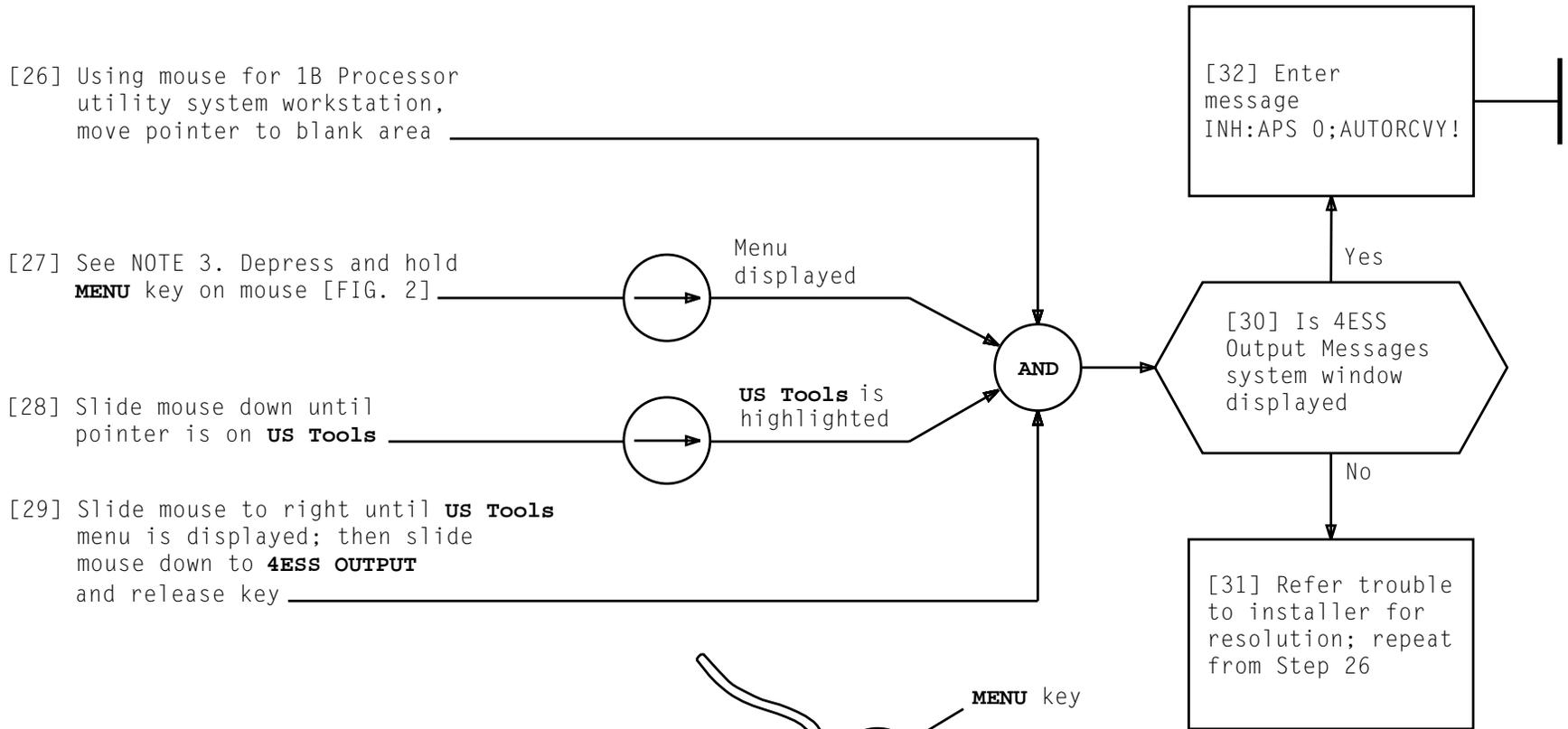


FIG. 2 - Mouse Layout



NOTE 3	
MENU key on mouse must be depressed and held for Steps 25 and 26	
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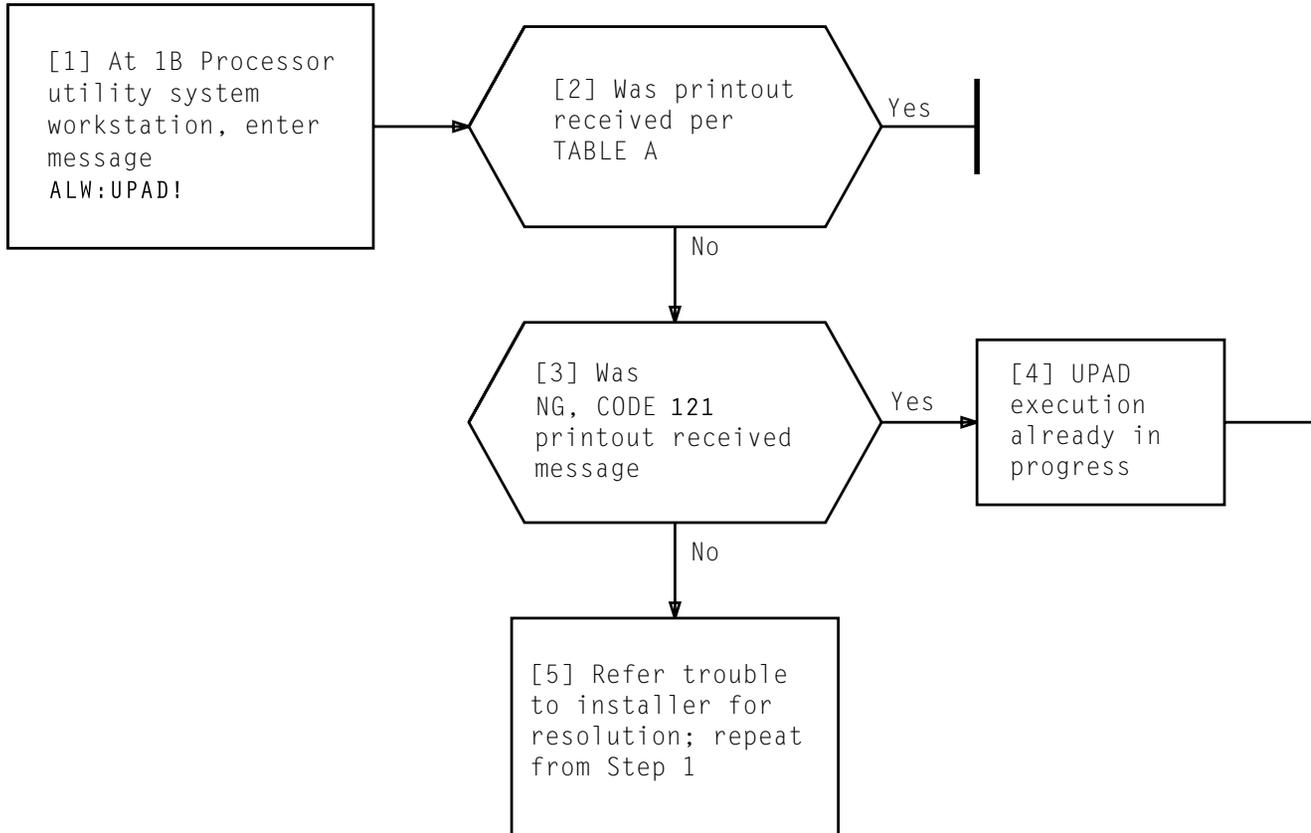


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT:UPAD INITIALIZING ENTIRE LBKC MEMORY (CS35) ANY PREVIOUS UPAD DATA HAS BEEN REINITIALIZED

[1] At 1B Processor utility system workstation enter message  
OP:00SUNITS!

[2] Using printout, determine if any units in 1B Processor Cabinets are listed as out-of-service  
[TABLE A]

[4] See NOTE 1. At 1B Processor utility system workstation, enter message  
RST: a b!  
a = Unit type  
b = Member number

[5] Using printout, determine if RST: a b COMPLETED message was received

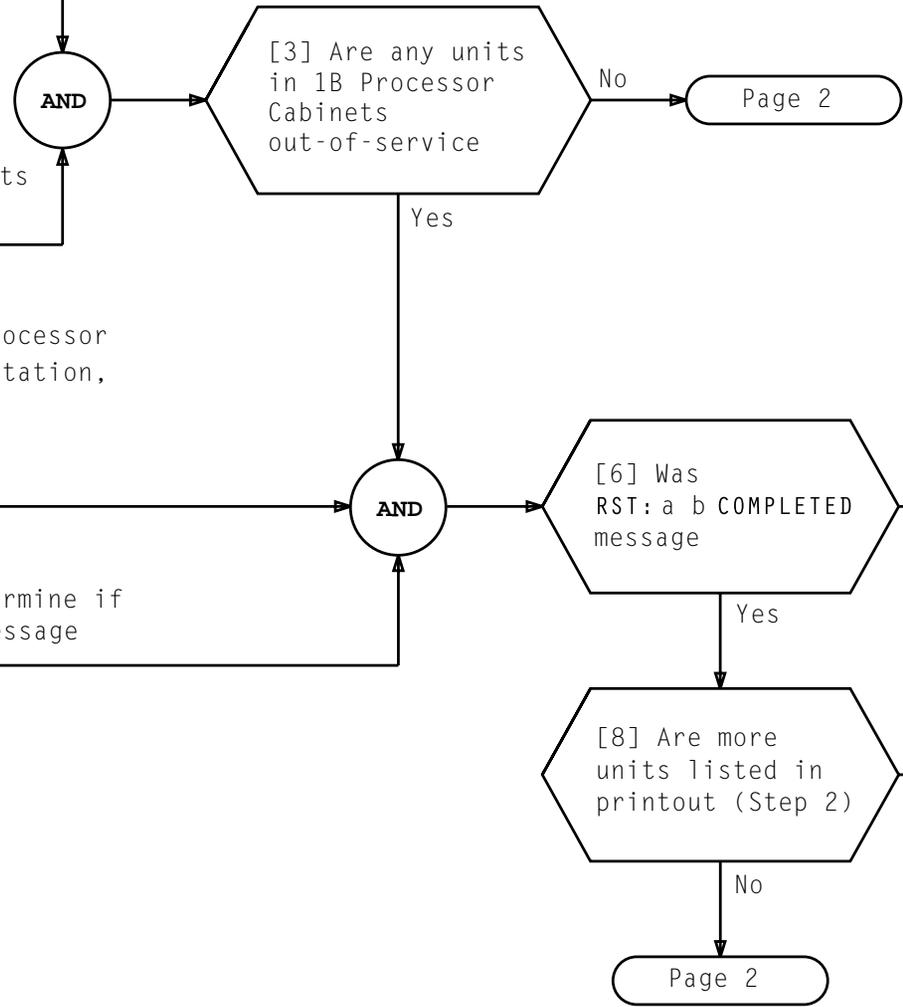
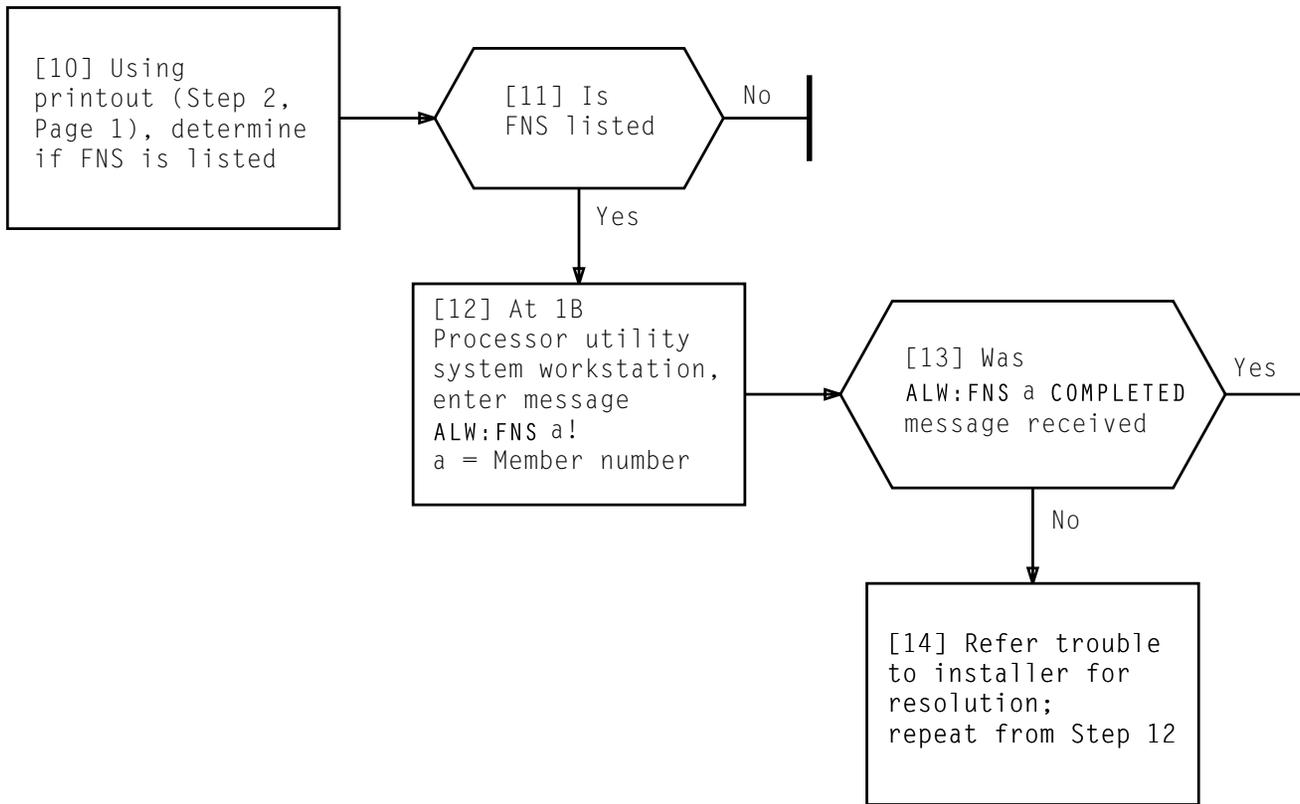


TABLE A	
AUI	MUP
CC	PS
CS	PSB
CSB	SSD
IFB	XPWR

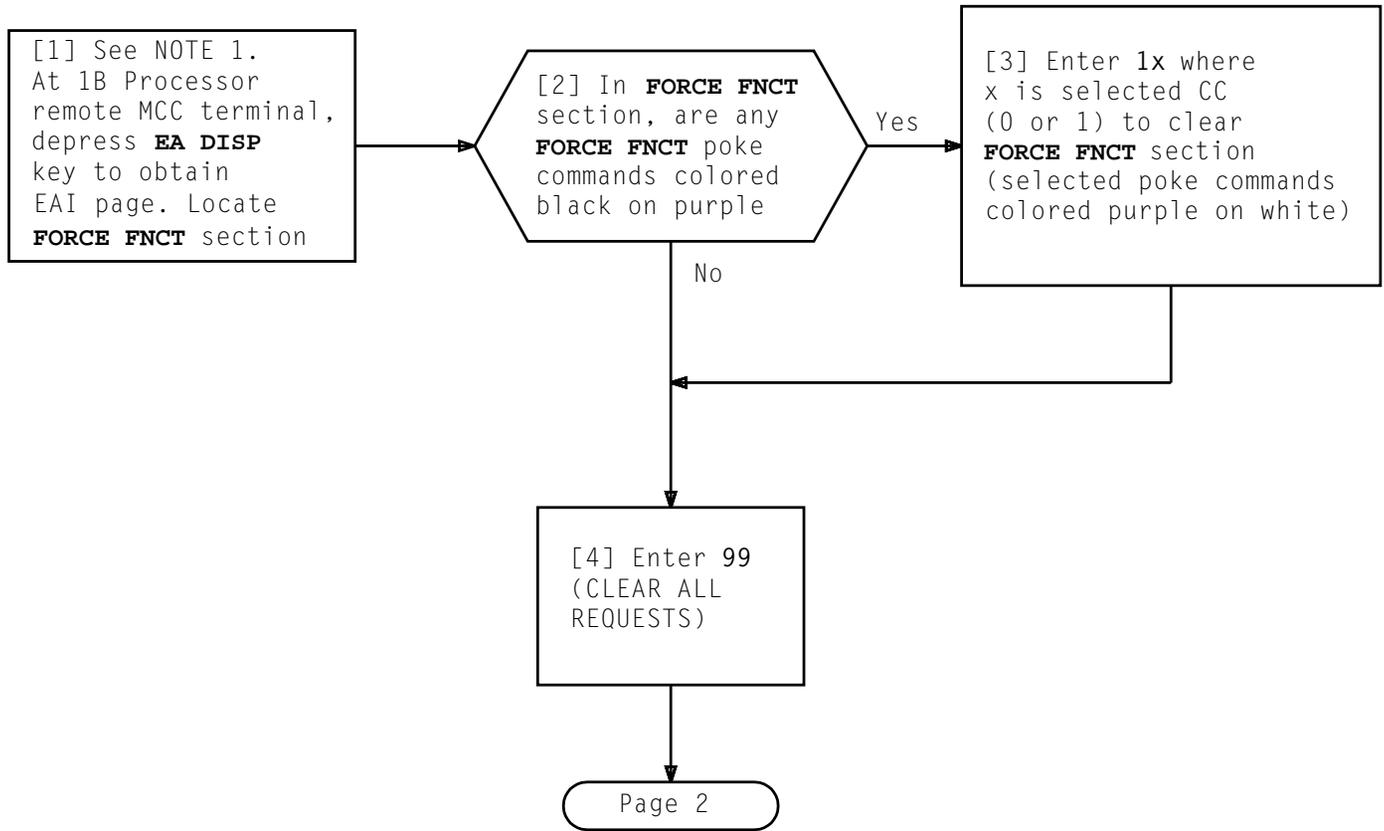
NOTE 1 IFB must be restored before restoring AUI, MUP, or SSD	
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**VERIFY ALL 1B PROCESSOR UNITS ARE IN-SERVICE**

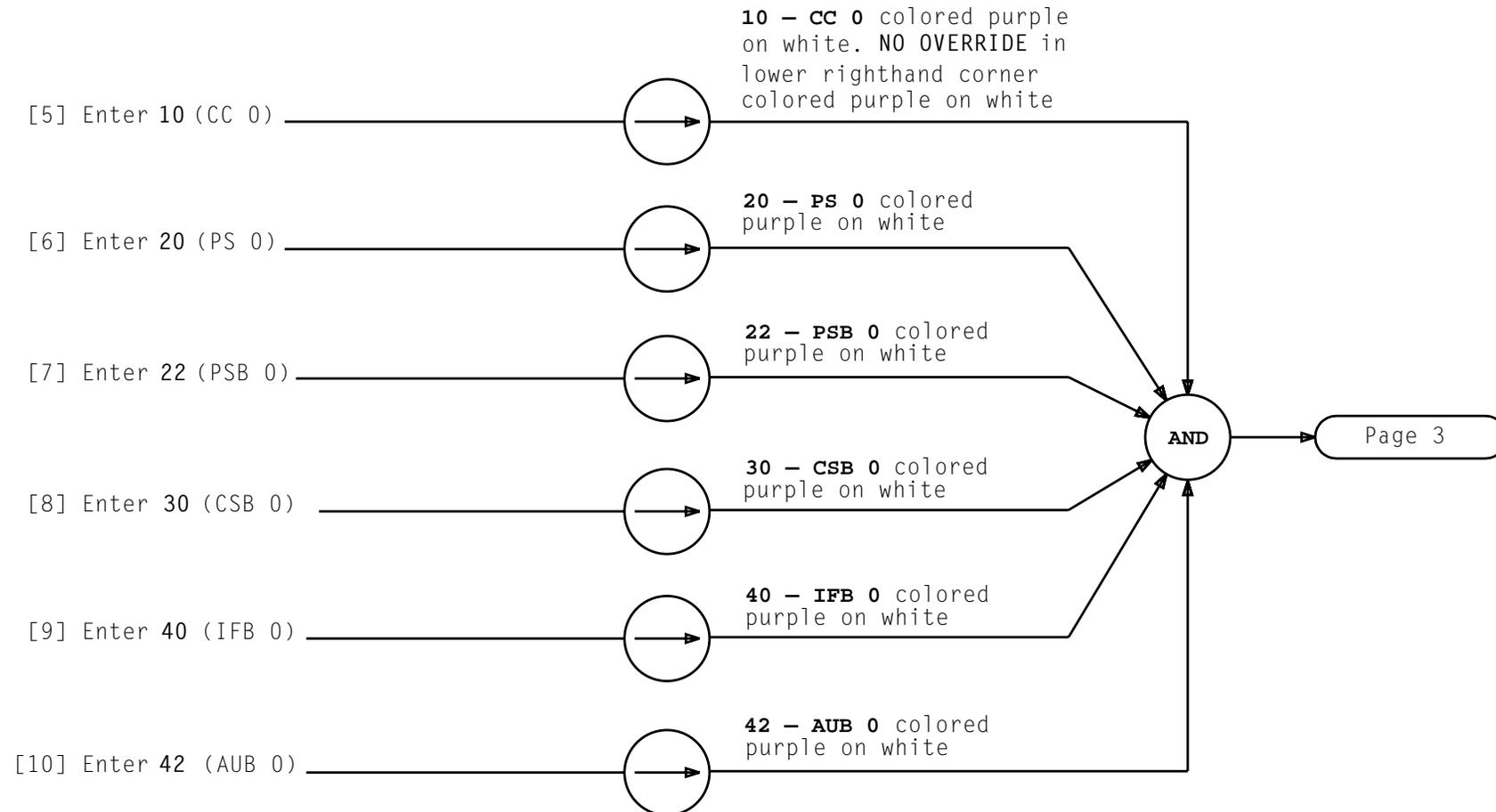


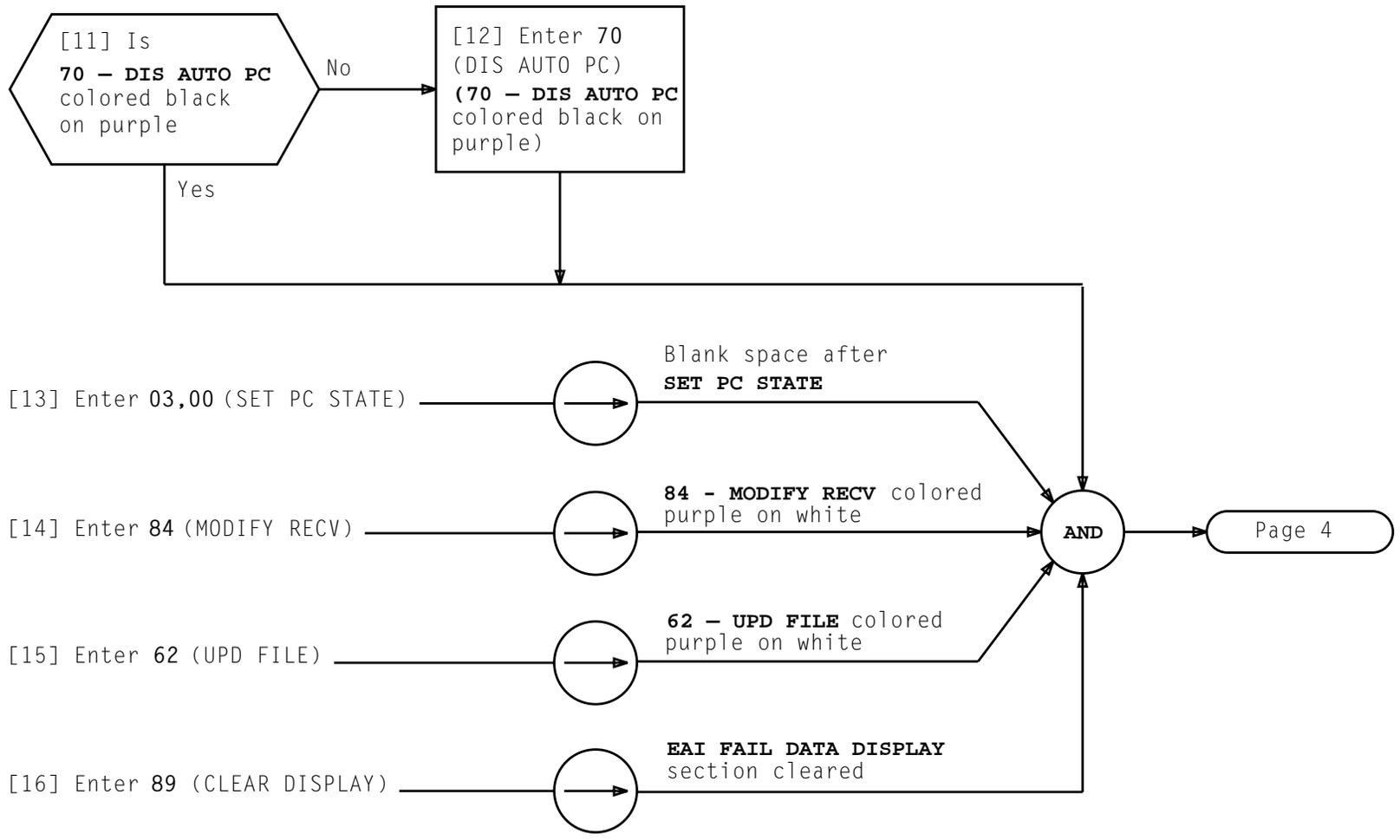
**VERIFY ALL 1B PROCESSOR UNITS ARE IN-SERVICE**

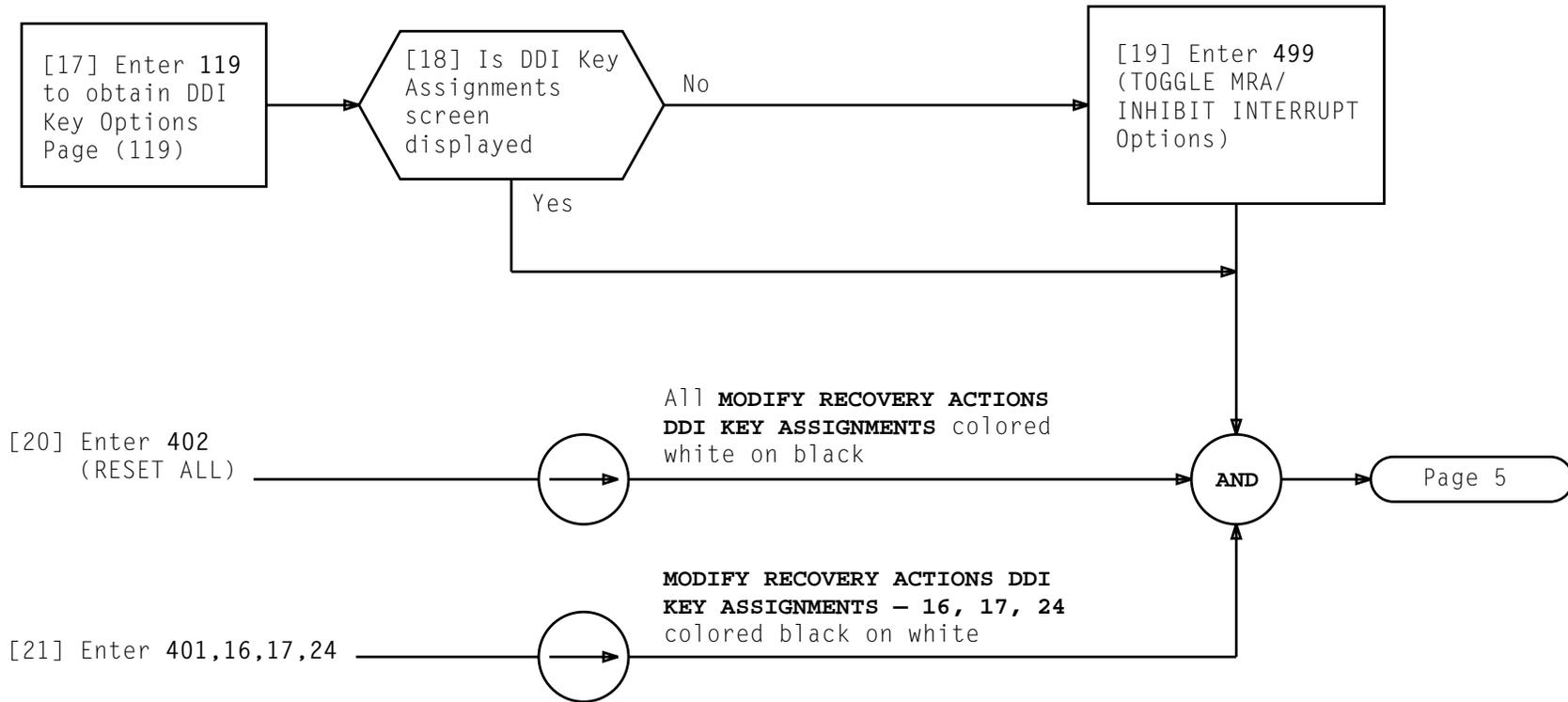
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NOTE 1	
In AT&T offices, Steps 1 through 27 (Pages 1-5) are to be done at TCC and Step 28, Page 5 is to be done on-site	
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[22] At 1B Processor remote MCC terminal,  
enter 1990 to obtain Dead Start  
page (1990)

[23] Enter 613 → **UAS:INTERFERING** colored  
white on red

[24] Enter 701 (SUSPEND) → **701 - SUSPEND** colored  
white on red

[25] Depress **EA DISP** key to  
obtain EAI page

[26] Enter 01 (HARD A) → All **FORCE FNCT** selections  
colored black on purple.  
All PC PROGRESSION states  
colored white on red

[27] In UCD window, using  
**SELECT** key on mouse,  
click on **UPDATE ALL**  
icon [FIG. 1] → **PCRVBOOT.AA+2**  
displayed in  
CAR field

[28] At 1A MTC terminal, form enter each input message  
per TABLE A. *DO NOT ENTER AT THIS TIME.*  
These messages may be used if backout is required

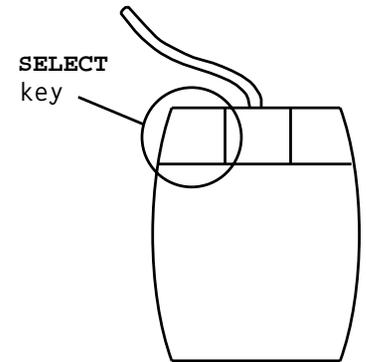
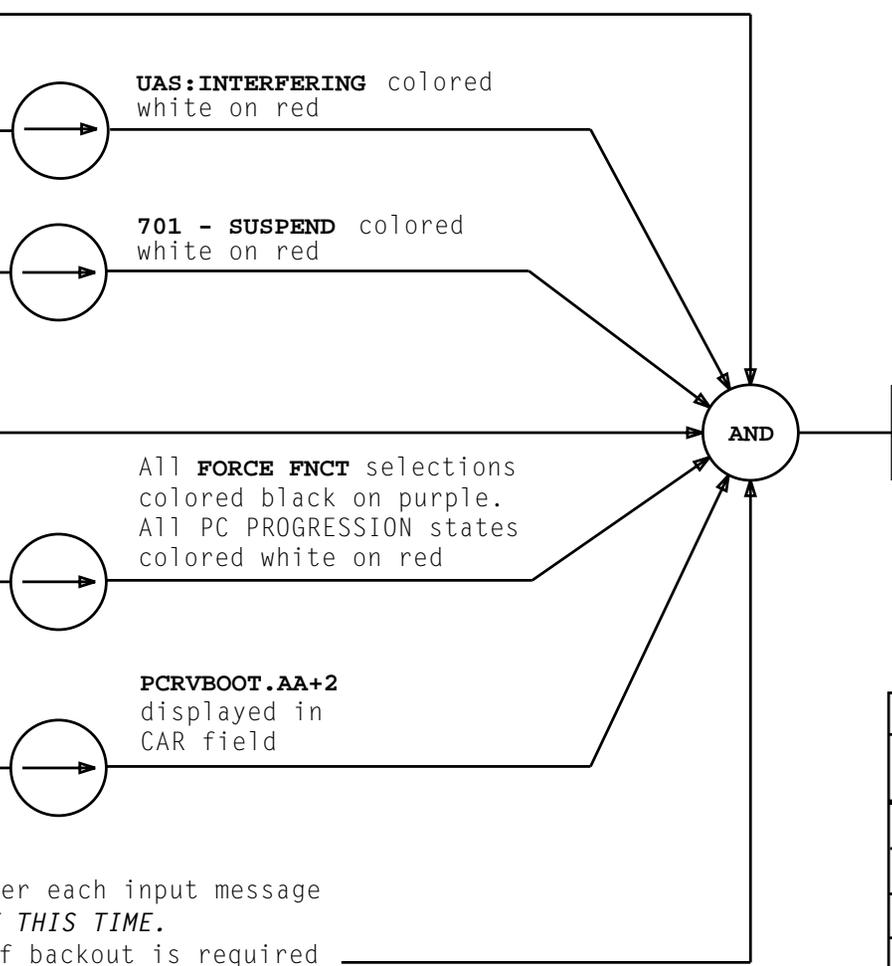


FIG. 1 - Mouse Layout

TABLE A	
MESSAGE NUMBER	INPUT MESSAGES
1	RST:AUB 0;UCL!
2	RST:API 0;UCL!
3	RST:AUB 1;UCL!
4	RST:API 1;UCL!
5	CLR:APS 0;DPLXFAIL!
6	OP:APSTATUS!

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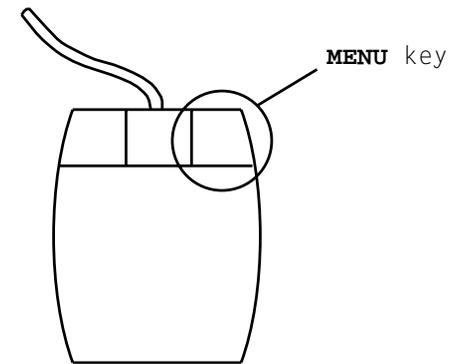
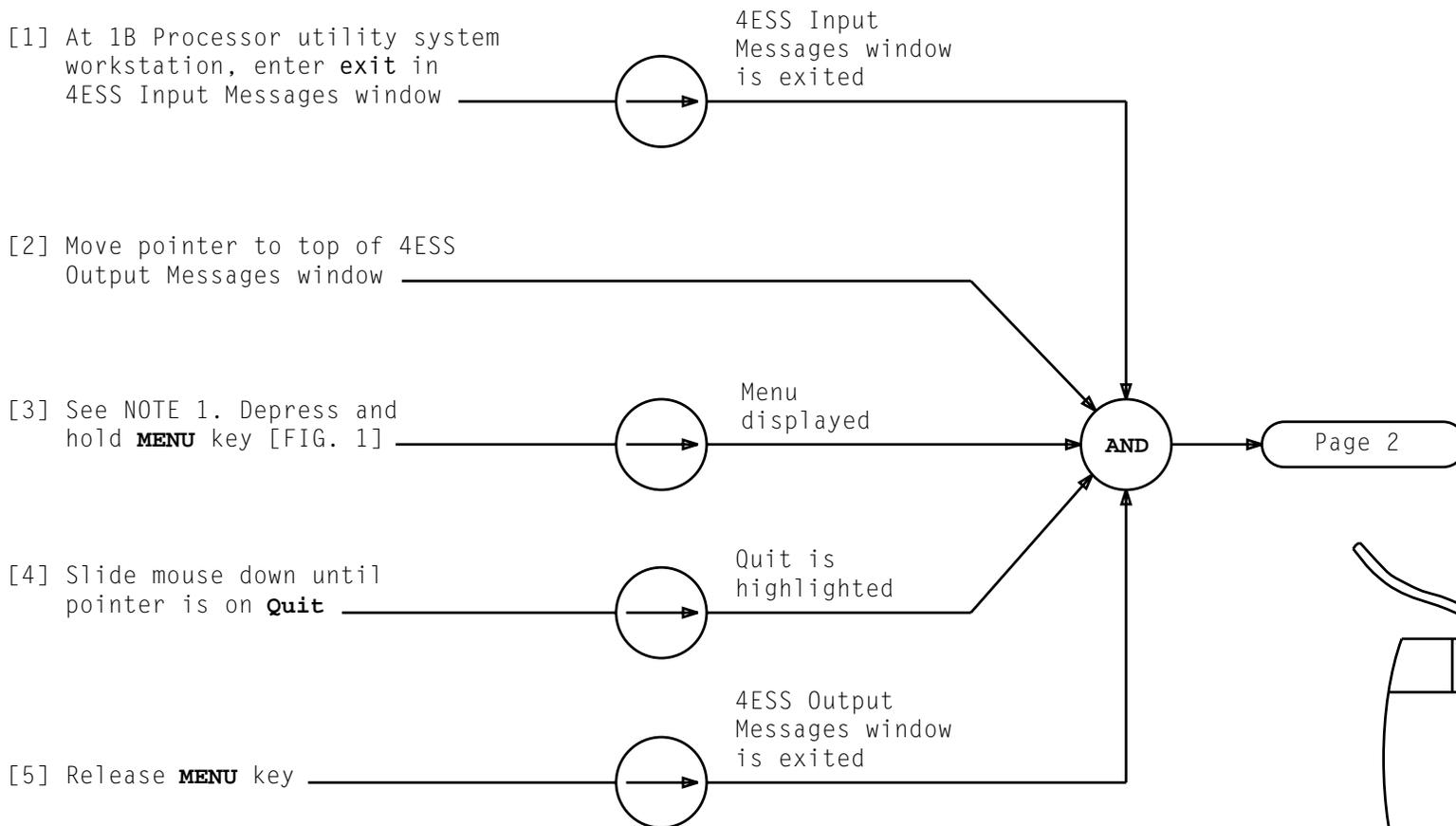


FIG. 1 - Mouse Layout

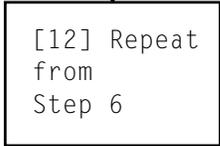
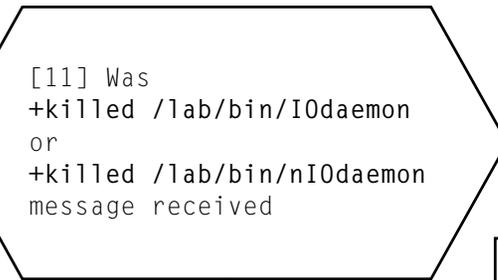
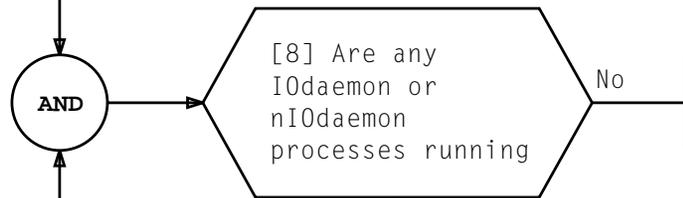
NOTE 1	
MENU key on mouse must be depressed and held for Steps 3 and 4	
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[6] At 1B Processor utility system workstation, enter  
`ps -aex | grep IOdaemon`  
 (see FIG. 2 for response)

[7] From response, determine if any IOdaemon or nIOdaemon processes are running (if only `grep IOdaemon` response is received, no processes are running) [FIG. 2]

[9] Using response and FIG. 2, determine PID for `/lab/bin/IOdaemon` or `/lab/bin/nIOdaemon` and record

[10] Enter `kill -9 dddd` (dddd = PID recorded in Step 9)



aaaa bb c `grep IOdaemon. . . . .` ← Disregard this line

dddd ee f `/lab/bin/nIOdaemon. . . . .`

└── Record this value (if received)  
 or

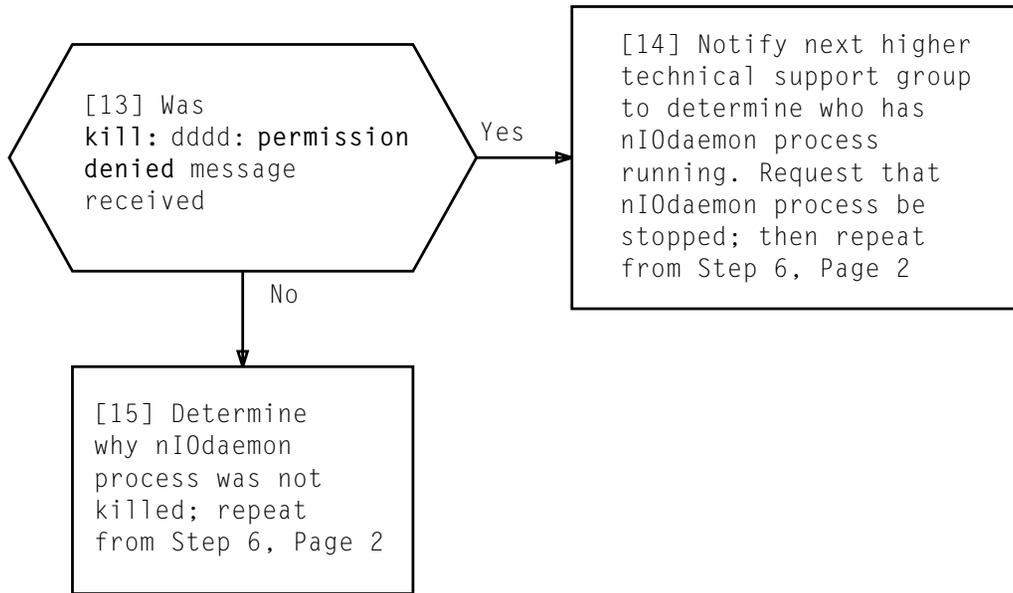
dddd ee f `/lab/bin/IOdaemon. . . . .`

└── Record this value (if received)

**FIG. 2 - PID Format**

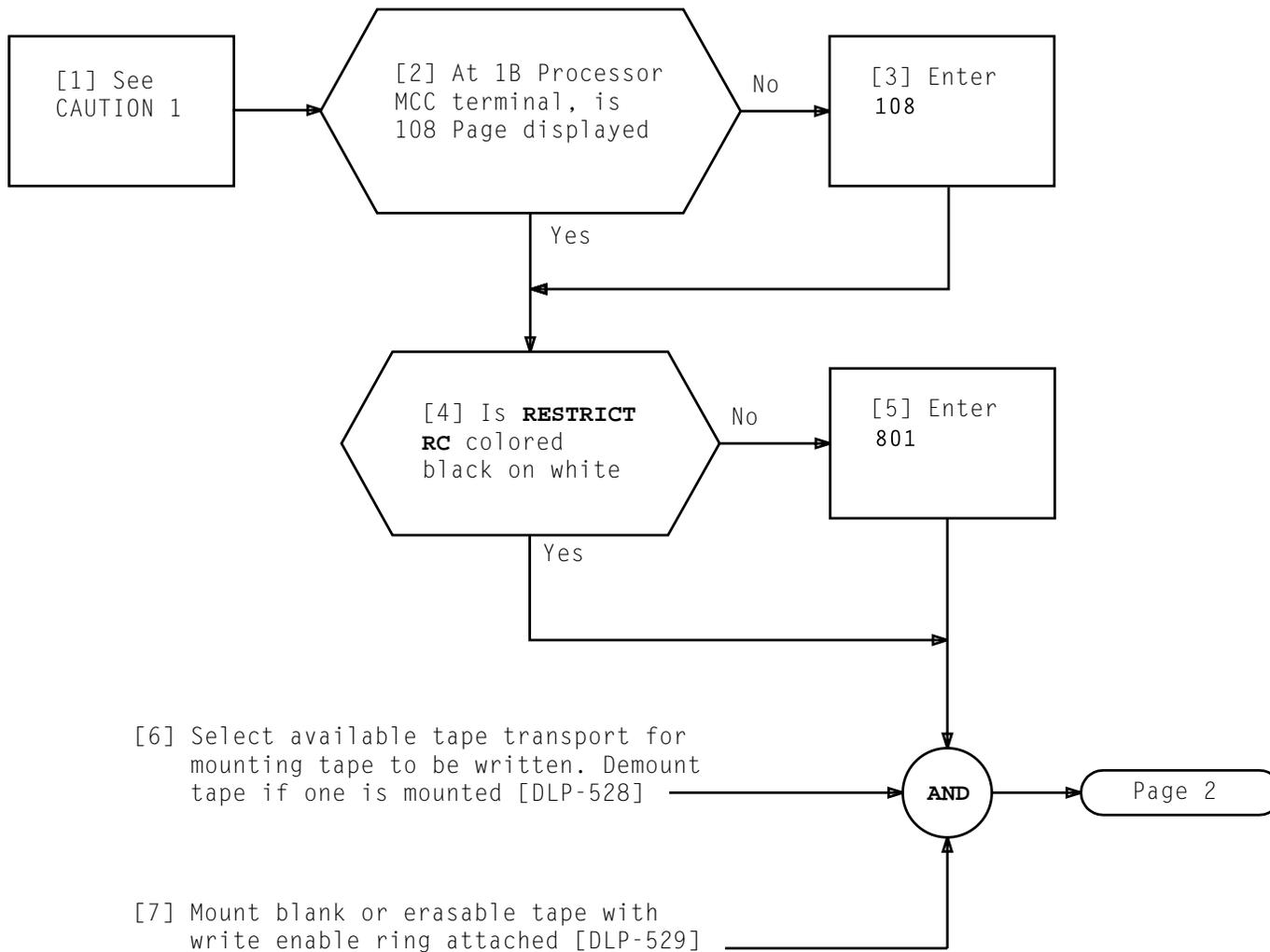
Page 3

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**EXIT I/O MESSAGE PROCESS**

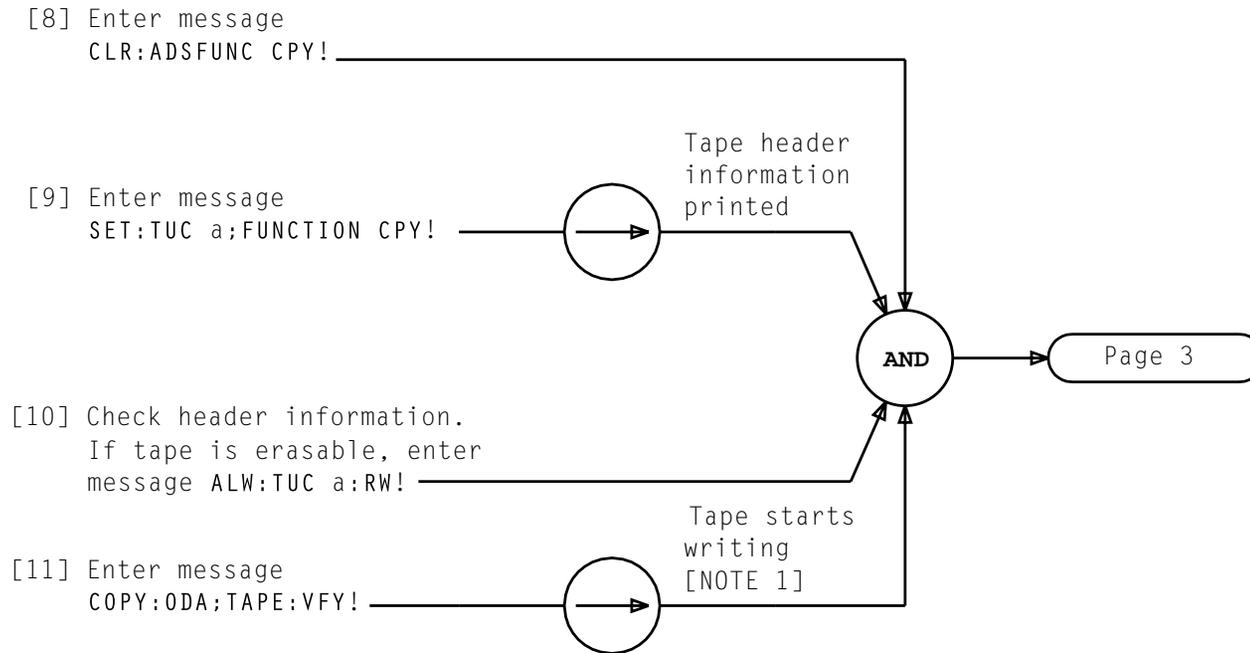
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*CAUTION 1*

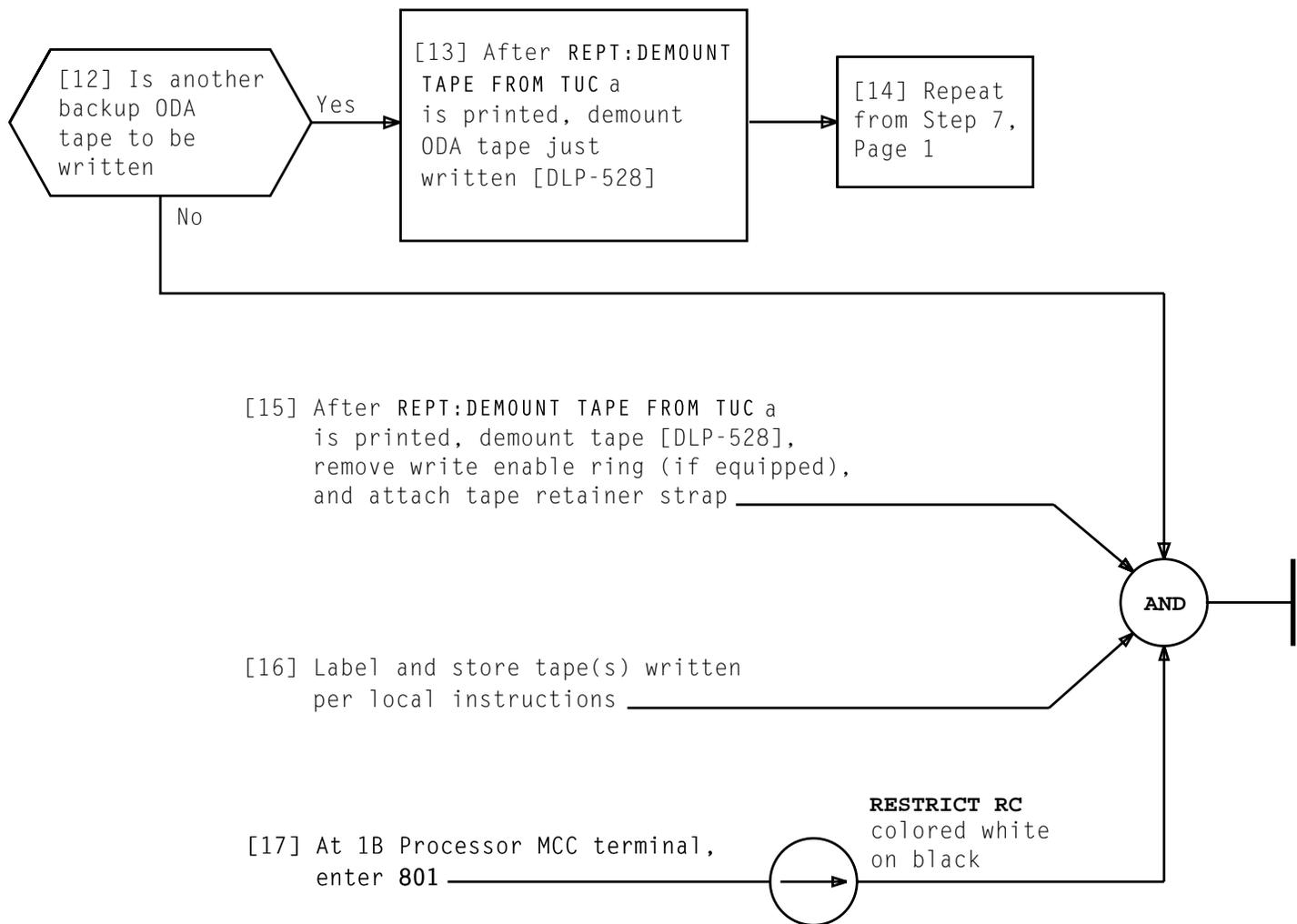
*Certain system audits are inhibited during tape writing; therefore, tape writing should be done during light traffic periods*

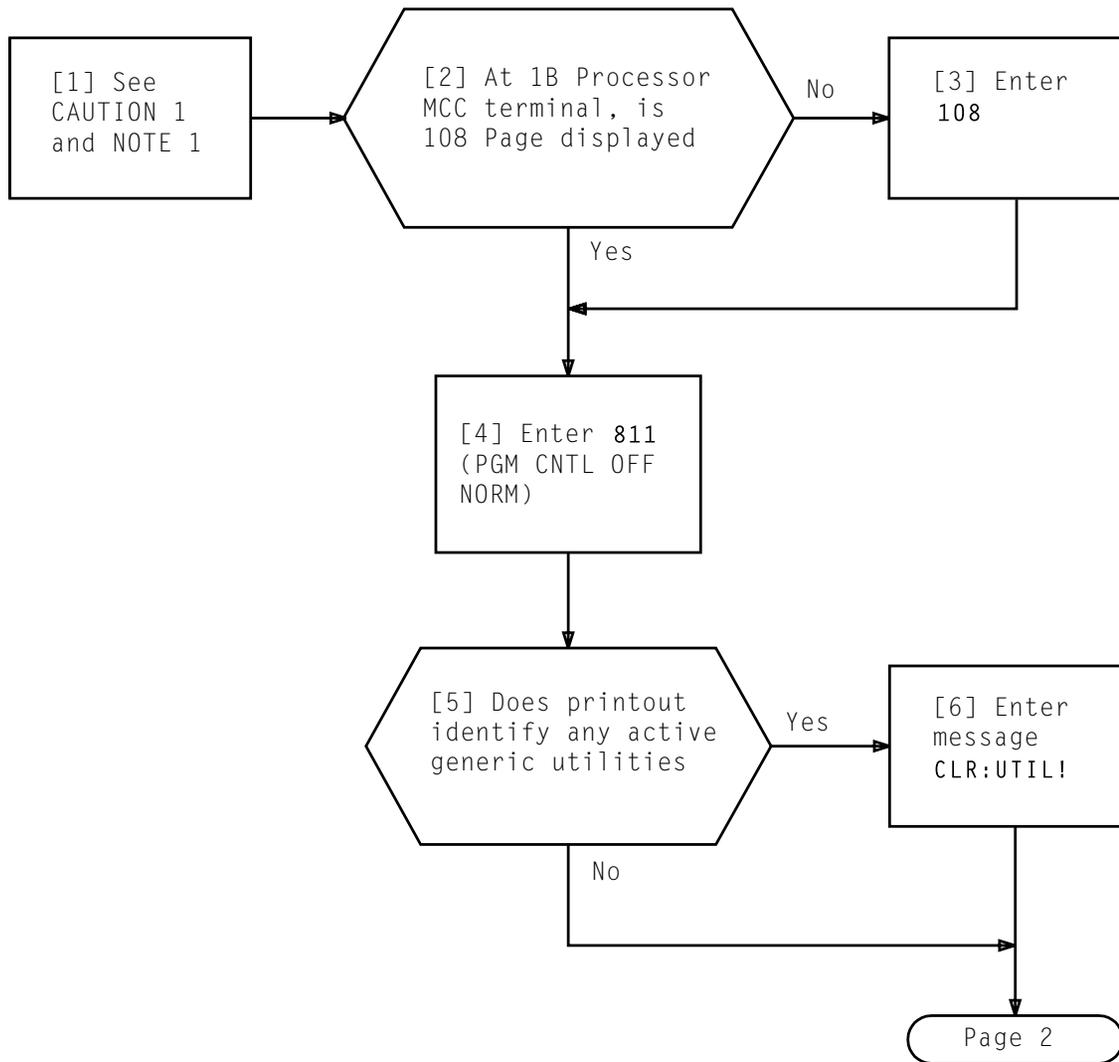
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NOTE 1  
 After ODA tape is written,  
 COPY:ODA;TAPE COMPL date  
 and time are printed.  
 Tape will then rewind and  
 be verified. After  
 verification has been  
 completed,  
 COPY:VFY;TAPE COMPL  
 is printed followed by  
 REPT:DEMOUNT TAPE FROM  
 TUC a

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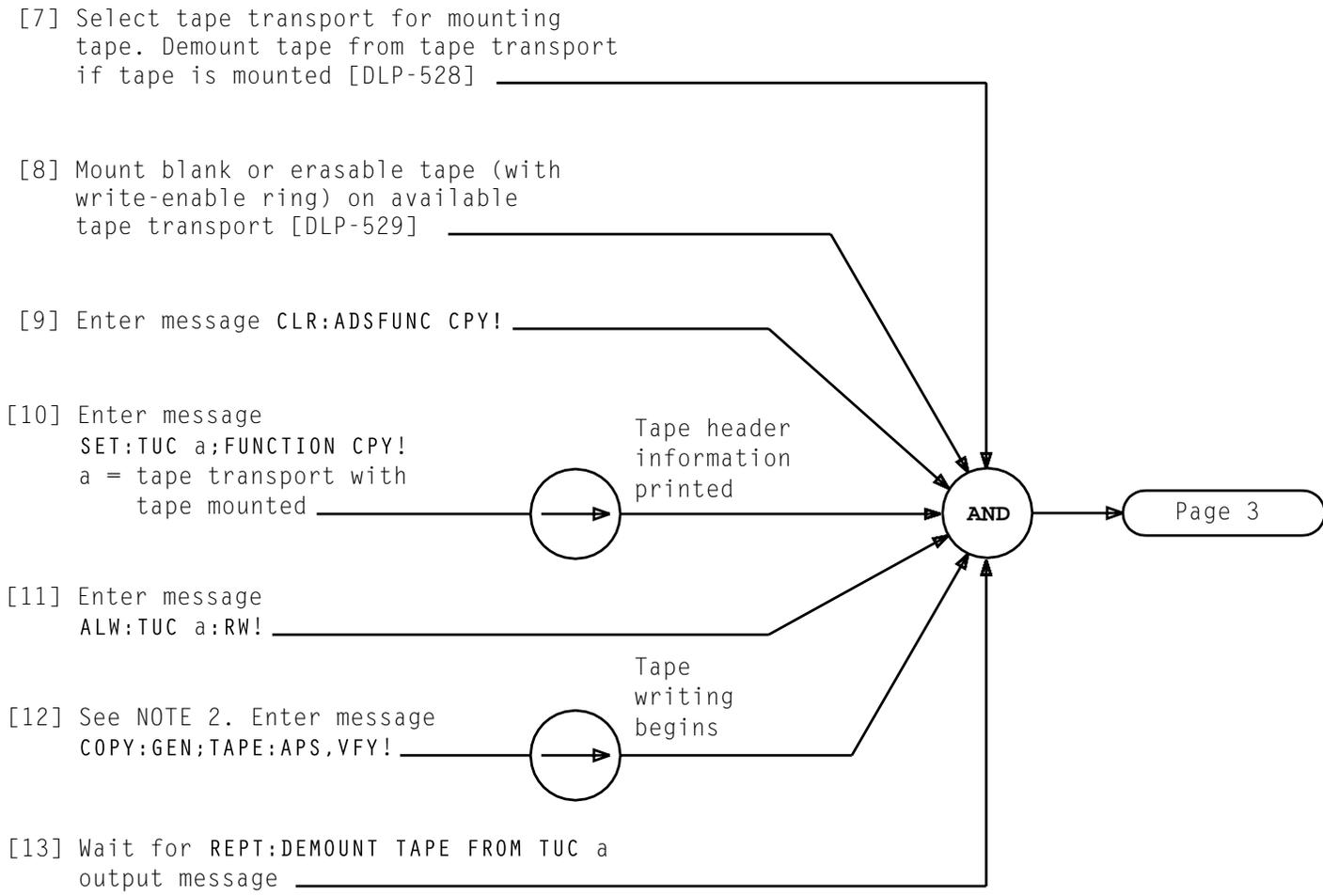




NOTE 1  
 If necessary, AT&T Practice 234-020-010 should be referenced to for tape storage requirements and procedures

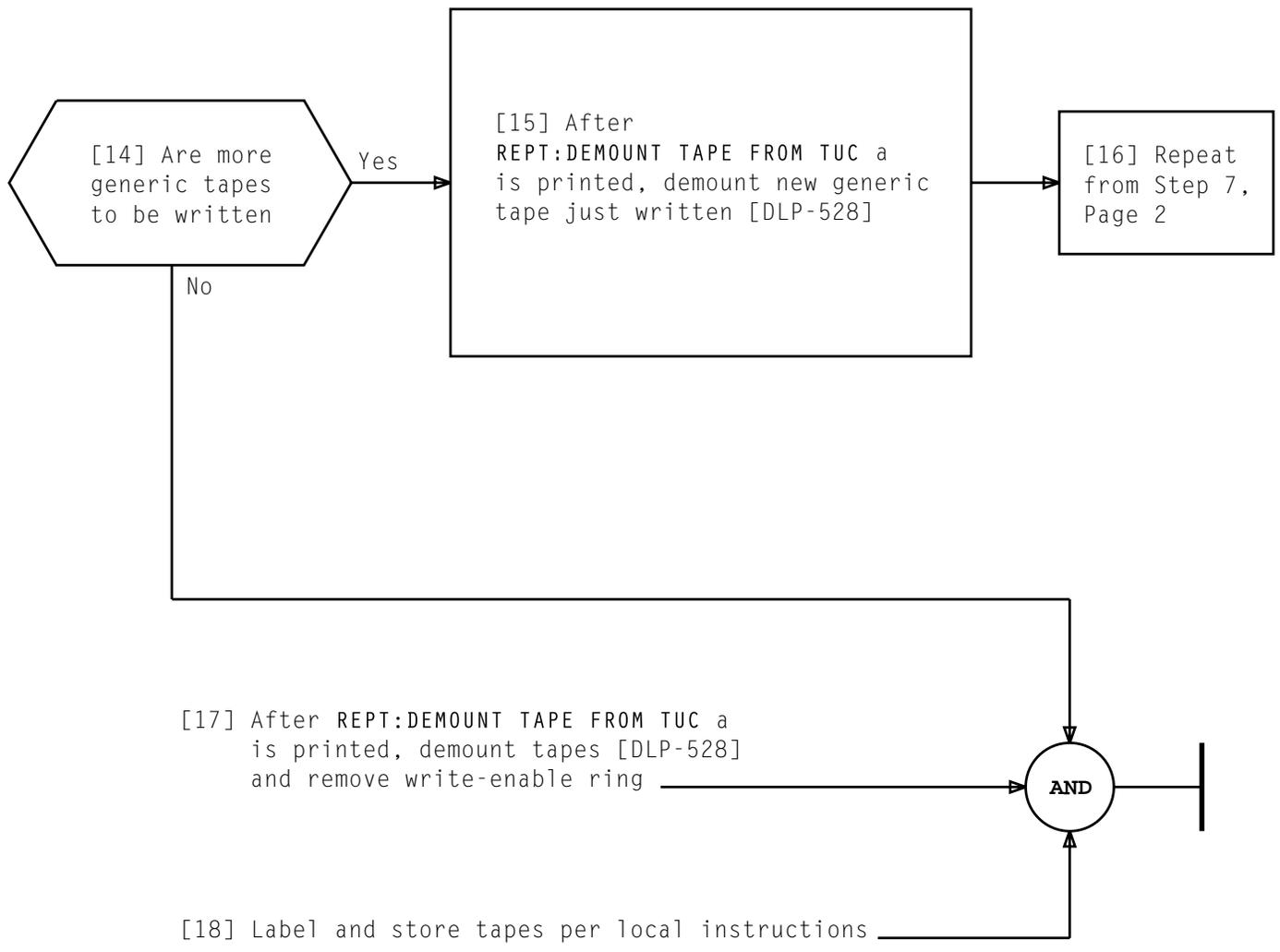
*CAUTION 1  
 Certain system audits are inhibited during tape writing; therefore, tape writing should be done during light traffic periods*

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NOTE 2  
 After generic tape is written, tape will rewind and be verified. After verification has been completed, REPT:DEMOUNT TAPE FROM TUC a message is received

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[1] At back of 1B Processor Cabinet 0,  
set UAS switch to **UTIL ALW**

[2] At back of 1B Processor Cabinet 1,  
set UAS switch to **UTIL ALW**

[3] At 1B Processor MCC terminal,  
enter **106** to obtain MUP  
Status Page (106)

[4] Determine if **STATUS** section  
displays **INTF HW ENABLED**

[7] Enter **613**  
(UAS INTF ALW)

[8] Under **UAS MODE** field,  
determine if  
**UAS : INTERFERING**  
is colored white  
on red

[5] Is  
**INTF HW ENABLED**  
displayed

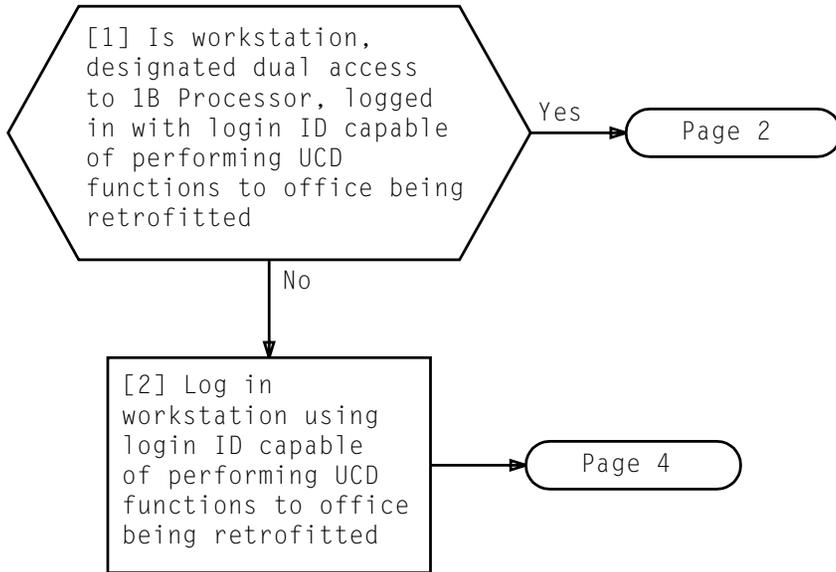
[6] Determine  
cause and  
resolve; repeat  
from Step 5

[9] Is  
**UAS : INTERFERING**  
colored white  
on red

[10] Determine  
cause and  
resolve; repeat  
from Step 7

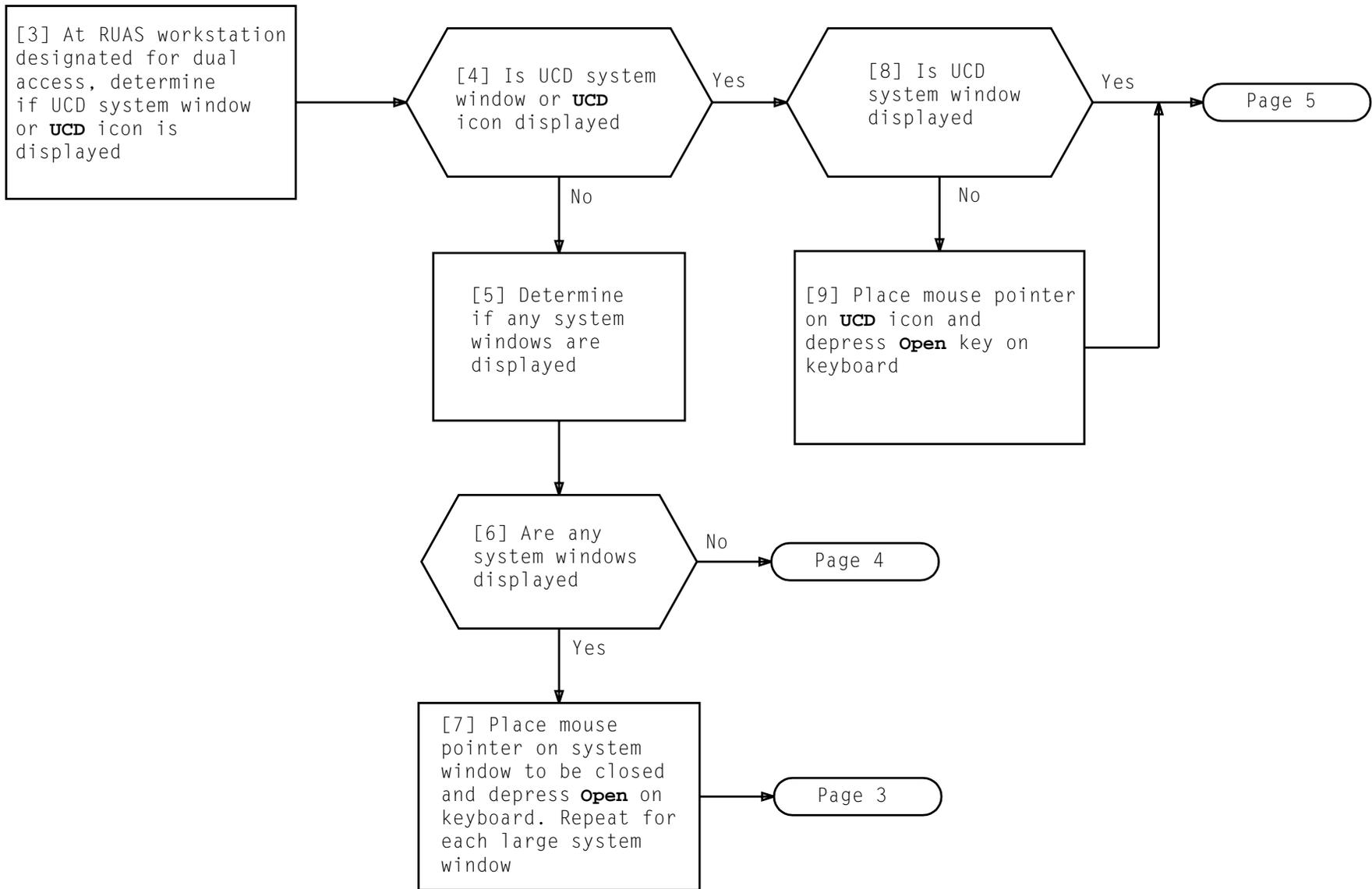
## ALLOW UTILITY INTERFERING ACTIONS

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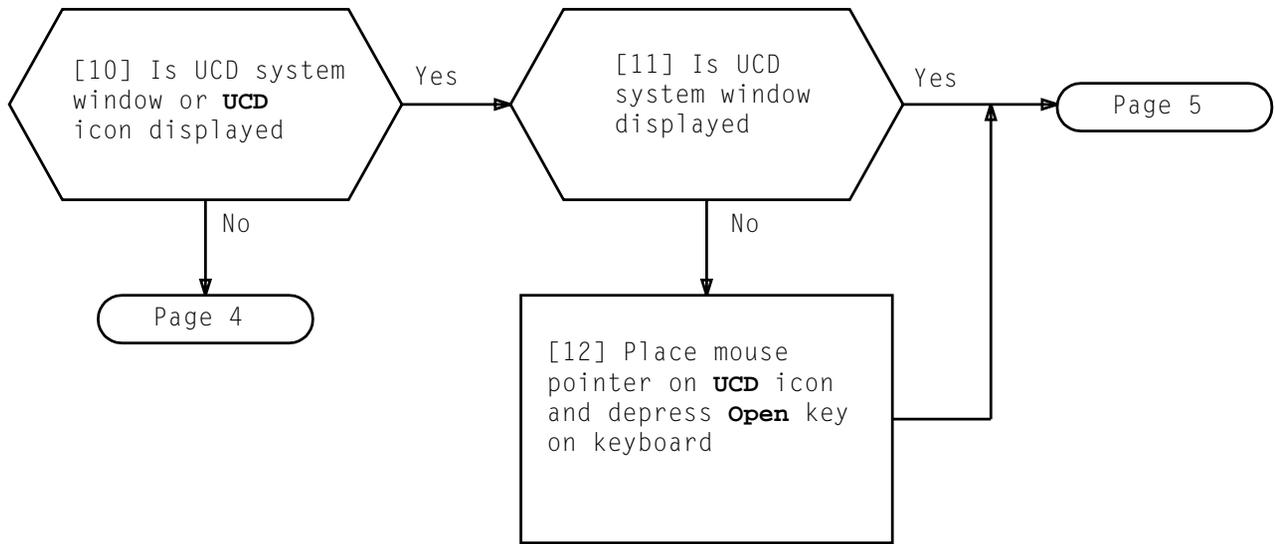
**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**

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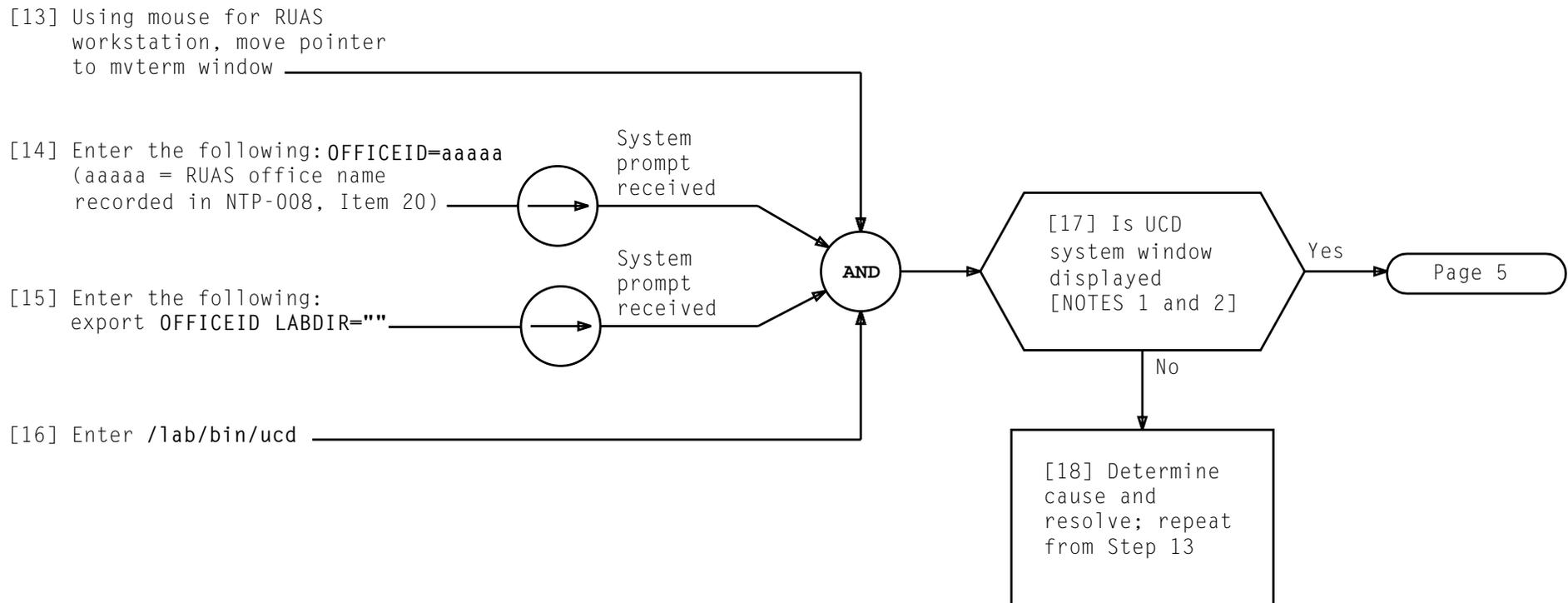
**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**

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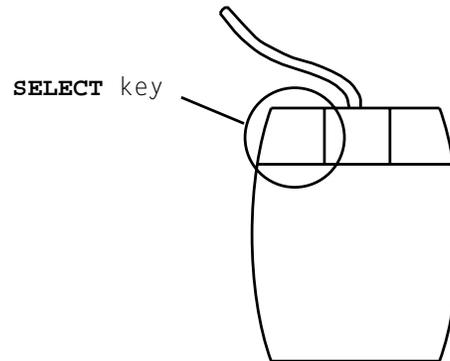
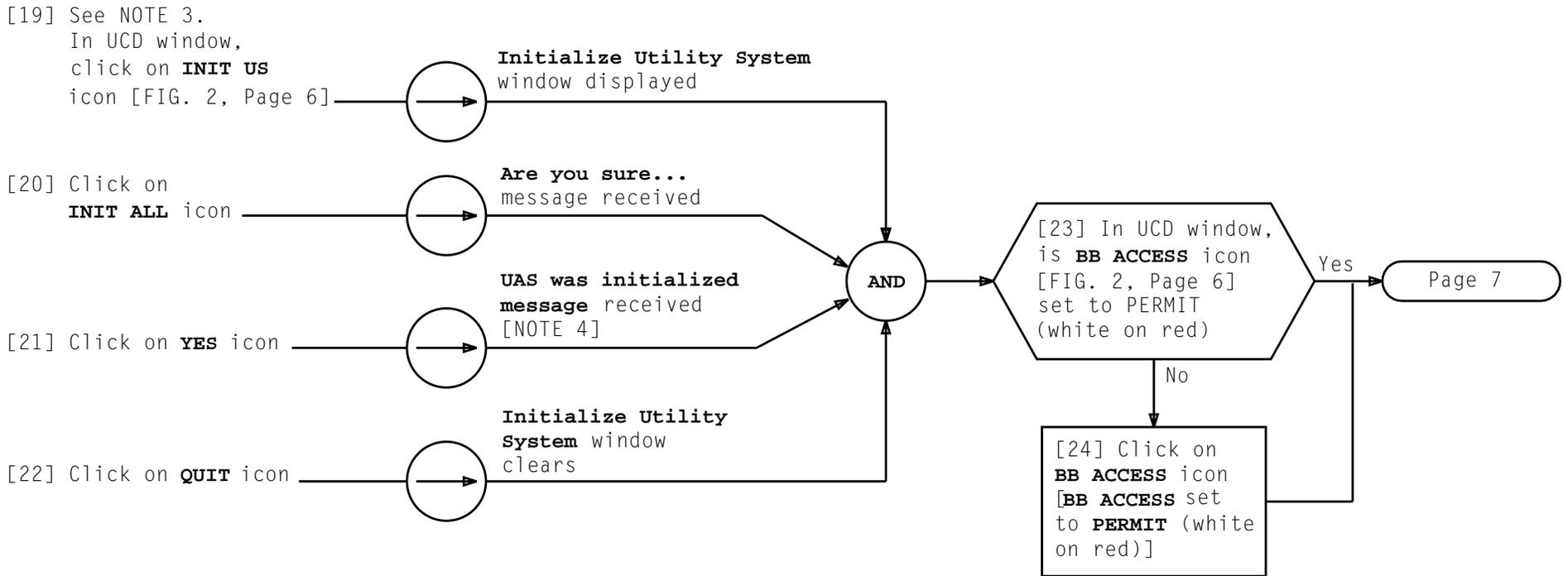
SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP

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NOTES	
1. It will take a short time before UCD window is received	
2. <b>OFFICEID</b> field on first line of UCD screen should be set to office ID set in Step 14	
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SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP



**FIG. 1 - Mouse Layout**

NOTES	
3. Use <b>SELECT</b> key on mouse to click for Steps 19 through 22 and 24 [FIG. 1]	
4. It will take short time before response is received	
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**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**

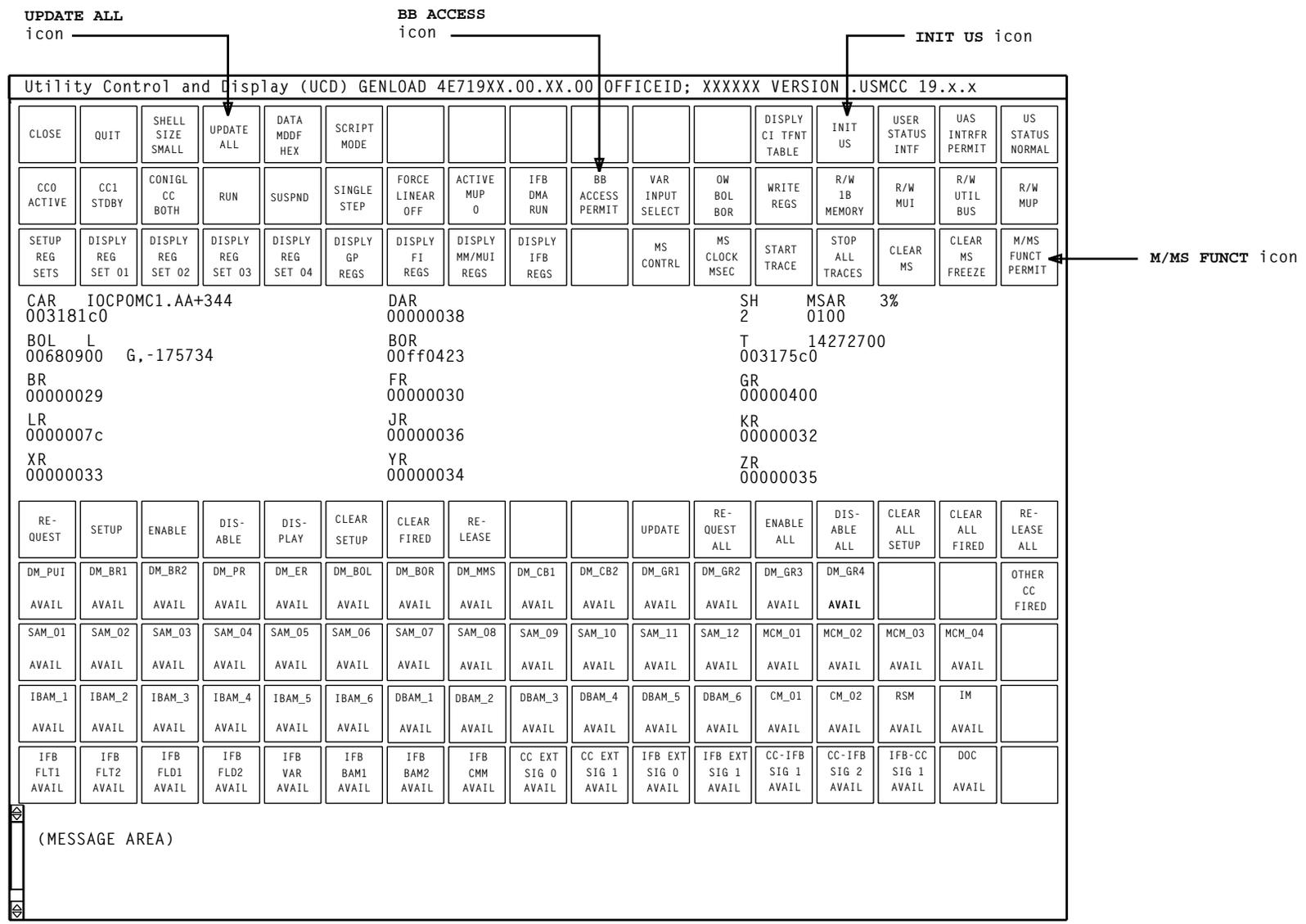
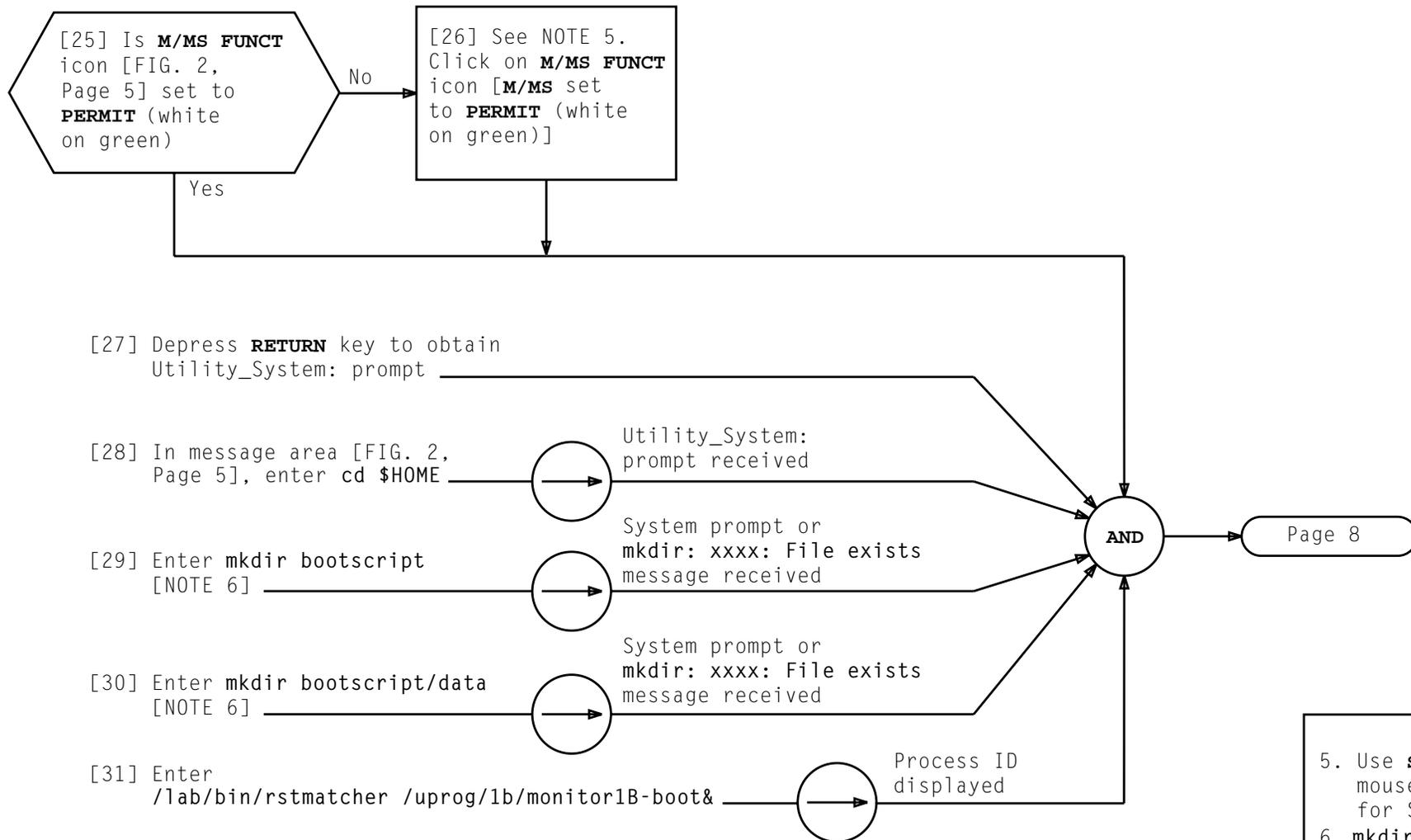


FIG. 2 - Unit and Control Display Window

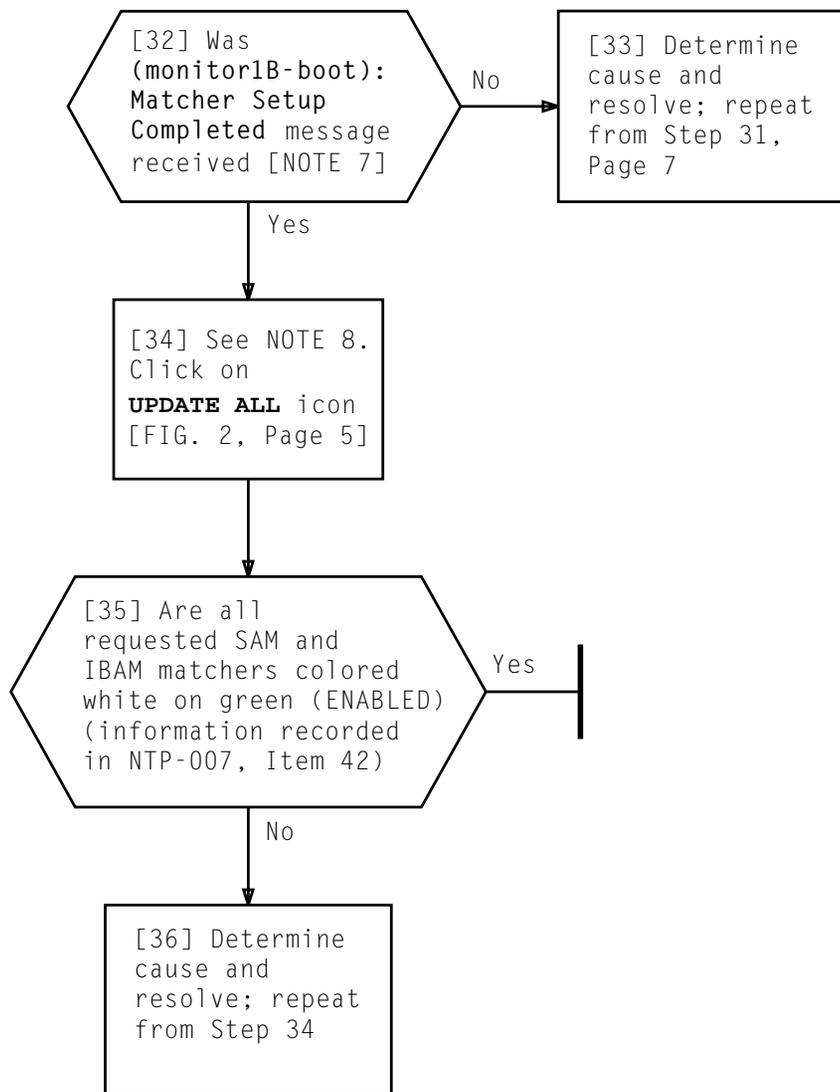
SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP

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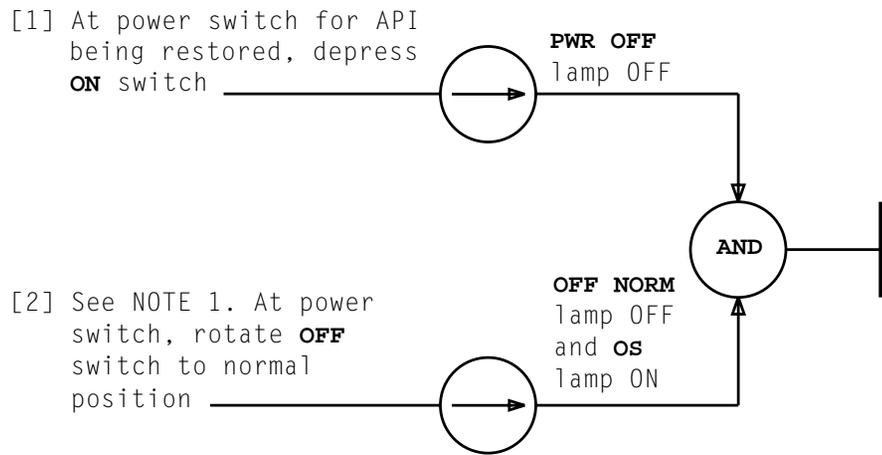
NOTES	
5. Use <b>SELECT</b> key on mouse to click for Step 26	
6. mkdir: xxxx: File exists message may be received. This is a valid response since directory is already created	
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**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**



NOTES	
7. It will take a short time for response to be received	
8. Use <b>SELECT</b> key on mouse to click for Step 34	
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**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**



NOTE 1	
Operation of <b>OFF</b> switch will cause diagnostic to be run	
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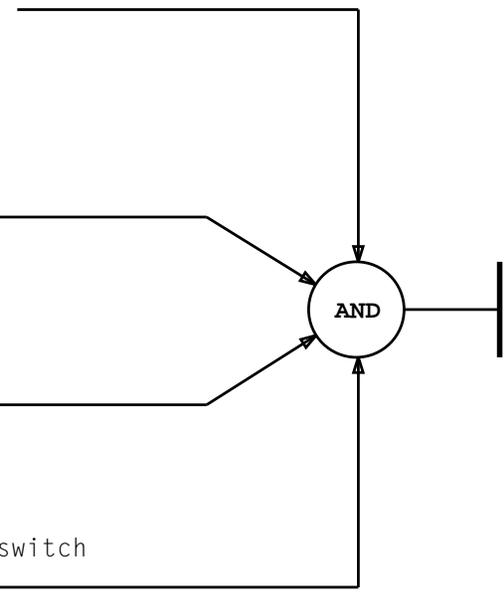
**RESTORE POWER TO API USING POWER SWITCH**

[1] At power switch being power cycled, rotate **ROS/OFF** switch clockwise to **ROS**

[2] Depress **ROS/OFF** switch

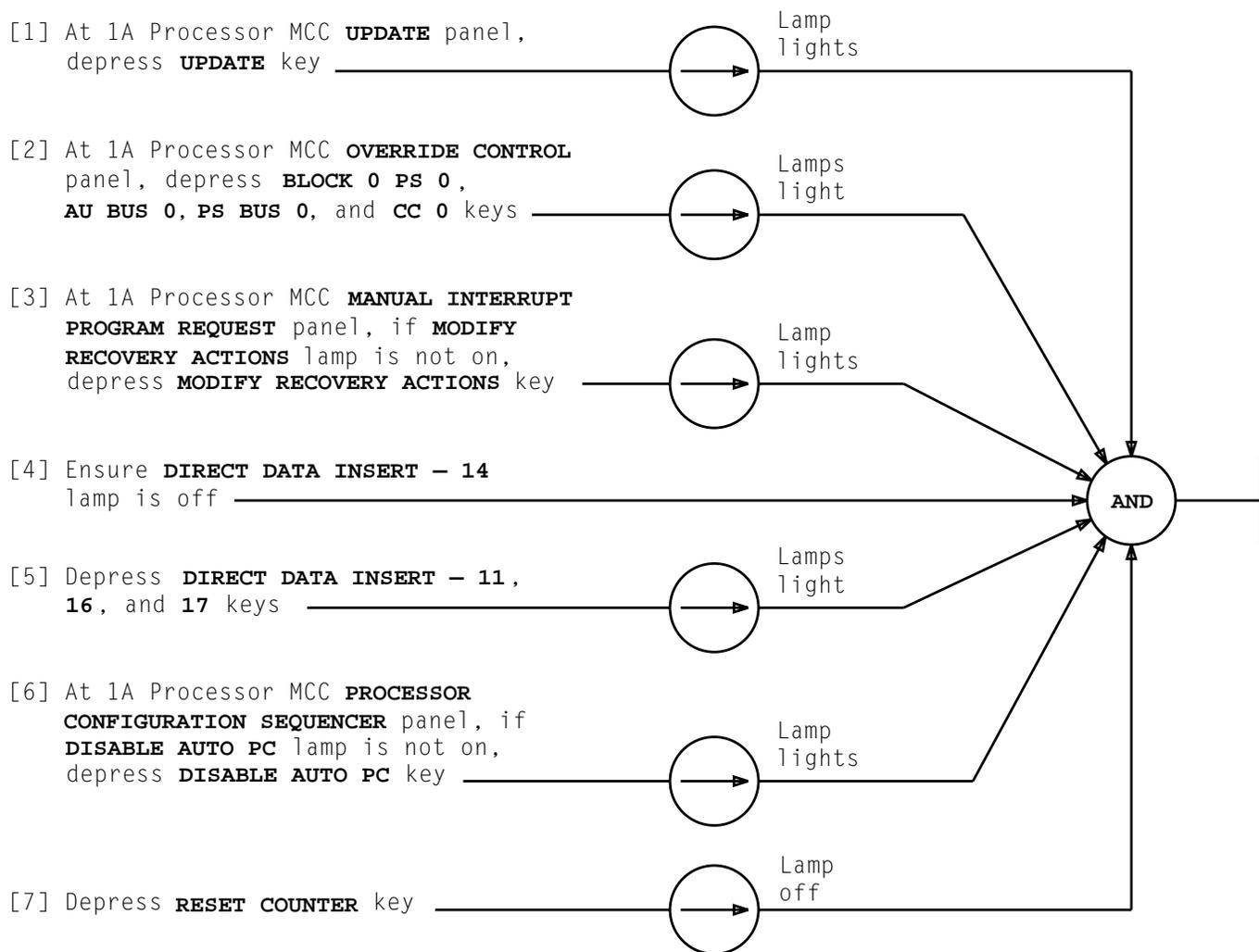
[3] Depress **ON** switch

[4] See NOTE 1. Rotate **OFF** switch to normal position



## POWER CYCLE UNIT

NOTE 1	
Operation of <b>OFF</b> switch will cause diagnostic to be run	
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**PREPARE 1A PROCESSOR MCC PANEL TO BACK-OUT TO  
1A PROCESSOR AFTER UPD:COMMIT;UPDFILE MESSAGE ENTERED**

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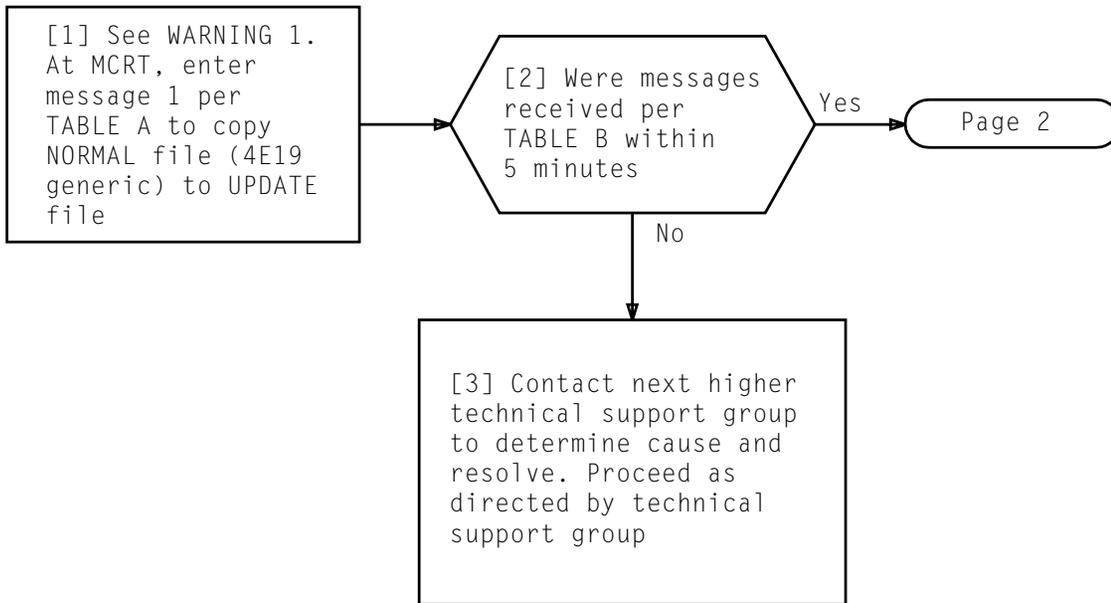


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	COPY:APPFIL NORM;UCL!

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/lafileX /dev/lafileY 65536 >/dev/null STARTED COPY:APPFIL COMPLETED

<i>WARNING 1</i> <i>Care must be taken to ensure proper message is entered to prevent service interruption</i>	
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**COMMIT TO 1B PROCESSOR**

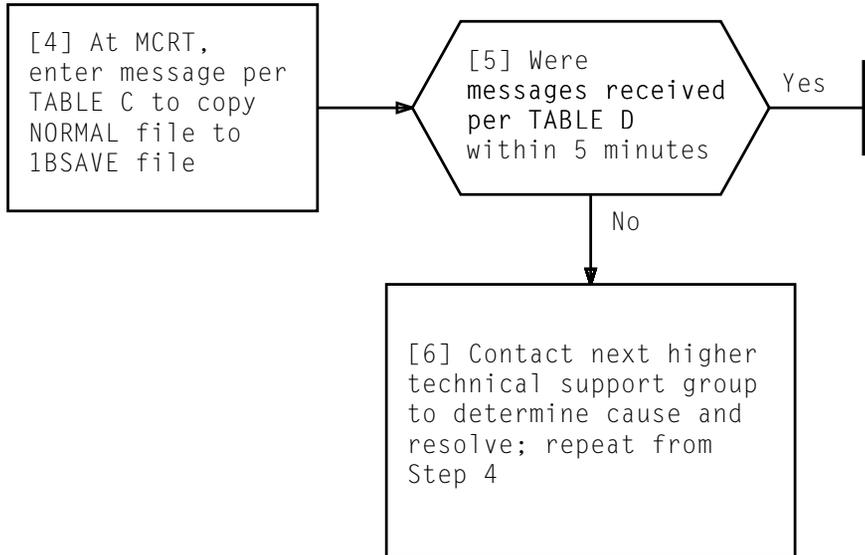


TABLE C	
MESSAGE NUMBER	INPUT MESSAGE
1	COPY:APPPFILE NORM:DEST 1BSAVE!

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/lafileX /dev/lbextra 65536 >/dev/null STARTED COPY:APPPFILE COMPLETED

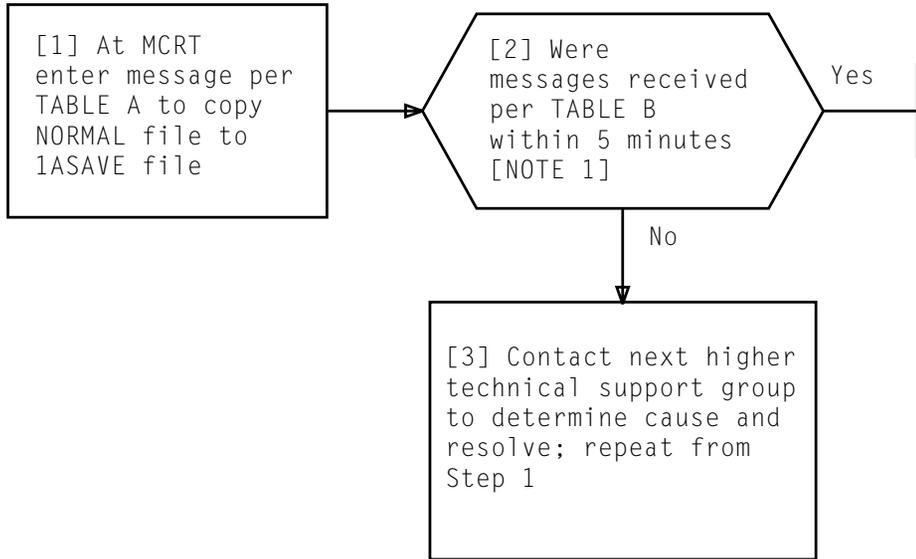


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	COPY:APPFIL NORM:DEST 1ASAVE!

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/lafileX /dev/lafile.save 65536 >/dev/null STARTED COPY:APPFIL COMPLETED

NOTE 1	
It may take longer than 5 minutes to copy NORMAL file to 1ASAVE file if office has heavy call load	
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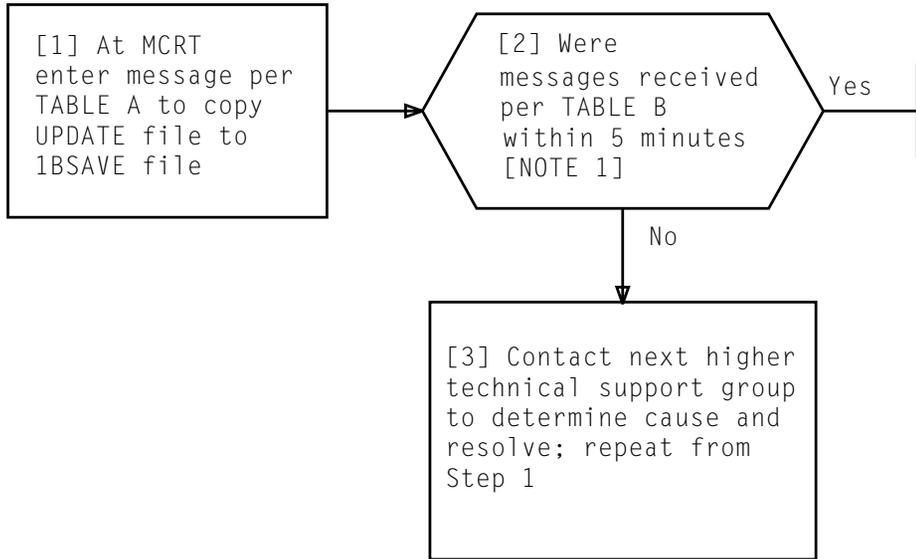


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	COPY:APPFILE UPD:DEST 1BSAVE!

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/lafileX /dev/lbextra 65536 >/dev/null STARTED COPY:APPFILE COMPLETED

NOTE 1 It may take longer than 5 minutes to copy UPDATE file to 1BSAVE file if office has heavy call load	
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[1] At back of 1B Processor Cabinet 0,  
set **UAS** switch to **UTIL INH**

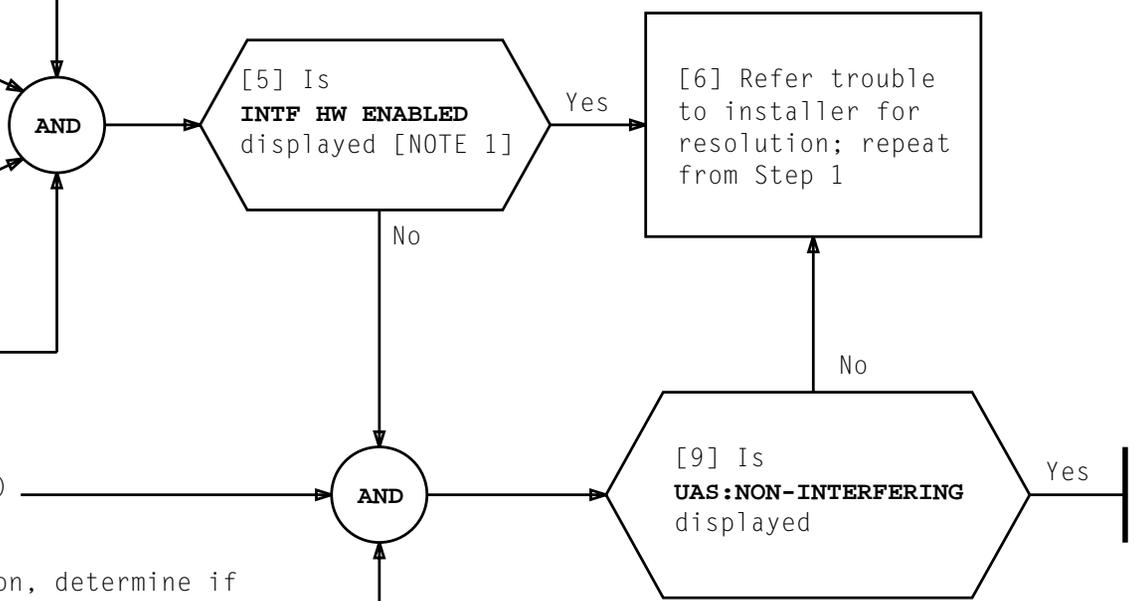
[2] At back of 1B Processor Cabinet 1,  
set **UAS** switch to **UTIL INH**

[3] At 1B Processor MCC terminal,  
enter **106** to obtain MUP Status  
and Control Page (106)

[4] At bottom left of 106 Page,  
determine if **INTF HW ENABLED**  
is displayed

[7] Enter **612**  
(UAS NON-INTF ALW)

[8] In UAS MODE section, determine if  
**UAS: NON-INTERFERING**  
is displayed



NOTE 1	
Normal indication when <b>INTF HW ENABLED</b> not displayed	
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**SET MUP TO NON-INTERFERING**

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

[2] Using printout, determine  
one program store set to  
K-code 20 that is to be  
set to K-code 24

[3] Using printout, determine  
PC program store set to  
K-code 24

[4] At MTC terminal, enter  
message RMV:PS a!  
a = PS determined in  
Step 2

AND

[5] Was  
RMV: PS a COMPLETED  
output message  
received

No

[6] Determine  
cause and  
resolve; repeat  
from Step 3

Yes

[7] Enter message  
SET:PS a;KCODE 20!  
a = PC PS set to  
K-code 24  
(Step 3)

[8] See NOTE 1. Was  
RST: PS a KCODE 20  
COMPLETED output  
message received

Yes

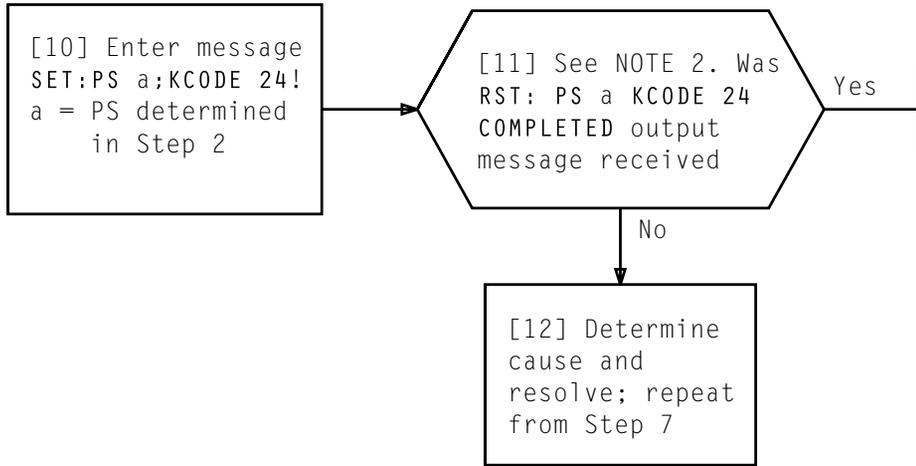
Page 2

No

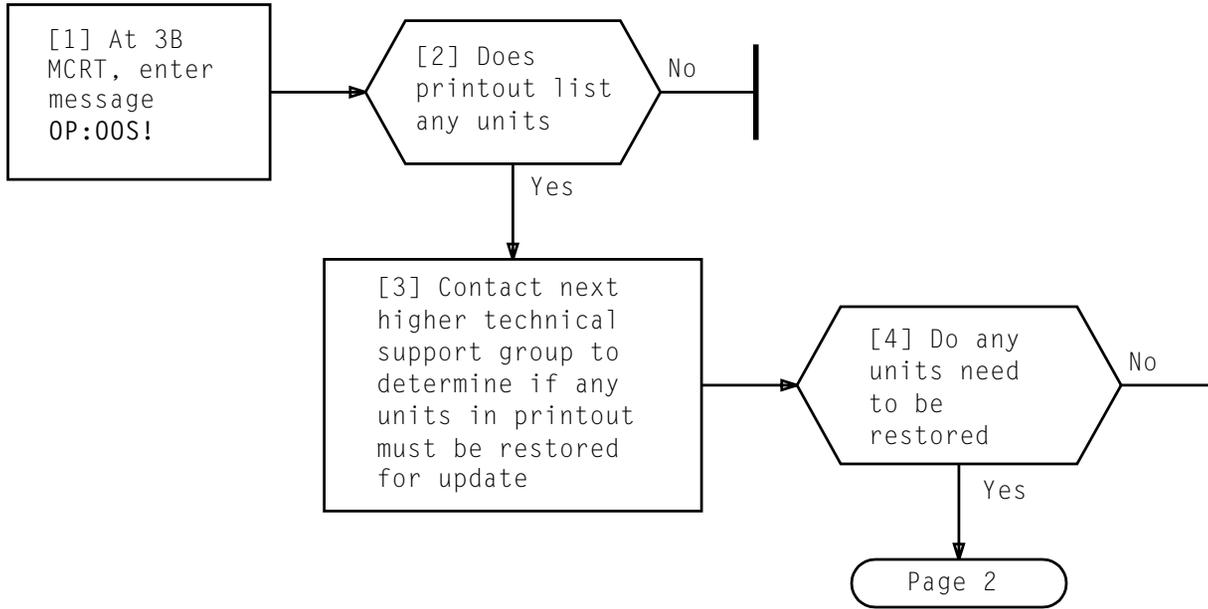
[9] Determine  
cause and  
resolve; repeat  
from Step 7

NOTE 1	
CATP bit 15 will be received if standby CC is out-of-service	
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**CONFIGURE PS TO K-CODE AFTER INITIAL SETTING**



NOTE 2	
CATP bit 15 will be received if standby CC is out-of-service	
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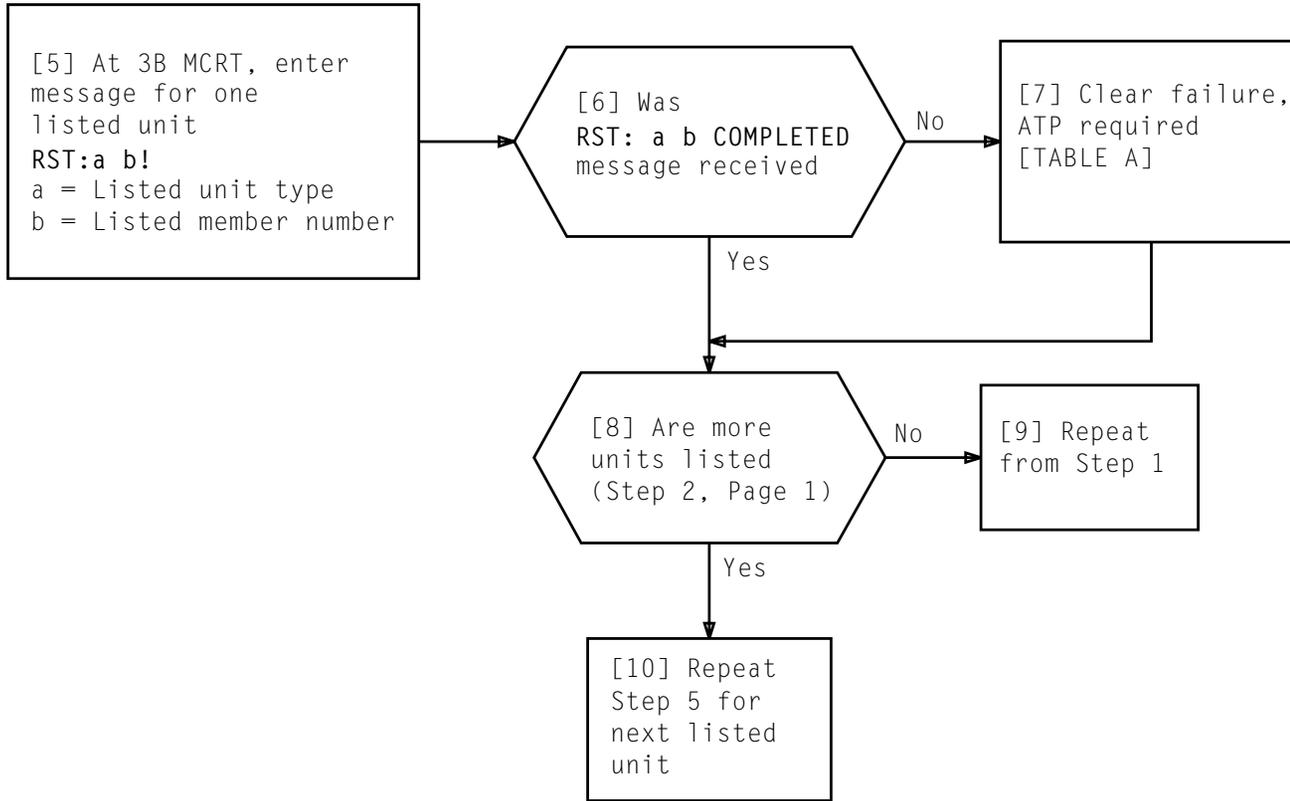


TABLE A	
UNIT TYPE	TROUBLE-CLEARING VOLUME
3B Computer Model 1	254-301-812 254-301-813
3B Computer Model 2/3	254-302-812

[1] At 3B MCRT, if EAI page is not displayed,  
depress **EA DISP (PF1)** key

[2] Enter 42 in  
command mode

**PARAMETER:**  
displayed

[3] Enter M (Capital M)  
in command mode

**OK**  
acknowledgement  
received

[4] Enter 50 in command mode to  
turn off 3B throttling of user-  
level processes requests

**OK**  
acknowledgement  
received

[5] Enter message  
**COPY:APPFILE NORM:DEST 1BSAVE!**  
to copy NORMAL file to 1BSAVE file

**AND**

[6] Were messages  
received per  
TABLE A within  
5 minutes

Yes

Page 2

No

[7] Contact next  
higher technical  
support group to  
determine cause and  
resolve; repeat from  
Step 5

**TABLE A**

MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/lfileX /dev/lbextra 65536 >/dev/null STARTED COPY:APPFILE COMPLETED

**PREPARE TO BACKOUT TO 1A PROCESSOR AFTER COMMITTING TO 1B  
PROCESSOR**

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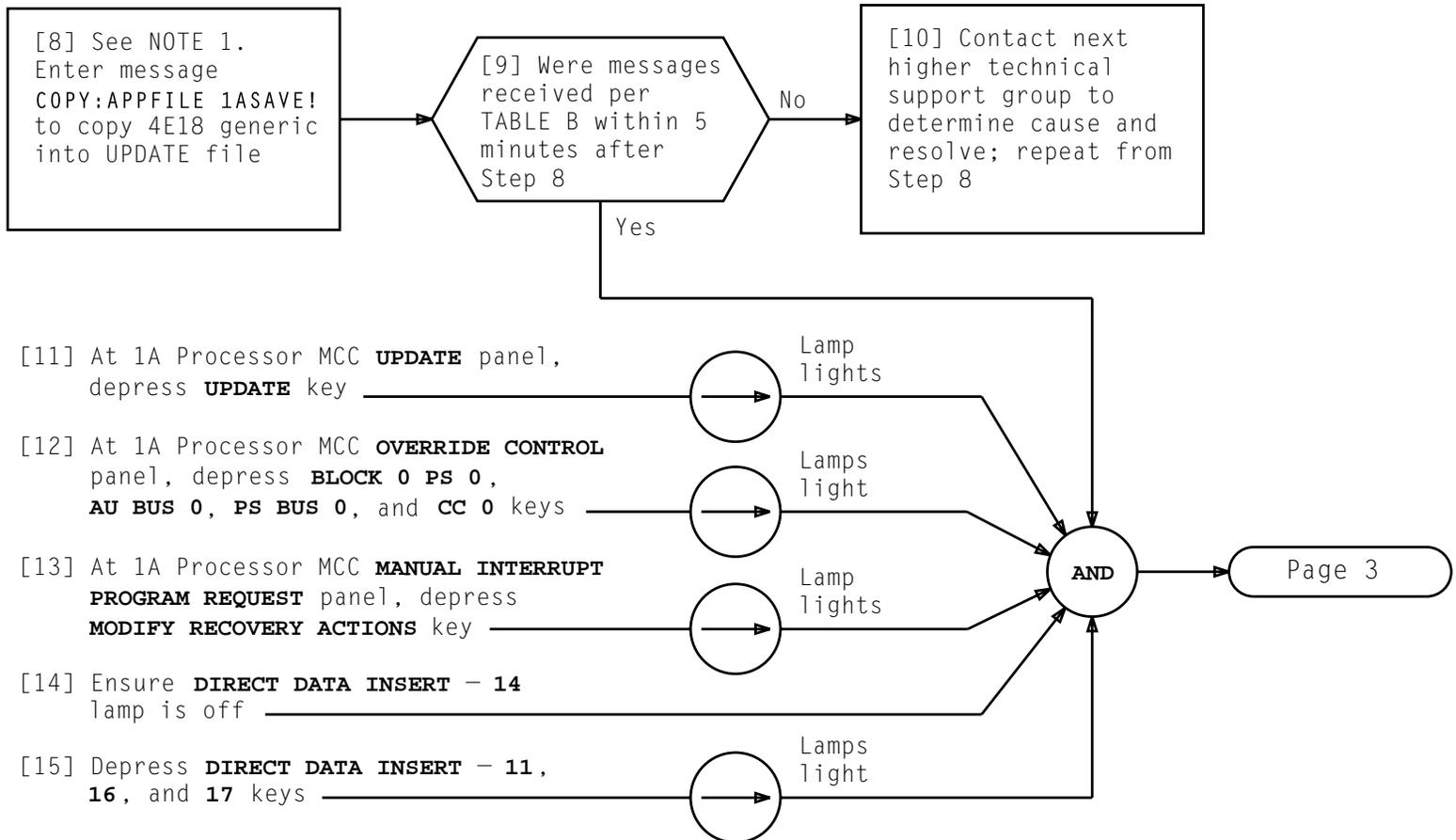
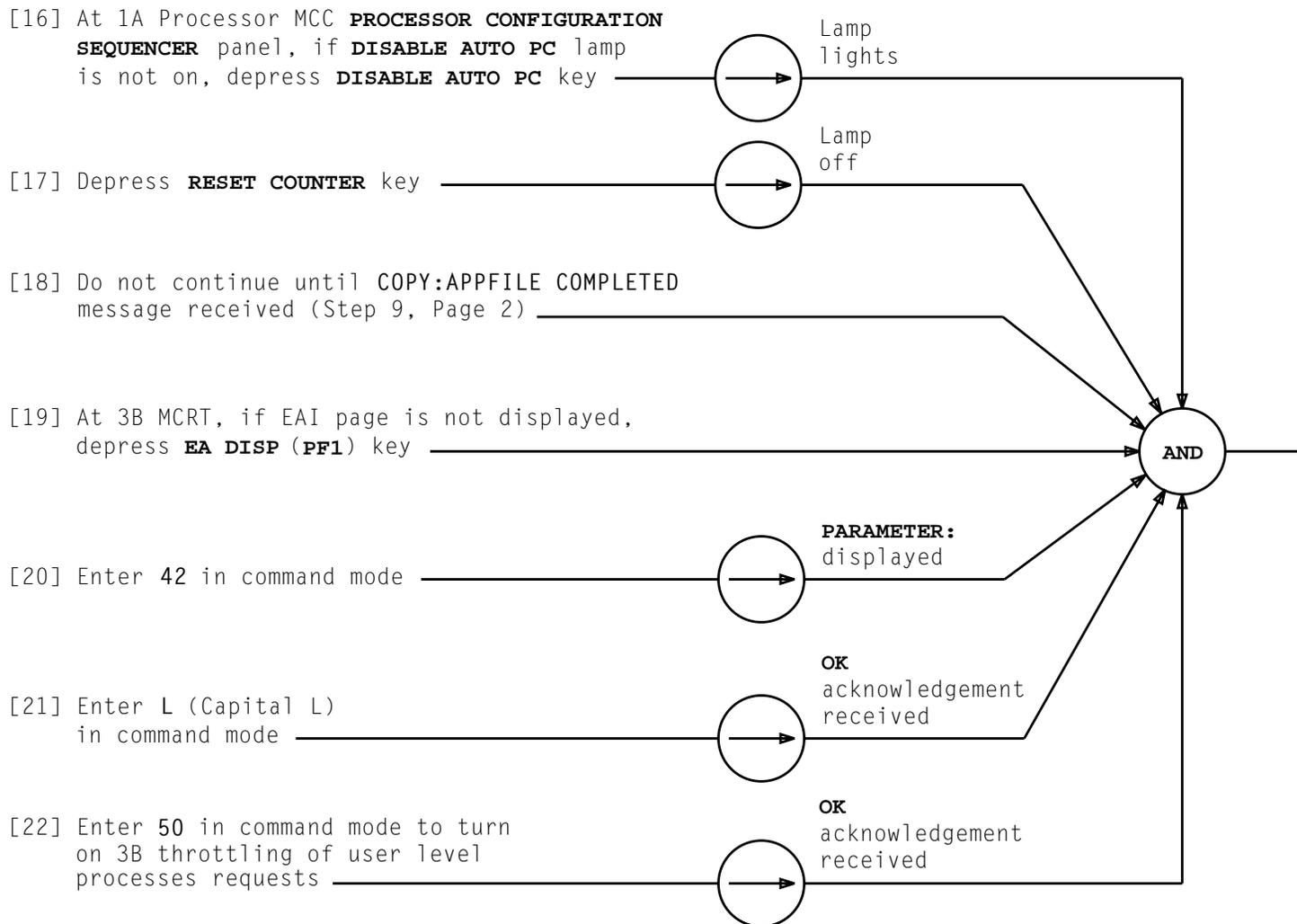


TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGES
1	/etc/vcp /dev/1afile.save /dev/1afileX 65536 >/dev/null STARTED COPY:APPFIL COMPLETED

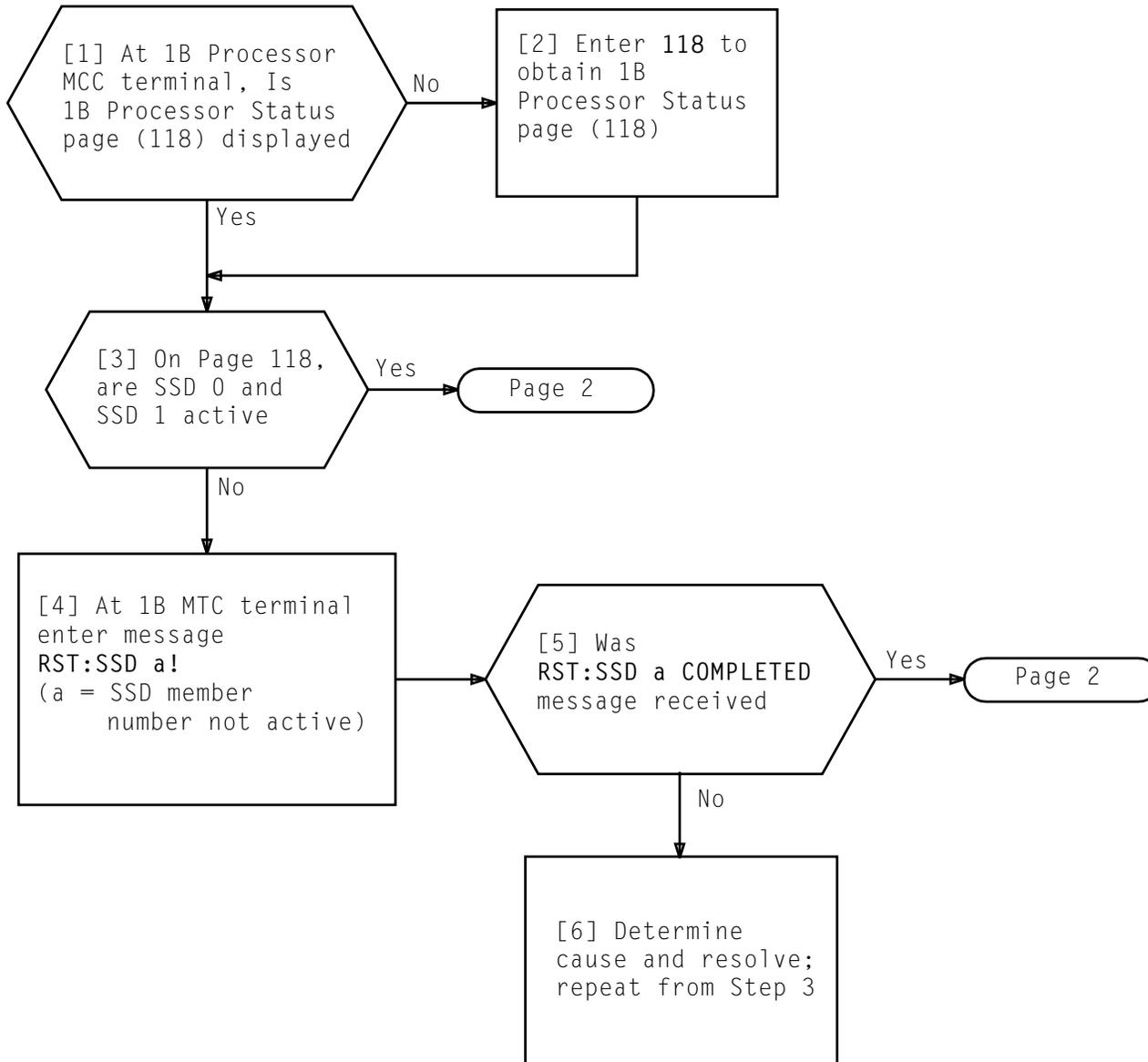
NOTE 1 While waiting for COPY to complete, Steps 11 through 16 can be performed	
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**PREPARE TO BACK-OUT TO 1A PROCESSOR AFTER COMMITTING TO 1B PROCESSOR**



**PREPARE TO BACKOUT TO 1A PROCESSOR AFTER COMMITTING TO 1B PROCESSOR**

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[7] See NOTE 1. At MTC or SREC channel, enter message per TABLE B, Page 3 for one equipped unit/frame in TABLE A

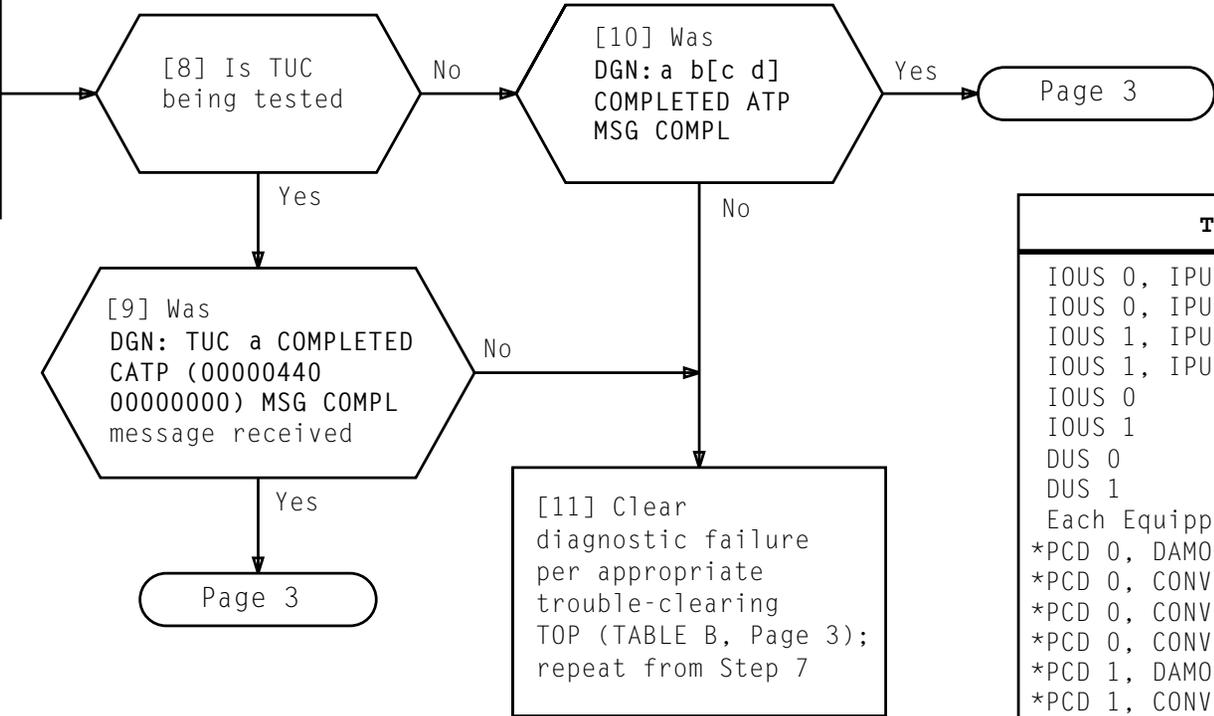


TABLE A	
IOUS 0, IPUB 0	
IOUS 0, IPUB 1	
IOUS 1, IPUB 0	
IOUS 1, IPUB 1	
IOUS 0	
IOUS 1	
DUS 0	
DUS 1	
Each Equipped TUC (0, 1...n)	
*PCD 0, DAMON 0	
*PCD 0, CONV 0	
*PCD 0, CONV 1	
*PCD 0, CONV 2	
*PCD 1, DAMON 0	
*PCD 1, CONV 0	
*PCD 1, CONV 1	
*PCD 1, CONV 2	
* PCD may not be equipped in office	

NOTE 1  
 When testing IOUS 0, RST message must be entered from SREC channel. When testing IOUS 1, RST message must be entered from MTC channel

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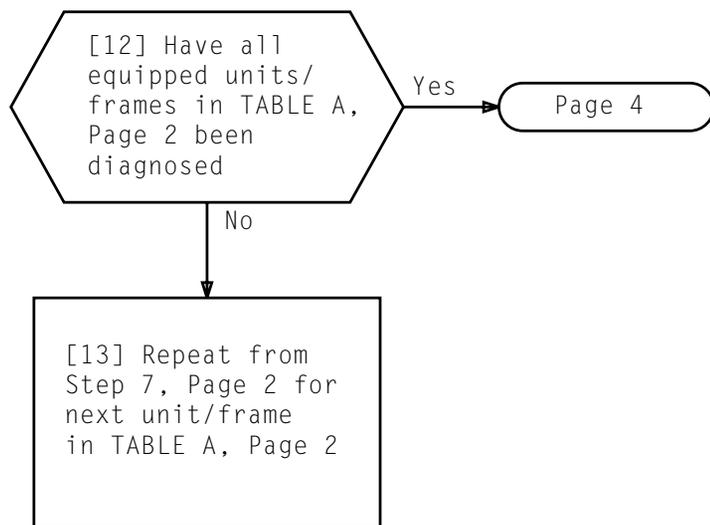


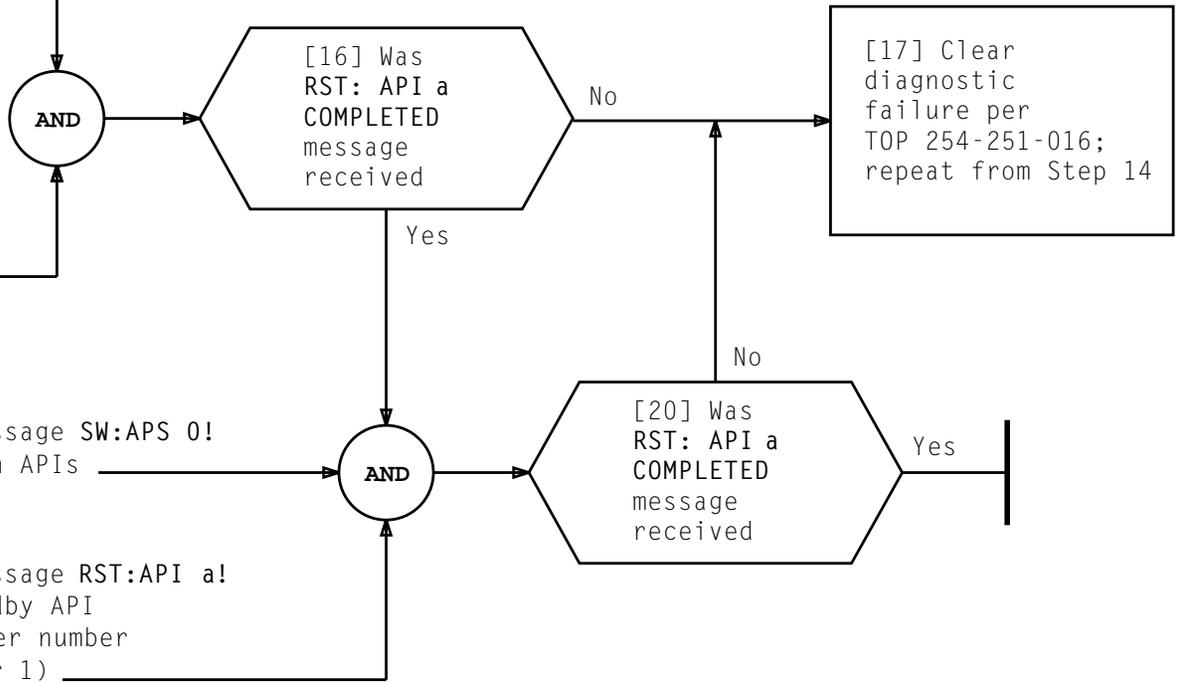
TABLE B		
MESSAGE NUMBER	INPUT MESSAGE	TROUBLE-CLEARING VOLUME
1	RST:IOUS f,IPUB g! f = IOUS number (0 or 1) g = IPUB number (0 or 1)	J5A006A = 254-251-020 J5A006C = 254-251-021 J5A006D = 254-251-022
2	RST:IOUS f! f = IOUS number (0 or 1)	
3	RST:DUS d! d = DUS member number (0 or 1)	254-251-010
4	RST:TUC c! c = TUC member number	
5	RST:PCD a,DAMON 0! a = PCD number (0 or 1)	J5A007B = 254-251-025 J5A007C = 254-251-026
6	RST:PCD a,CONV b! a = PCD number (0 or 1) b = Converter number (0, 1, or 2)	

[14] At MTC terminal, enter message **OP:APSTATUS!** and determine which API is standby

[15] Enter message **RST:API a!**  
a = standby API member number (0 or 1)

[18] Enter message **SW:APS 0!** to switch APIs

[19] Enter message **RST:API a!**  
a = standby API member number (0 or 1)



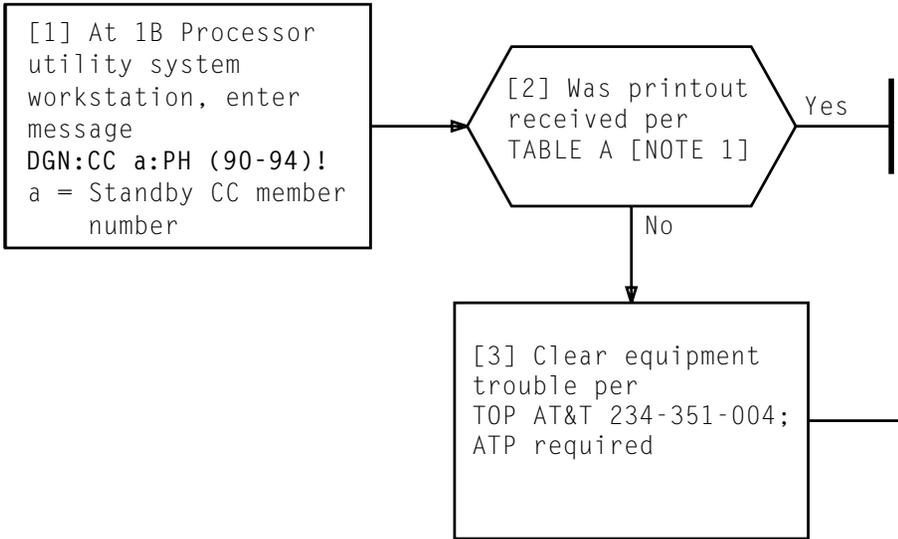


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:CC a PH 90 ATP DGN:CC a PH 91 ATP DGN:CC a PH 92 ATP DGN:CC a PH 93 ATP DGN:CC a PH 94 ATP DGN:CC a COMPLETED ATP MSG COMPL TEST:CC a DFR ATP

NOTE 1 Diagnostics will take approximately 1 hour to complete	
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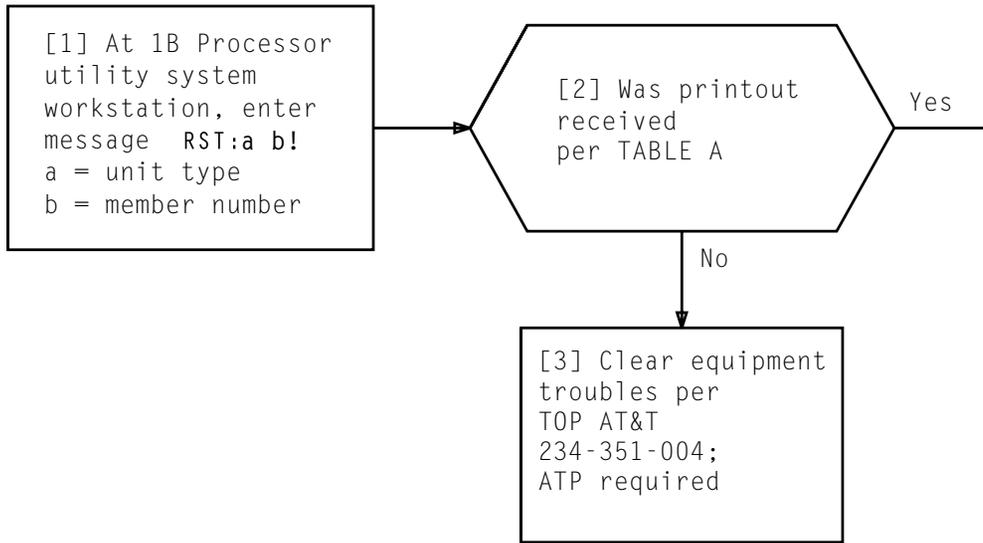
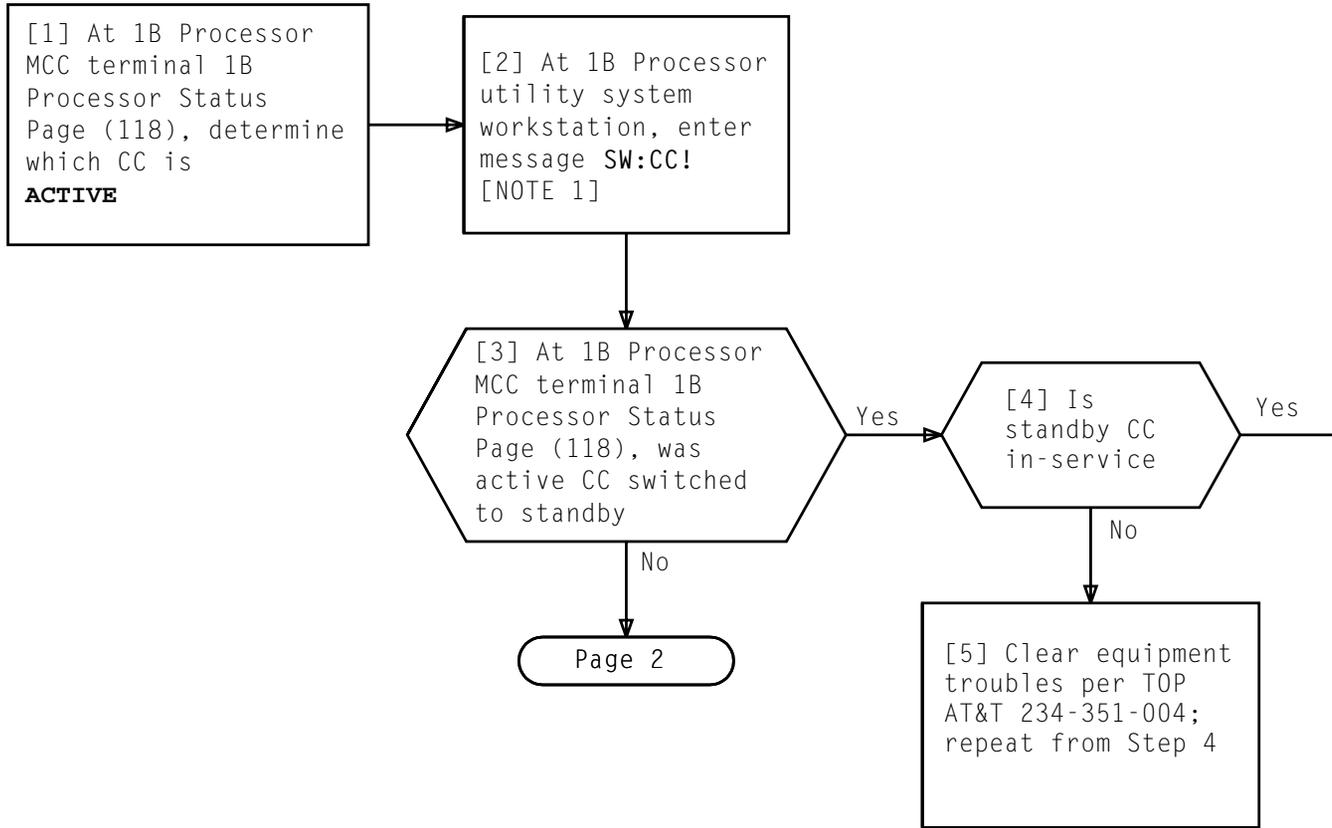


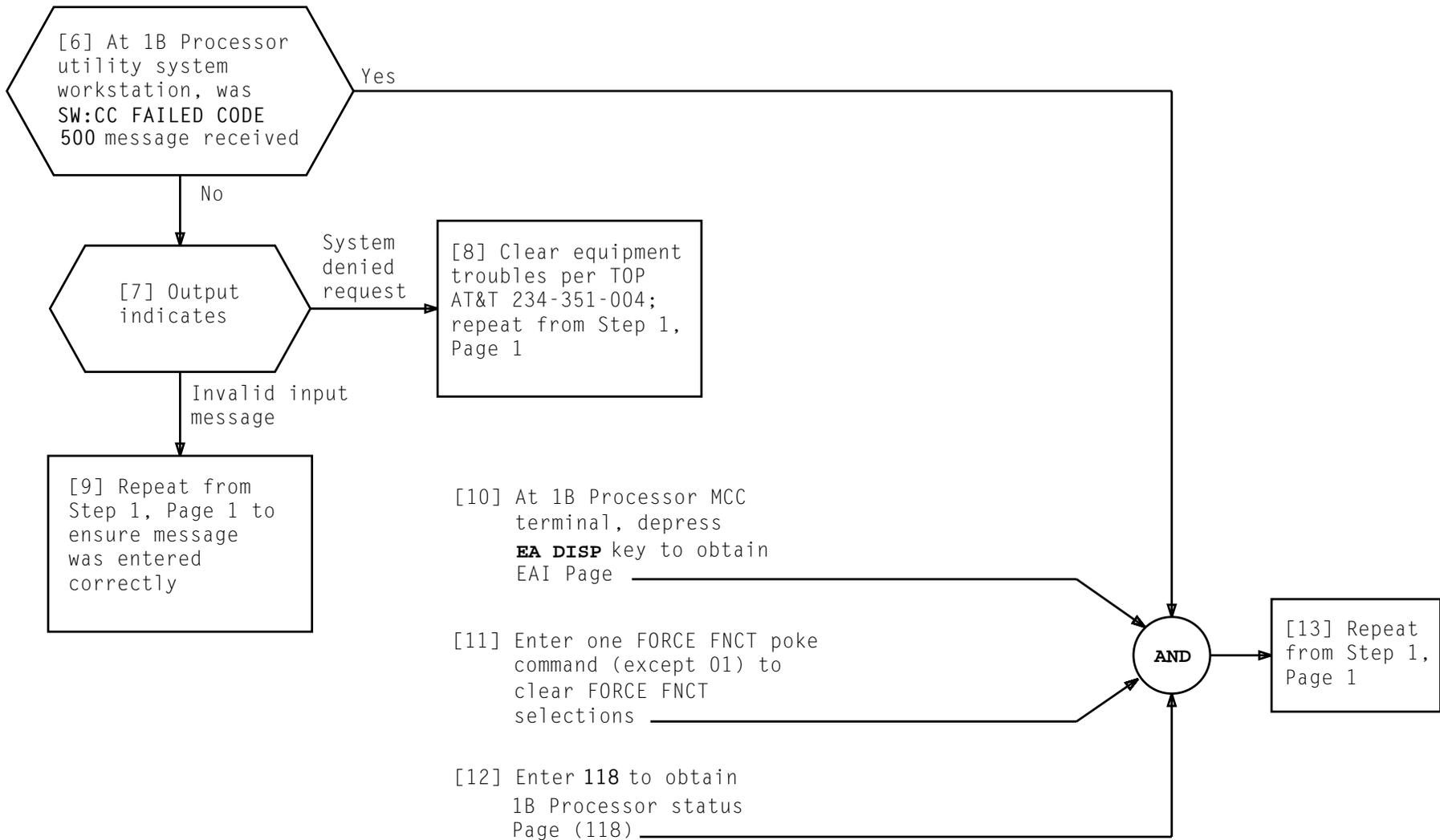
TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: a b COMPLETED c* MSG COMPL TEST: a b ATP** RST: a b COMPLETED RST: a b MCODE c**
* CATP results will be received for AUB ** This message will not be received for some units a = unit type b = member number c = MCODE assigned to store	

RESTORE 1B PROCESSOR API, AUB, AUI, CC, CS, CSB, IFB, MUP, PS, PSB, PUB, SSD, OR XPWR

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NOTE 1 It will take approximately 3 minutes for CCs to switch	
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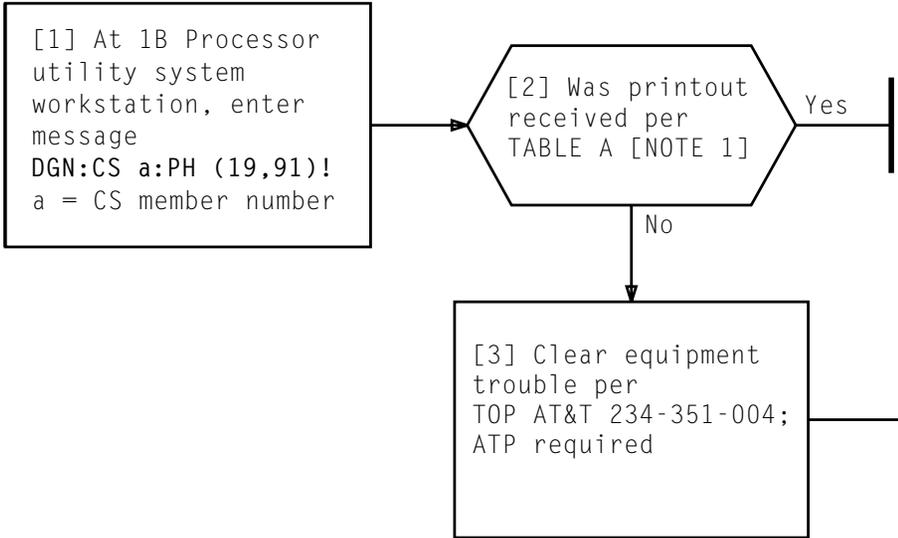


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:CS a PH 19 ATP DGN:CS a PH 91 ATP DGN:CS a COMPLETED ATP MSG COMPL

NOTE 1 Diagnostic will take approximately 8 minutes to complete	
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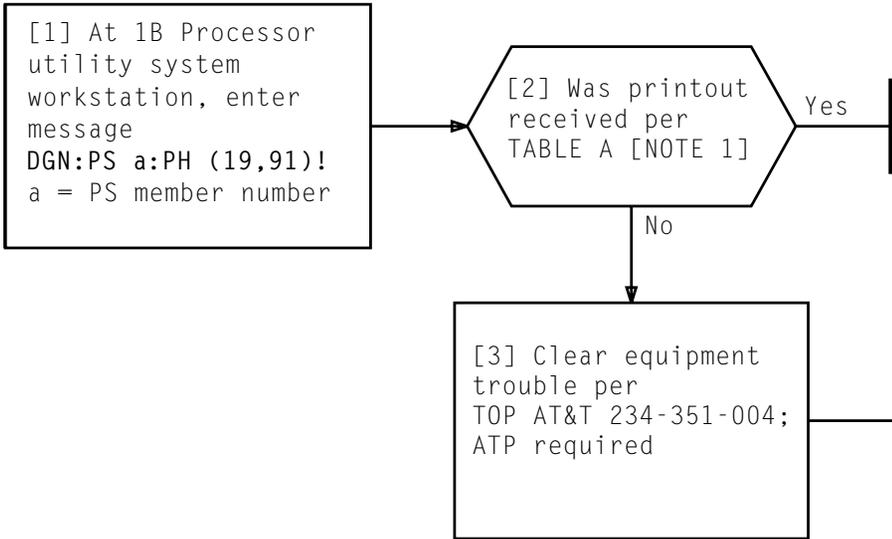


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:PS a PH 19 ATP DGN:PS a PH 91 ATP DGN:PS a COMPLETED ATP MSG COMPL

NOTE 1 Diagnostic will take approximately 8 minutes to complete	
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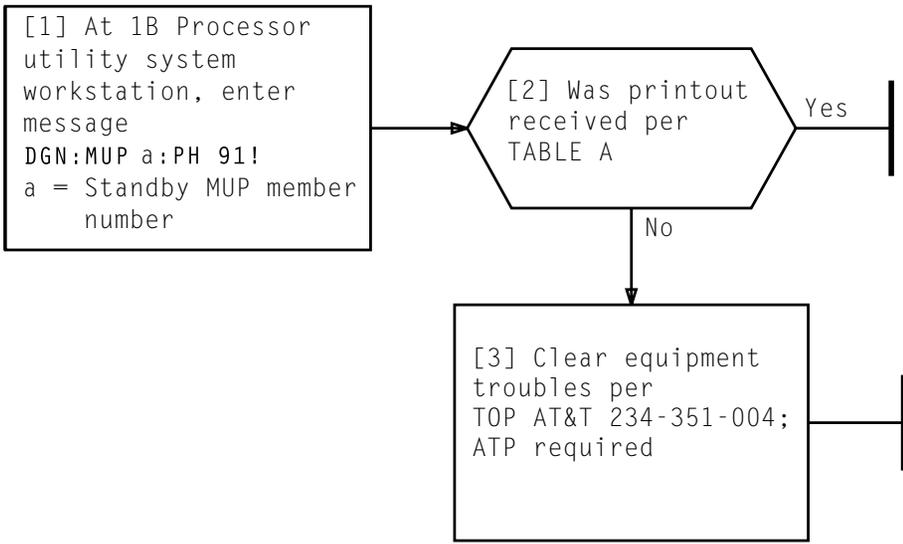
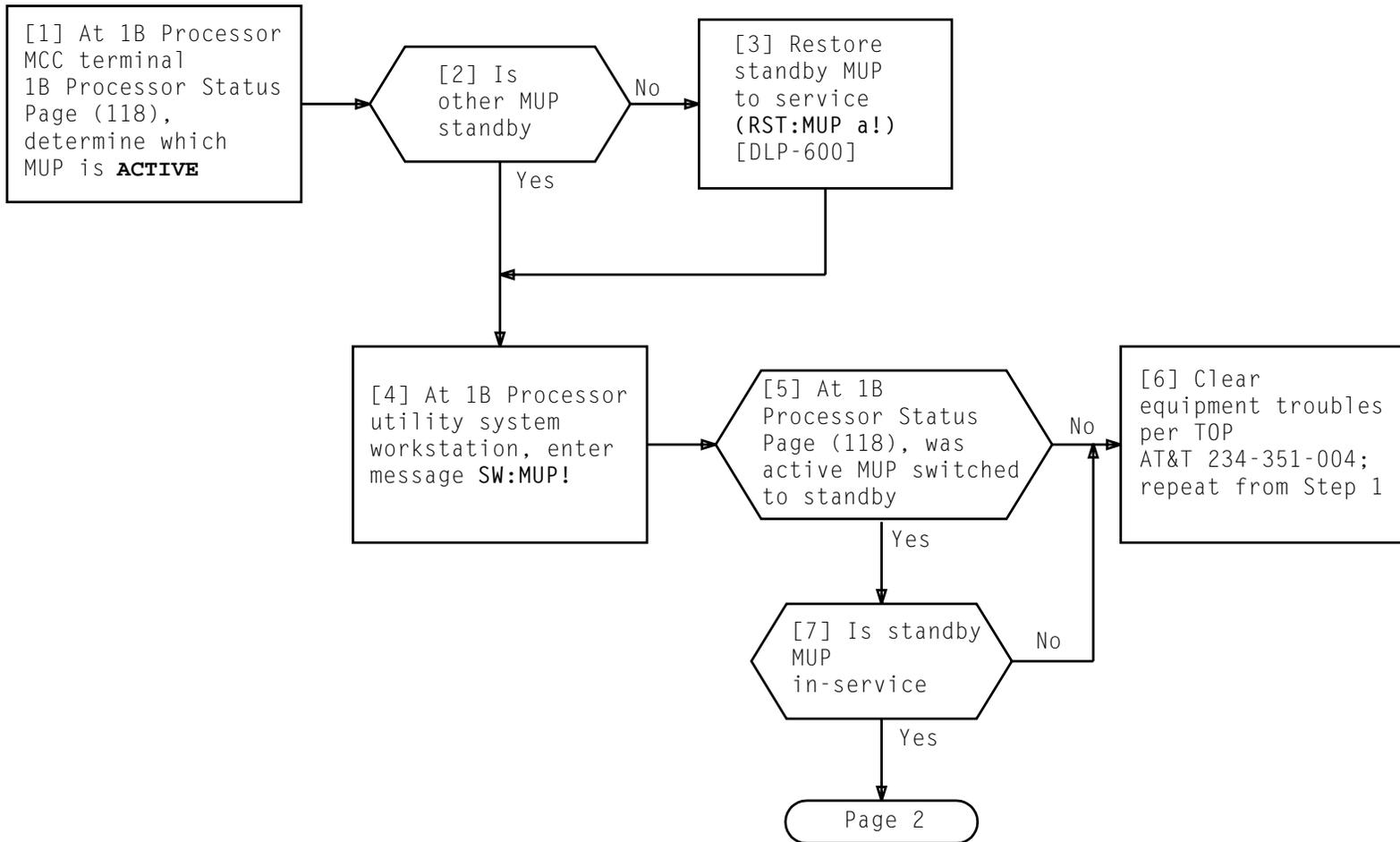
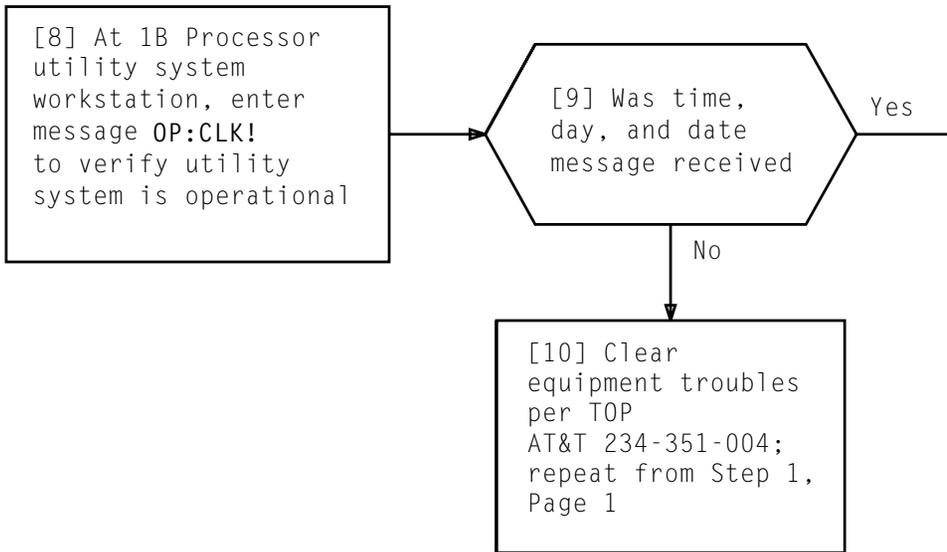


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:MUP a PH 91 ATP DGN:MUP a COMPLETED ATP MSG COMPL





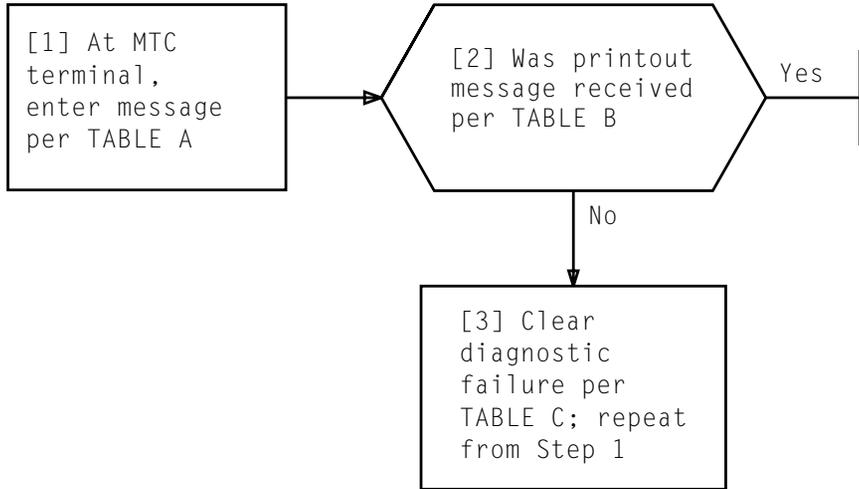


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	RST:a b!
a = API or AUB or CC or PUB or TUC b = Member number	

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	RST: a b COMPLETED OR RST: a b COMPL
a = API or AUB or CC or PUB or TUC b = Member number	

TABLE C	
UNIT TYPE	TROUBLE-CLEARING VOLUME
API	254-251-016
AUB	254-251-010
CC	254-251-001
PUB	234-151-015
TUC	254-251-010

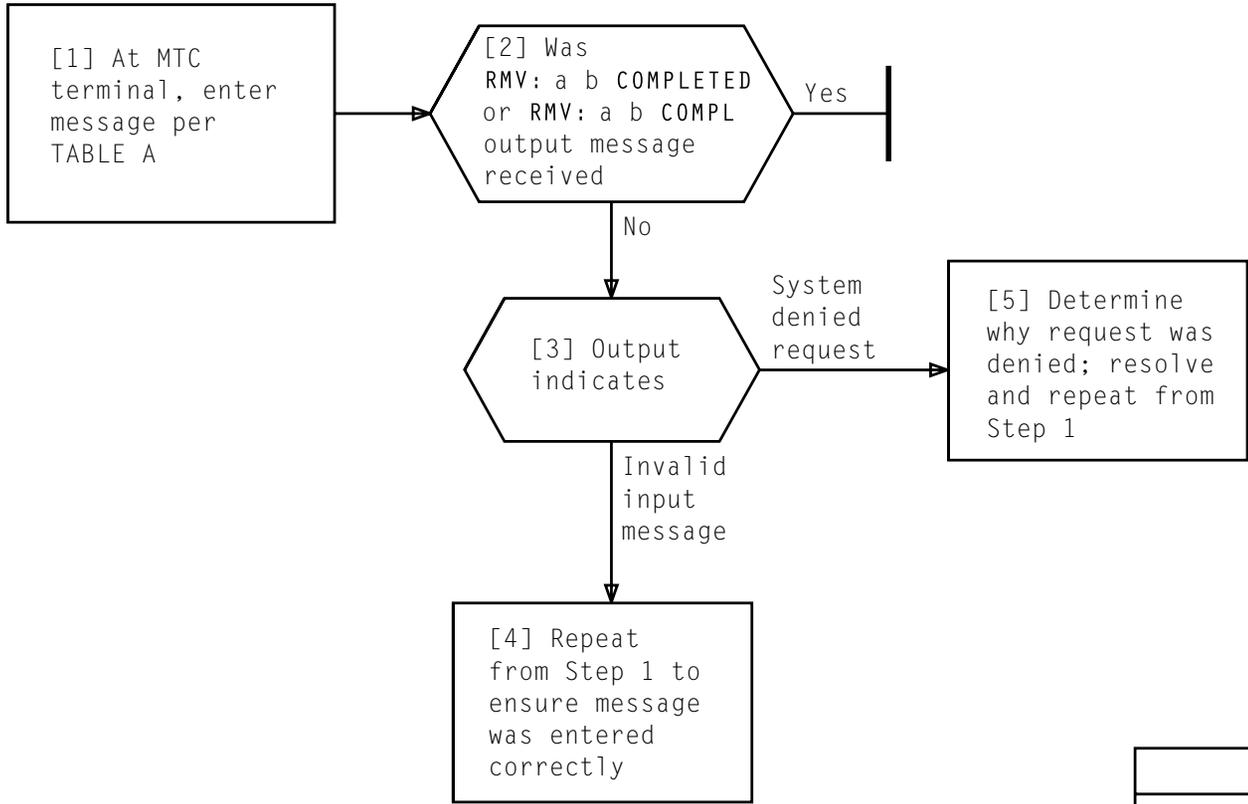
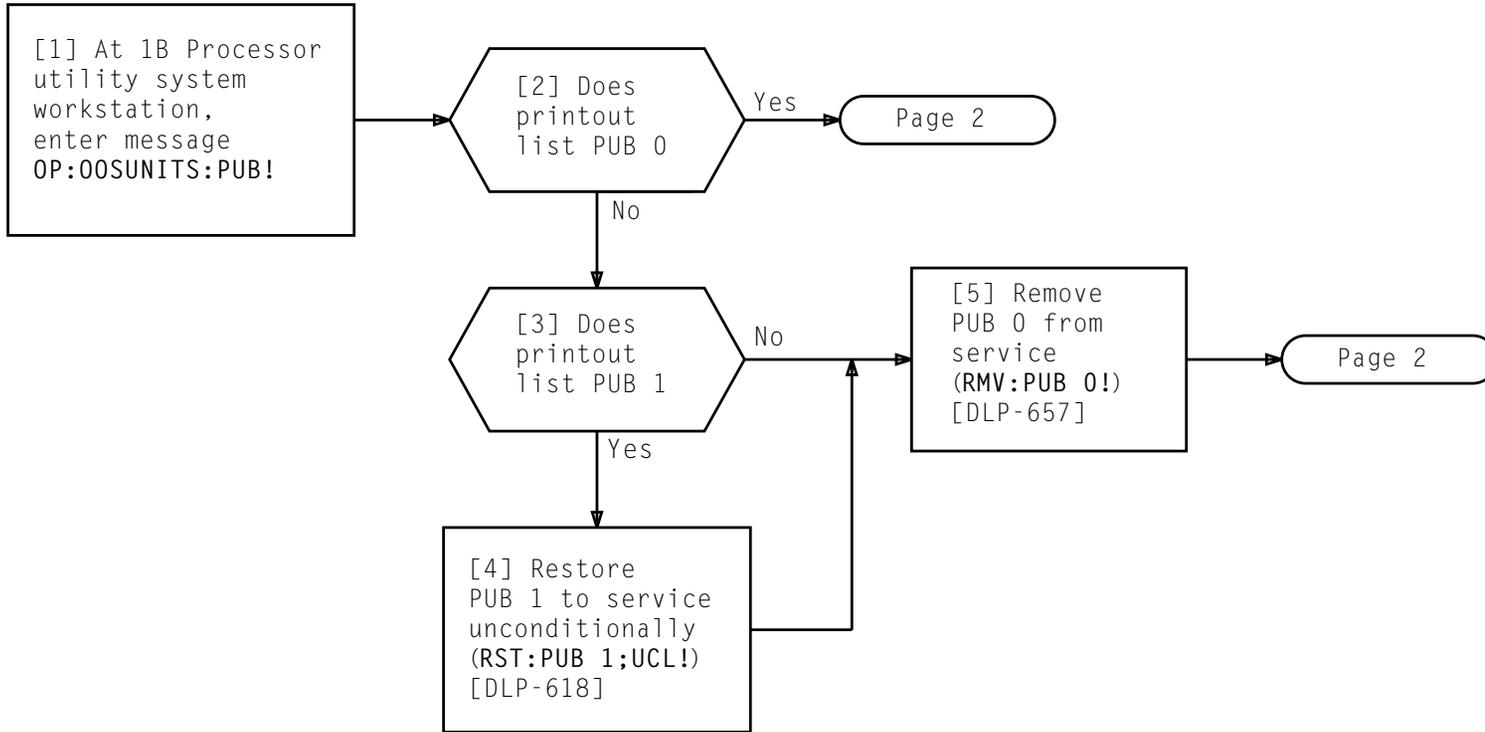
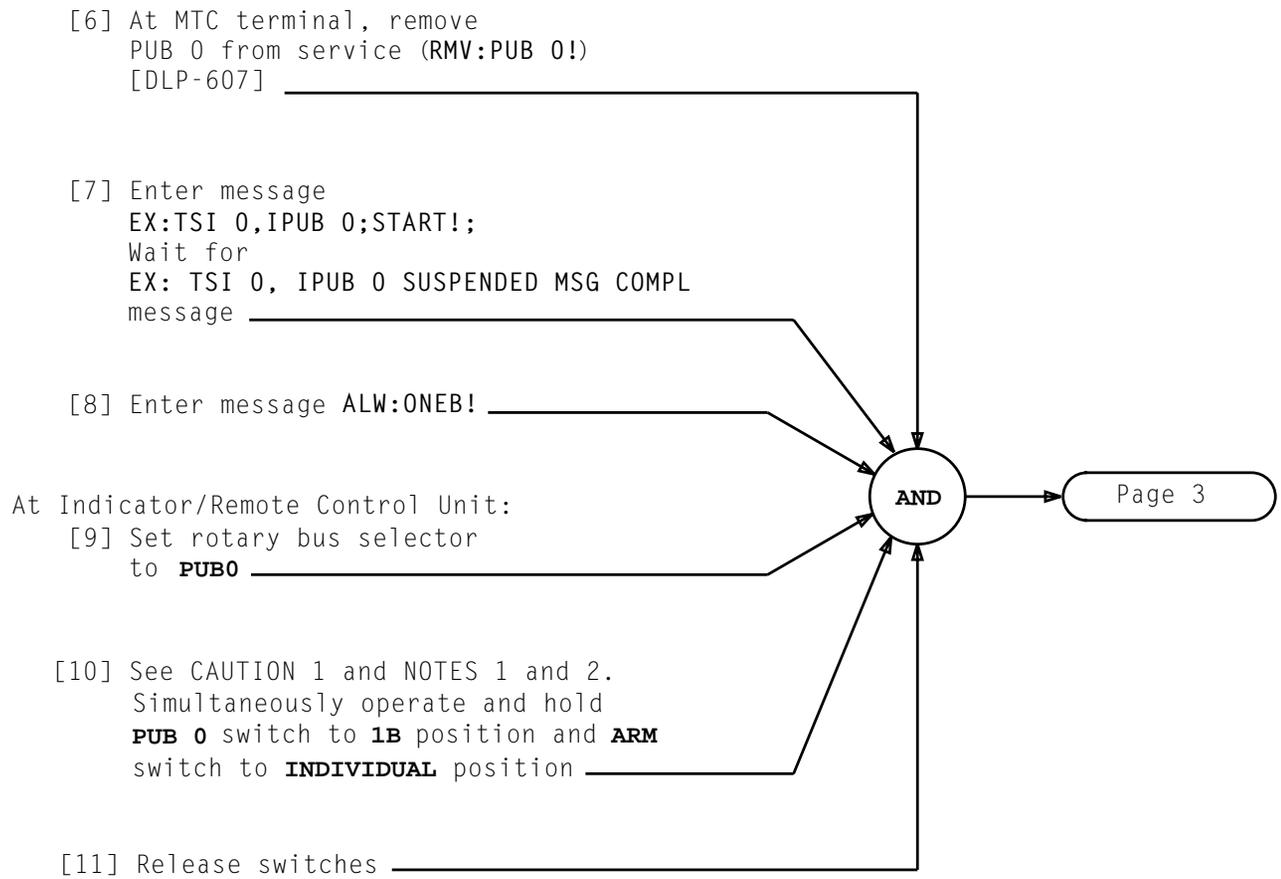


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	RMV:a b!
a = API or AUB or CC or DUS or PUB or TUC b = Member number	



SWITCH PUB 0 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS

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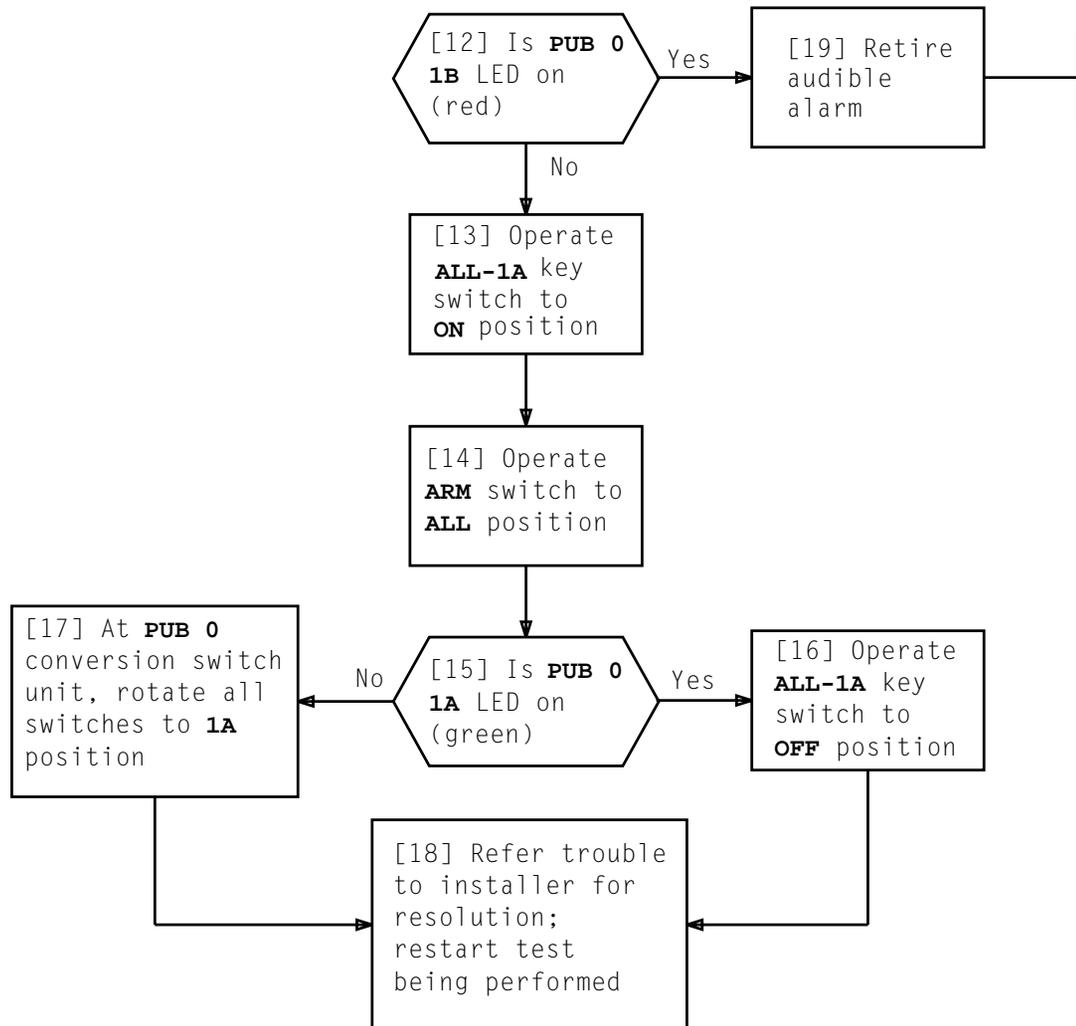
NOTES

1. Audible alarm will be received
2. REPT: 0A xx 1B  
CVSW OFNL  
ACTIVATED, FLOOR x  
message will be received at  
MTC terminal

*CAUTION 1*  
*Care must be taken to ensure that only PUB 0 and ARM switches are being operated*

**SWITCH PUB 0 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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**SWITCH PUB 0 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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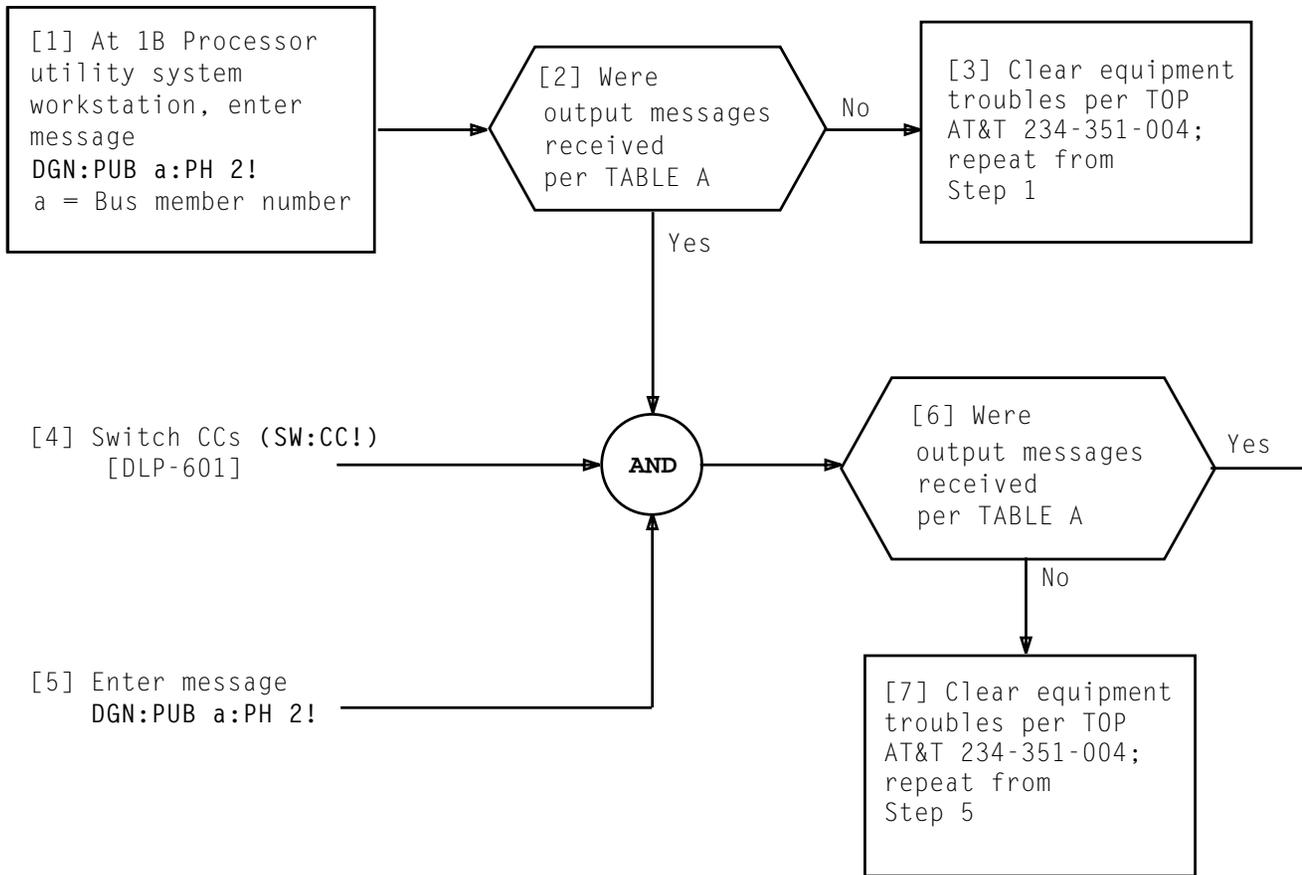


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: PUB a PH 2 ATP MSG STARTED DGN: PUB a COMPLETED ATP MSG COMPL

[1] Request installer to suspend  
1B Processor using UCD  
window at 1B Processor  
utility system workstation

At Indicator/Remote Control Unit:

[2] Set rotary bus selector  
to **PUB0**

[3] See CAUTION 1. Simultaneously  
operate and hold **PUB 0** switch to  
**1A** position and **ARM** switch to  
**INDIVIDUAL** position

[4] Release switches

AND

Page 2

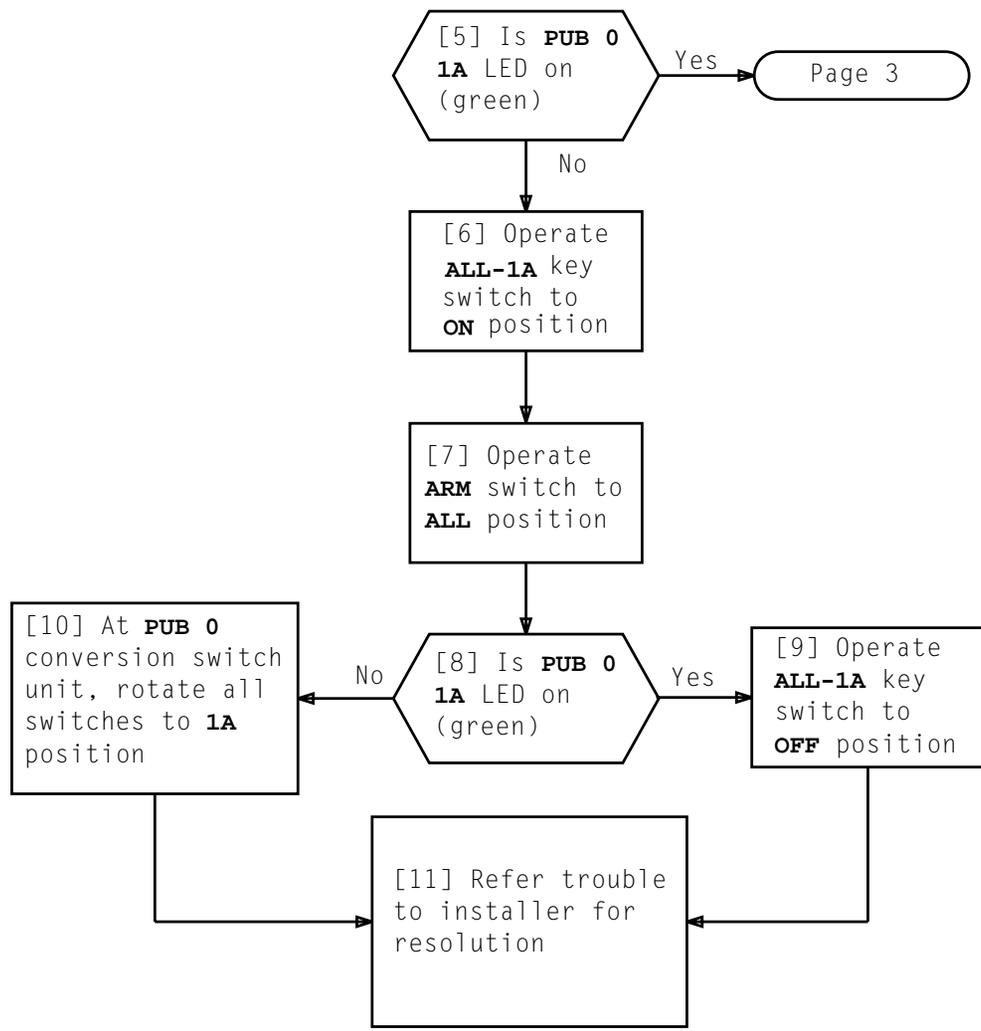
**SWITCH PUB 0 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS  
TO 1A PROCESSOR BUS ACCESS**

*CAUTION 1  
Care must be taken  
to ensure that  
only **PUB 0** and **ARM**  
switches are being  
operated*

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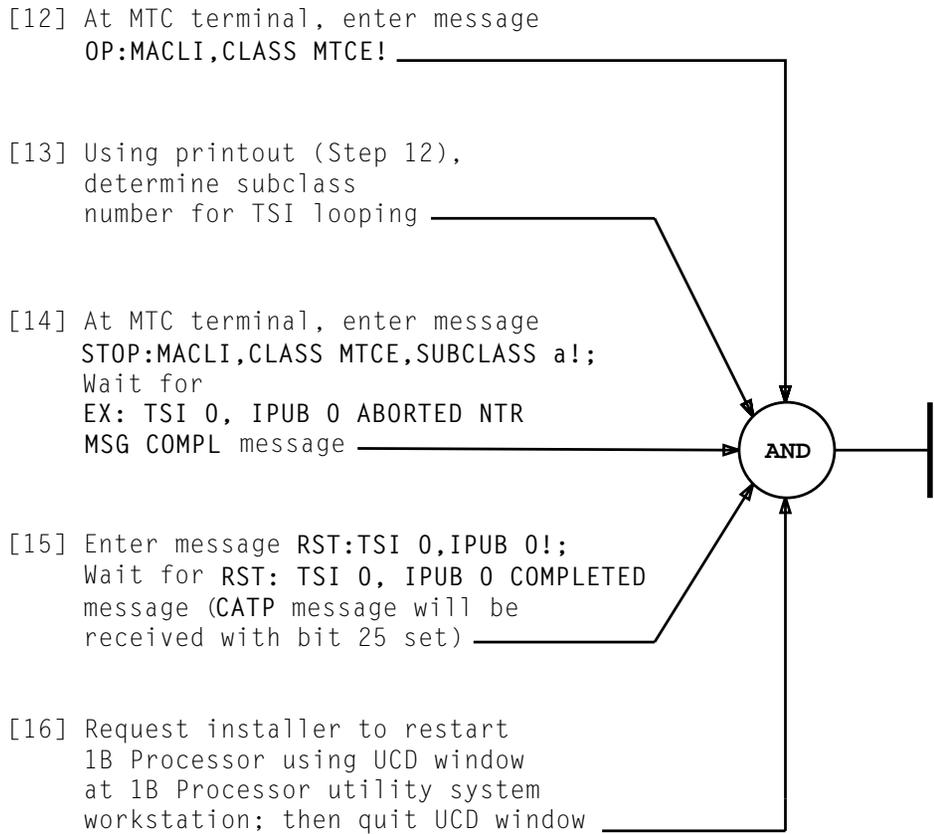
234-160-019 | DLP

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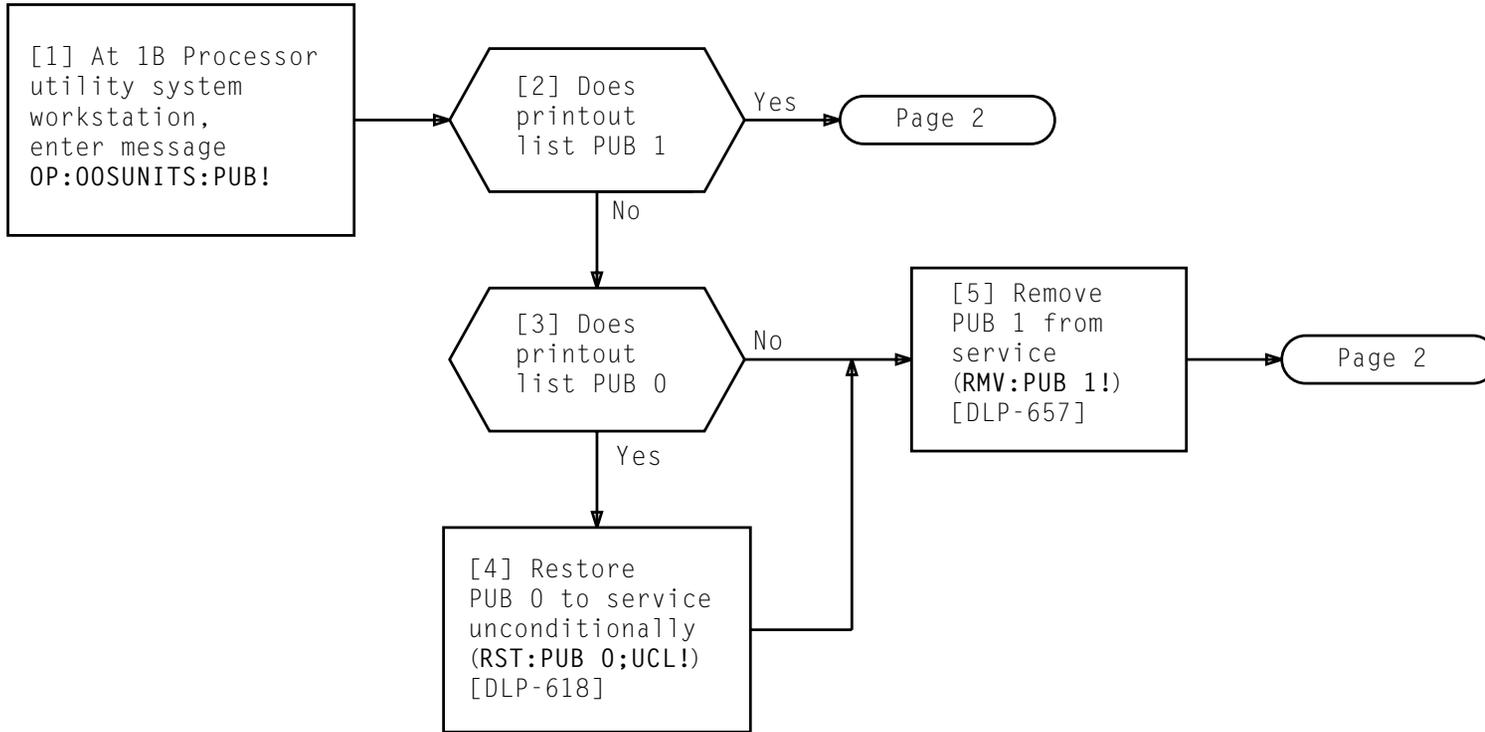
**SWITCH PUB 0 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS TO 1A PROCESSOR BUS ACCESS**

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**SWITCH PUB 0 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS  
TO 1A PROCESSOR BUS ACCESS**

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**SWITCH PUB 1 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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[6] At MTC terminal, remove PUB 1  
from service (RMV:PUB 1!)  
[DLP-607]

[7] Enter message  
EX:TSI 0,IPUB 1;START!;  
Wait for  
EX: TSI 0, IPUB 1 SUSPENDED MSG COMPL  
message

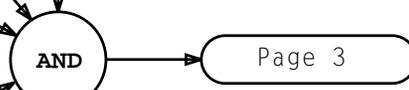
[8] Enter message ALW:ONEB!

At Indicator/Remote Control Unit:

[9] Set rotary bus selector  
to **PUB1**

[10] See CAUTION 1, and NOTES 1 and 2.  
Simultaneously operate and hold  
**PUB 1** switch to **1B** position and **ARM**  
switch to **INDIVIDUAL** position

[11] Release switches



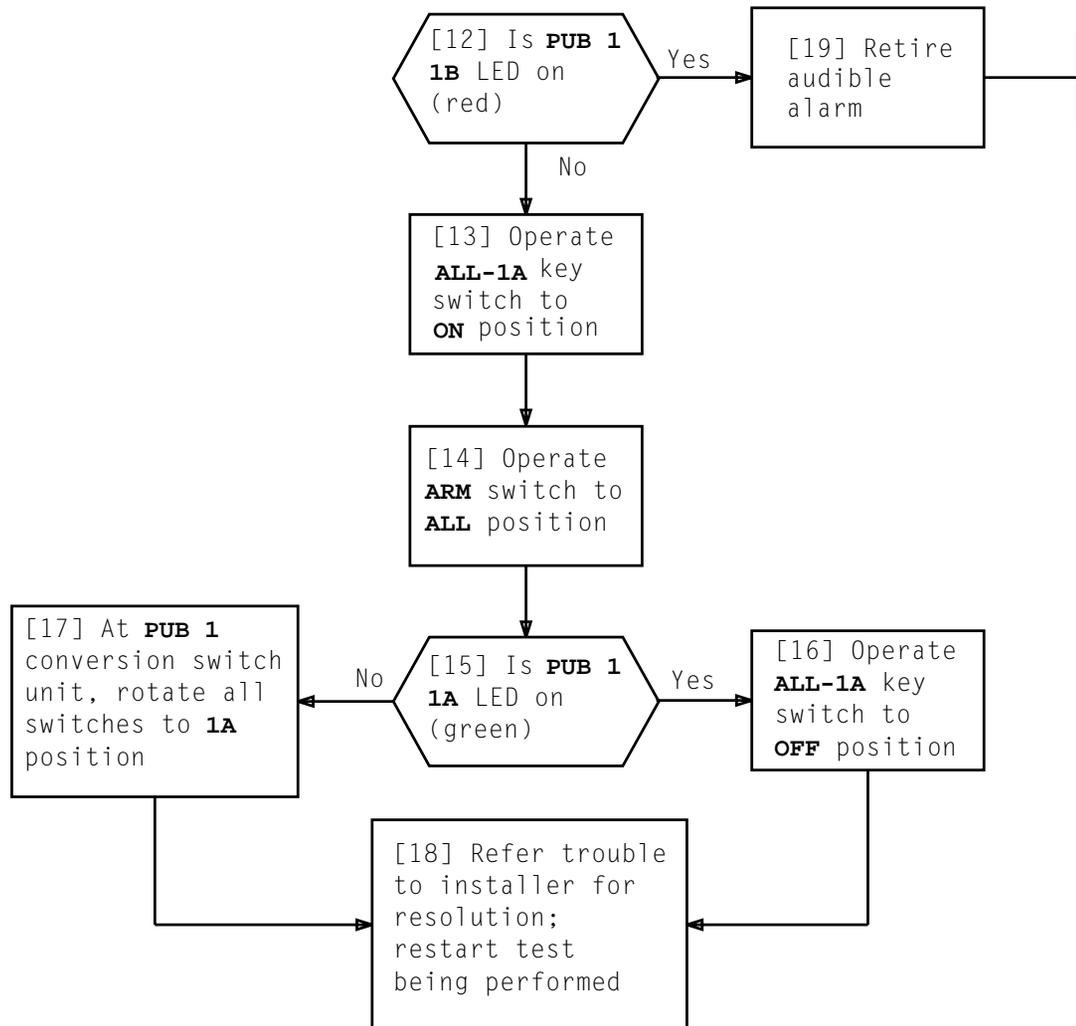
NOTES

1. Audible alarm will be received
2. REPT: 0A xx 1B  
CVSW OFNL  
ACTIVATED, FLOOR x  
message will be received at  
MTC terminal

**CAUTION 1**  
*Care must be taken to ensure that only **PUB 1** and **ARM** switches are being operated*

**SWITCH PUB 1 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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**SWITCH PUB 1 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS  
TO 1B PROCESSOR BUS ACCESS**

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[1] Request installer to suspend  
1B Processor using UCD  
window at 1B Processor  
utility system workstation

At Indicator/Remote Control Unit:

[2] Set rotary bus selector  
to **PUB1**

[3] See CAUTION 1. Simultaneously  
operate and hold **PUB 1** switch to  
**1A** position and **ARM** switch to  
**INDIVIDUAL** position

[4] Release switches

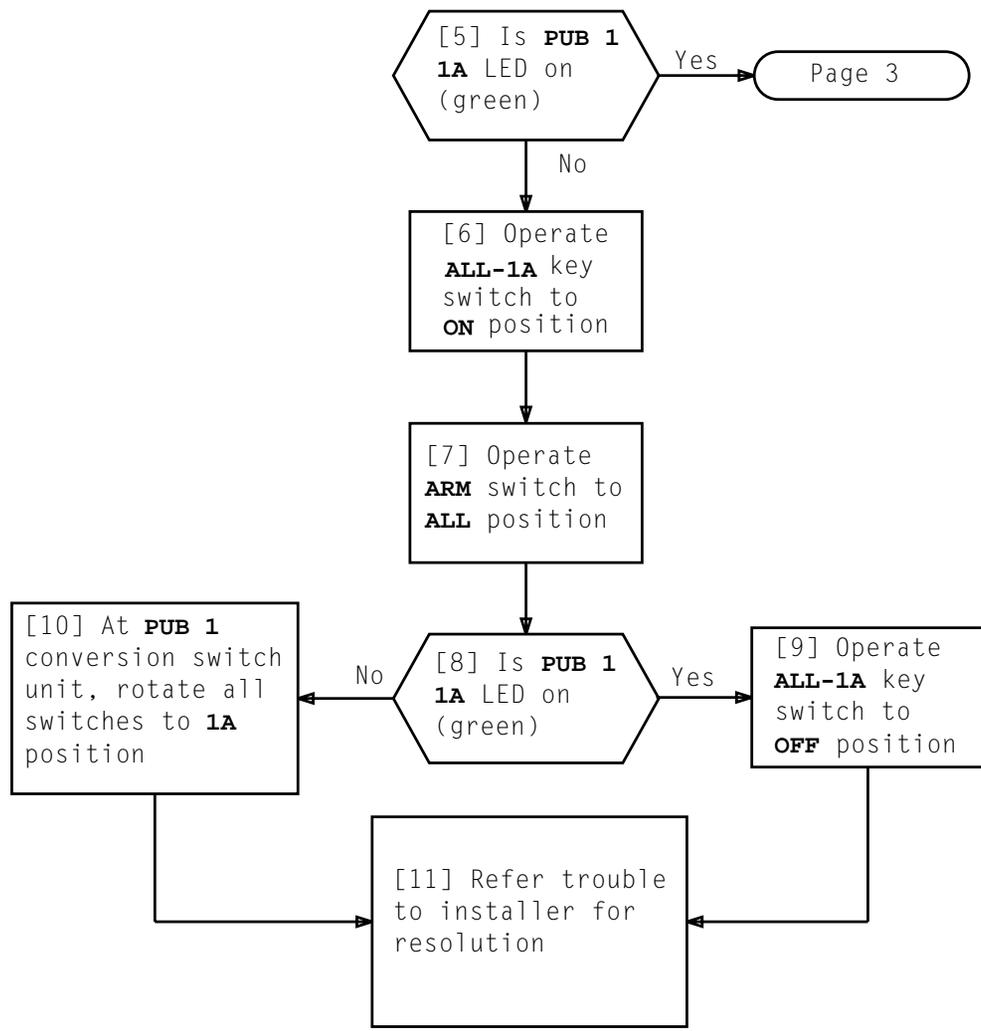
AND

Page 2

**SWITCH PUB 1 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS  
TO 1A PROCESSOR BUS ACCESS**

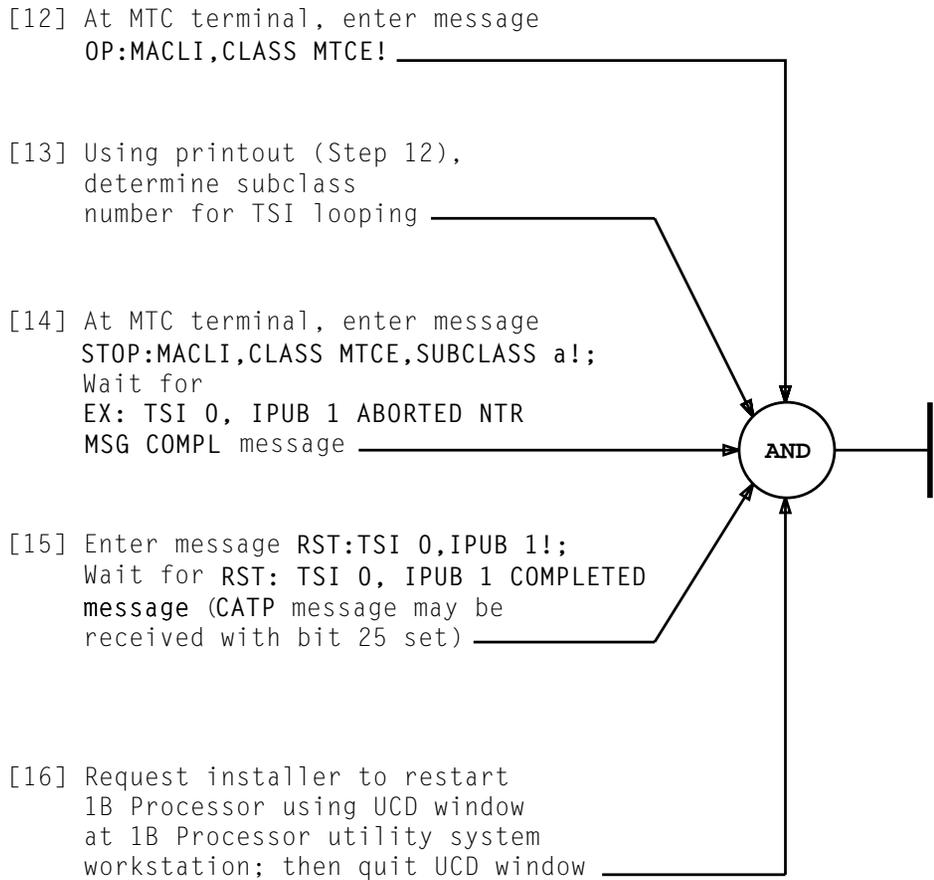
*CAUTION 1  
Care must be taken  
to ensure that  
only **PUB 1** and **ARM**  
switches are being  
operated*

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**SWITCH PUB 1 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS TO 1A PROCESSOR BUS ACCESS**

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**SWITCH PUB 1 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS  
TO 1A PROCESSOR BUS ACCESS**

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[1] Notify next higher technical support group that conversion switches will be switched back to 1A Processor bus access

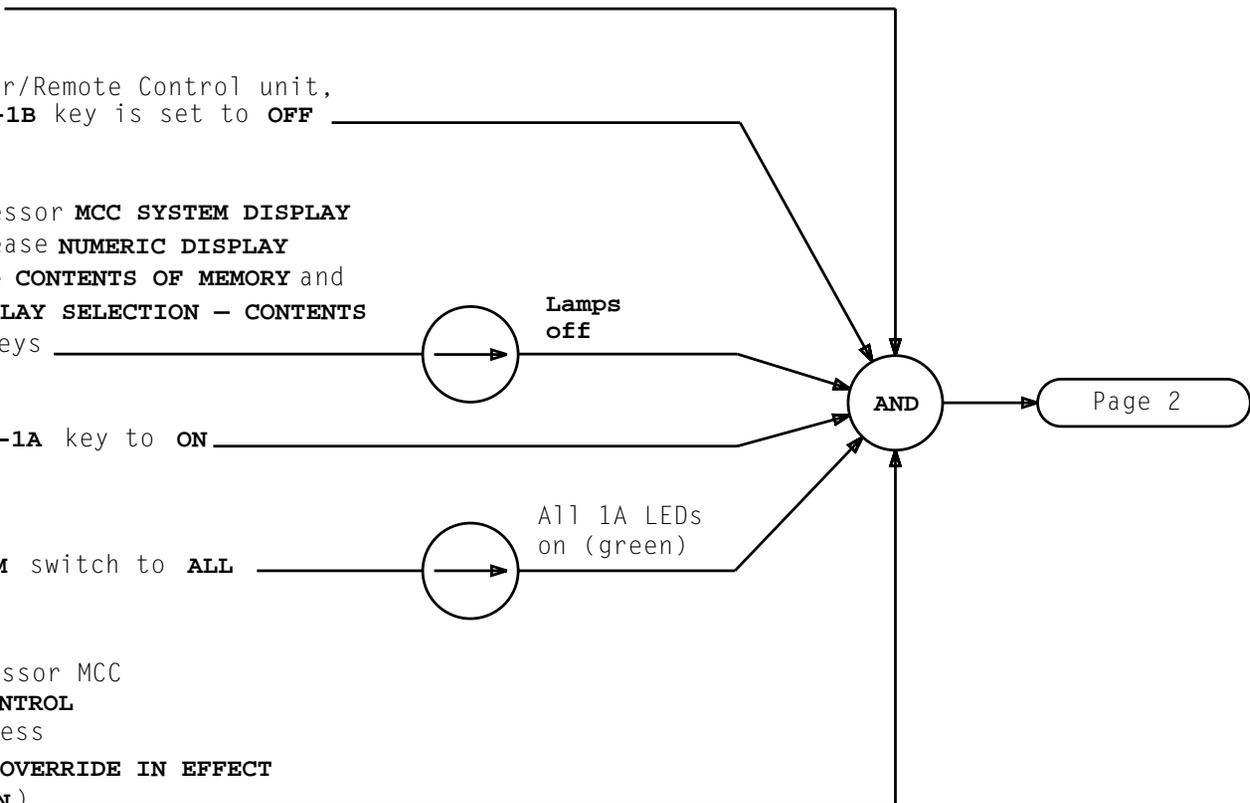
[2] At Indicator/Remote Control unit, ensure **ALL-1B** key is set to **OFF**

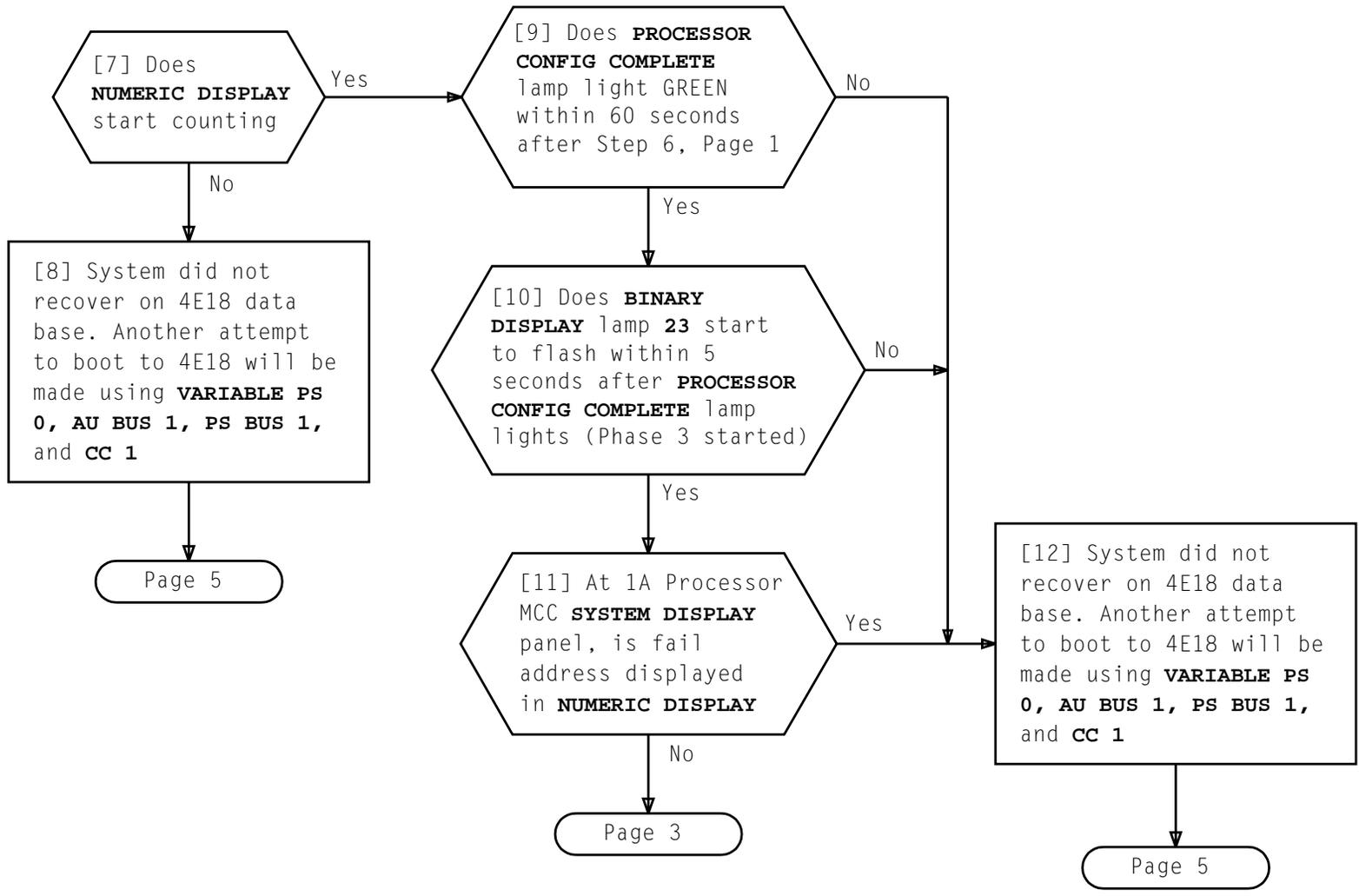
[3] At 1A Processor **MCC SYSTEM DISPLAY** panel, release **NUMERIC DISPLAY SELECTION - CONTENTS OF MEMORY** and **BINARY DISPLAY SELECTION - CONTENTS OF MEMORY** keys

[4] Rotate **ALL-1A** key to **ON**

[5] Operate **ARM** switch to **ALL**

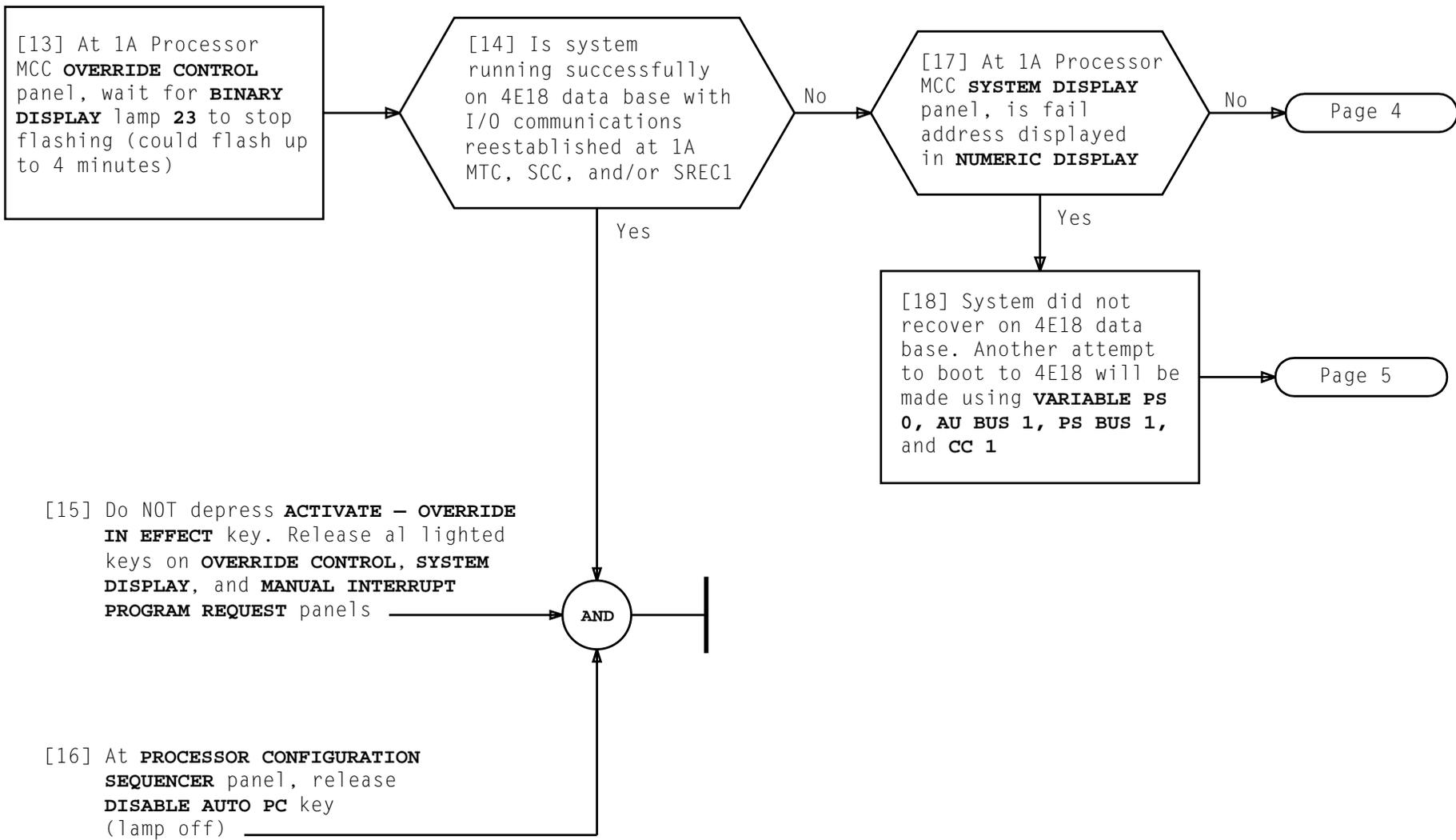
[6] At 1A Processor MCC **OVERRIDE CONTROL** panel, depress **ACTIVATE - OVERRIDE IN EFFECT** key (lamp **ON**)





**BACK-OUT TO 1A PROCESSOR (4E18 GENERIC)**

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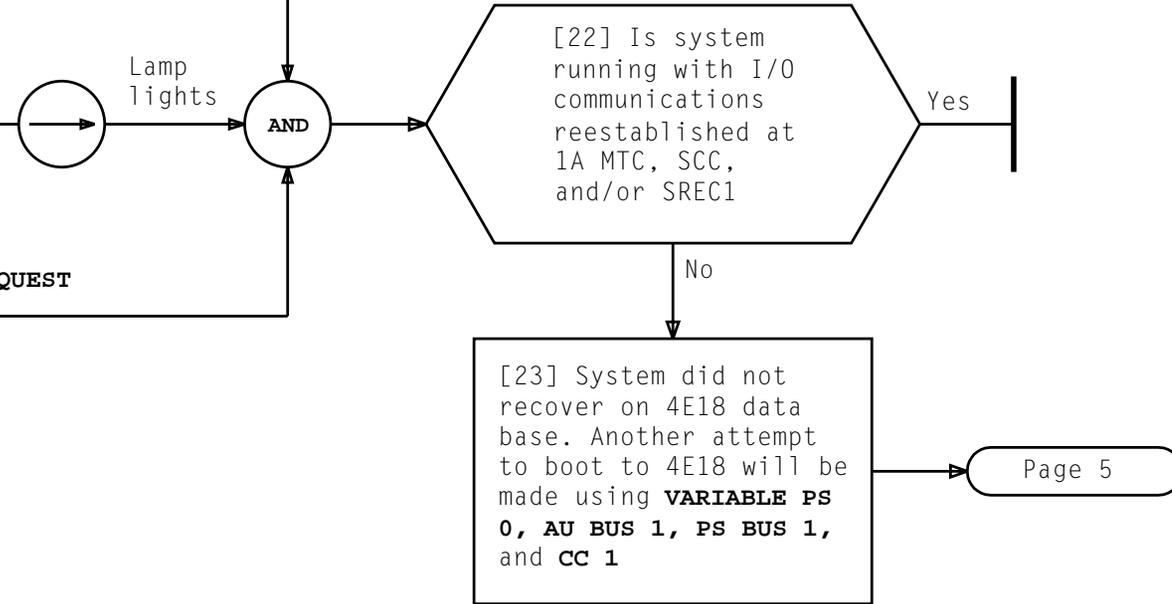
**BACK-OUT TO 1A PROCESSOR (4E18 GENERIC)**

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[19] Do NOT depress **ACTIVATE - OVERRIDE IN EFFECT** key. Release all lighted keys on **OVERRIDE CONTROL, SYSTEM DISPLAY,** and **MANUAL INTERRUPT PROGRAM REQUEST** panels

[20] At **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **RESTORE MTCE I/O** key

[21] Depress **ACTIVATE-PROGRAM REQUEST** key



[24] At 1A Processor MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, if **RESTORE MTCE I/O** lamp is on, depress to off (lamp off)

[25] If **MODIFY RECOVERY ACTIONS** lamp is not on, depress to on (lamp on)

[26] At 1A Processor MCC **OVERRIDE CONTROL** panel, depress any lighted keys (lamps off)

[27] Depress **VARIABLE PS 0, AU BUS 1, PS BUS 1,** and **CC1** keys (lamps on)

[28] At 1A Processor MCC **OVERRIDE CONTROL** panel, depress **ACTIVATE-OVERRIDE IN EFFECT** key. Start timing the back out

AND

[29] Does **NUMERIC DISPLAY** start counting

[30] Does **PROCESSOR CONFIG COMPLETE** lamp light GREEN within 60 seconds after Step 28

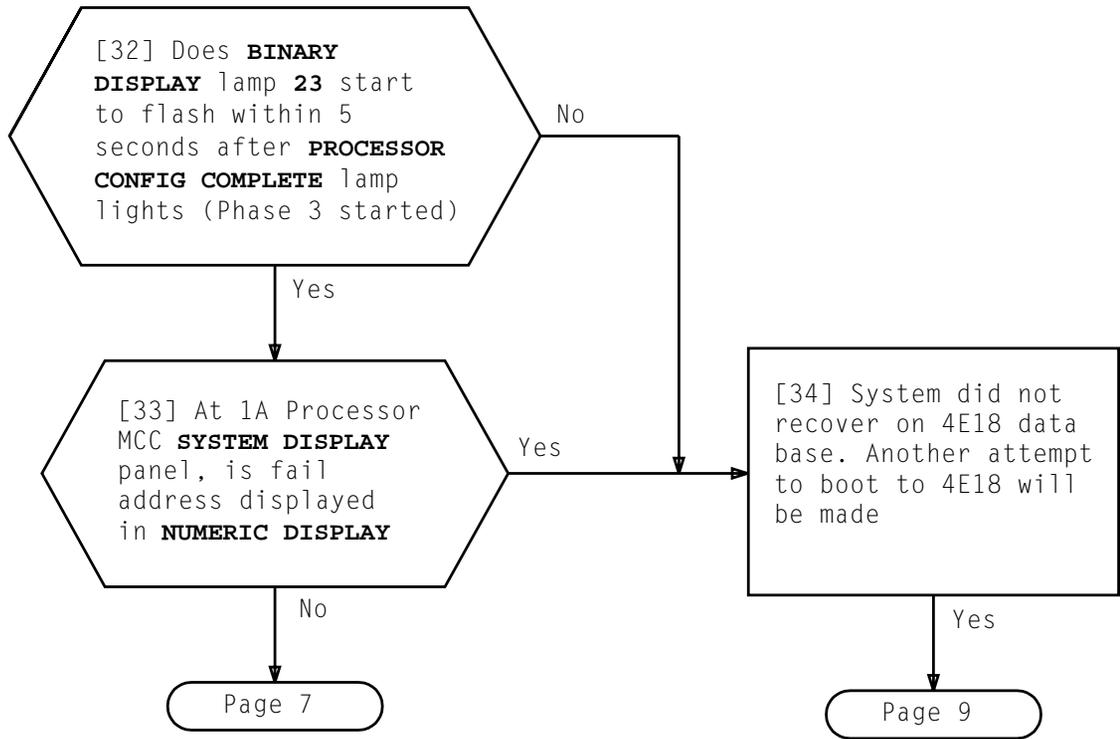
[31] System did not recover on 4E18 data base. Another attempt to boot to 4E18 will be made

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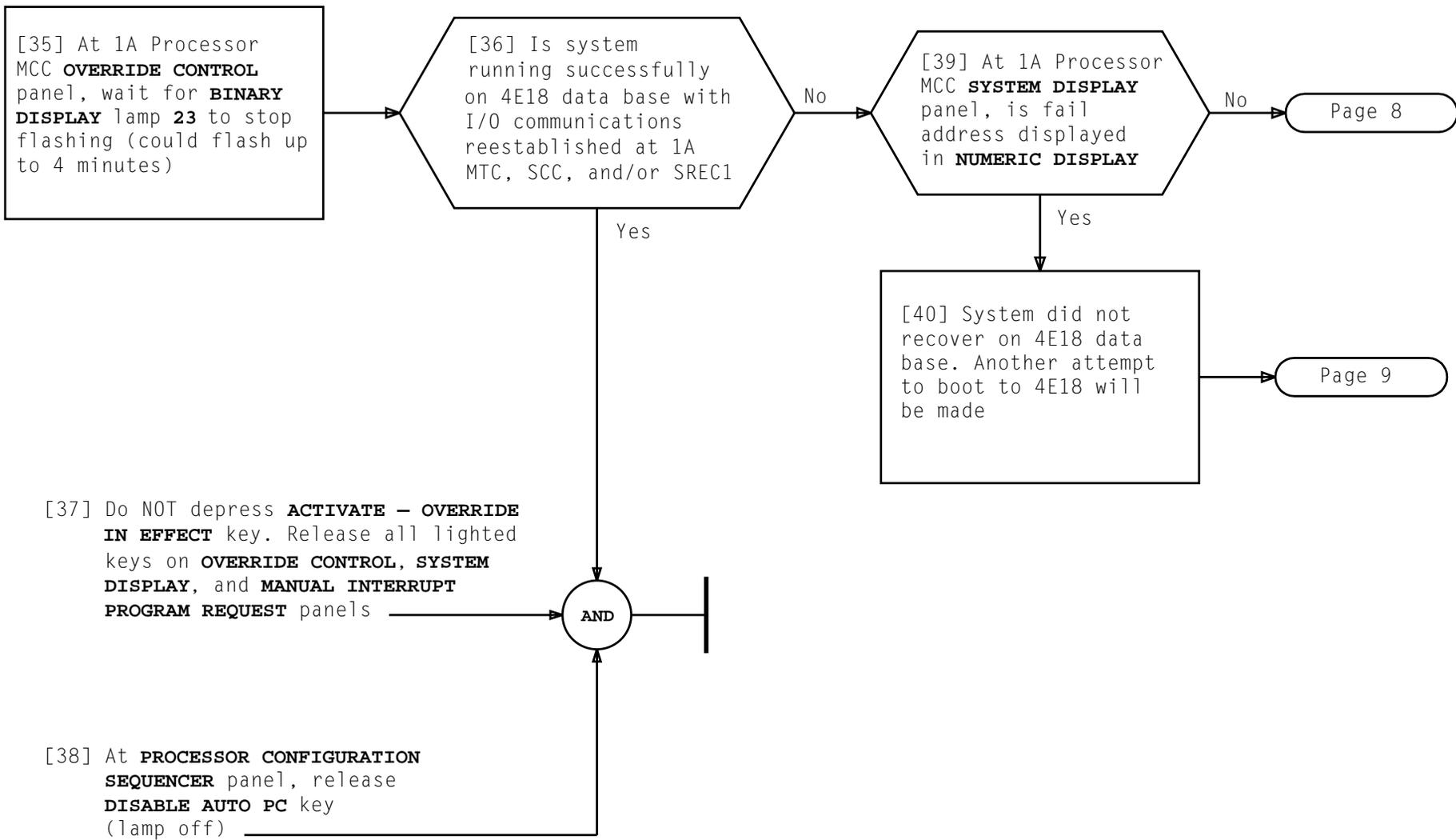
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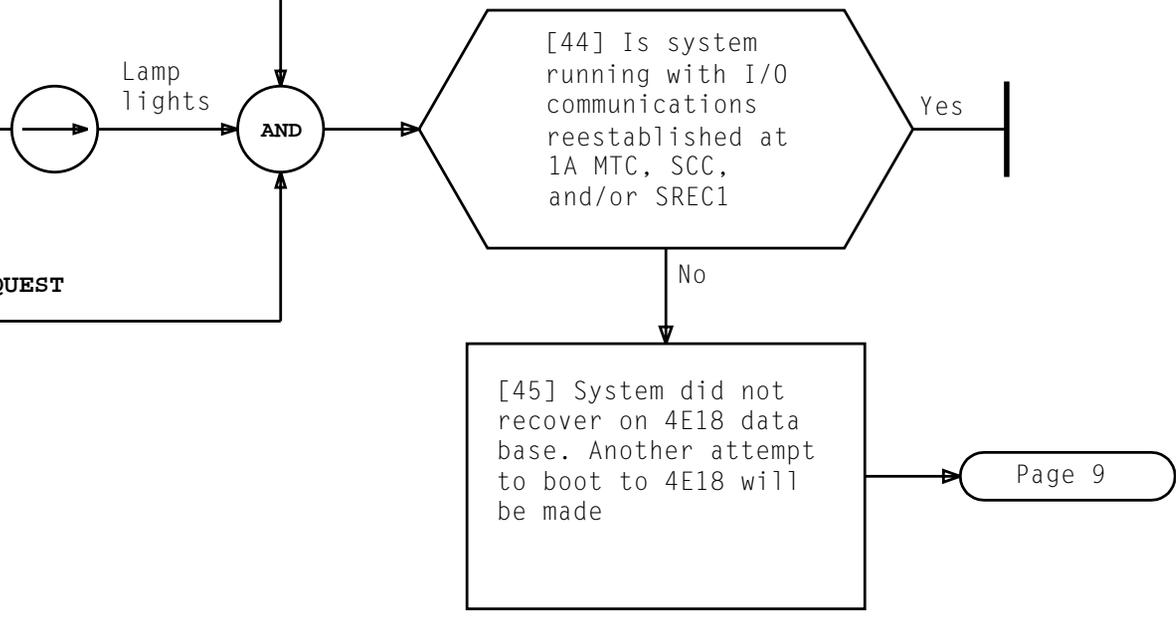
**BACK-OUT TO 1A PROCESSOR (4E18 GENERIC)**

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[41] Do NOT depress **ACTIVATE - OVERRIDE IN EFFECT** key. Release all lighted keys on **OVERRIDE CONTROL, SYSTEM DISPLAY,** and **MANUAL INTERRUPT PROGRAM REQUEST** panels

[42] At **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **RESTORE MTCE I/O** key

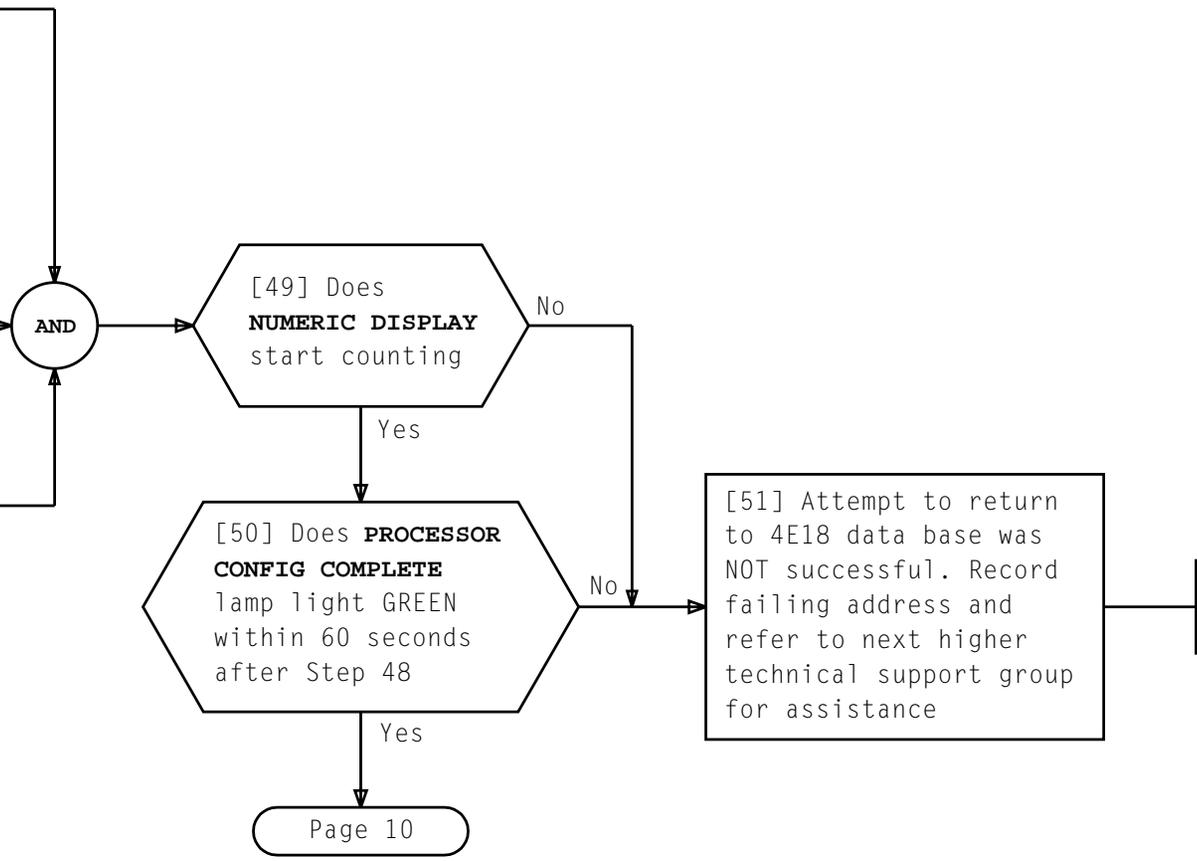
[43] Depress **ACTIVATE-PROGRAM REQUEST** key

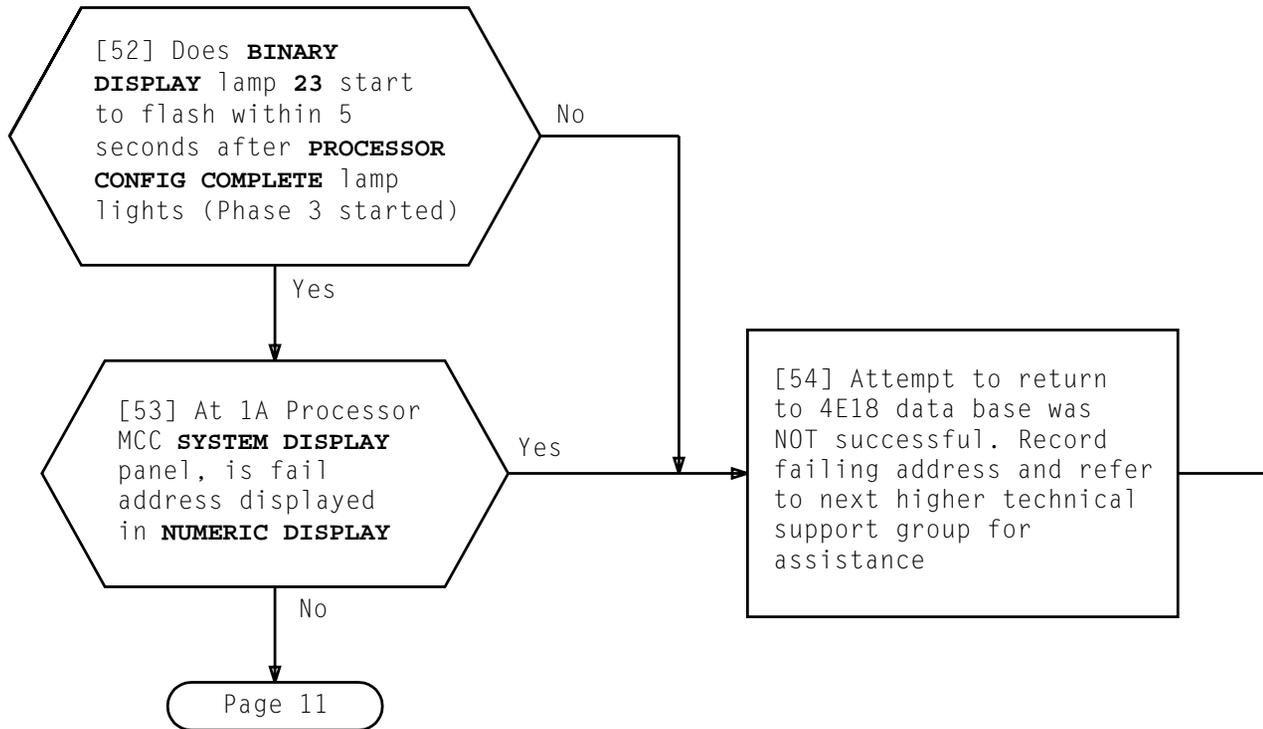


[46] Do NOT depress **ACTIVATE – OVERRIDE IN EFFECT** key. At 1A Processor MCC **OVERRIDE CONTROL** panel, depress any lighted keys (lamps off)

[47] At 1A Processor MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, depress **DISABLE AUTO PC** key (lamp off). PC STATE COUNTERS progress through pump states until good configuration is found. Start timing the back out

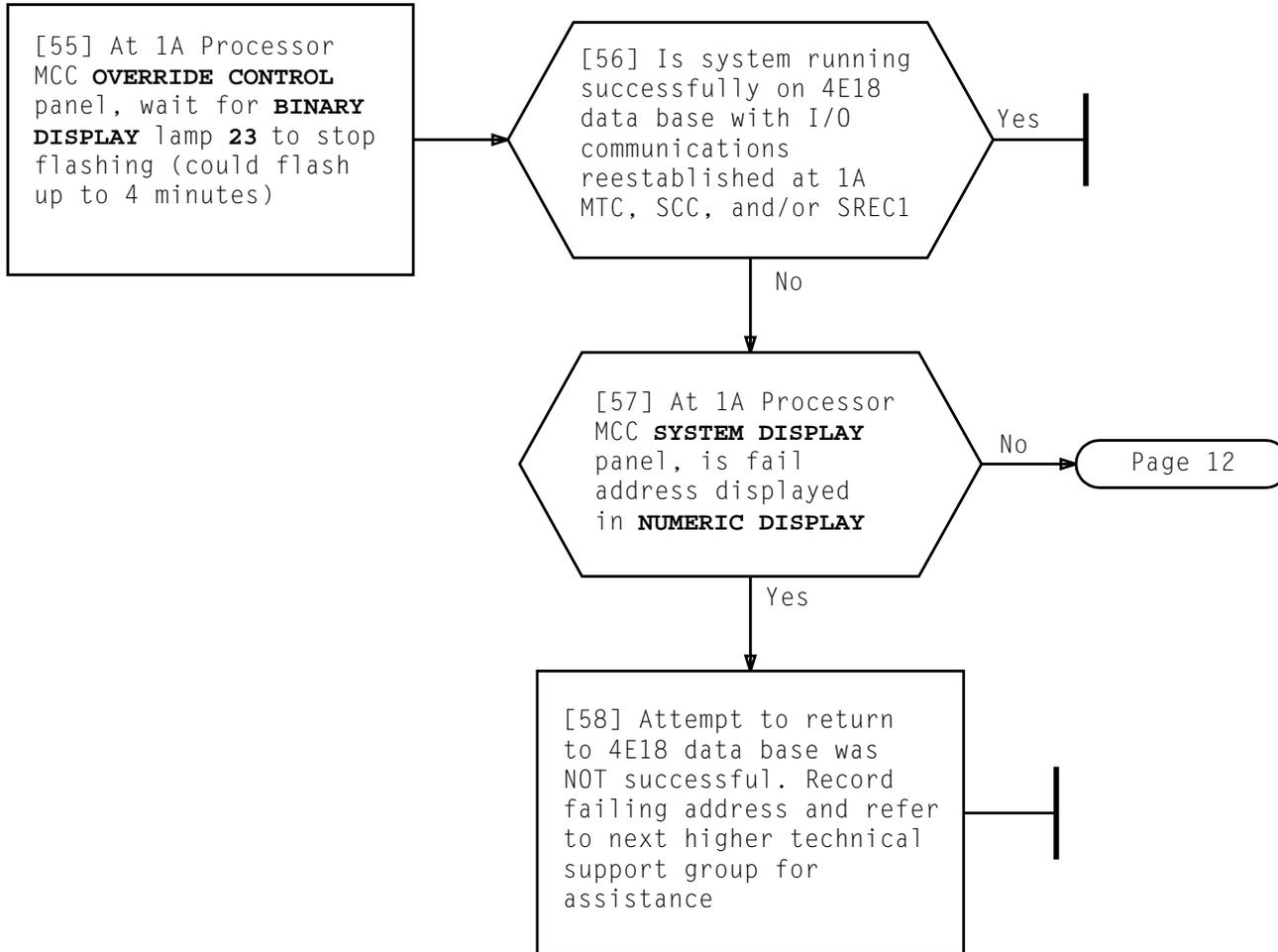
[48] Wait for either **NUMERIC DISPLAY** to start counting or **REPEATED PC** lamp comes on





**BACK-OUT TO 1A PROCESSOR (4E18 GENERIC)**

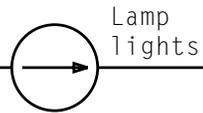
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**BACK-OUT TO 1A PROCESSOR (4E18 GENERIC)**

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[59] At **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **RESTORE MTC I/O** key



AND

[60] Depress **ACTIVATE-PROGRAM REQUEST** key

[61] Is system running with I/O communications reestablished at 1A MTC, SCC, and/or SREC1

Yes

No

[62] Attempt to return to 4E18 data base was NOT successful. Record failing address and refer to next higher technical support group for assistance

**BACK-OUT TO 1A PROCESSOR (4E18 GENERIC)**

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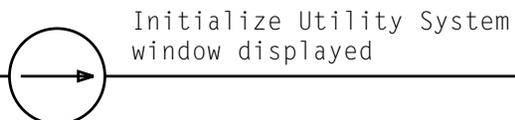
[1] At workstation where matchers were set up  
In UCD window, enter `ps -ax | grep rstmatcher`

[2] Using printout (Step 1) and  
FIG. 1, determine PID for  
`rstmatcher` and record

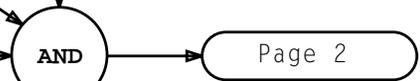
[3] Enter `kill -9 aaa`  
(aaa = PID recorded  
in Step 2)



[4] See NOTE 1.  
Click on **INIT US** icon



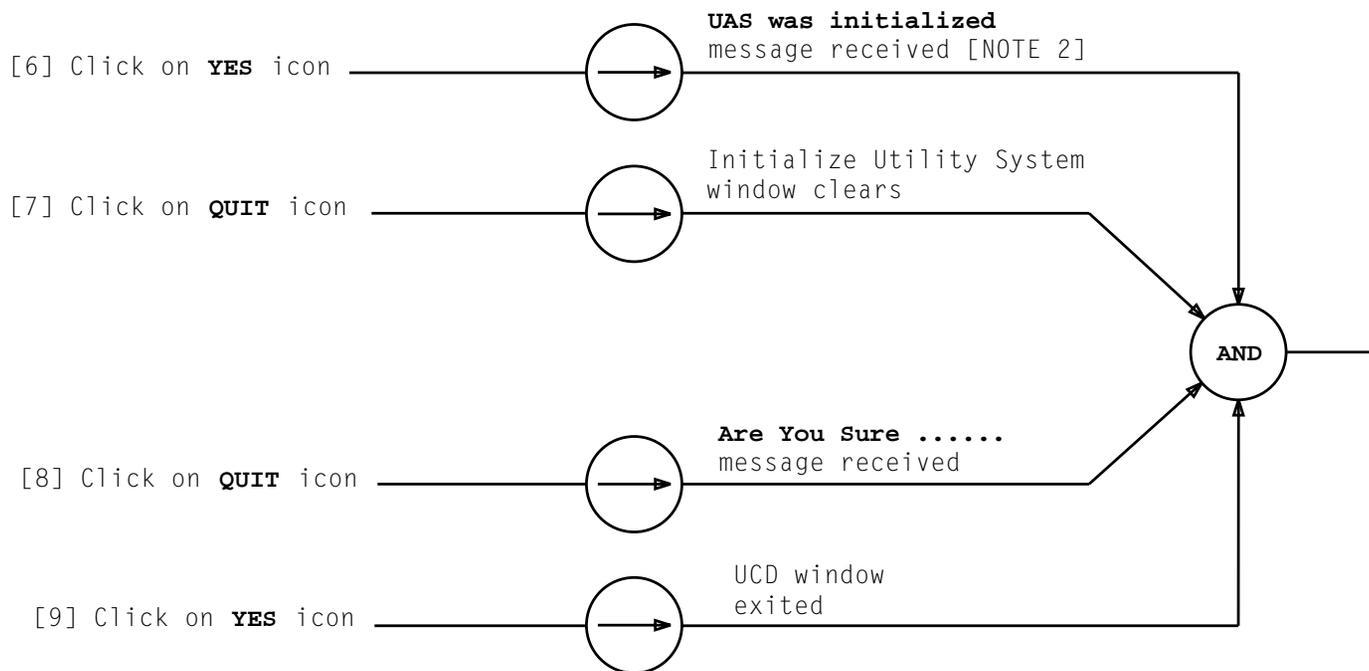
[5] Click on **INIT ALL** icon



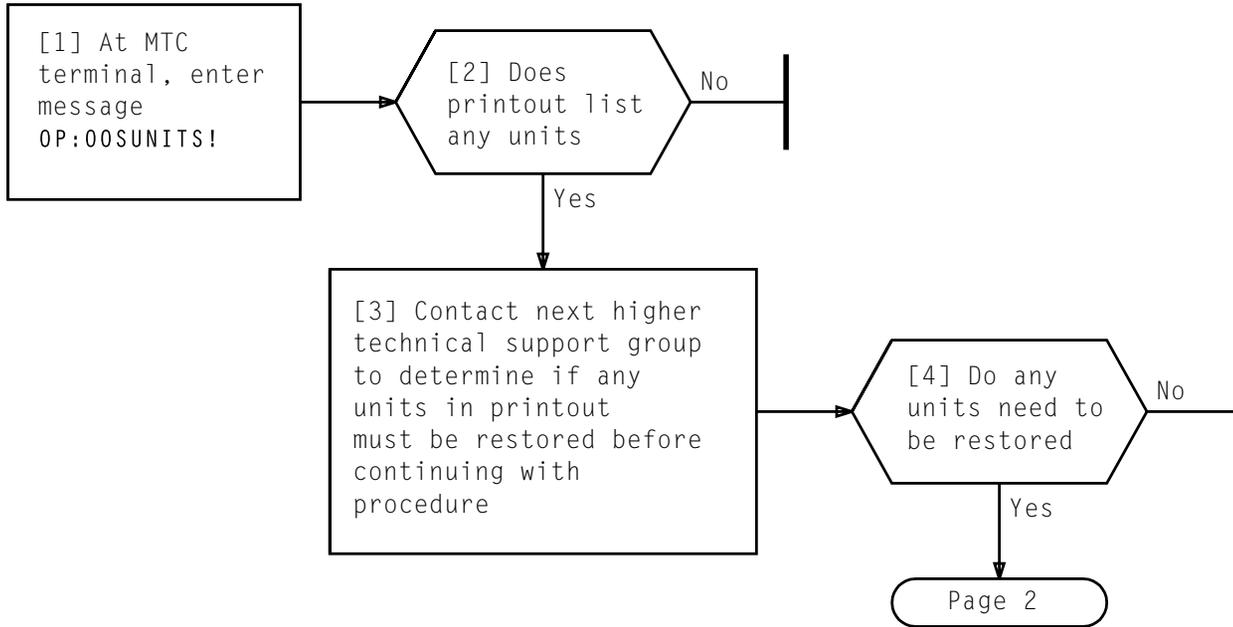
```
aaa bb c d ee:ff rstmatcher /uprog/lb/monitor1B-boot&  
└──┬──┘  
    Record this value
```

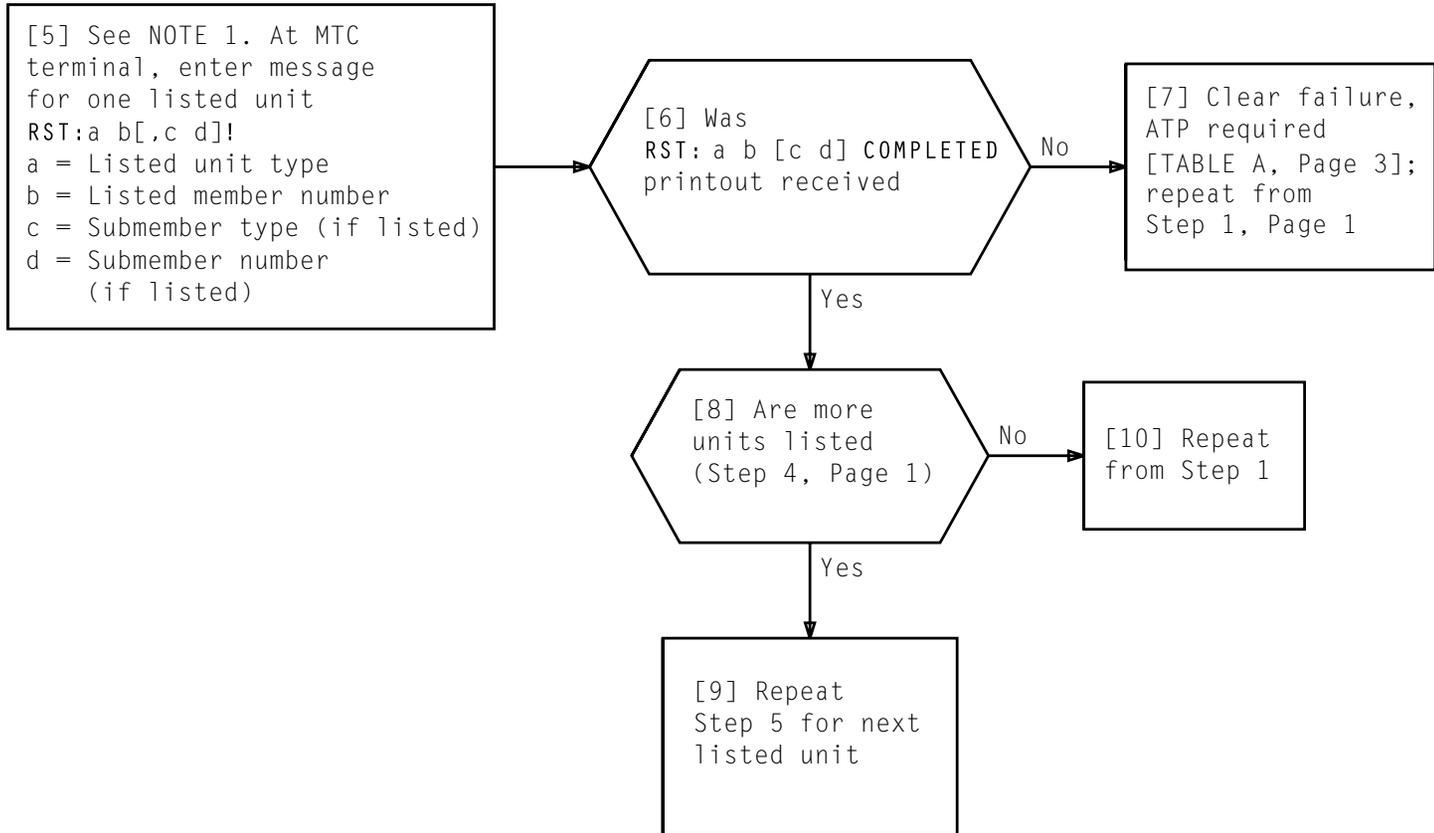
FIG. 1 - PID Format

NOTE 1	
Use <b>SELECT</b> key on mouse to click for Steps 4 through 10	
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NOTE 2	
It will take short time before response is received	
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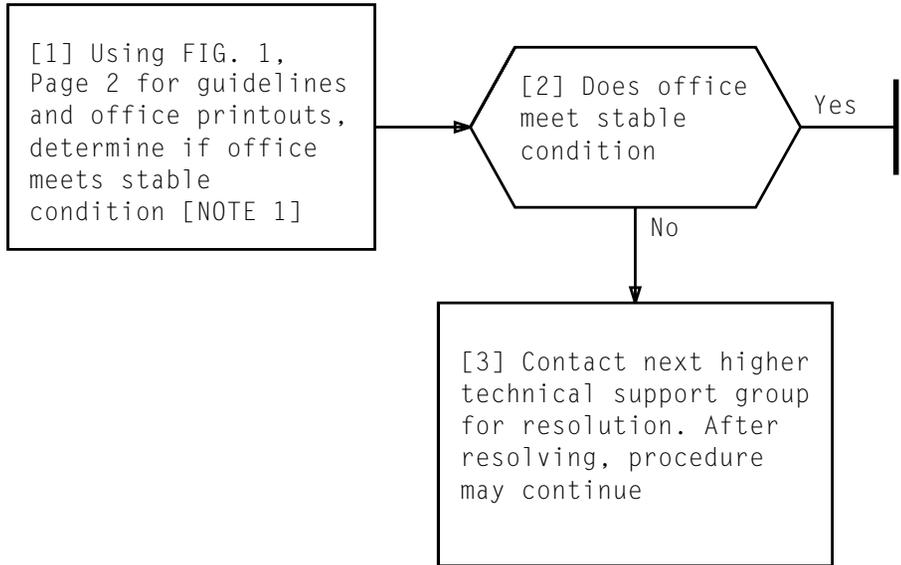


NOTE 1 Variables c and d are only to be used if submember is listed	
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TABLE A			
UNIT TYPE	TROUBLE CLEARING VOLUME	UNIT TYPE	TROUBLE CLEARING VOLUME
ADS (TUC and DUS)	254-251-010	MISC A, B, C	234-151-043
API	254-251-016	NCLK	234-151-013
AUB	254-251-010	PCDF J5A007B	254-251-025
CC	254-251-001	PCDF J5A007C	254-251-026
CNI	234-151-120	PS	254-251-005
CS and ECS	254-251-005	PUBB	234-151-015
DIF	234-151-055	SCS	234-151-077
DT	234-151-045	SP1	234-151-031
EST	234-151-050	SP2	234-151-032
IO J5A006A	254-251-020	TGR	234-151-033
IO J5A006C	254-251-021	TMS	234-151-011
IO J5A006D	254-251-022	TSI	234-151-012
MCC/PPI	234-151-006	VIF	234-151-025
MFS	234-151-041		

**ENSURE 1A PROCESSOR UNITS ARE IN-SERVICE**

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**DETERMINE IF OFFICE IS STABLE**

NOTE 1	
FIG. 1 is based on 7-day rolling average for all per-day measures; all other measures are as indicated. All resolved troubles are discounted from measures	
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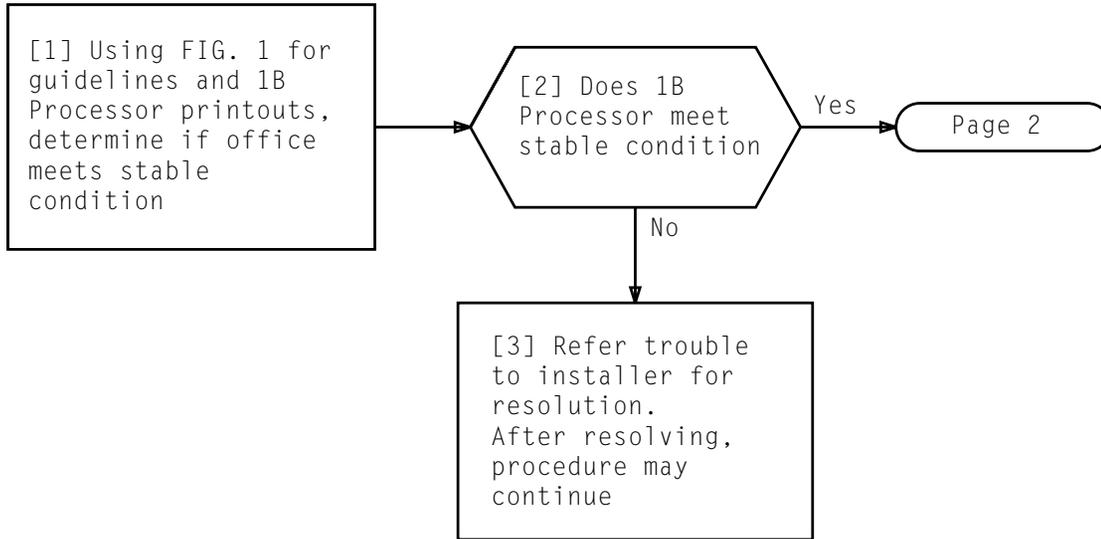
- INTERRUPTS
  - 1A PROCESSOR ≤ 1 PER MEMBER NUMBER PER DAY  
≤ 3 PER DAY TOTAL
  - TMS, NC, PUB, IO, CCIS ≤ 2 PER MEMBER NUMBER PER DAY  
≤ 4 PER DAY TOTAL
  - PERIPHERY, PER OPERATIONAL SP CORE (SP, DT, TSI) OR DIF (DIF, TSI COMPLEX) (THE ALLOWABLE DAILY INTERRUPT COUNT SHALL NOT EXCEED 25, REGARDLESS OF OFFICE SIZE) ≤ 3 PER DAY
  - PBFRs ≤ 1 PER DAY
- INTERJECTS ≤ 2 PER MEMBER NUMBER PER DAY  
≤ 5 PER DAY TOTAL
- BASE LEVEL  
ANALYZED, CORRECTED AND/OR UNDERSTOOD
- PHASES/DUPLEX FAILURES
  - DIRECTED PHASE 1 ≤ 1 IN 2 WEEKS
  - SYSTEM PHASE 1 ≤ 1 IN 1 WEEK
  - PHASE 2 OR 3 ≤ 1 IN 4 WEEKS
  - DT, VIF, OR EST ≤ 1 IN 4 WEEKS
  - TGR/TER LINK PAIR ≤ 1 IN 2 WEEKS
- OUT-OF-SERVICE UNITS ≤ 5 AT ANYTIME
  - NUMBER OUT-OF-SERVICE
  - CRITICAL UNITS:
 

CC	DIF	PS	TMSP
CS	LN	PUB	TSI
CU	NCLK	SP	
- 3B COMPUTER
  - INTERRUPTS ≤ 3 PER DAY
  - PHASE 1 ≤ 1 IN 4 WEEKS
  - PHASE 2 OR 3 ≤ 1 IN 4 WEEKS
  - CNI RING INIT ≤ 1 IN 2 WEEKS
  - CNI RING TRANSPORT ERRORS ≤ 2 PER DAY
  - DLNE ERRORS ≤ 1 PER DAY

FIG. 1 - Office Stability Guidelines

DETERMINE IF OFFICE IS STABLE

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• INTERRUPTS

(AUB, AUI, CC, CS, CSB, IFB, MUP, PS, PSB, SSD)

NONE ALLOWED  
[NOTE 1]

• PHASES, DUPLEX FAILURES, OR ZERO STARTS

1. PHASE 1
2. DIRECTED PHASE 1
3. PHASES 2 AND 3
4. MULTIPLE UNIT FAILURE
5. PHASE 4

NONE ALLOWED  
NONE ALLOWED  
NONE ALLOWED  
NONE ALLOWED  
NONE ALLOWED

**NOTE 1:** Interrupts caused by documented hardware/software-related problems or installer errors must be evaluated to determine if they can be deleted from stability requirements. Interrupts caused by documented, hardware-related problems which are a measure of equipment quality, cannot be deleted from stability requirements

**FIG. 1 - 1B Processor Stability Guidelines**

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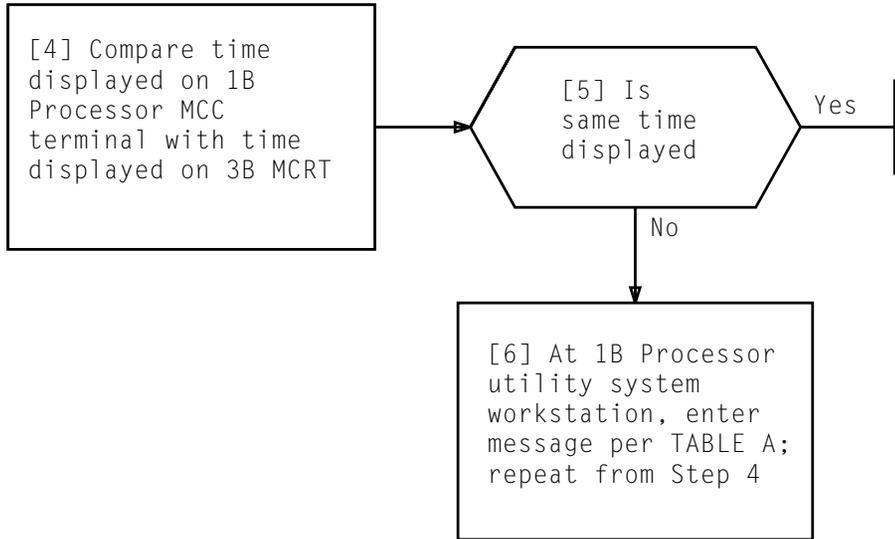
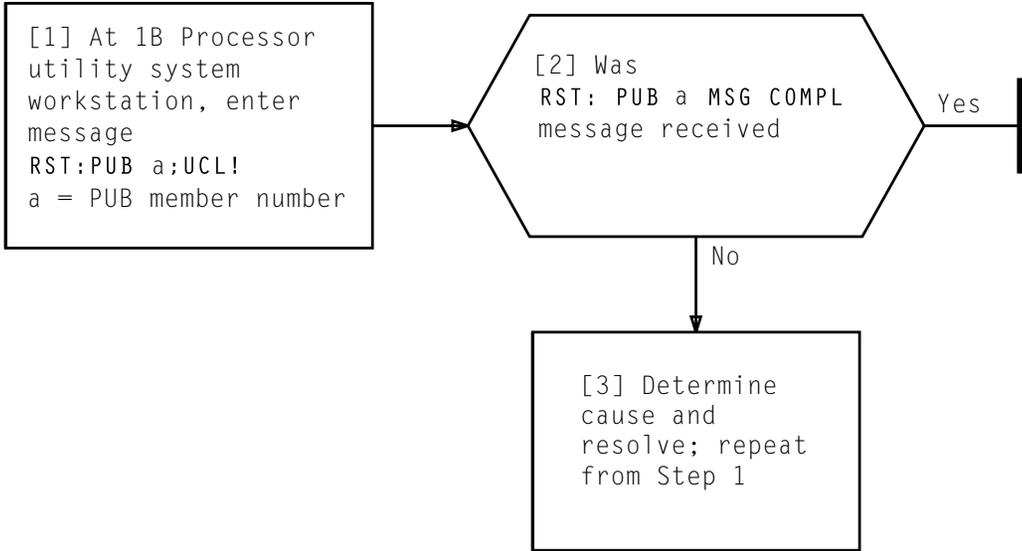
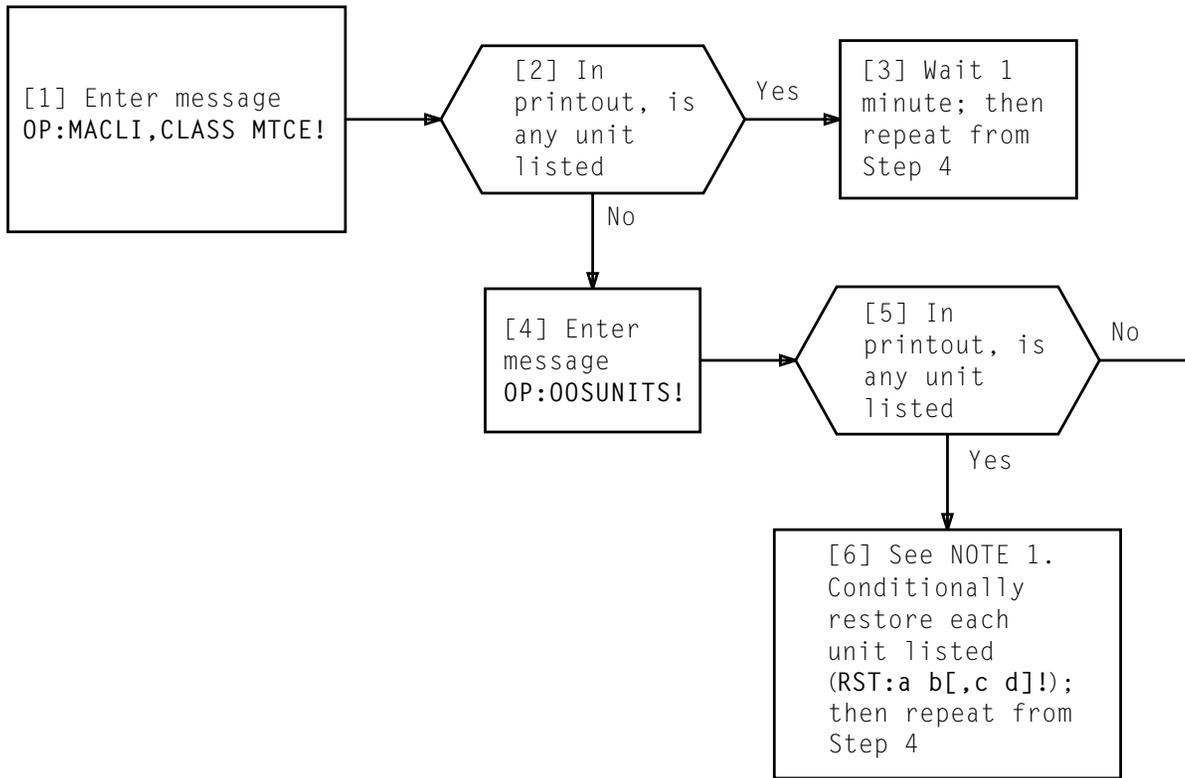


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	SET:CLK:DAY a,DATE b,TIME ccdd!
	a = day (MON, TUE, WED, and so on) b = date (6-digit number - mmddyy) cc = hour dd = minute

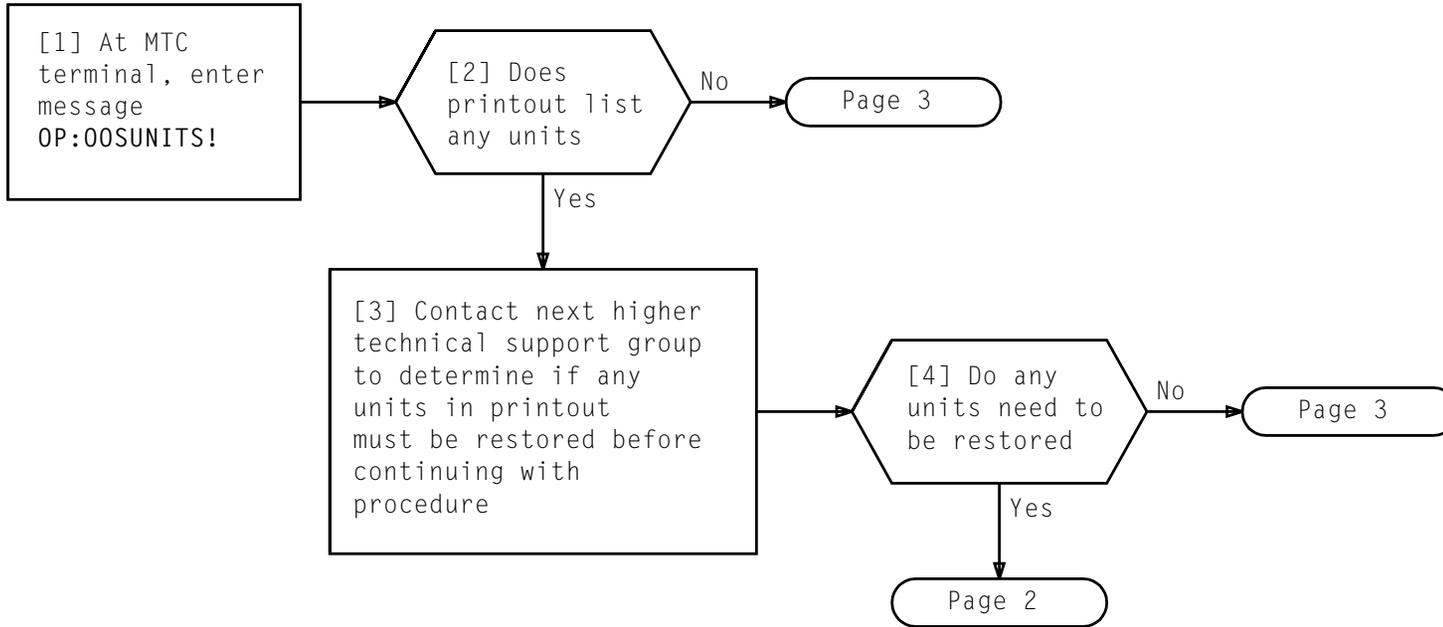


**RESTORE PUB TO SERVICE UNCONDITIONALLY**

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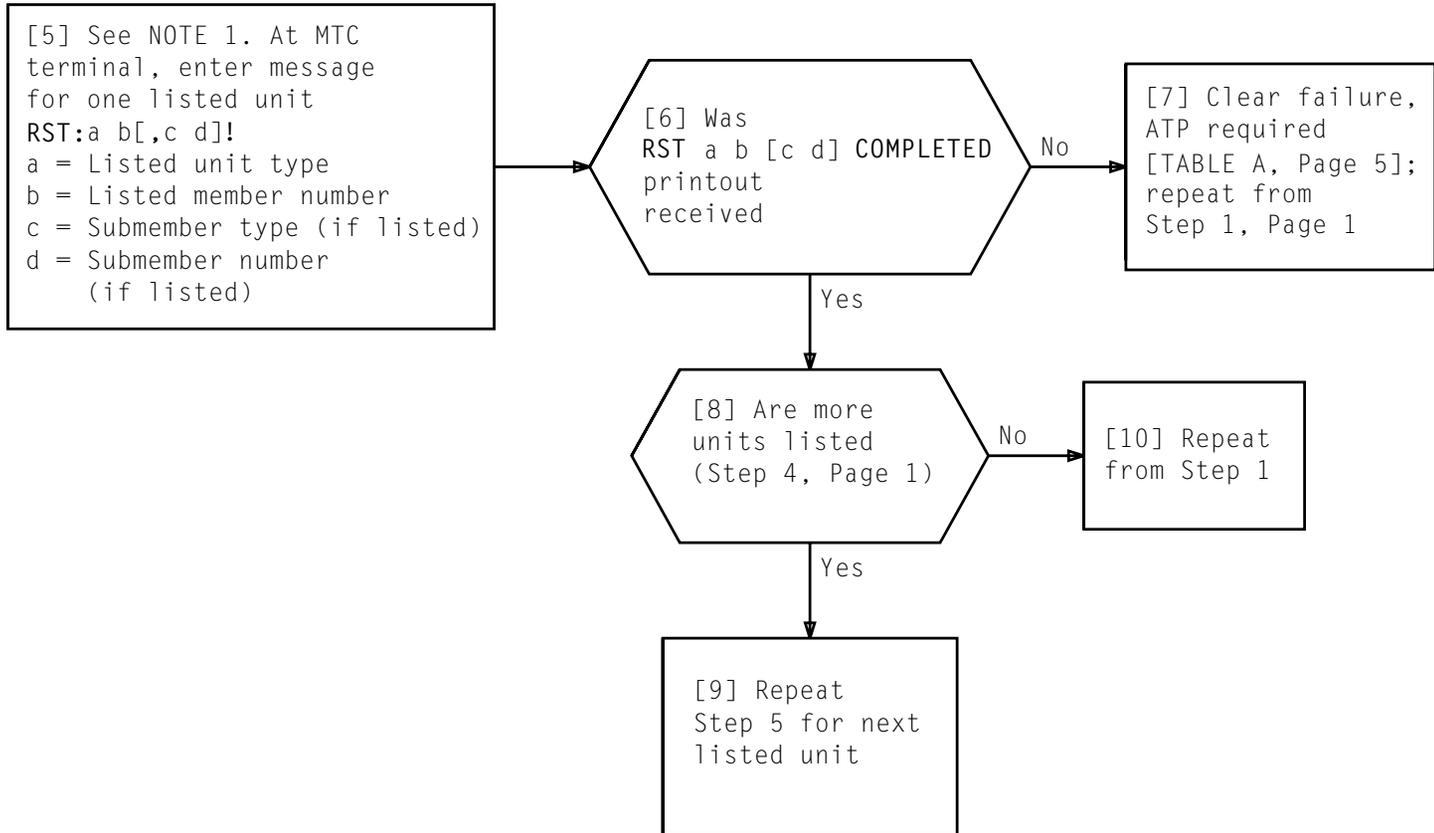


NOTE 1	
IFB must be restored before restoring MUP, AUI, or SSD. AUB must be restored before restoring API, DUS, or TUC	
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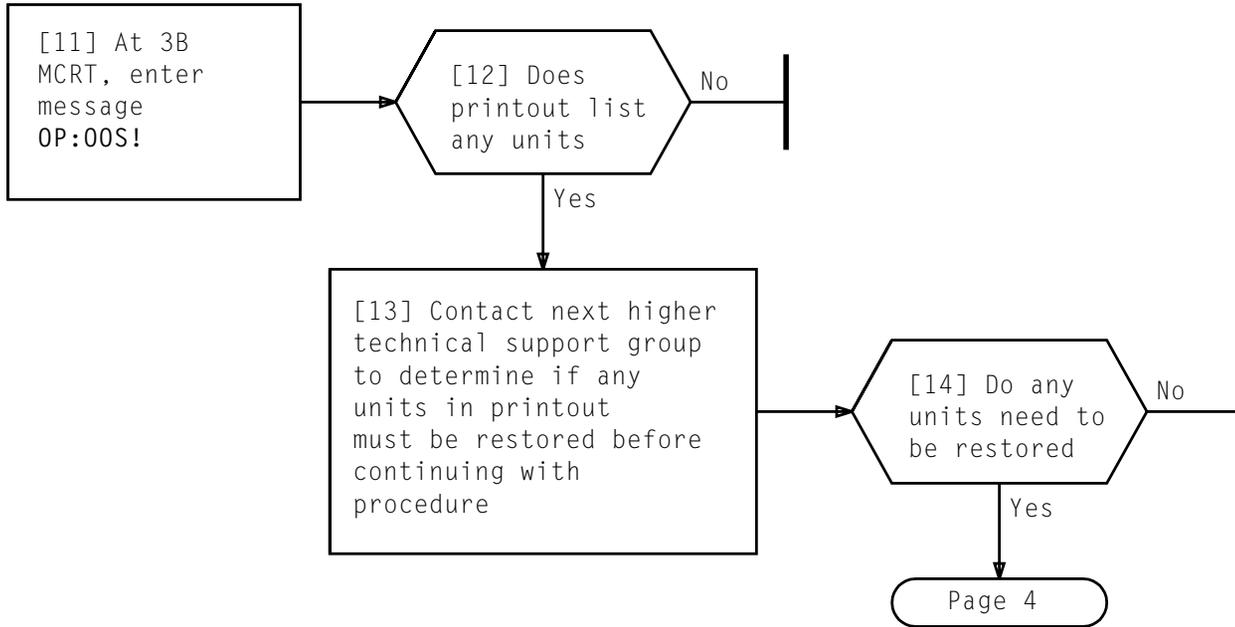


**ENSURE ALL UNITS ARE IN-SERVICE**

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NOTE 1	
Variables c and d are only to be used if submember is listed	
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**ENSURE ALL UNITS ARE IN-SERVICE**

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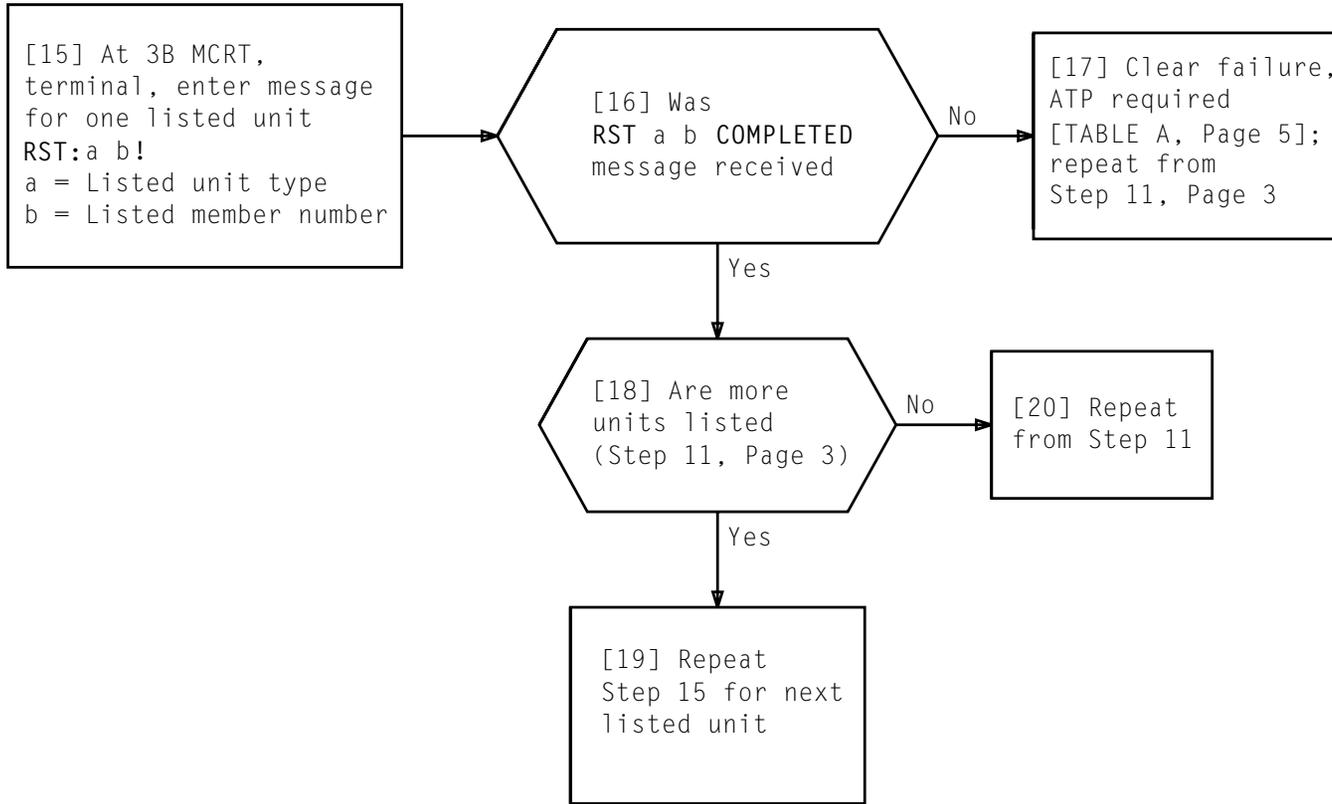
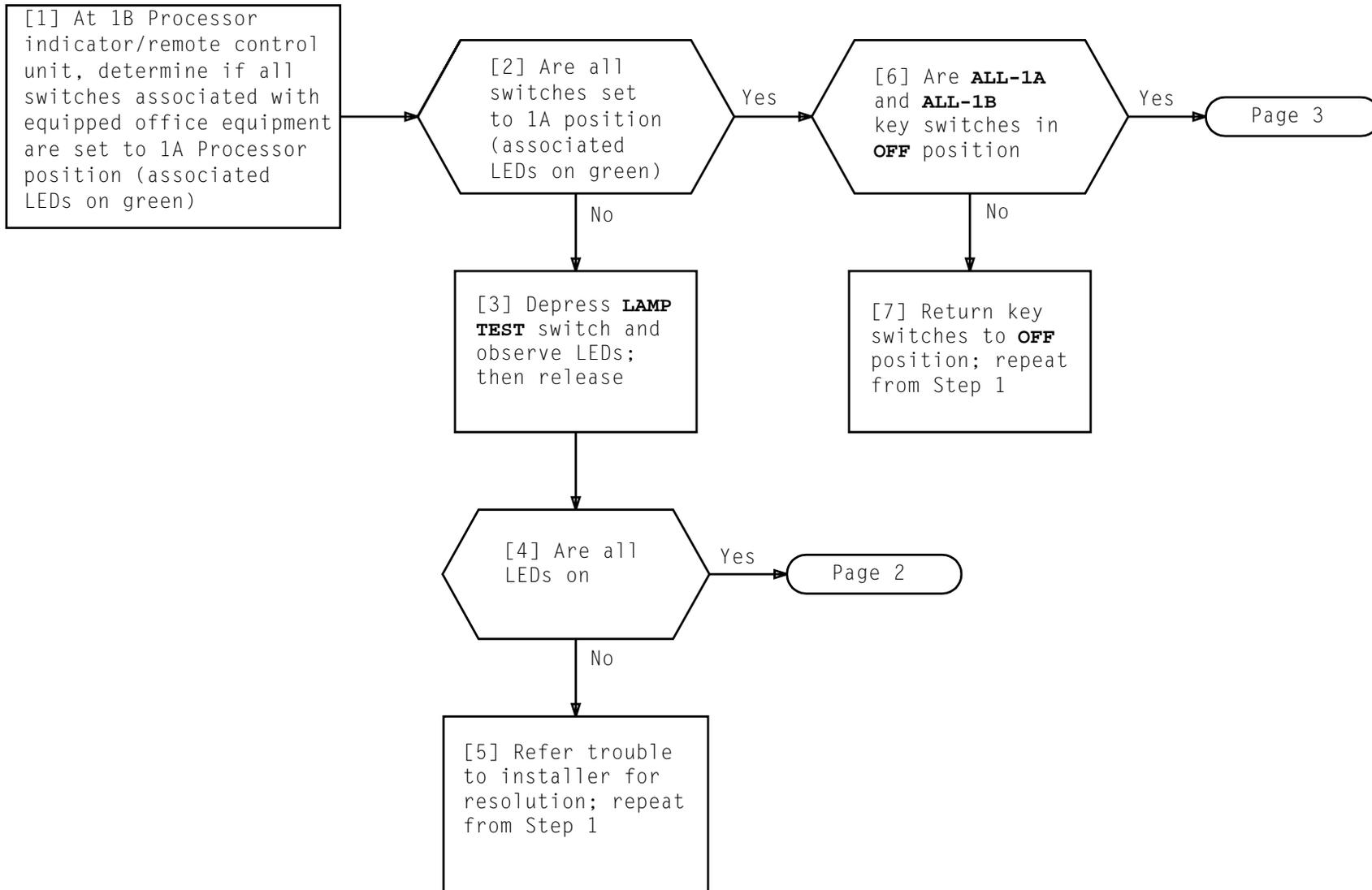


TABLE A			
UNIT TYPE	TROUBLE CLEARING VOLUME	UNIT TYPE	TROUBLE CLEARING VOLUME
3B Computer Model 1	254-301-812	MCC/PPI	234-151-006
	254-301-813	MFS	234-151-041
3B Computer Model 2/3	254-302-812	MISC A, B, C	234-151-043
ADS (TUC and DUS)	254-251-010	NCLK	234-151-013
API	254-251-016	PCDF J5A007B	254-251-025
AUB	254-251-010	PCDF J5A007C	254-251-026
CC	254-251-001	PS	254-251-005
CNI	234-151-120	PUBB	234-151-015
CS and ECS	254-251-005	SCS	234-151-077
DIF	234-151-055	SP1	234-151-031
DT	234-151-045	SP2	234-151-032
EST	234-151-050	TGR	234-151-033
IO J5A006A	254-251-020	TMS	234-151-011
IO J5A006C	254-251-021	TSI	234-151-012
IO J5A006D	254-251-022	VIF	234-151-025

**ENSURE ALL UNITS ARE IN-SERVICE**

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**ENSURE 1B PROCESSOR INDICATOR/REMOTE CONTROL UNIT SWITCHES SET TO 1A PROCESSOR POSITION AND PERMIT BUS ACCESS**

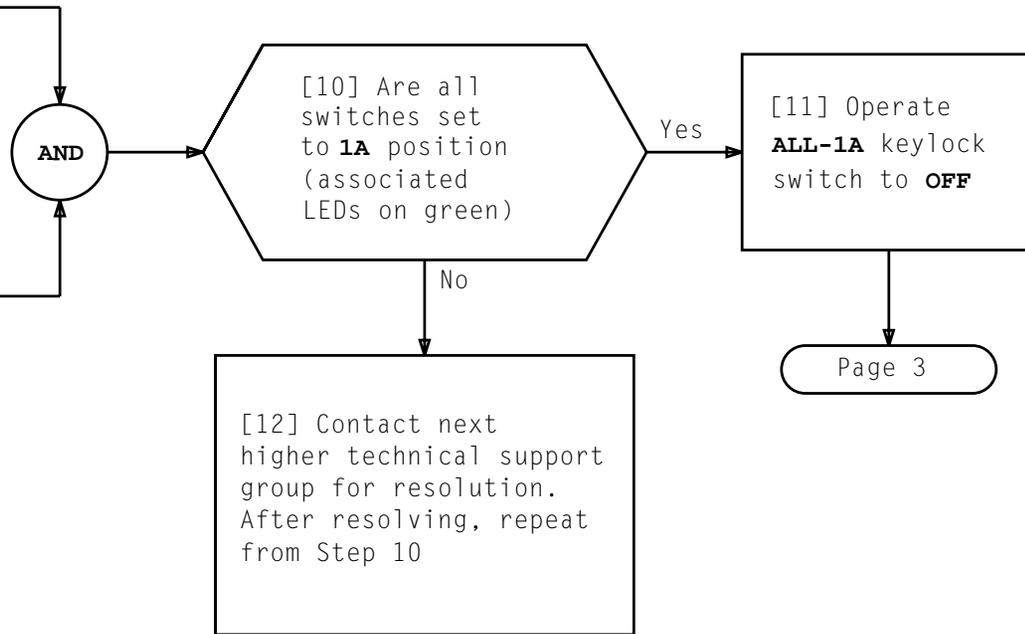
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At indicator/remote control unit:

[8] Operate **ALL-1A** keylock

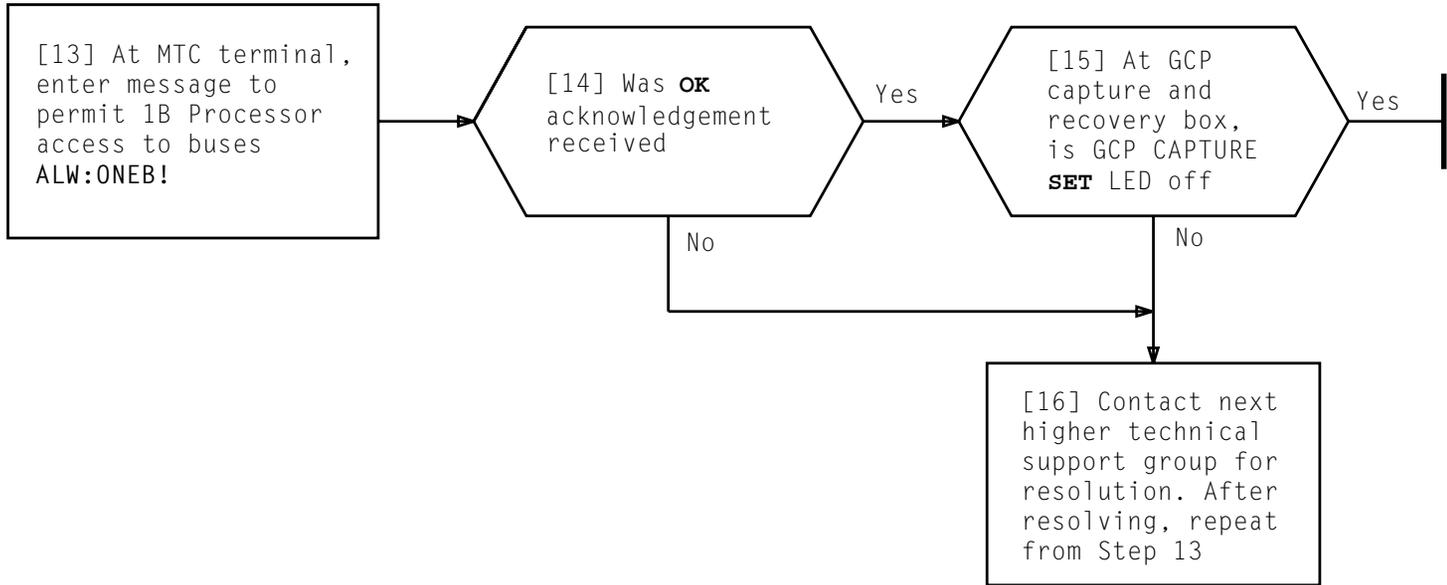
switch to **ON**

[9] Operate **ARM** switch to **ALL**



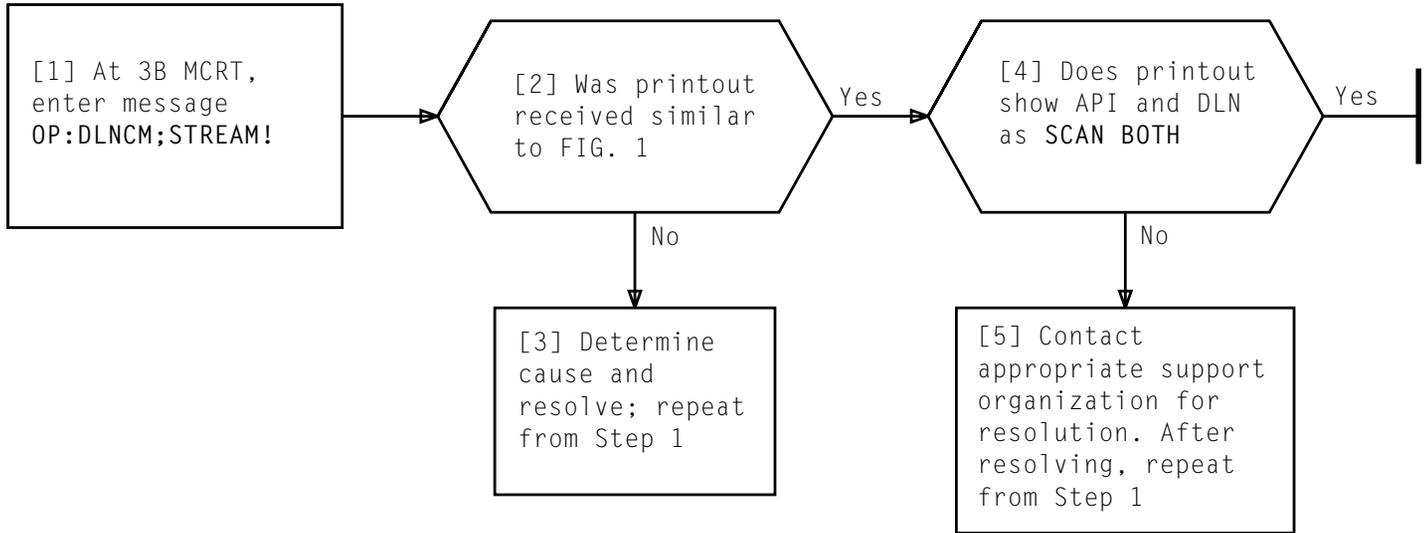
**ENSURE 1B PROCESSOR INDICATOR/REMOTE CONTROL UNIT SWITCHES SET TO 1A PROCESSOR POSITION AND PERMIT BUS ACCESS**

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**ENSURE 1B PROCESSOR INDICATOR/REMOTE CONTROL UNIT SWITCHES SET TO 1A PROCESSOR POSITION AND PERMIT BUS ACCESS**

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OP DLNCM STREAM COMPLETED

API-DLN STREAM STATUS

API: SCAN BOTH

DLN: SCAN BOTH

INCOMING BUFFER

START X'-----  
 END X'-----  
 LOAD POINTER X'-----  
 UNLOAD POINTER X'-----  
 END POINTER X'-----

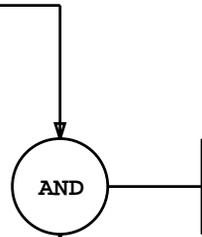
OUTGOING BUFFER

START X'-----  
 END X'-----  
 LOAD POINTER X'-----  
 UNLOAD POINTER X'-----  
 END POINTER X'-----

----- = VARIABLE HEX DATA

FIG. 1 - Sample OP:DLNCM Printout

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



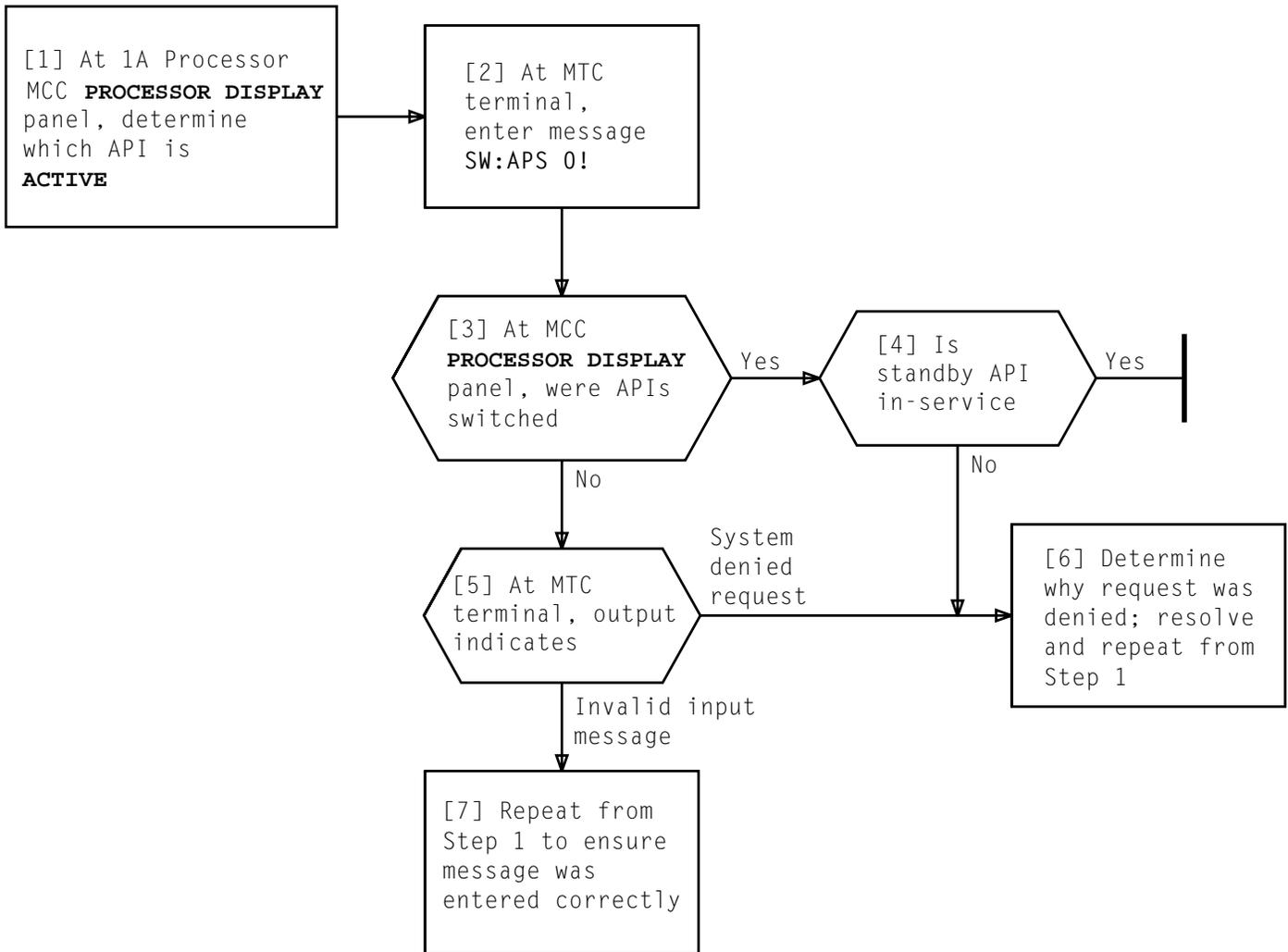
[2] Using printout and FIG. 1,  
determine API member number  
assigned SBY and record  
as standby for later use

APS 0 API 0 a API 1 b  
a = ACT or SBY  
b = SBY or ACT

FIG. 1 - Sample OP:APSTATUS Printout

**DETERMINE STANDBY API**

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[1] At MTC terminal, enter message  
ALW:APSTEST!

[2] Was  
ALW:APSTEST COMPLETED  
message received

[6] At 3B MCRT  
ROP, was message  
received per  
TABLE B

[3] Was  
NG, CODE 06  
received

[4] Enter  
message  
INH:APSTEST!;  
repeat from  
Step 1

[5] Using TABLE A  
and printout,  
determine cause  
and resolve;  
repeat rom Step 1

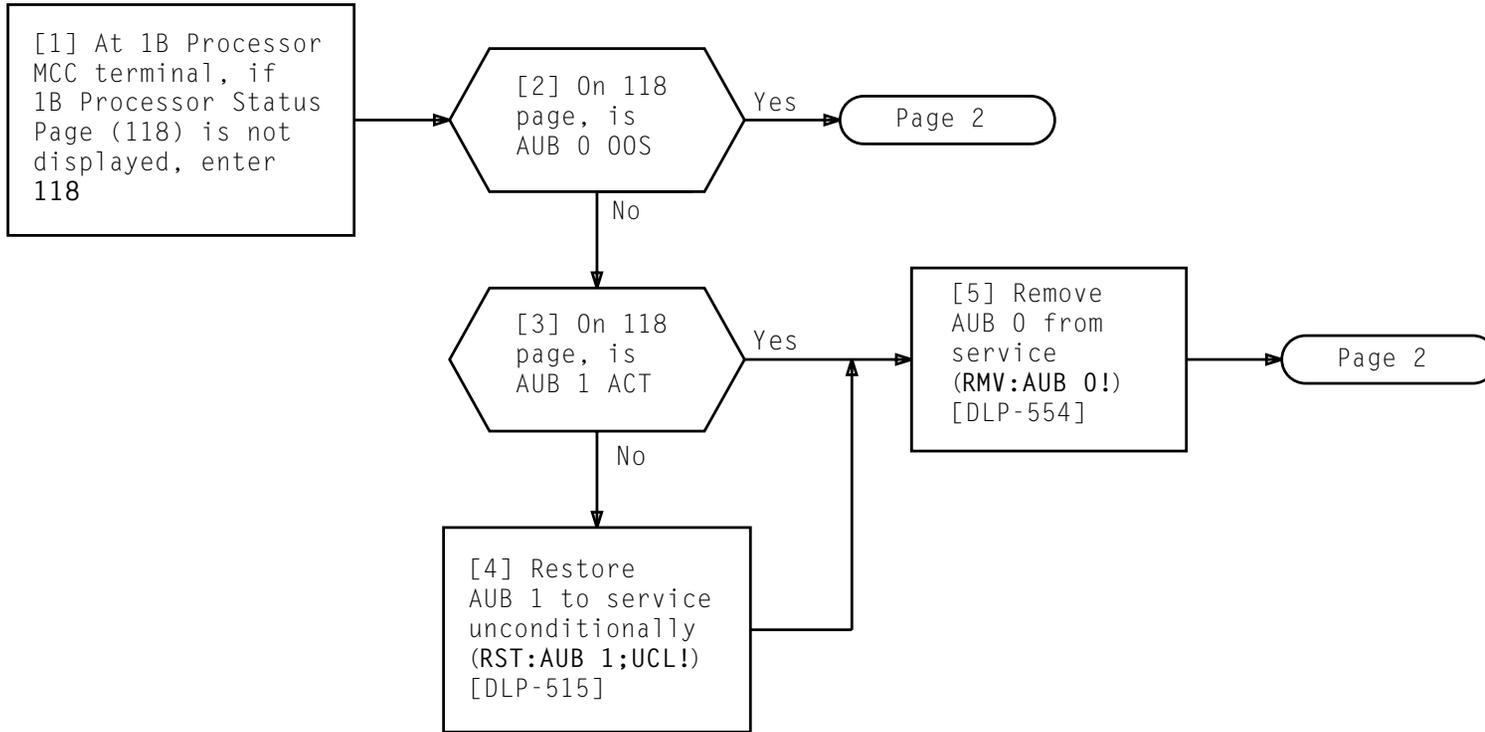
[7] Determine  
why request was  
denied; resolve  
and repeat from  
Step 1

TABLE A	
NG, CODE	REASON
01	API is not operational
02	API is duplex failed
03	One API must be OOS for testing
04	OOS API must be ATP for testing
06	APS test was already allowed
07	One AUB must be OOS for testing

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	REPT: APDRV STARTS STREAM EXERCISER TESTING - BSTATE: 4 RTC: xxxxxxxx REPT: TESTLOOP TO ACTIVATE NEW xxxxxx OF xxxx DO INIT CNI RTC: xxxxxxxx REPT: APDRV CREATE TESTLOOP PROCESS BSTATE:4 RTC: xxxxxxxx

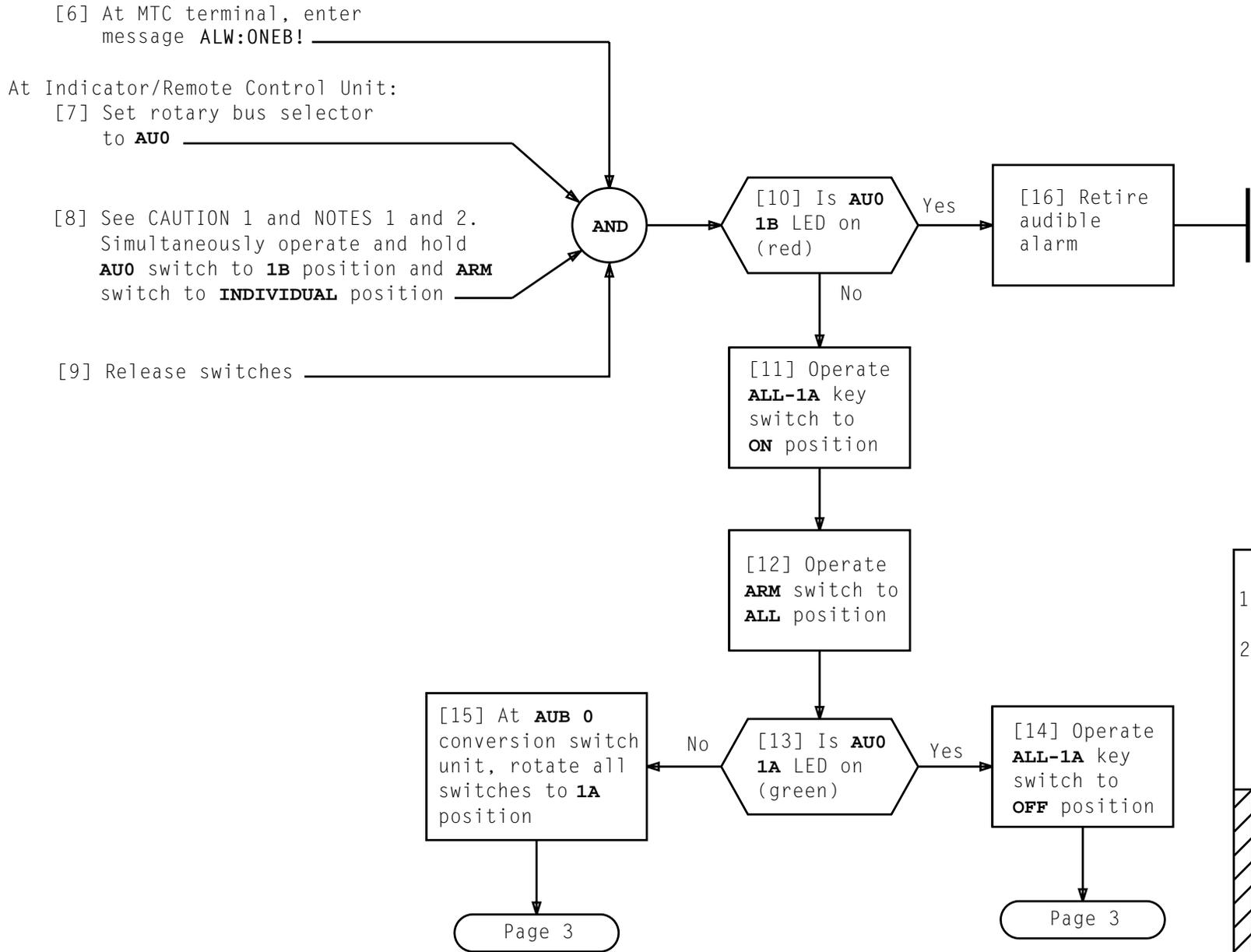
**SET API BEING TESTED TO OFF-LINE STATE**

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**SWITCH AUB 0 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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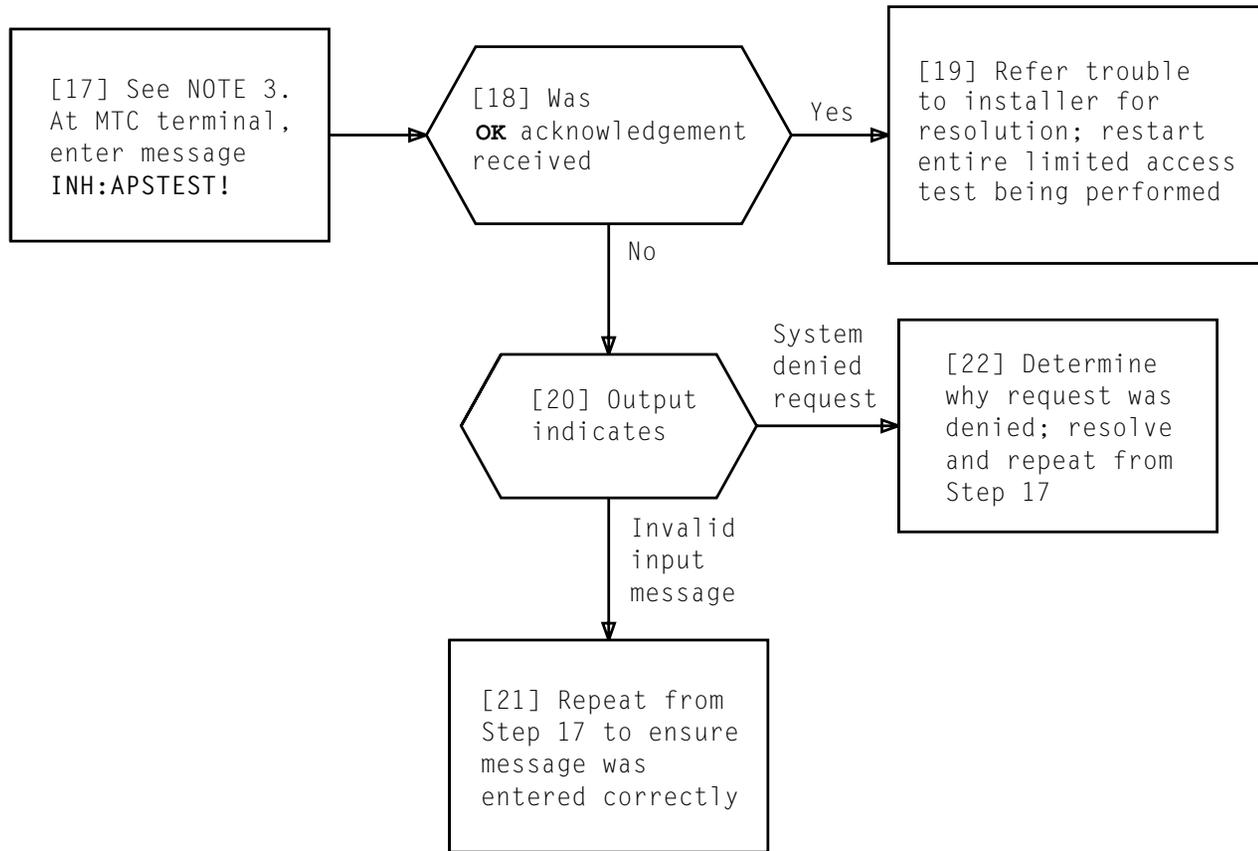
NOTES

1. Audible alarm will be received
2. REPT: 0A xx 1B CVSW OFNL ACTIVATED, FLOOR x message will be received at MTC terminal

**CAUTION 1**  
Care must be taken to ensure that only AUO and ARM switches are being operated

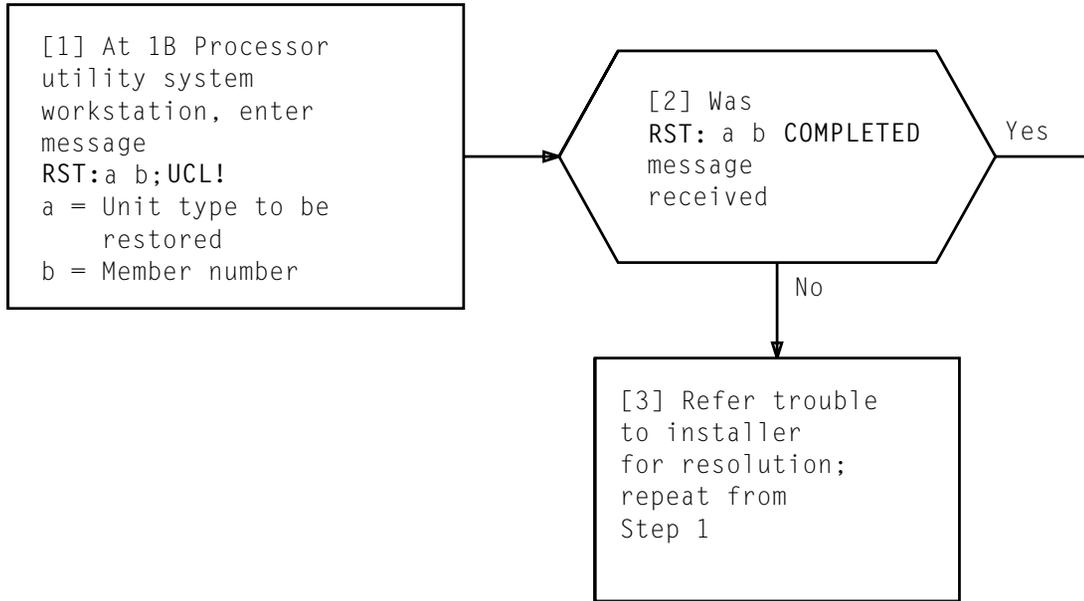
**SWITCH AUB 0 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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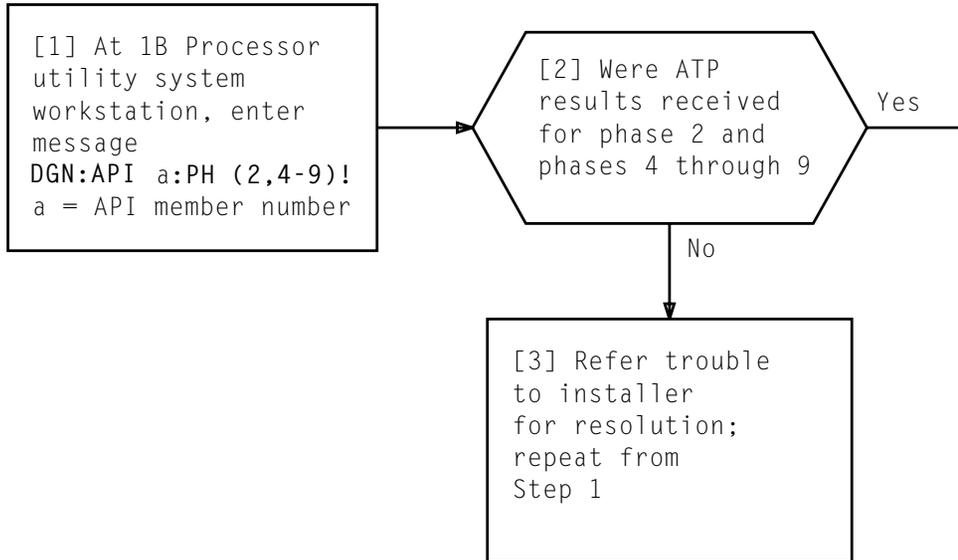
NOTE 3 After 1 minute, expect BLM messages from 1B processor and APIs to duplex fail	
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**SWITCH AUB 0 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS  
TO 1B PROCESSOR BUS ACCESS**



**RESTORE UNIT UNCONDITIONALLY**

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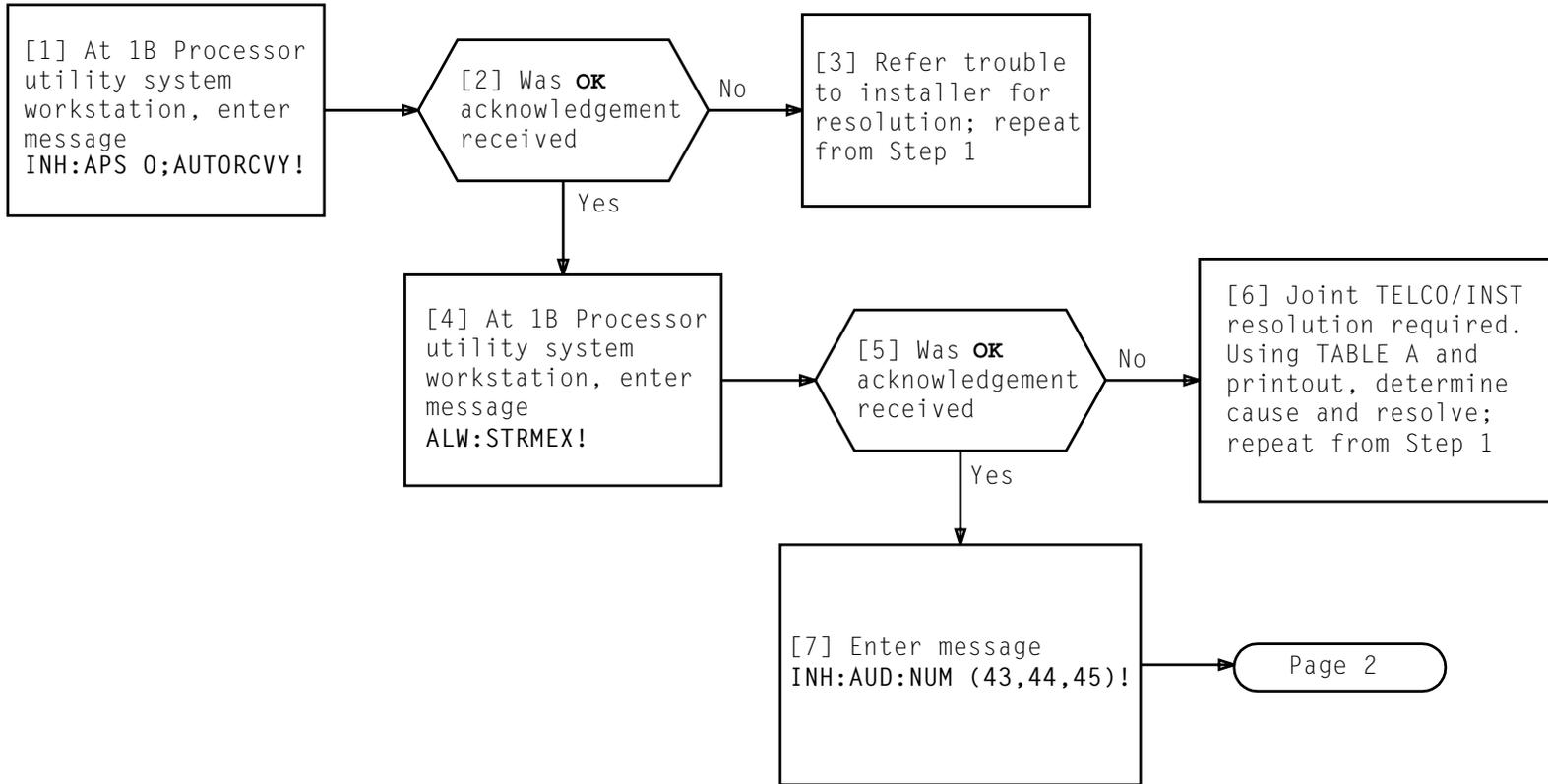


TABLE A	
NG, CODE	REASON
01	API is OOS
02	CNI is not provided in office
03	API is not operational in office
04	Attempt to bring test stream up failed
09	Test stream already up. Test stream must be down to start test. Enter INH:STRMEX! and repeat from Step 4

**PERFORM STREAM EXERCISER TEST**

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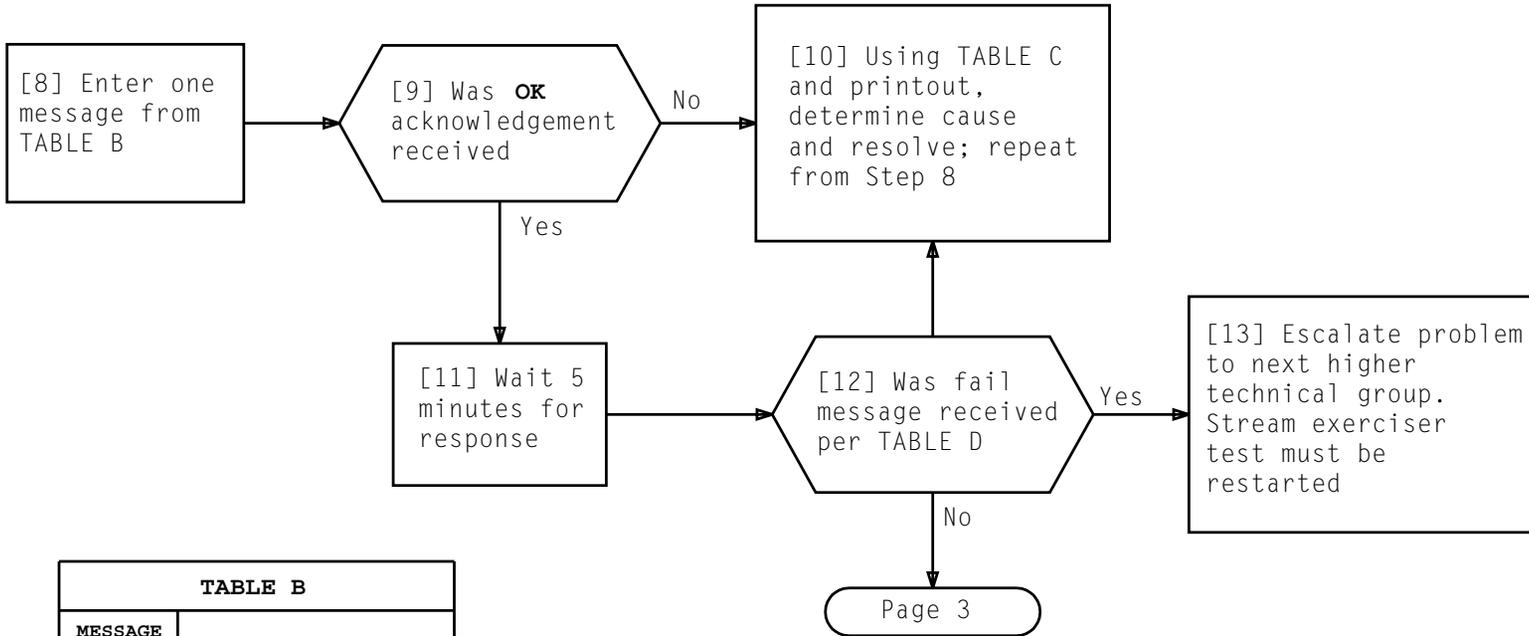


TABLE B	
MESSAGE NUMBER	INPUT MESSAGES
1	SET:STRMEX 1!
2	SET:STRMEX 5!
3	SET:STRMEX 10!

TABLE C	
NG, CODE	REASON
05	Stream exerciser was not enabled. ALW:STRMEX message must be used prior to this input message
10	Invalid input parameter. Valid values are 1 through 10

TABLE D	
MESSAGE NUMBER	FAIL MESSAGES
1	REPT STRMEX PROGRAM FOUND INVALID . . . . .
2	REPT STRMEX LOST MSG
3	REPT STRMEX LOAD FAIL CODE

**PERFORM STREAM EXERCISER TEST**

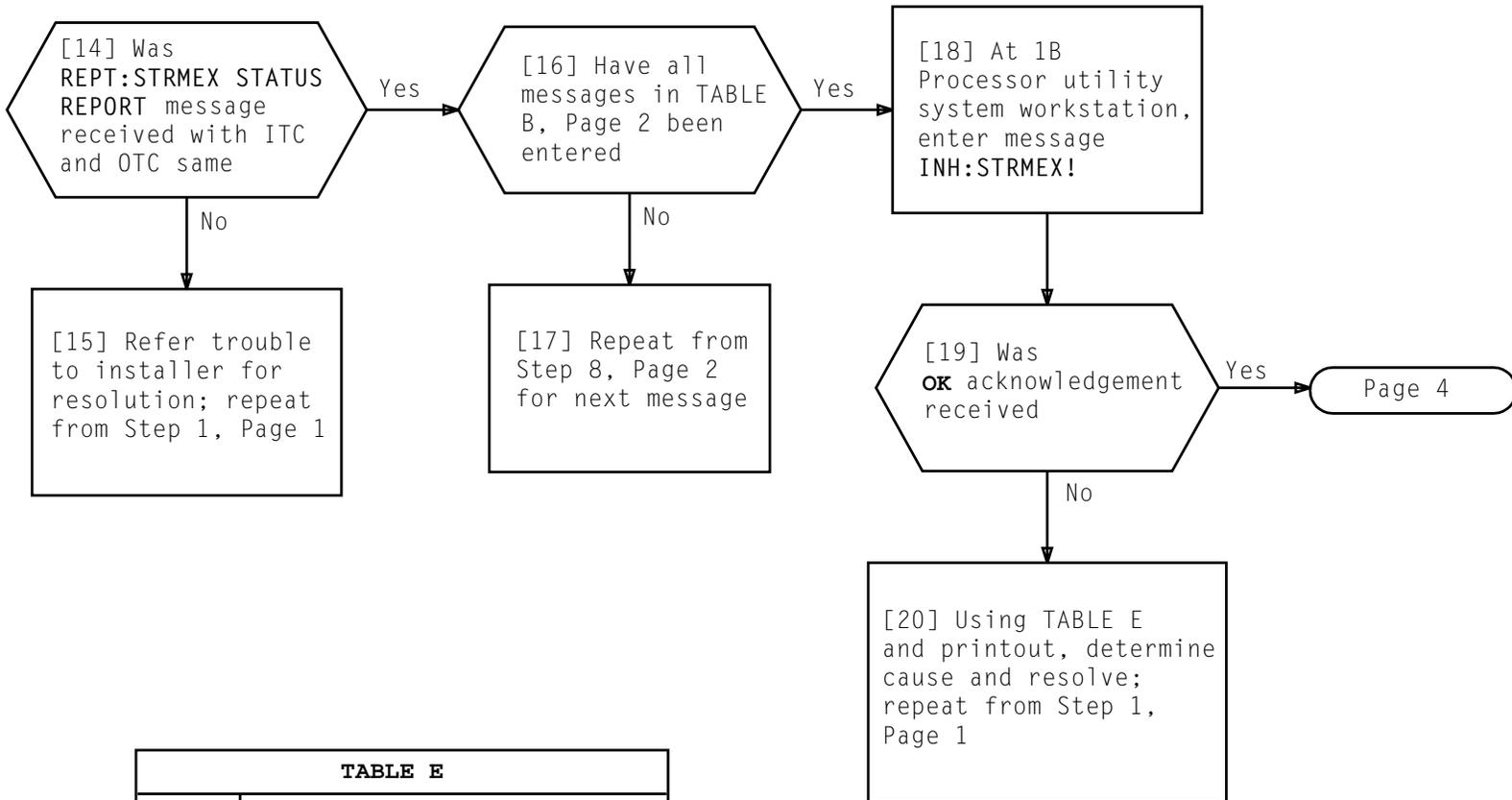
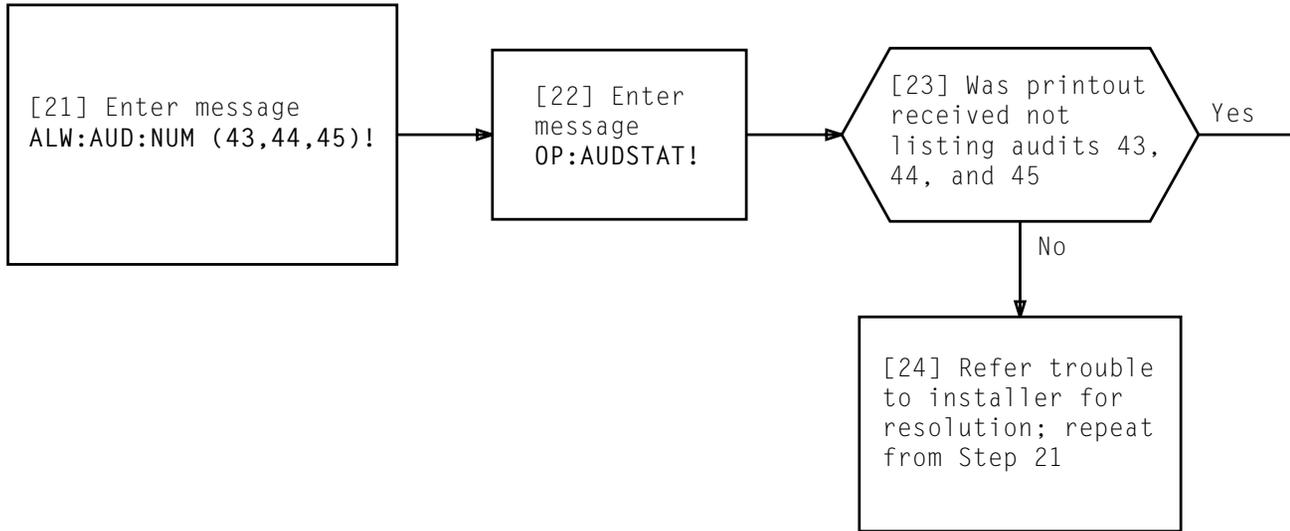
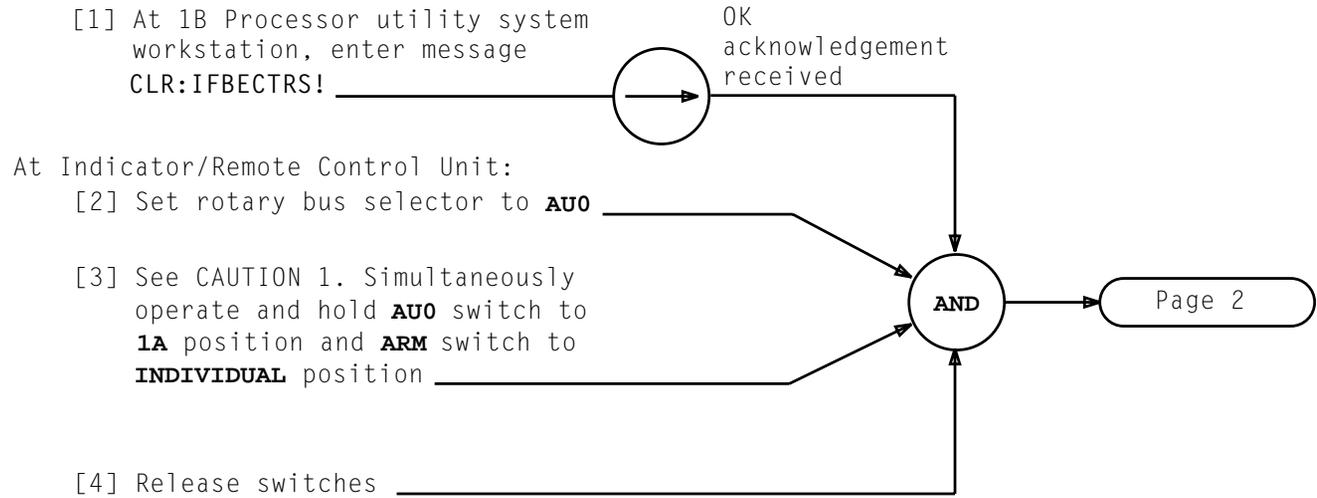


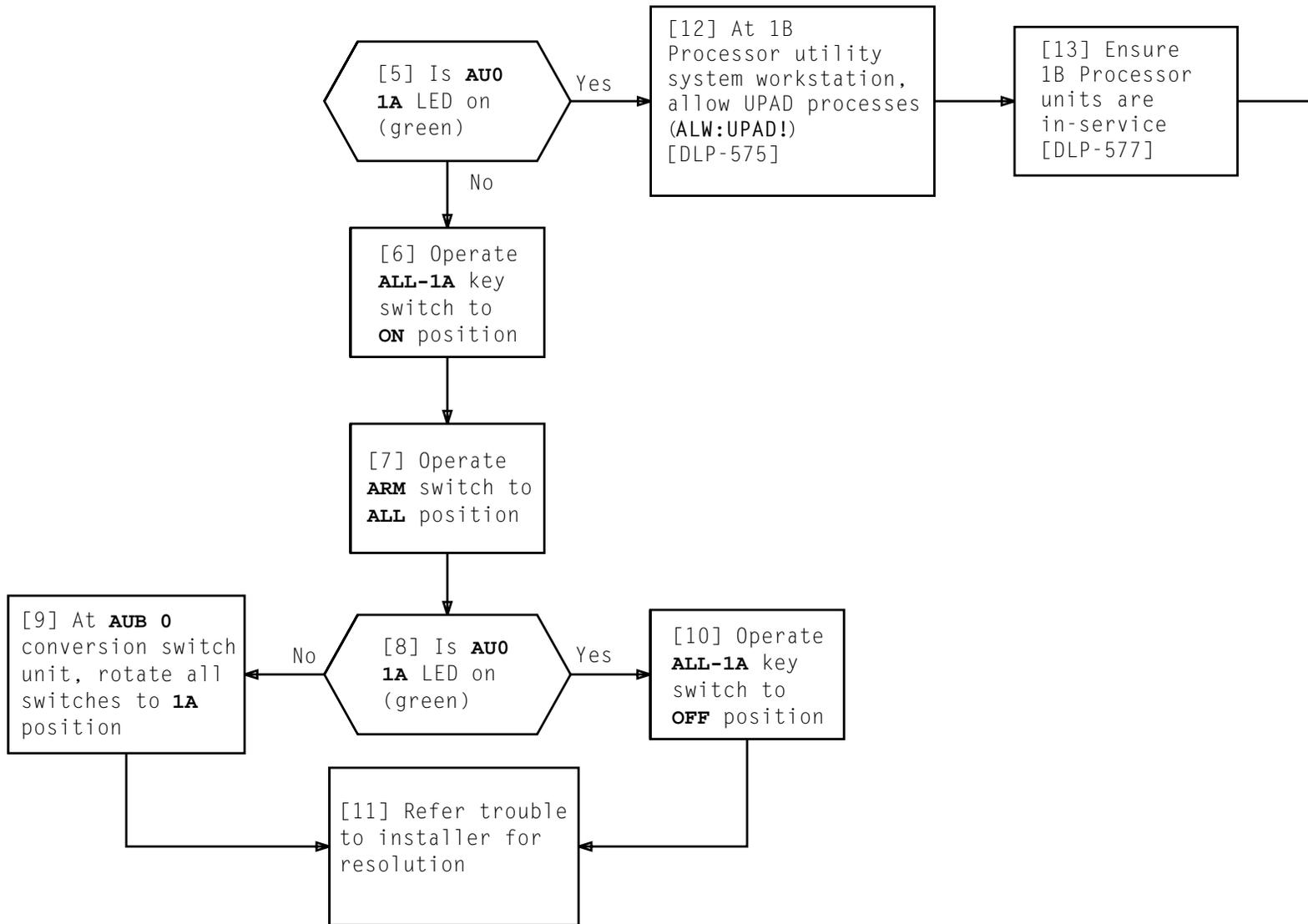
TABLE E	
NG, CODE	REASON
07	Stream exerciser was not allowed to run
08	Stream exerciser has not finished sending messages





<i>CAUTION 1</i>	
<i>Care must be taken to ensure that only AU0 and ARM switches are being operated</i>	
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**SWITCH AUB 0 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS TO 1A PROCESSOR BUS ACCESS**



**SWITCH AUB 0 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS TO 1A PROCESSOR BUS ACCESS**

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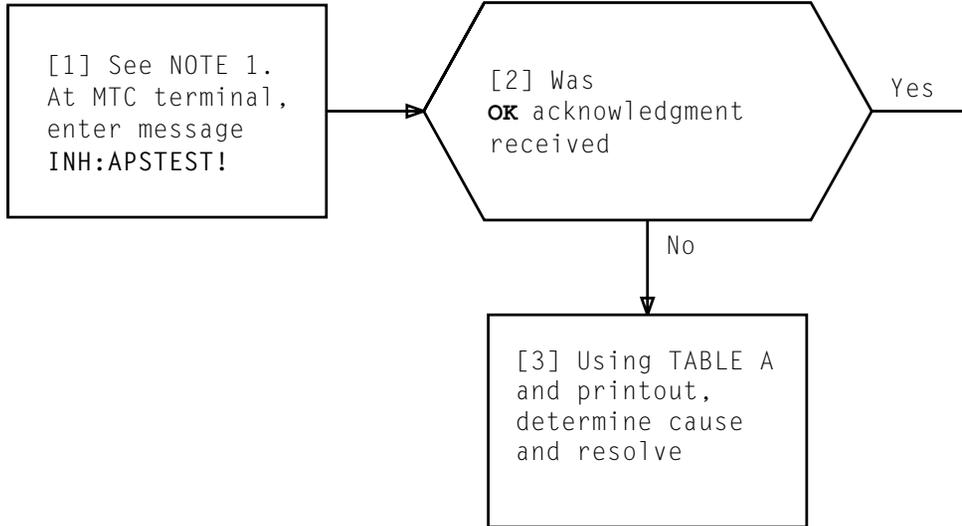
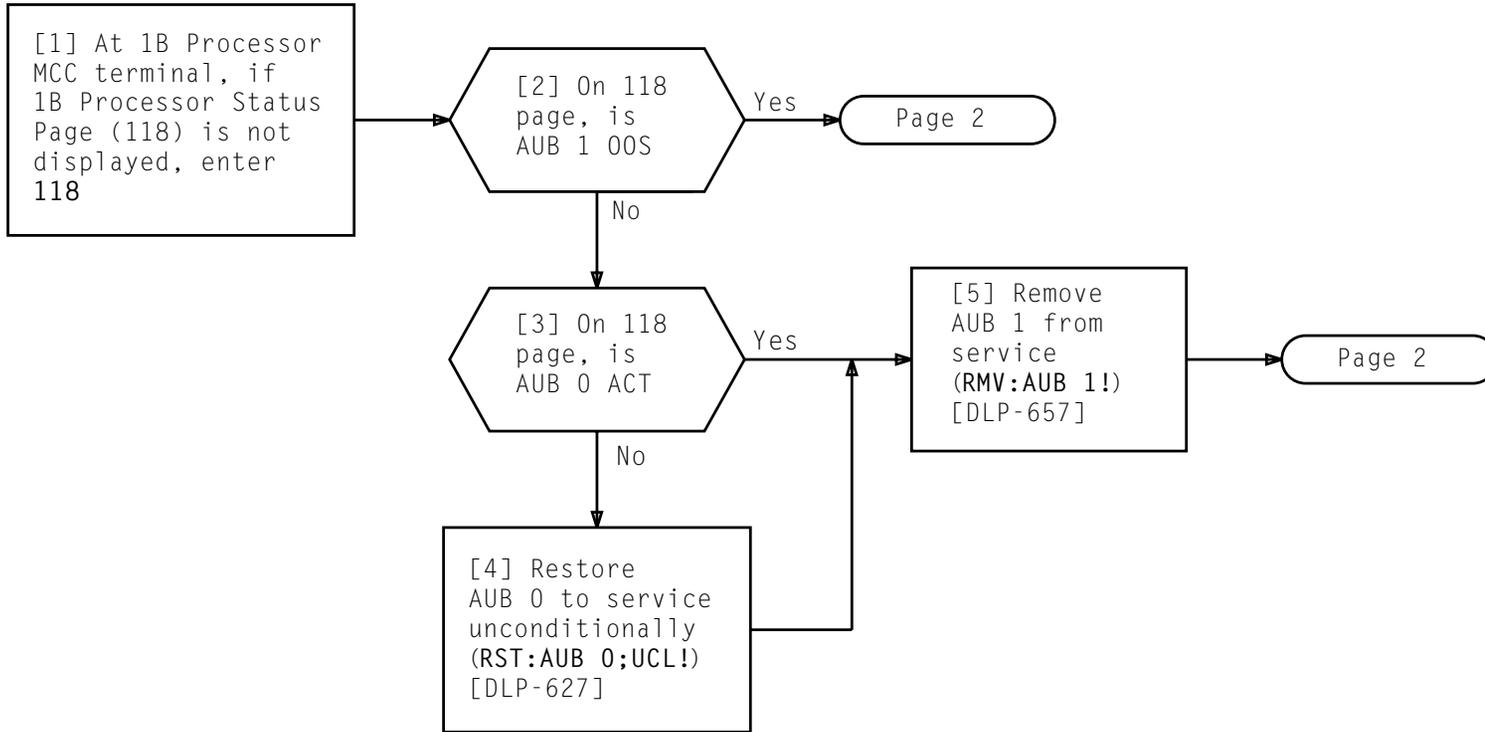


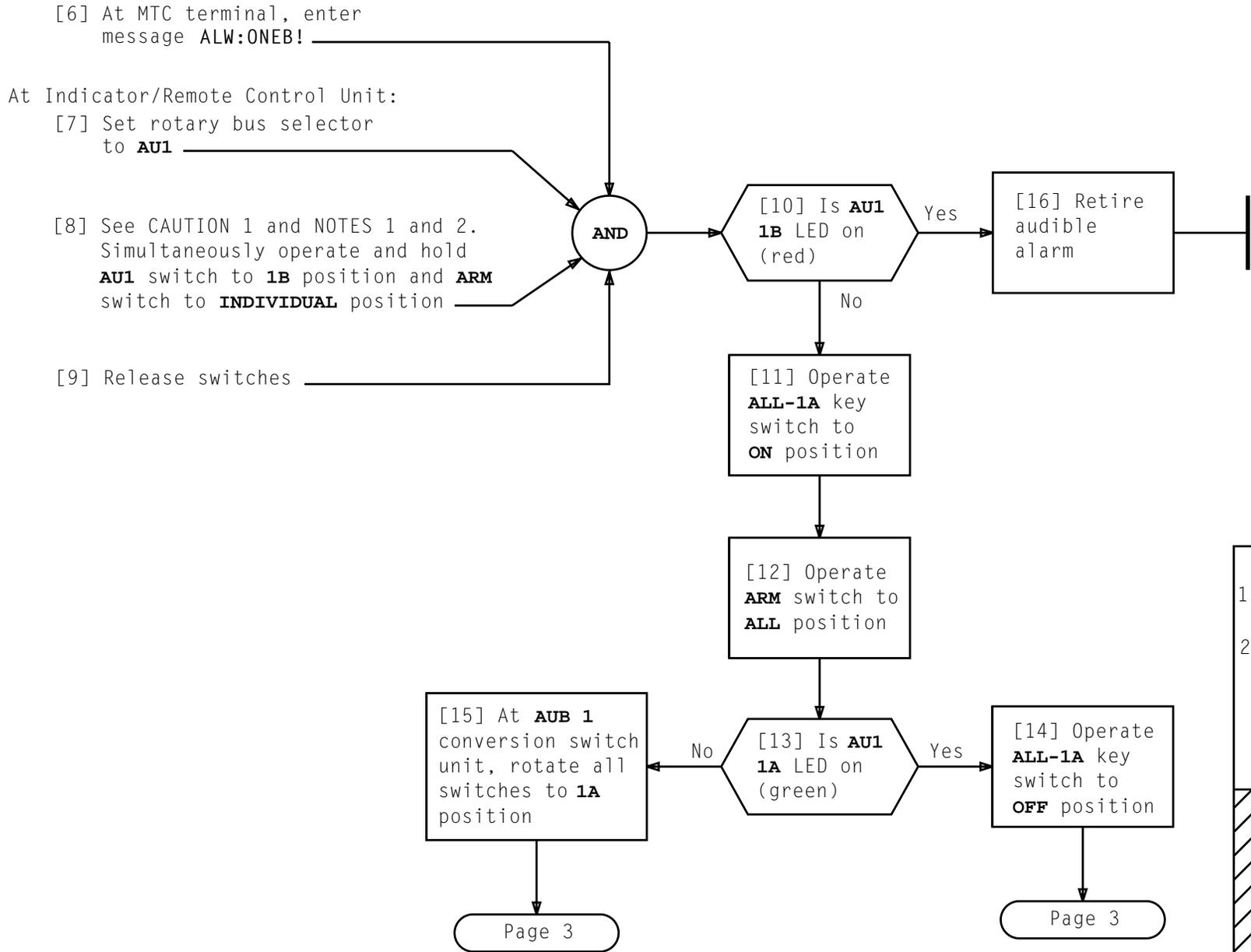
TABLE A	
NG, CODE	REASON
05	APS test was not allowed to run. ALW:APSTEST message was not input or request could not be sent to APS to allow test. Since test was not previously allowed, INH:APSTEST does not need to be entered

NOTE 1 After 1 minute, expect BLM messages from 1B Processor and APIs to duplex fail	
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**SWITCH AUB 1 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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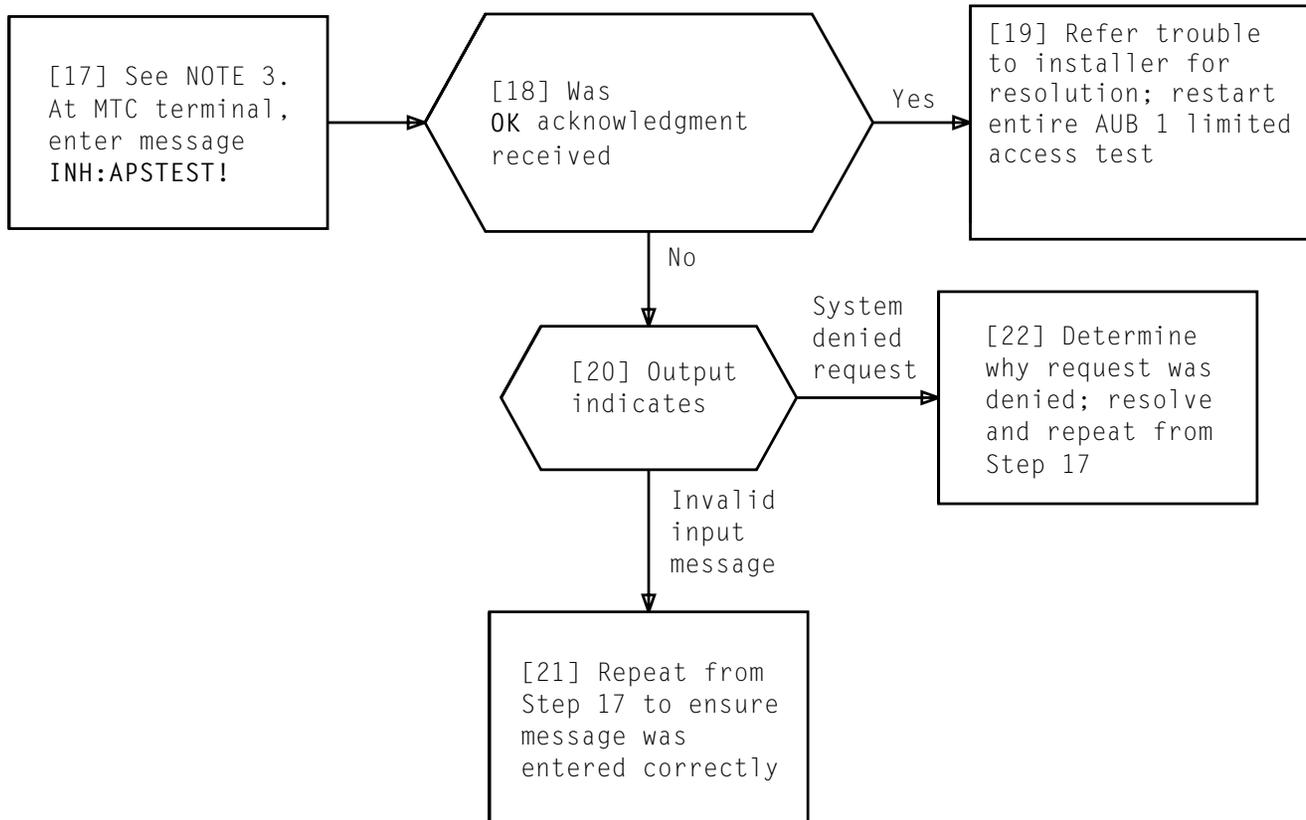
NOTES

1. Audible alarm will be received
2. REPT: OA xx 1B CVSW OFNL ACTIVATED, FLOOR x message will be received at MTC terminal

**CAUTION 1**  
Care must be taken to ensure that only AU1 and ARM switches are being operated

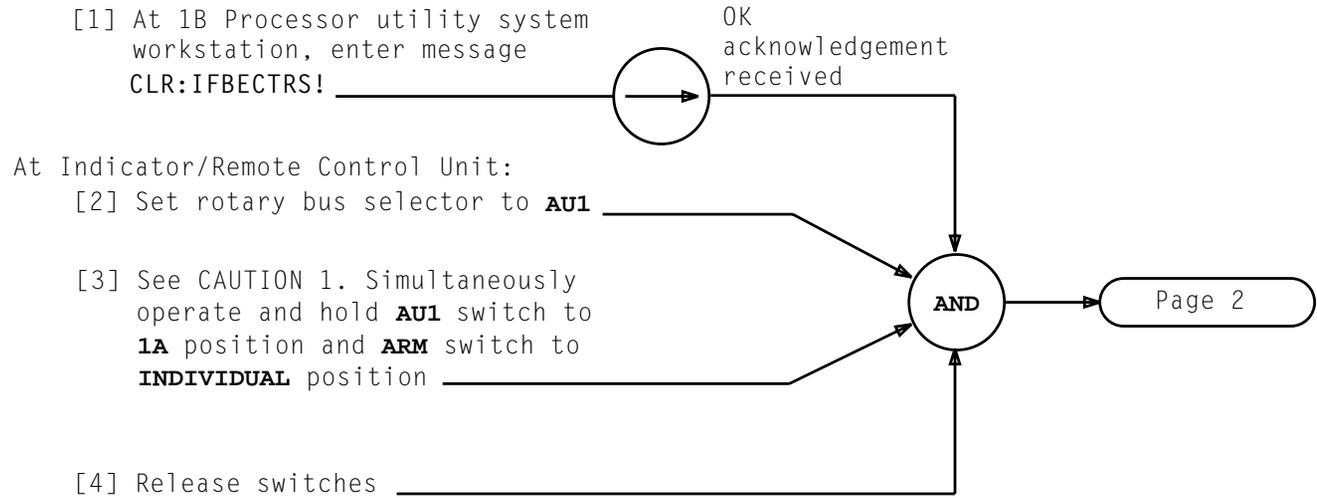
**SWITCH AUB 1 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS TO 1B PROCESSOR BUS ACCESS**

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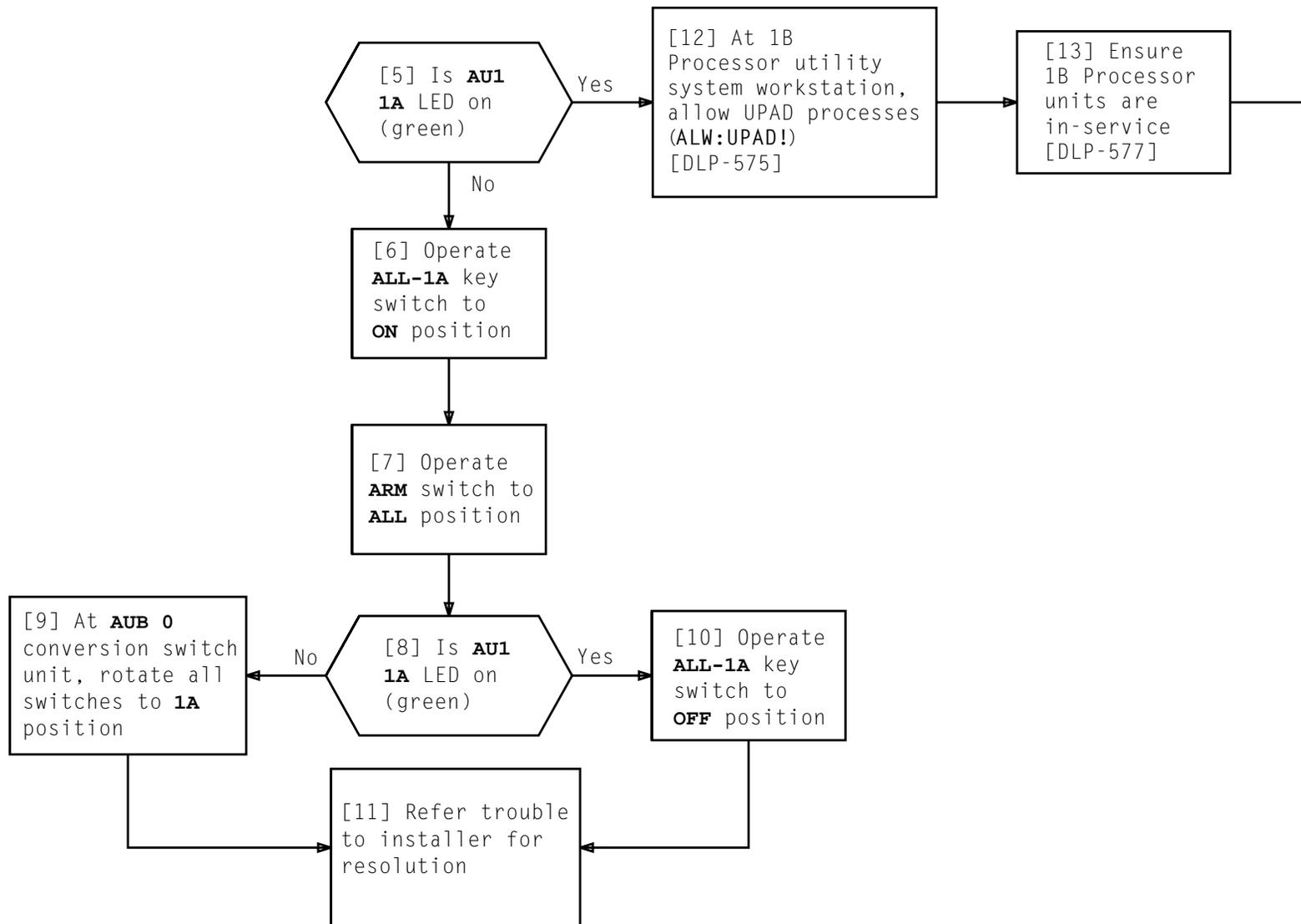
NOTE 3 After 1 minute, expect BLM messages from 1B Processor and APIs to duplex fail	
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**SWITCH AUB 1 CONVERSION SWITCH FROM 1A PROCESSOR BUS ACCESS  
TO 1B PROCESSOR BUS ACCESS**



<i>CAUTION 1</i>	
<i>Care must be taken to ensure that only AU1 and ARM switches are being operated</i>	
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**SWITCH AUB 1 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS TO 1A PROCESSOR BUS ACCESS**



**SWITCH AUB 1 CONVERSION SWITCH FROM 1B PROCESSOR BUS ACCESS TO 1A PROCESSOR BUS ACCESS**

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[1] Using TABLE A, determine location of power control switch on circuit pack **KLW11** associated with standby CC

[2] At power control switch on circuit pack **KLW11**, determined in Step 1, operate **ROS/NORM** switch to **ROS** and observe LEDs for TABLE B indications

[3] At 1B Processor utility system workstation, determine if **RMV: CC a COMPLETED** (a = member number of standby CC) message was received

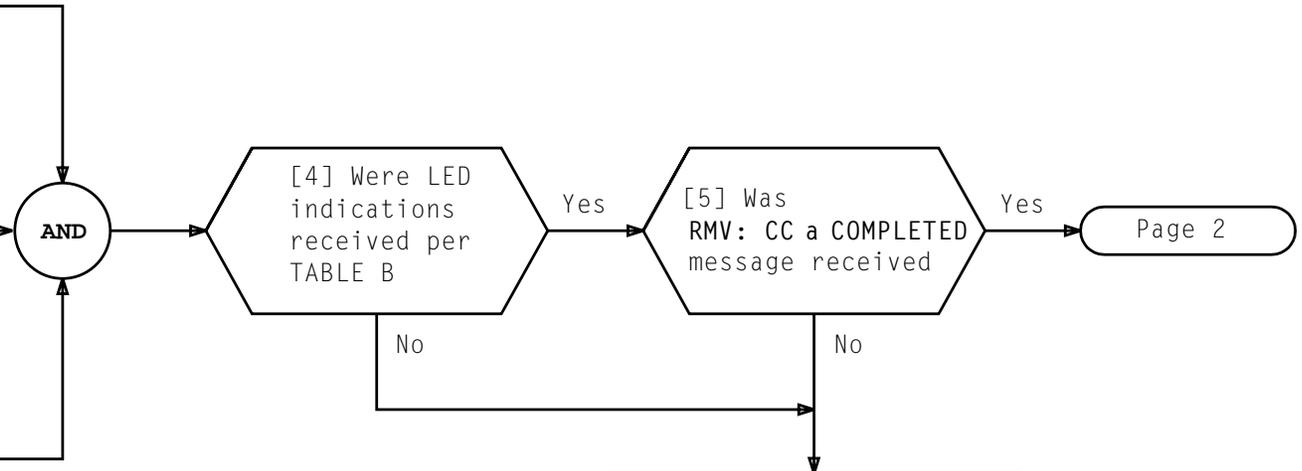


TABLE A		
CC	CABINET	EQUIPMENT LOCATION
0	0	041-014
1	1	141-014

TABLE B	
LED	INDICATION
ACK*	On then Off
OS	On

\* expected indication may take a short period of time to be received

[6] Refer trouble to installer for resolution (repair and restore to service); repeat from Step 1

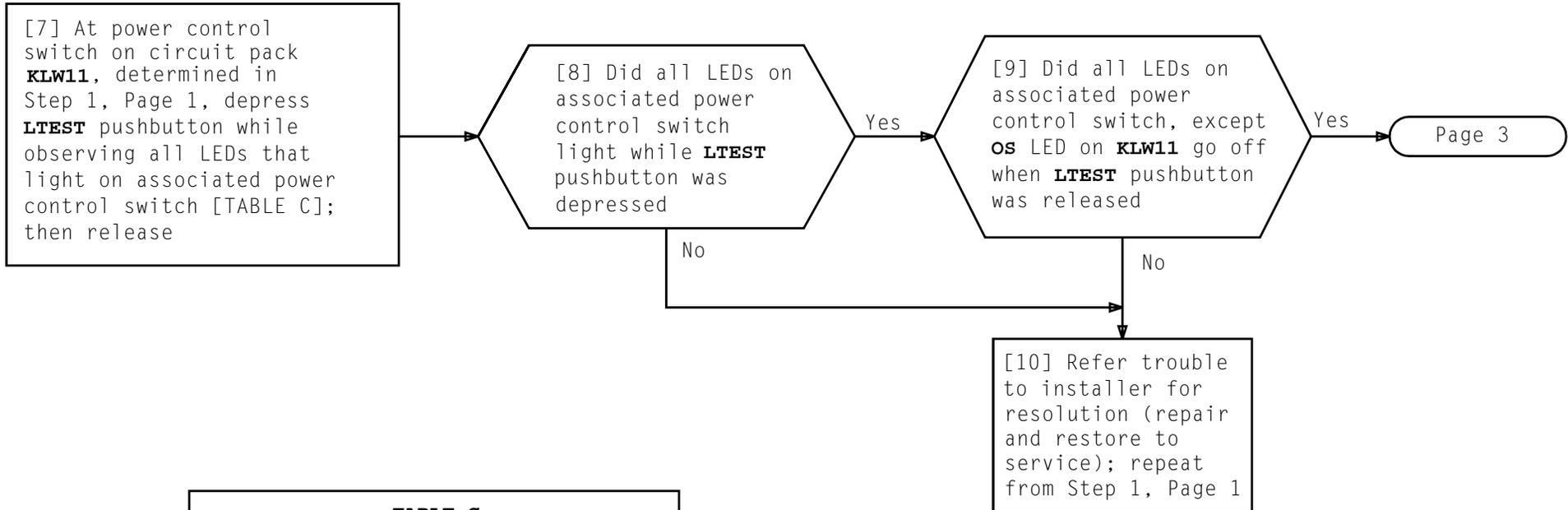
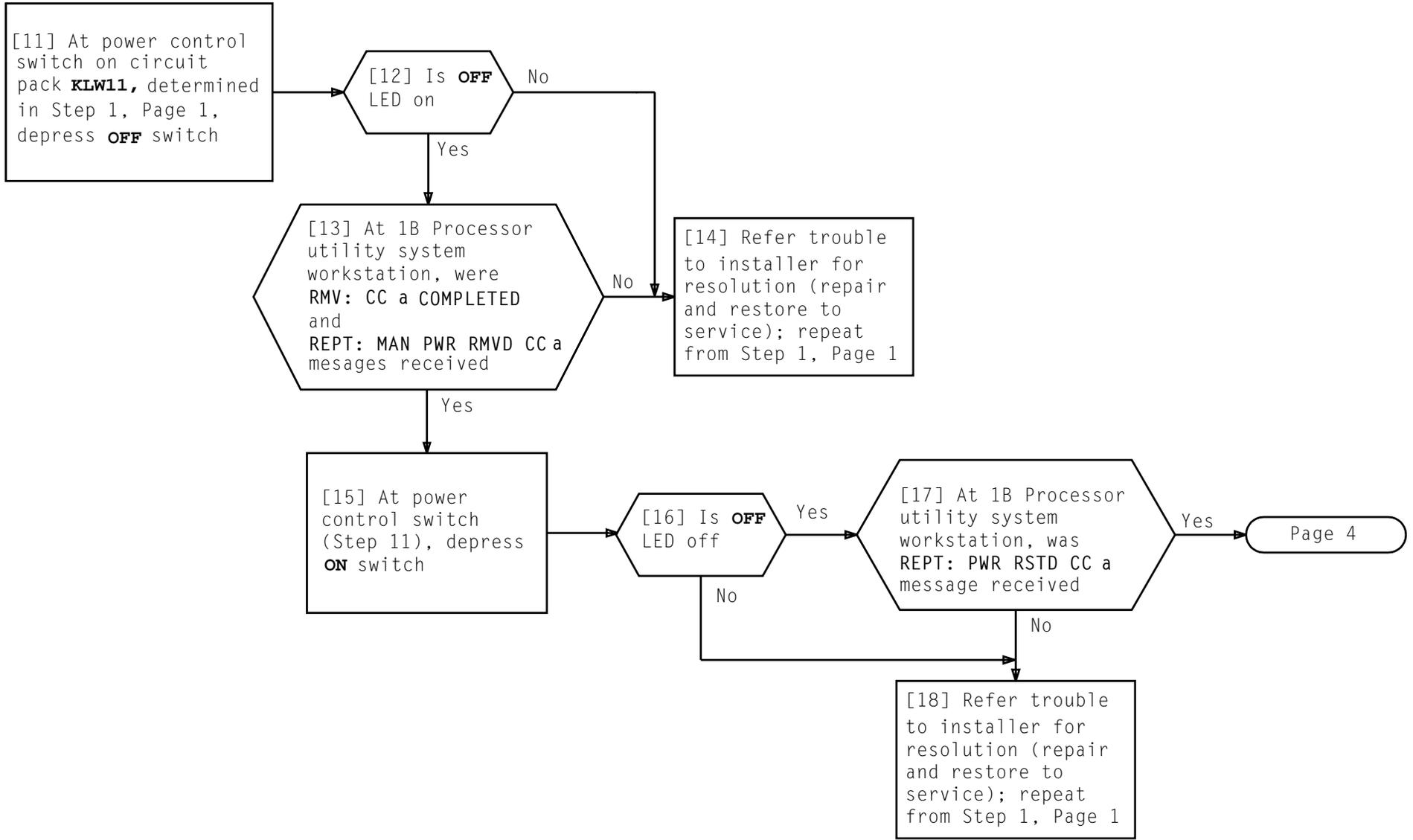


TABLE C		
CIRCUIT PACK CONTAINING LEDS	CIRCUIT PACK LOCATION	NUMBER OF LEDS ON CIRCUIT PACK
K LW11	41-014	19
K LW12	58-014	16
K LW03	41-104	1
K LW04	41-112	1
K LW22	41-120	1



[19] At power control switch on circuit pack **KLW11**, determined in Step 1, Page 1, operate **ROS/NORM** switch to **NORM** and observe LEDs for TABLE D indications

[20] At 1B Processor utility system workstation, determine if printout was received per TABLE E

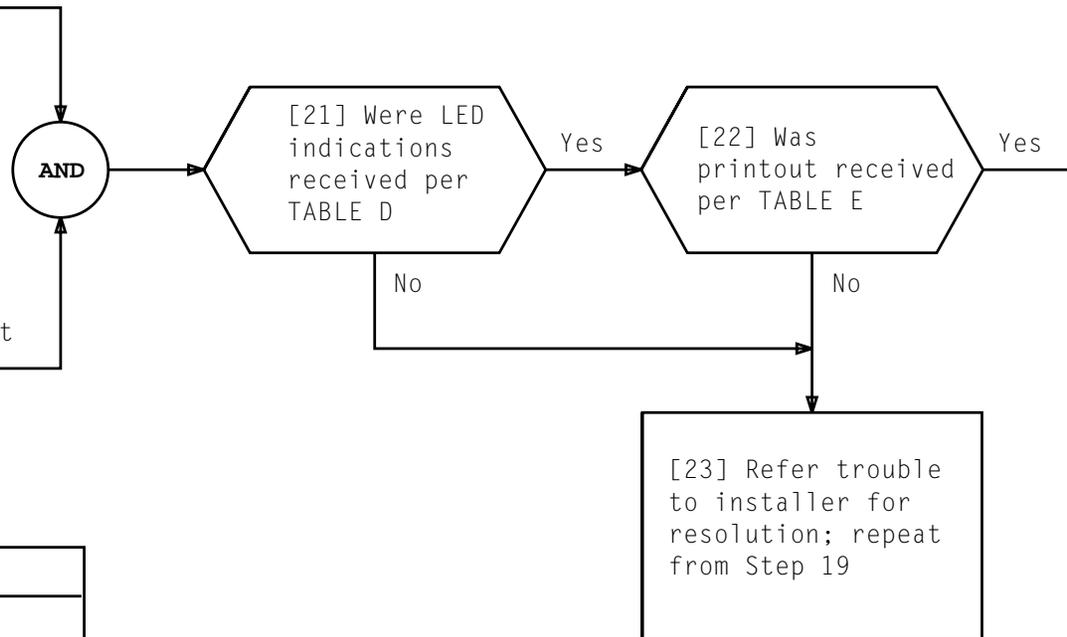


TABLE D	
LED	INDICATION
ACK*	On then Off
OS**	Off
* ACK LED will go off approximately 15 minutes after operating ROS/NORM switch ** this will not occur until restore is complete	

TABLE E	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:CC a COMPLETED CATP (20000000 00000000) MSG COMPL TEST:CC a DFR ATP RST:CC a COMPLETED
a = member number of standby CC	

[1] Using TABLE A, Page 2 determine location of power control circuit pack associated with unit to be diagnosed

[2] At power control switch on circuit pack, determined in Step 1, operate **ROS/NORM** switch to **ROS** and observe LEDs for TABLE B indications

[3] At 1B Processor utility system workstation, determine if **RMV: a b COMPLETED** (a = Unit type, b = Member number) message was received

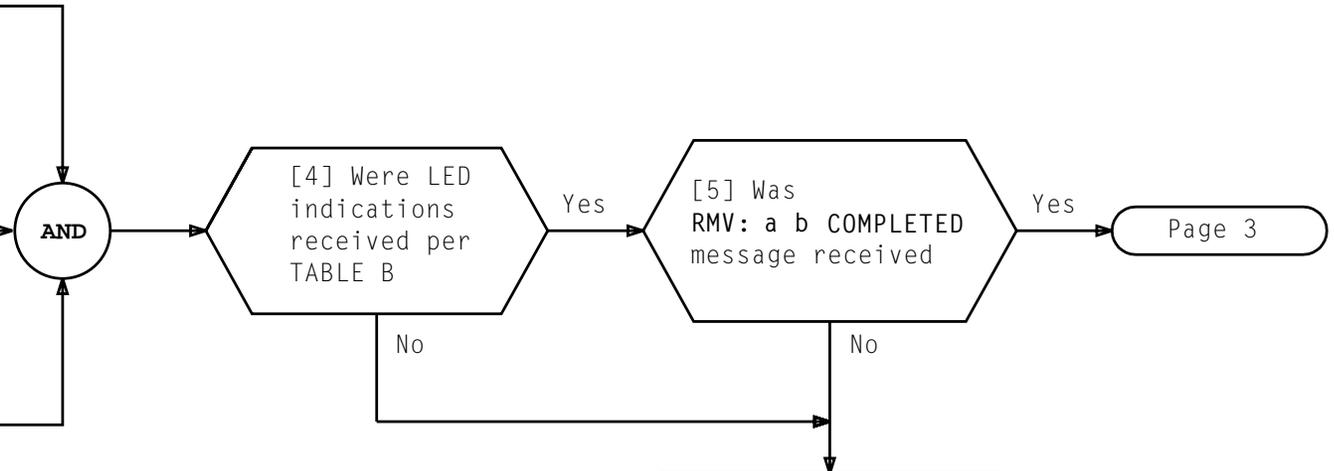
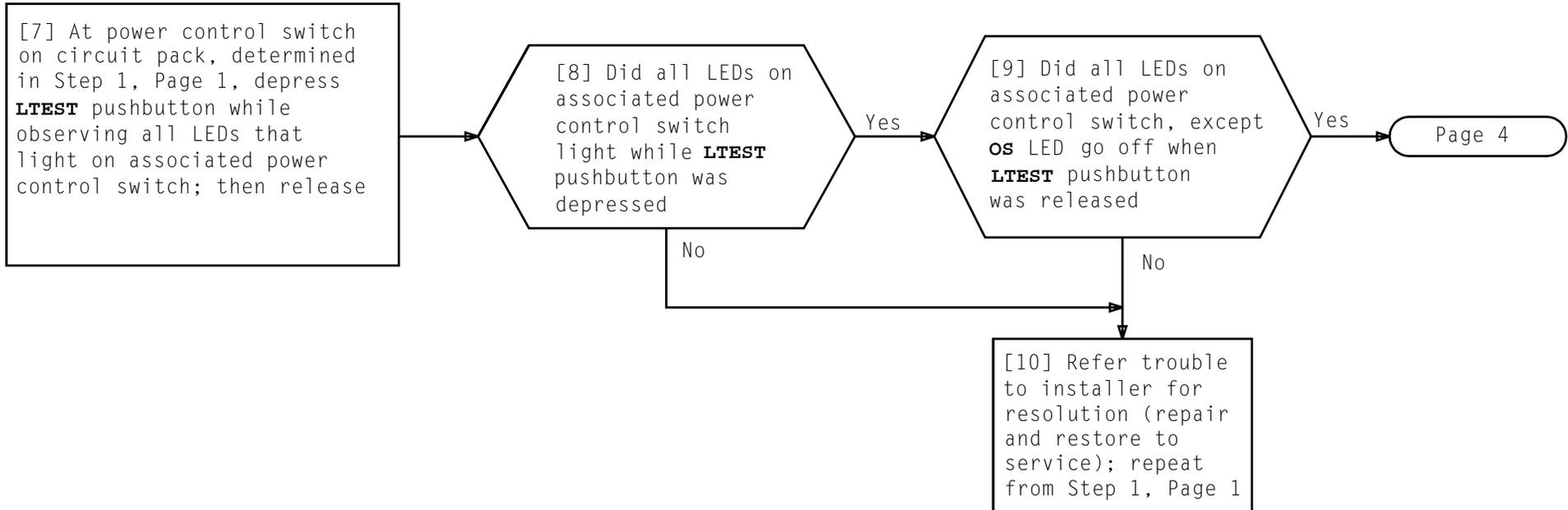


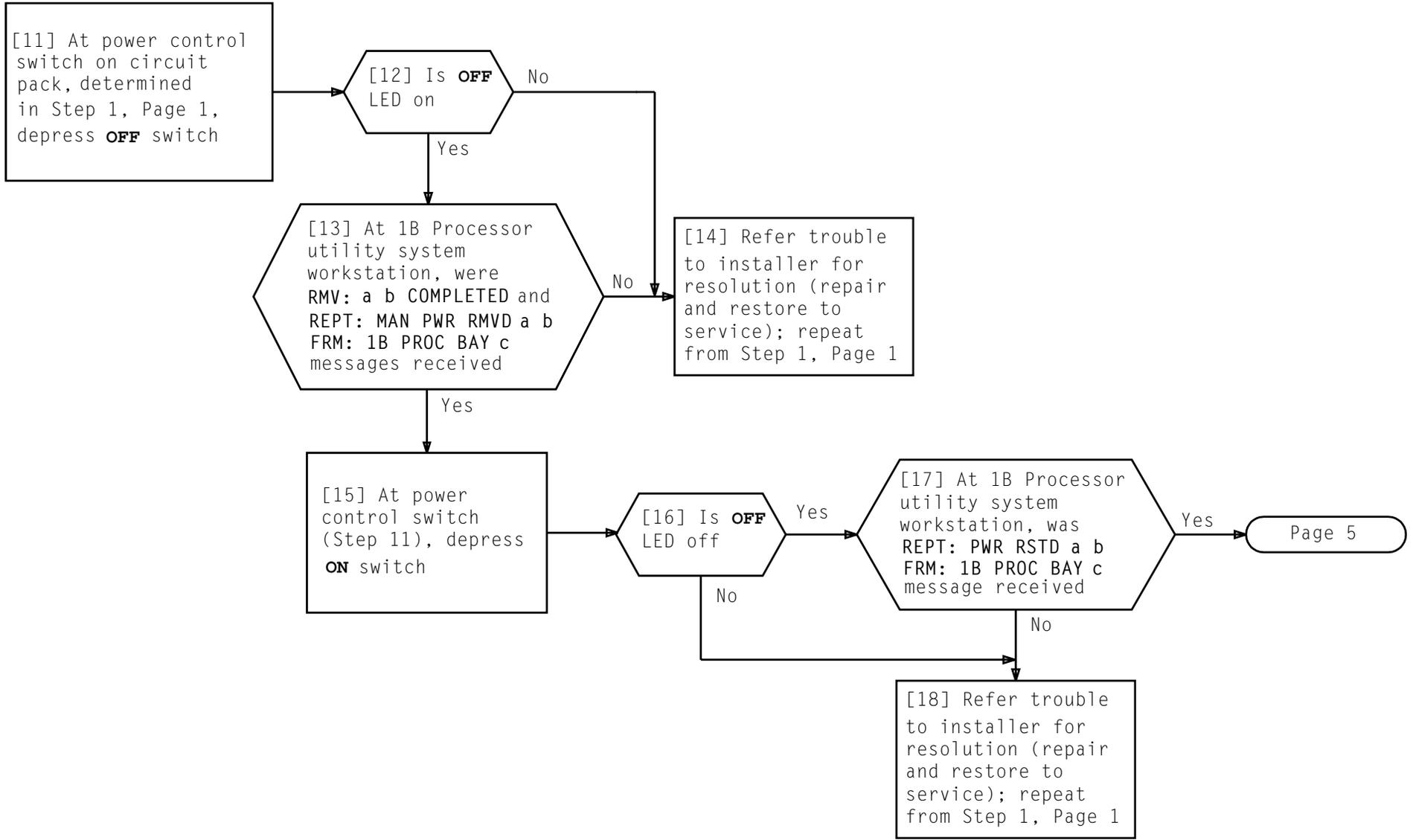
TABLE B	
LED	INDICATION
ACK*	On then Off
OS	On
* expected indication may take a short period of time to be received	

TABLE A			
UNIT	POWER CONTROL CP	CABINET	EQUIPMENT LOCATION
CS 0	KLW01	0	024-006
CS 1	KLW01	1	124-006
CS 2	KLW01	0	024-176
CS 3	KLW01	1	124-176
CS 4	KLW01	0	024-014
CS 5	KLW01	1	124-014
CS 6	KLW01	0	024-168
CS 7	KLW01	1	124-168
CS 8	KLW01	0	024-022
CS 9	KLW01	1	124-022
PS 0	KLW02	0	041-128
PS 1	KLW02	1	141-128
PS 2	KLW02	0	041-136
PS 3	KLW02	1	141-136
SSD 0	KLW15	0	058-168
SSD 1	KLW15	1	158-168

DIAGNOSE CS 0 THROUGH CS 9, PS 0 THROUGH PS 3, SSD 0, AND SSD 1

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[19] At power control switch on circuit pack, determined in Step 1, Page 1, operate **ROS/NORM** switch to **NORM** and observe LEDs for TABLE C indications

[20] At 1B Processor utility system workstation, determine if printout was received per TABLE D

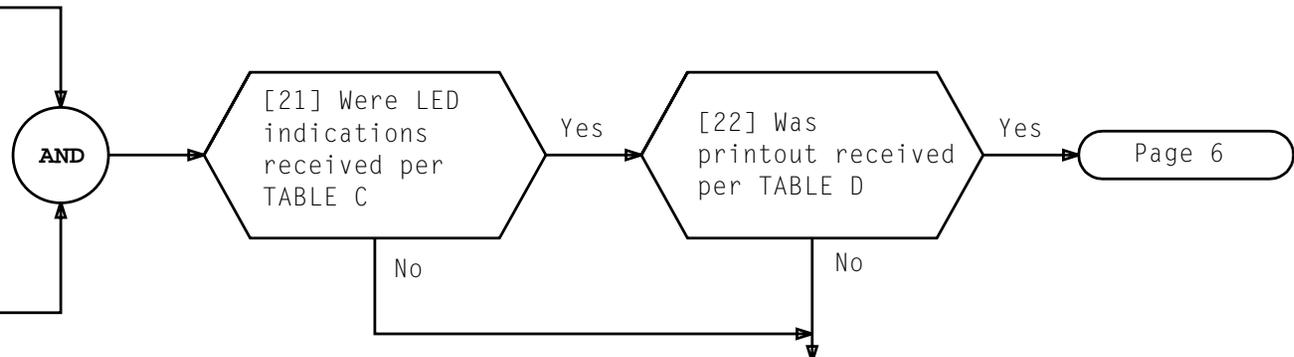


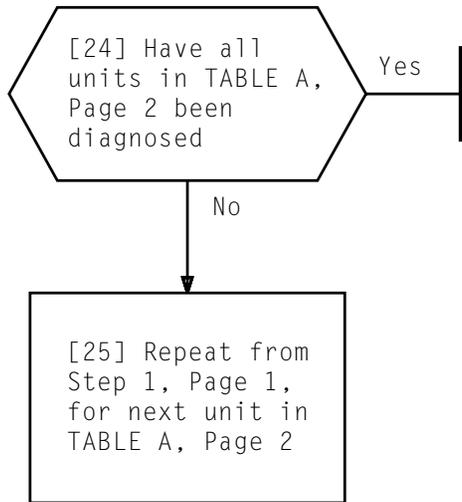
TABLE C	
LED	INDICATION
ACK*	On then Off
OS**	Off

\* expected indication may take a short period of time to be received  
 \*\* this will not occur until restore is complete

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: a b COMPLETED CATP (20000000 00000000) MSG COMPL TEST: a b ATP* RST:a b [MCODE c]** COMPLETED

\* message will be received for SSD  
 \*\* MCODE will be received for CSs AND PSs  
 a = unit type being tested  
 b = member number of unit type being tested  
 c = MCODE value

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[1] Using TABLE A, determine location of power control switch on circuit pack associated with unit to be diagnosed

[2] At power control switch on circuit pack, determined in Step 1, operate **ROS/NORM** switch to **ROS** and observe LEDs for TABLE B indications

[3] At 1B Processor utility system workstation, determine if **RMV: CSB a COMPLETED** (a = member number of CSB) message was received

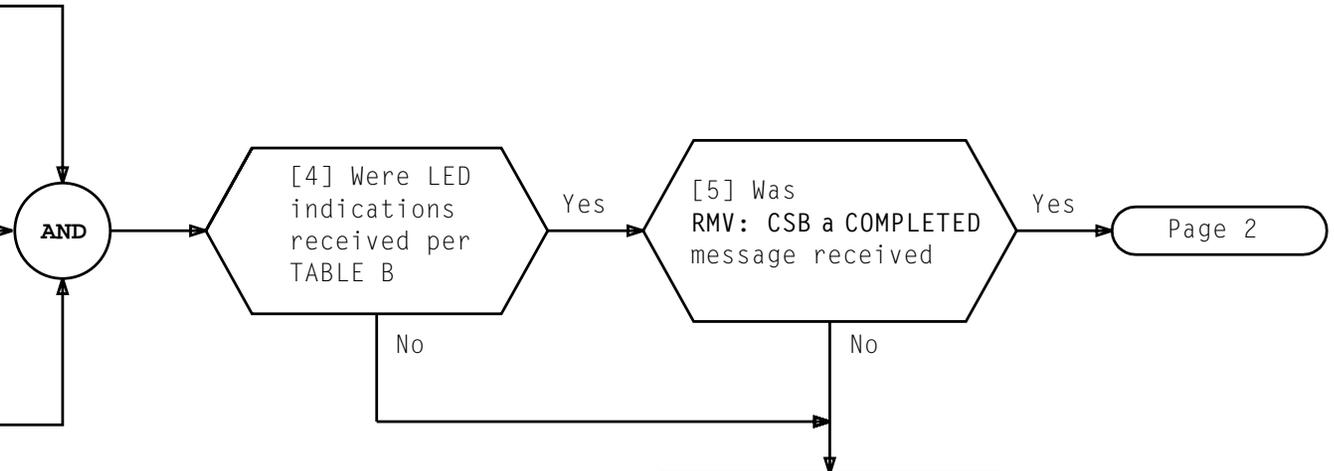
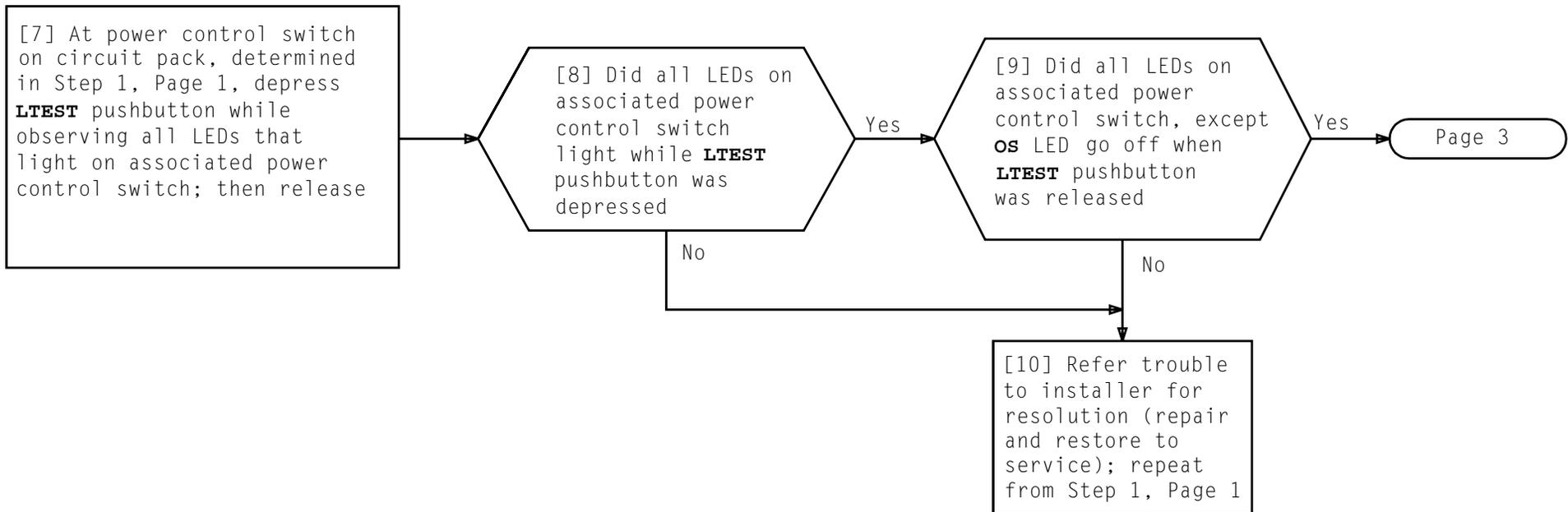
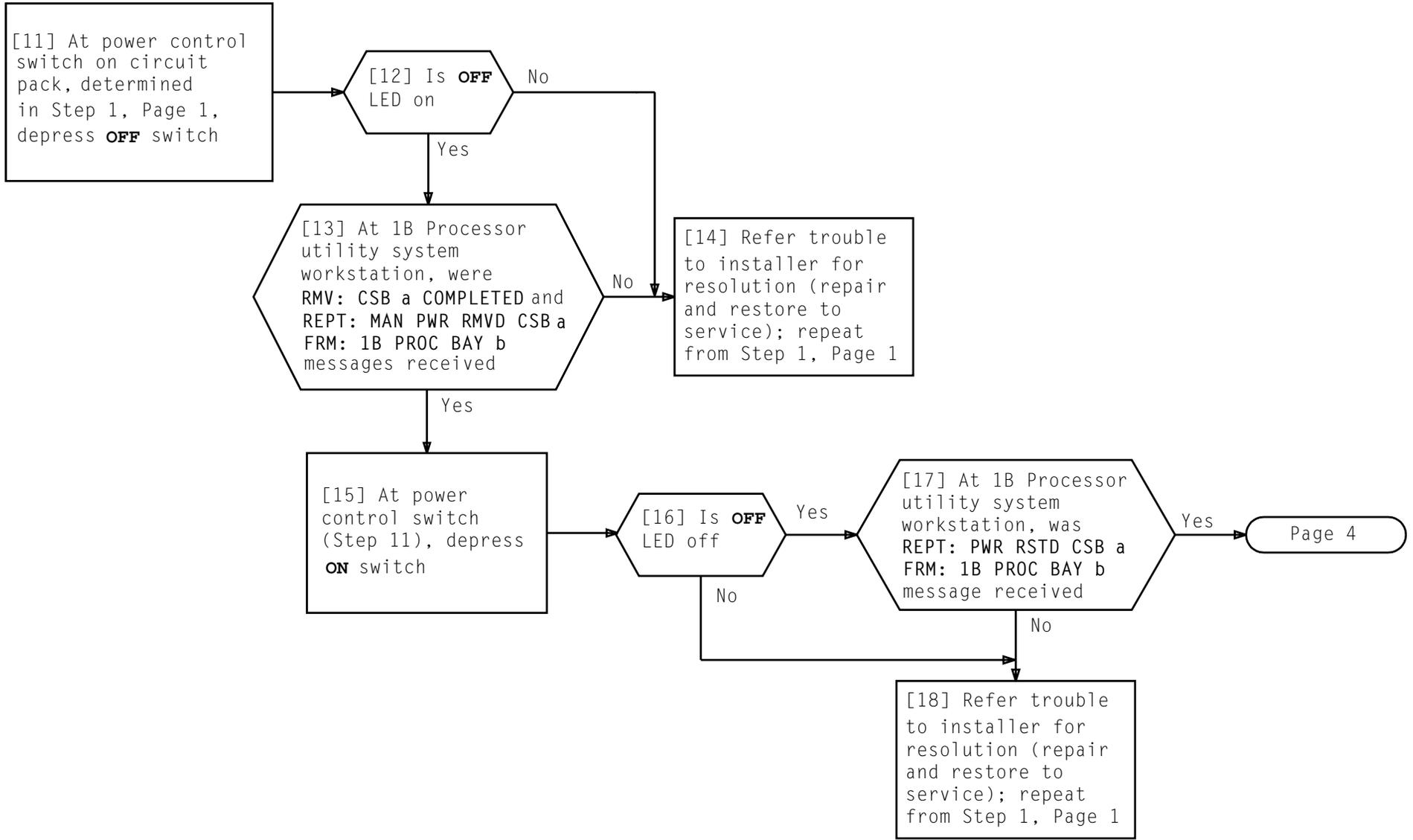


TABLE A			
CSB	CIRCUIT PACK	CABINET	EQUIPMENT LOCATION
0	KLW26	0	024-086
0	KLW26	1	124-086
1	KLW27	0	024-096
1	KLW27	1	124-096

TABLE B	
LED	INDICATION
ACK*	On then Off
OS	On
* expected indication may take a short period of time to be received	

[6] Refer trouble to installer for resolution (repair and restore to service); repeat from Step 1





[19] At power control switch on circuit pack, determined in Step 1, Page 1, operate **ROS/NORM** switch to **NORM** and observe LEDs for TABLE C indications

[20] At 1B Processor utility system workstation, determine if printout was received per TABLE D

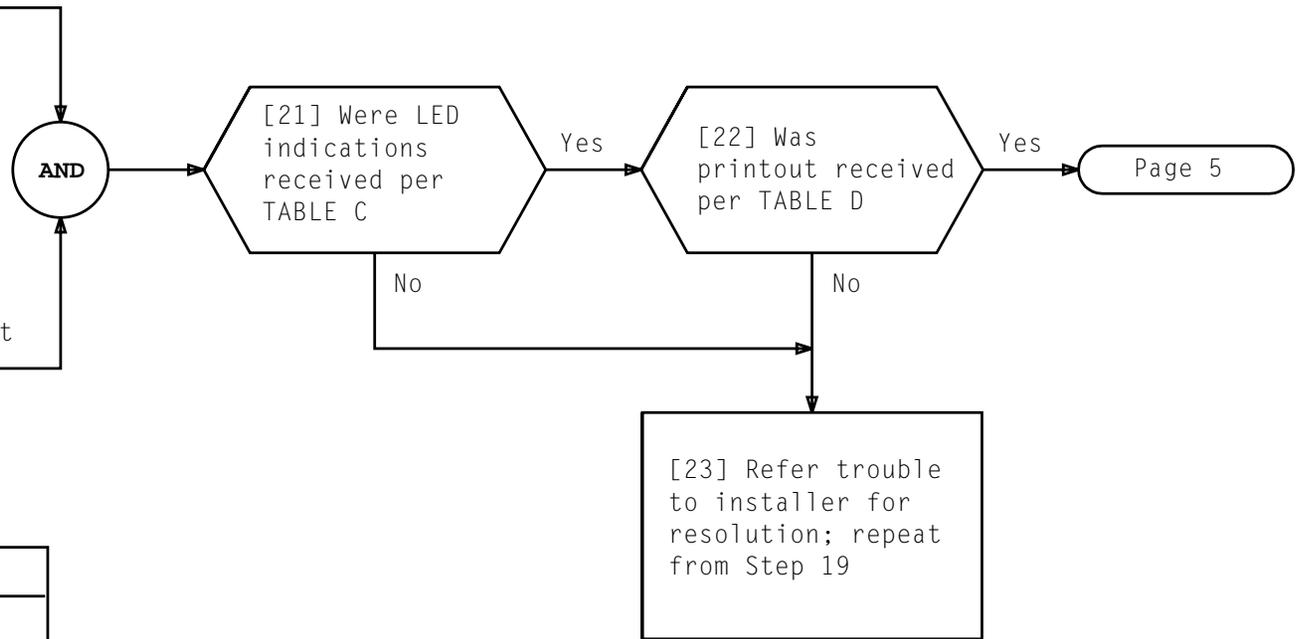
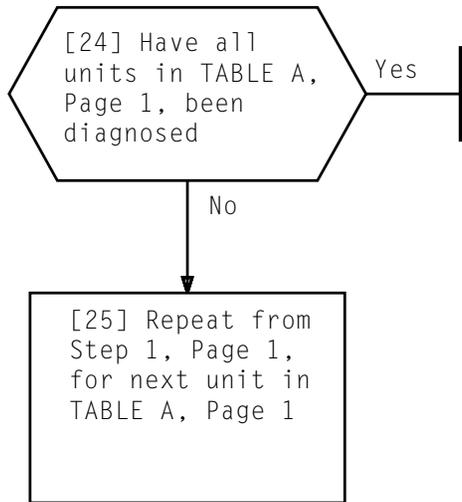


TABLE C	
LED	INDICATION
ACK*	On then Off
OS**	Off
* expected indication may take a short period of time to be received ** this will not occur until restore is complete	

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:CSB a, b : CS c COMPLETED ATP MSG COMPL RST:CSB a COMPLETED
a = member number of CSB b = processor number c = member number of helper CS	



[1] Using TABLE A, determine location of power control switch on circuit pack associated with unit to be diagnosed

[2] At power control switch on circuit pack, determined in Step 1, operate **ROS/NORM** switch to **ROS** and observe LEDs for TABLE B indications

[3] At 1B Processor utility system workstation, determine if **RMV: XPWR a COMPLETED** (a = member number of XPWR) message was received

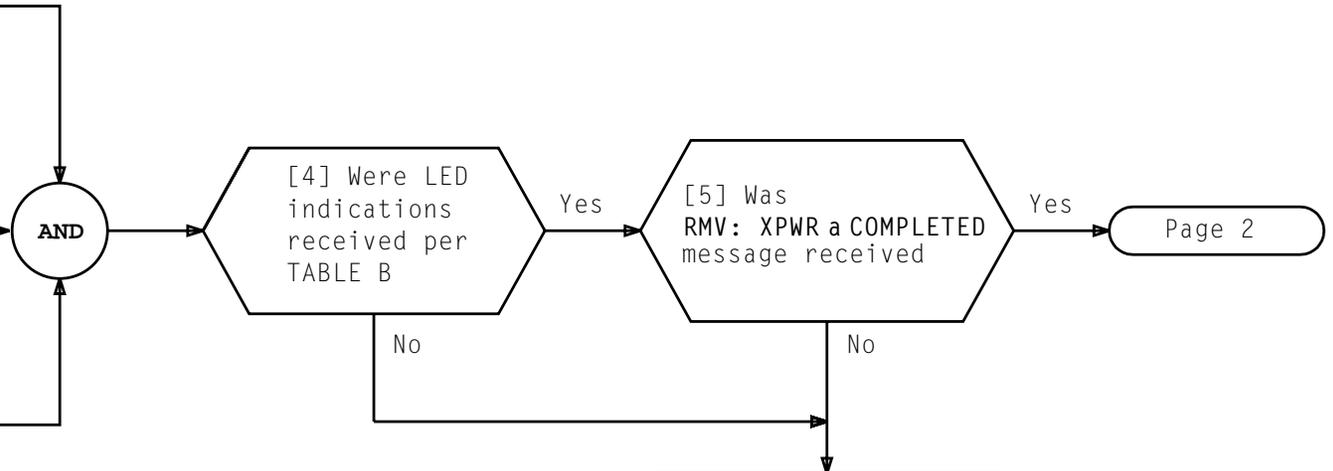
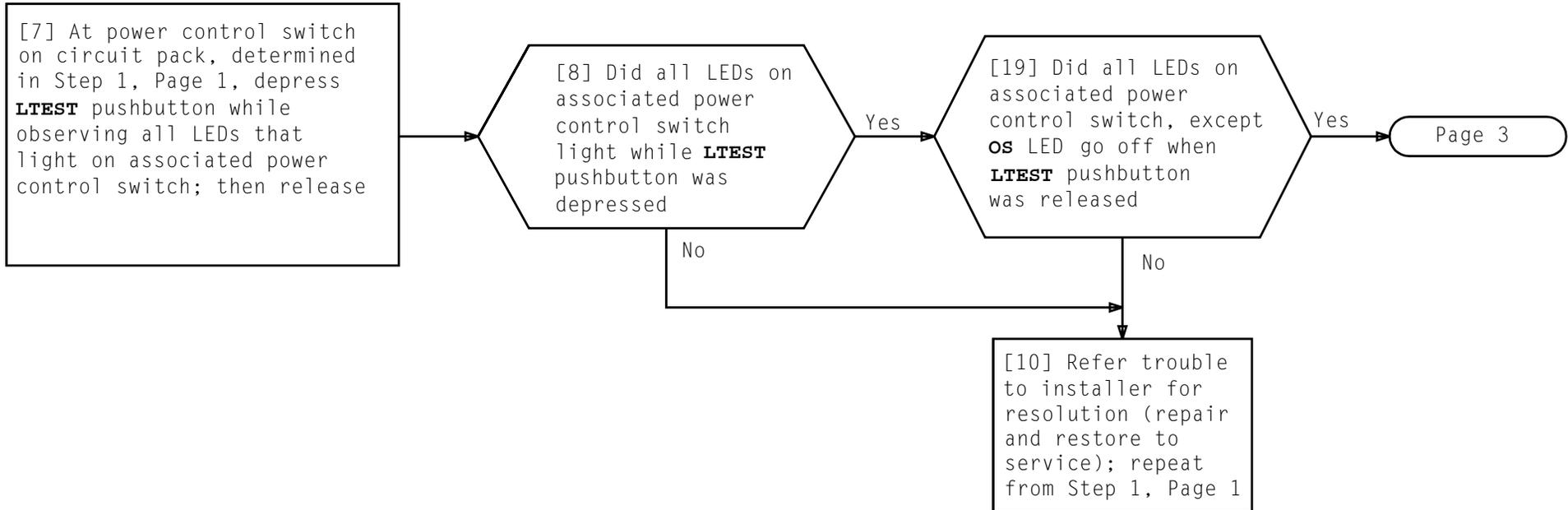


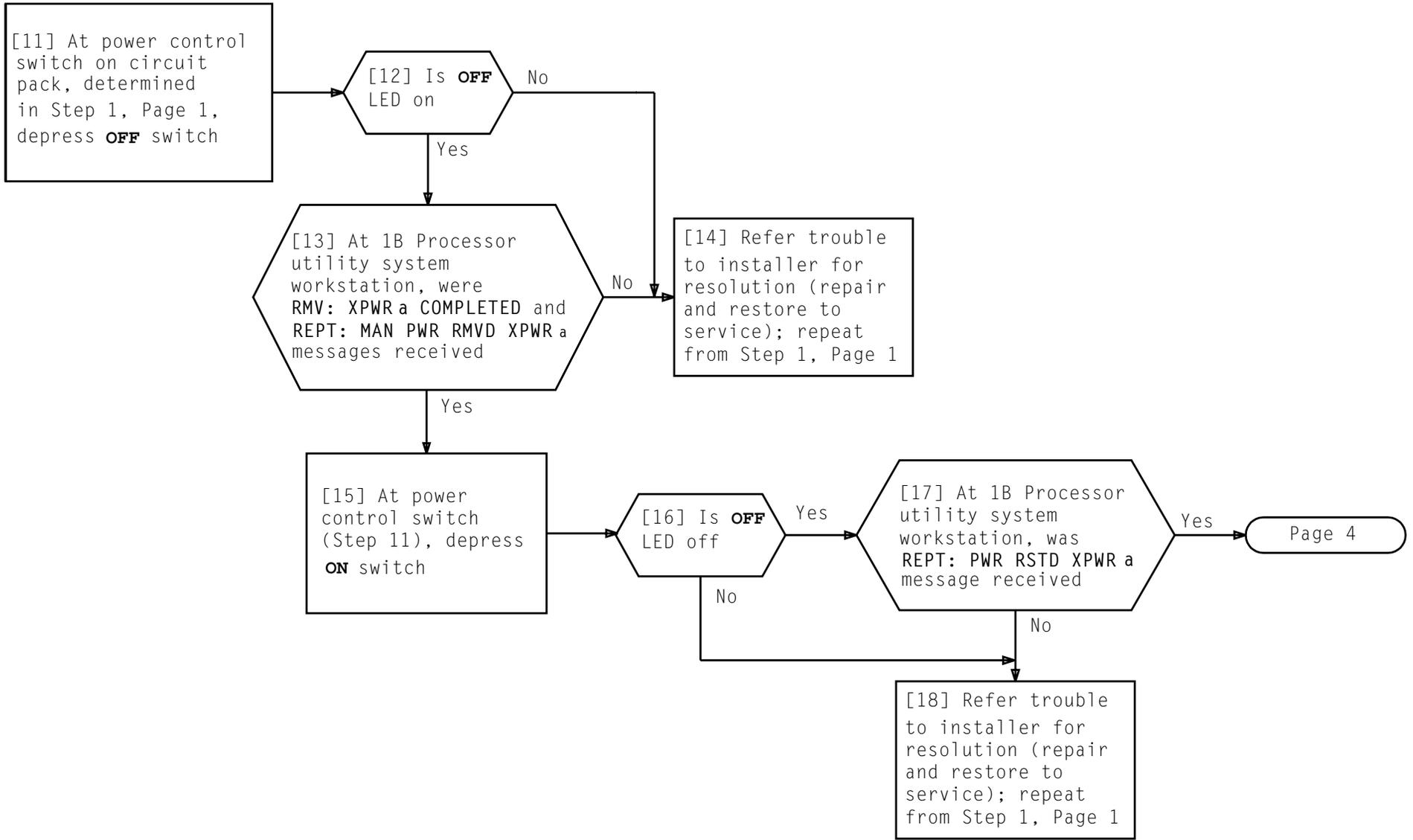
TABLE A			
XPWR	CIRCUIT PACK	CABINET	EQUIPMENT LOCATION
0	KLW23	0	058-030
0	KLW23	1	158-030

TABLE B	
LED	INDICATION
ACK*	On then Off
OS	On

\* expected indication may take a short period of time to be received

[6] Refer trouble to installer for resolution (repair and restore to service); repeat from Step 1





[19] At power control switch on circuit pack, determined in Step 1, Page 1, operate **ROS/NORM** switch to **NORM** and observe LEDs for TABLE C indications

[20] At utility system workstation, determine if printout was received per TABLE D

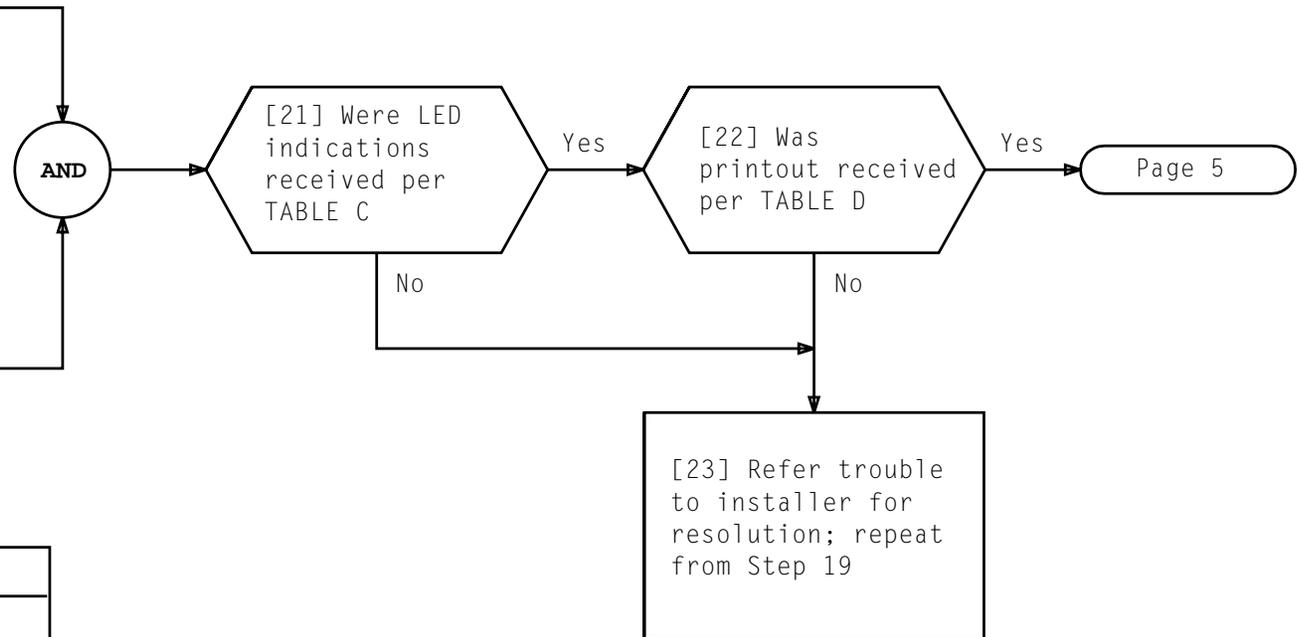
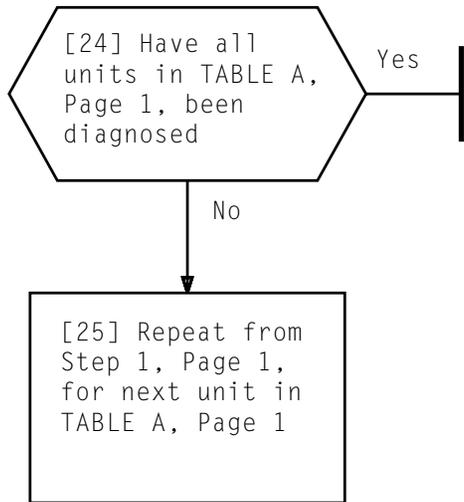


TABLE C	
LED	INDICATION
ACK*	On then Off
OS**	Off
* expected indication may take a short period of time to be received ** this will not occur until restore is complete	

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: XPWR a, COMPLETED ATP MSG COMPL RST: XPWR a COMPLETED
a = member number of standby XPWR	



[1] Using TABLE A, determine location of power control switch on circuit pack **KLW25** associated with standby MUP

[2] At power control switch on circuit pack **KLW25**, determined in Step 1, operate **ROS/NORM** switch to **ROS** and observe LEDs for TABLE B indications

[3] At 1B Processor utility system workstation, determine if RMV: MUP a COMPLETED (a = member number of standby MUP) message was received

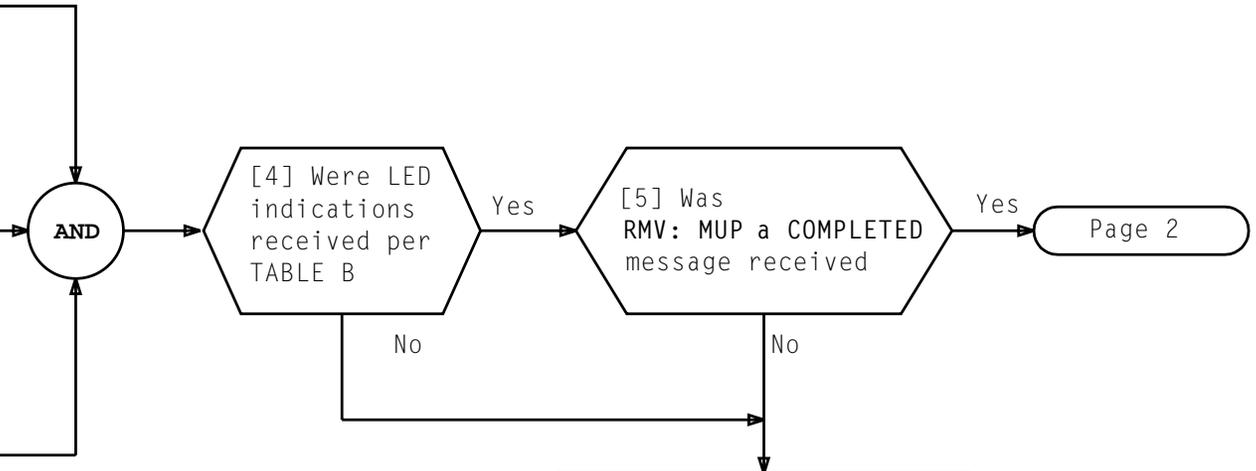
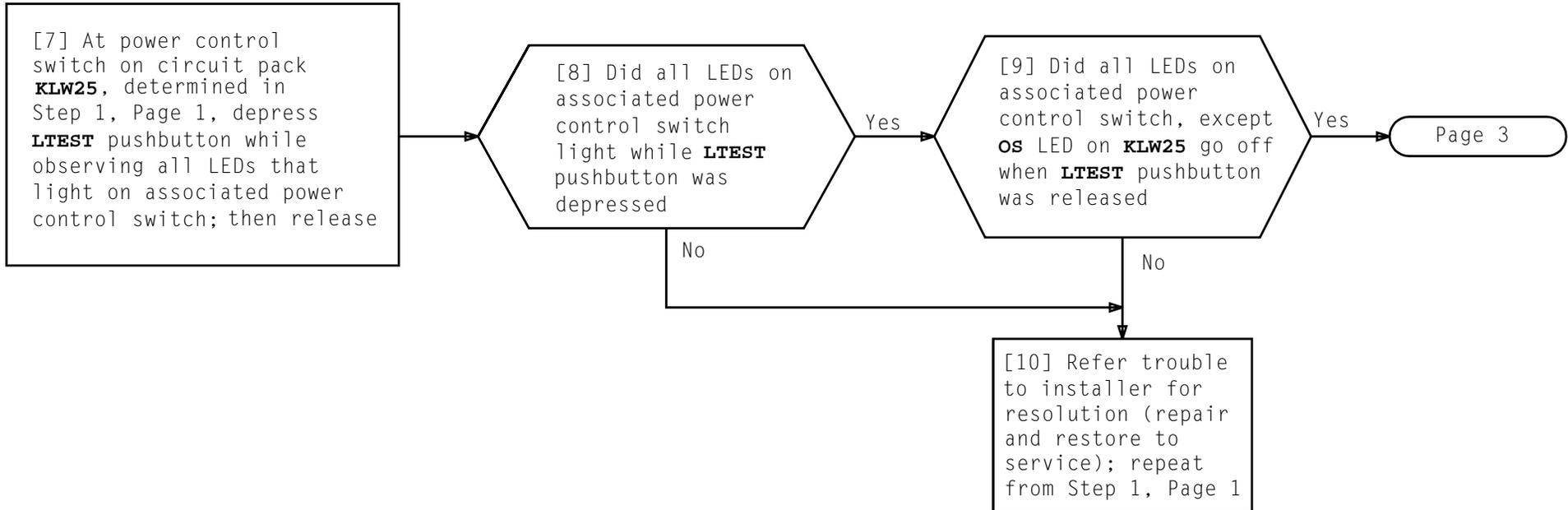
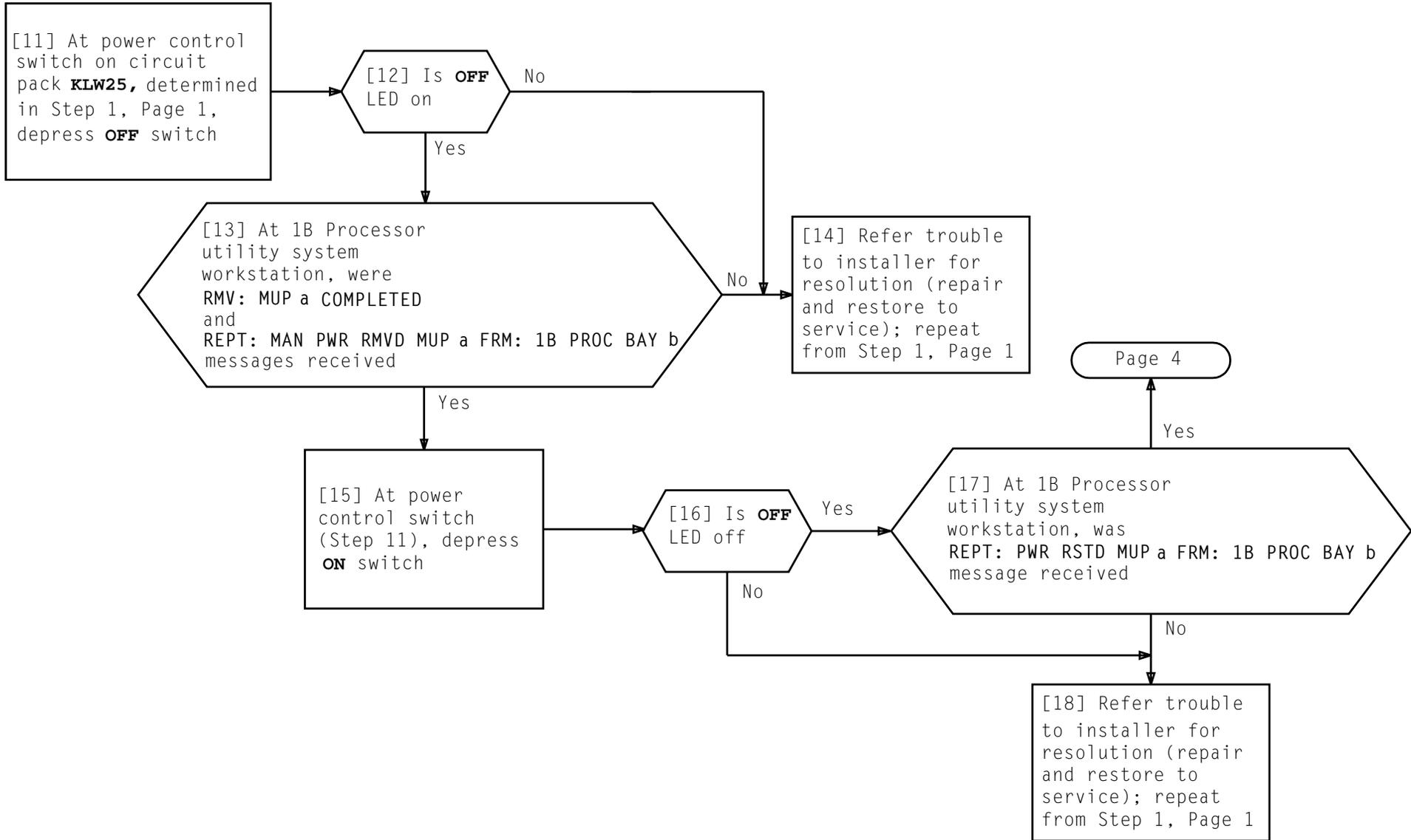


TABLE A		
MUP	CABINET	EQUIPMENT LOCATION
0	0	058-086
1	1	158-086

TABLE B	
LED	INDICATION
ACK*	On then Off
OS	On

\* expected indication may take a short period of time to be received





[19] At power control switch on circuit pack **KLW25**, determined in Step 1, Page 1, operate **ROS/NORM** switch to **NORM** and observe LEDs for TABLE C indications

[20] At 1B Processor utility system workstation, determine if printout was received per TABLE D

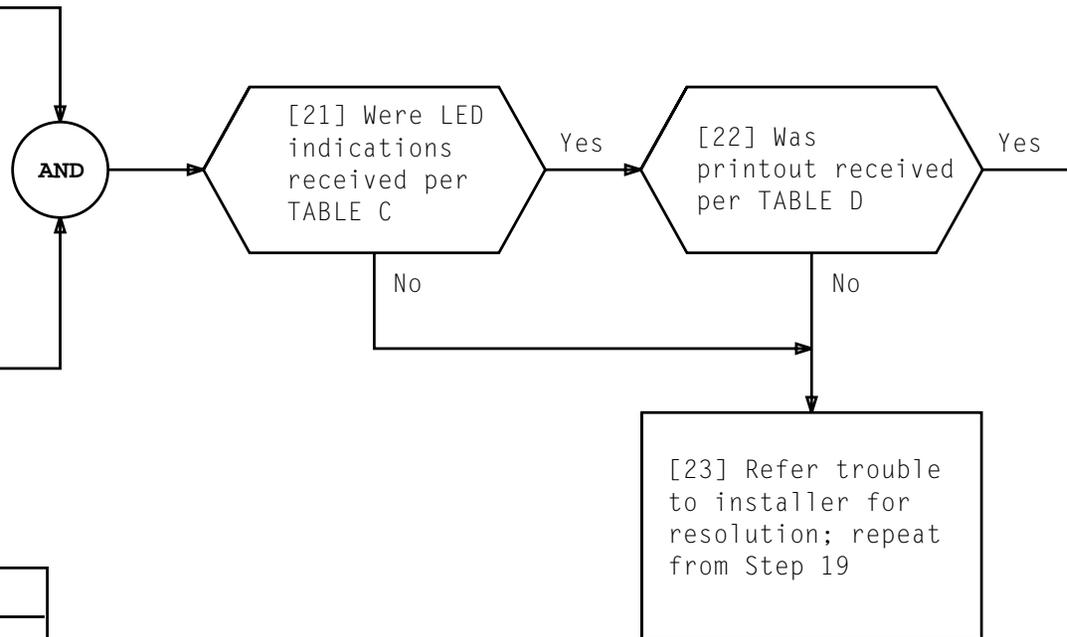


TABLE C	
LED	INDICATION
ACK*	On then Off
OS**	Off
* ACK LED will go off when OS LED goes off ** this will not occur until restore is complete	

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: MUP a COMPLETED CATP (20000000 00000000) MSG COMPL TEST: MUP a ATP RST: MUP a COMPLETED
a = member number of standby MUP	

[1] Using TABLE A, determine location of power control switch on circuit pack **KLW18** associated with standby AUI

[2] At power control switch on circuit pack **KLW18**, determined in Step 1, operate **ROS/NORM** switch to **ROS** and observe LEDs for TABLE B indications

[3] At 1B Processor utility system workstation, determine if **RMV: AUI a COMPLETED** (a = member number of standby AUI) message was received

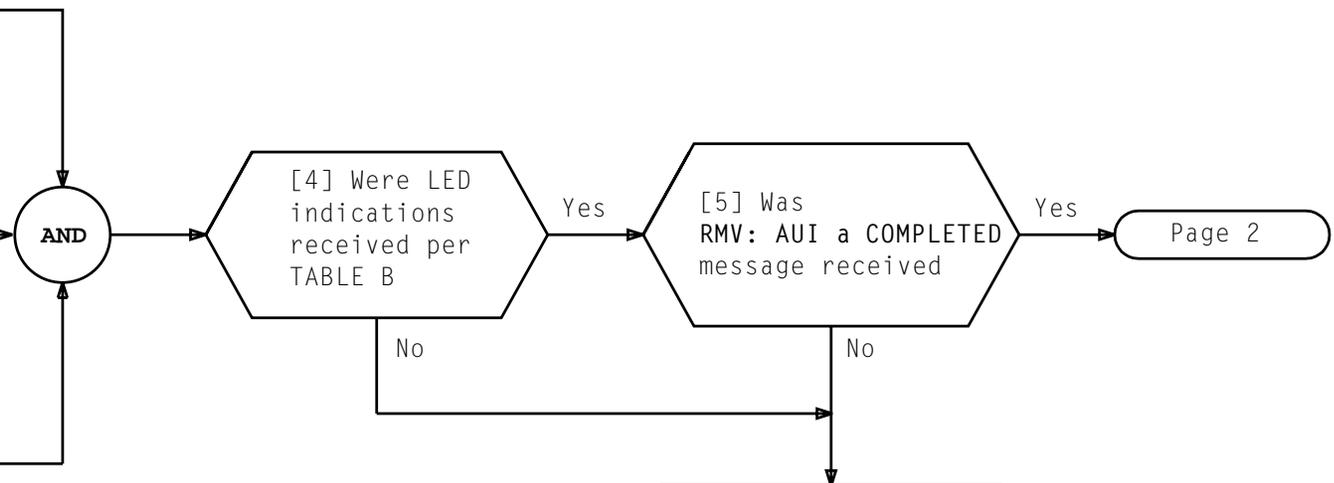
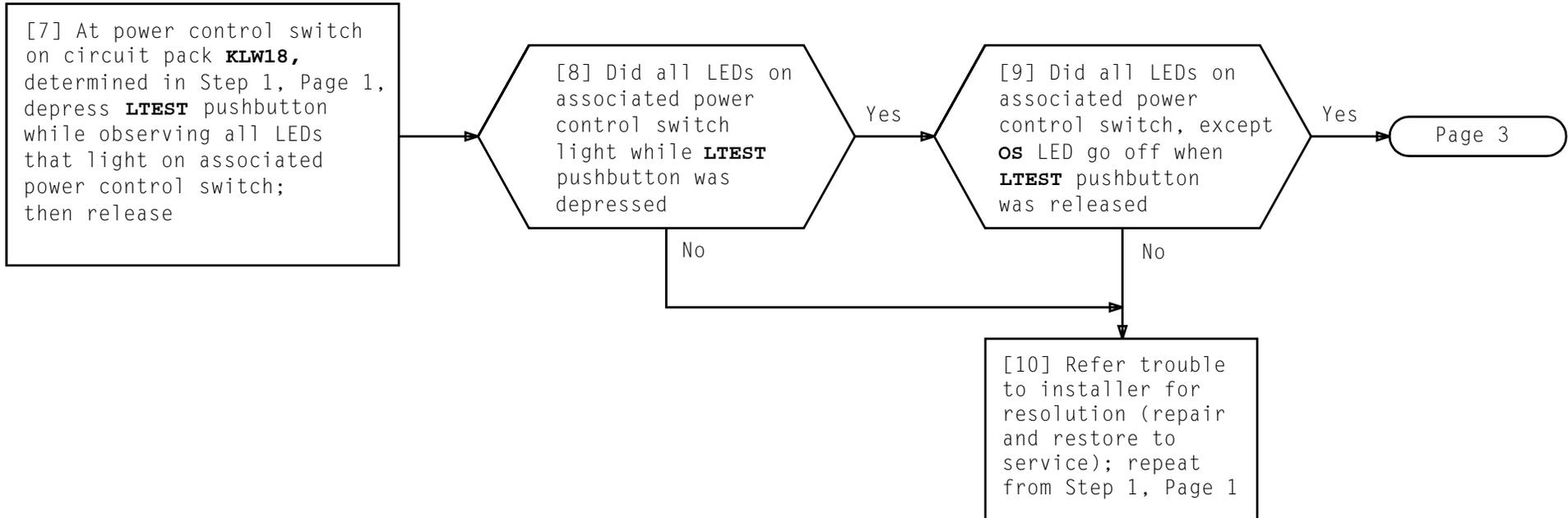


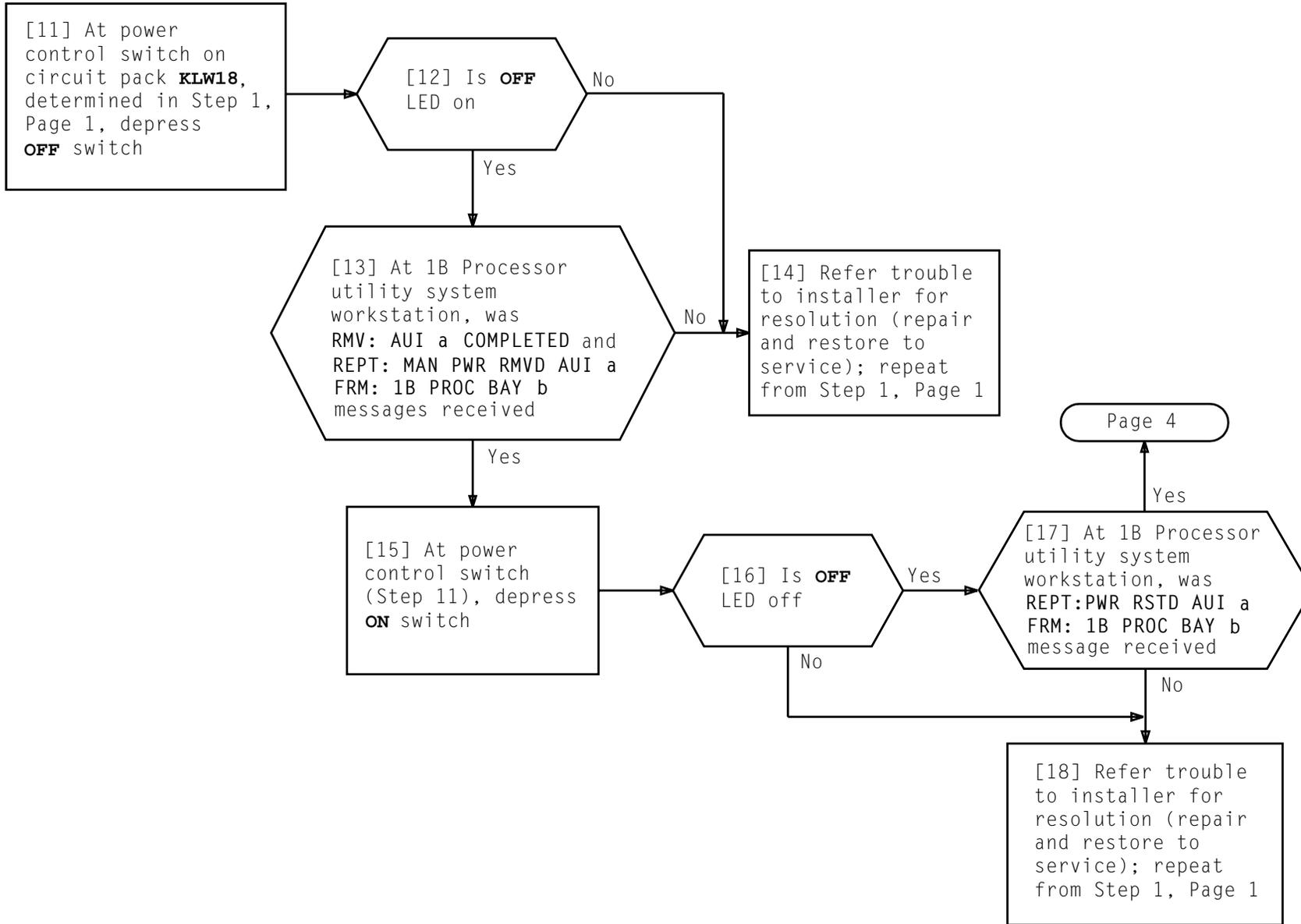
TABLE A		
AUI	CABINET	EQUIPMENT LOCATION
0	0	058-120
1	1	158-120

TABLE B	
LED	INDICATION
ACK*	On then Off
OS	On

\* expected indication may take a short period of time to be received

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**DIAGNOSE STANDBY 1B PROCESSOR AUXILIARY UNIT INTERFACE (AUI)**

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[19] At power control switch on circuit pack **KLW18**, determined in Step 1, Page 1, operate **ROS/NORM** switch to **NORM** and observe LEDs for TABLE D indications

[20] At 1B Processor utility system workstation, determine if printout was received per Table E

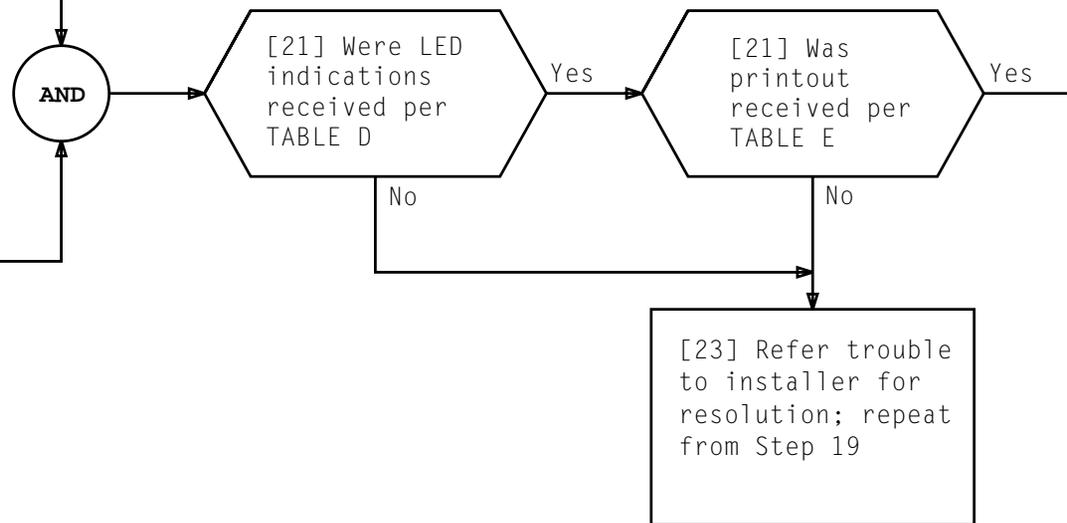
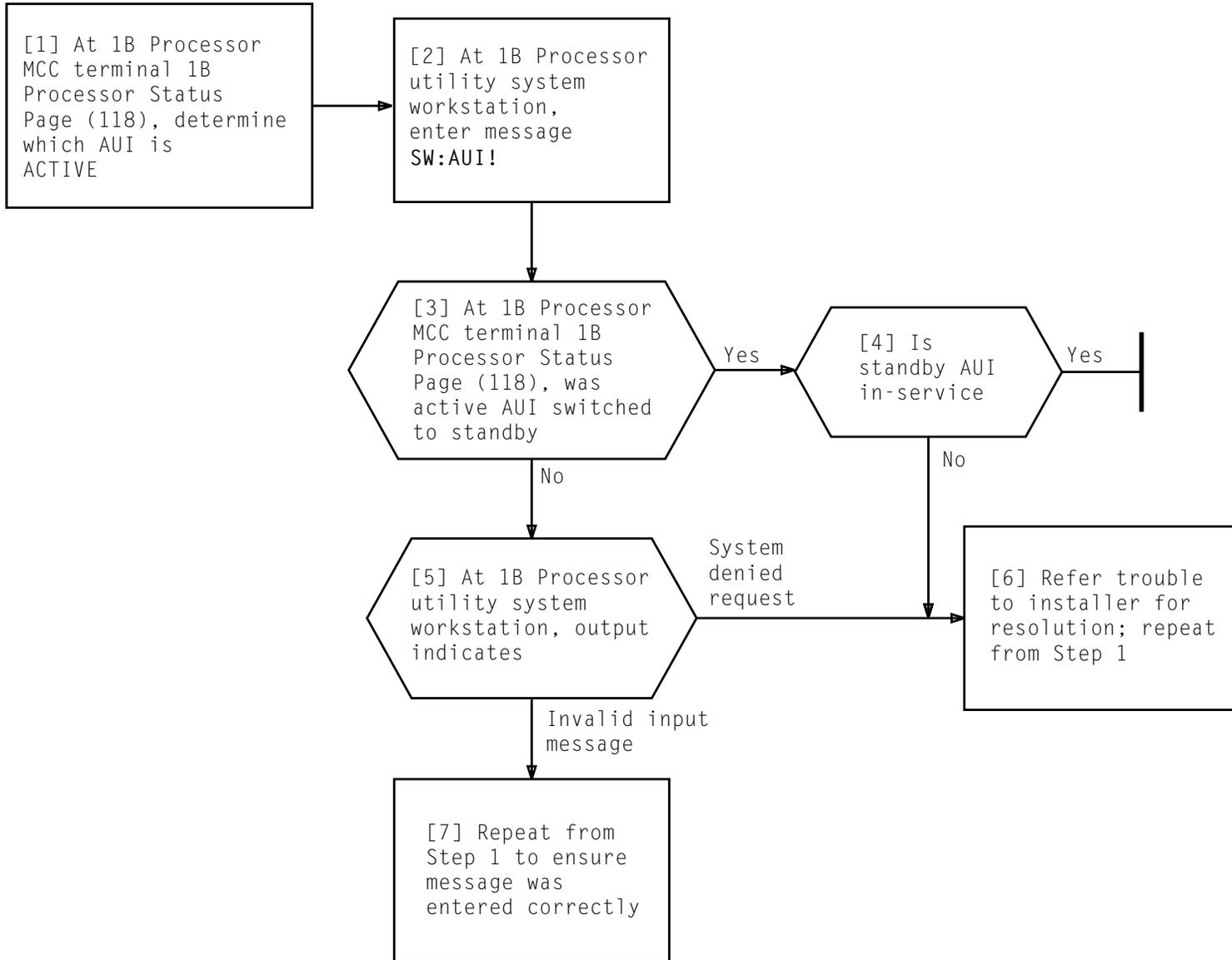


TABLE D	
LED	INDICATION
<b>ACK*</b>	On then Off
<b>OS**</b>	Off
* <b>ACK</b> LED will go off when <b>OS</b> LED goes off	
** this will not occur until restore is complete	

TABLE E	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN: AUI a COMPLETED CATP (20000000 000b0c00) MSG COMPL TEST: AUI a ATP RST: AUI a COMPLETED
a = member number of standby AUI b = 2 (if API 0 or DUS 0 not available) or 4 (if API 1 or DUS 1 not available) c = 1 (if AUB 0 OOS) or 2 (if AUB 1 OOS)	

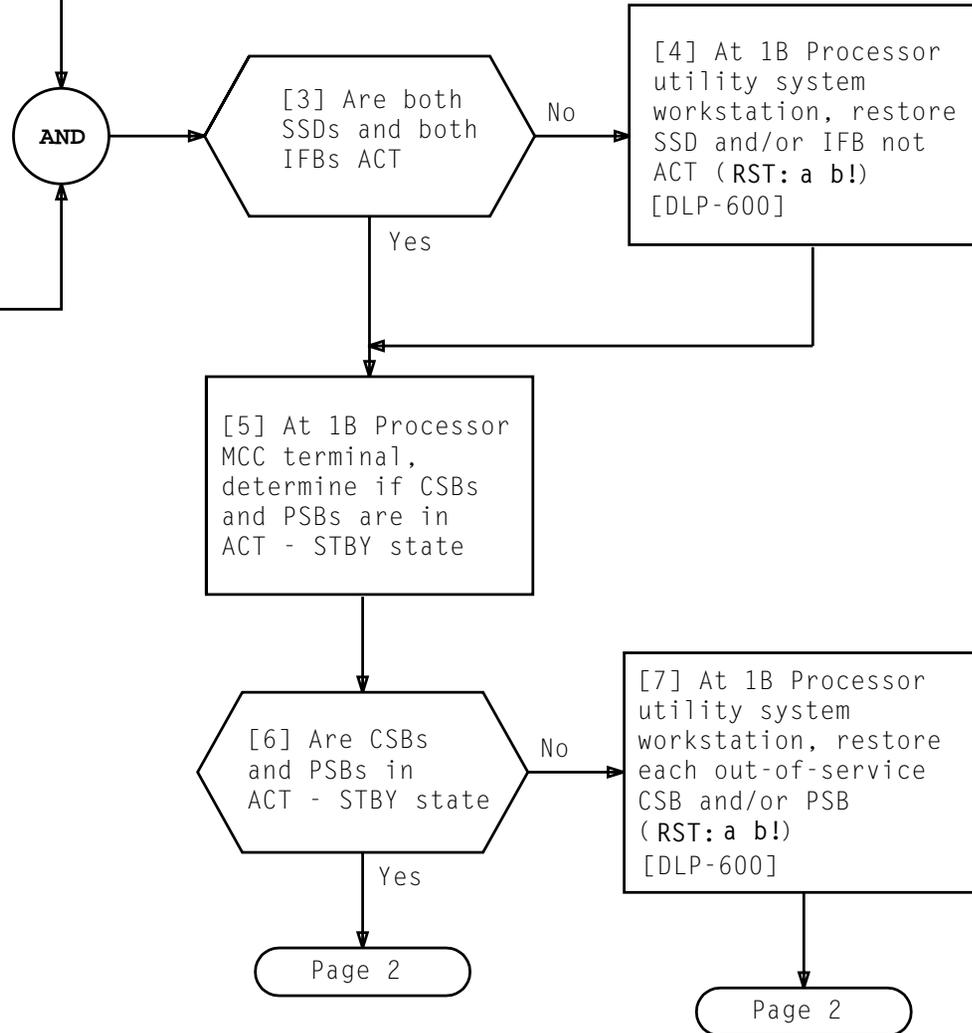


**SWITCH 1B PROCESSOR AUXILIARY UNIT INTERFACES (AUIs)**

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[1] At 1B Processor MCC terminal,  
enter 118 to obtain 1B Processor  
Status Page (118)

[2] Determine if both SSDs  
and both IFBs are ACT



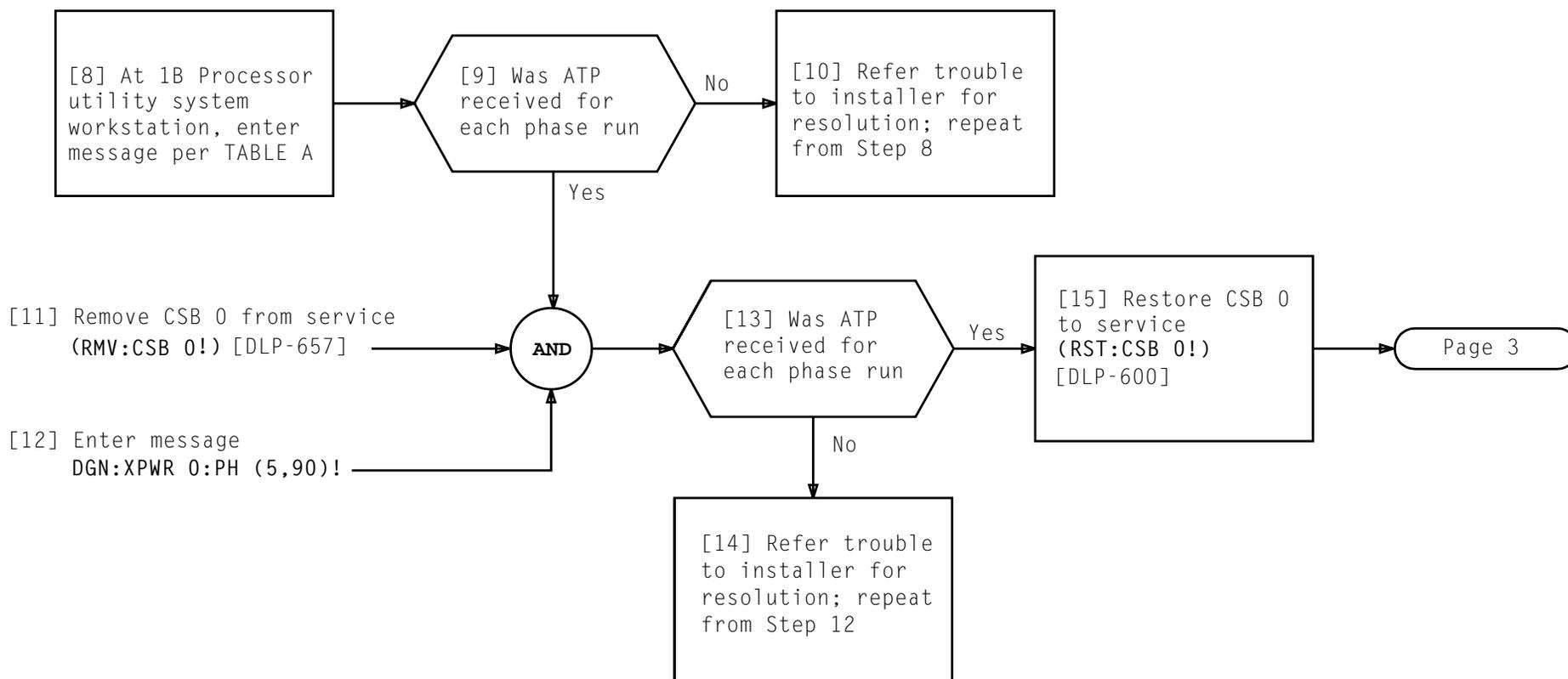


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	DGN:XPWR 0:PH (1,3,7,10,92,95)!

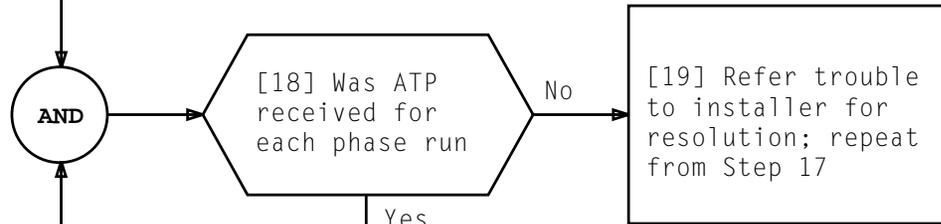
[16] Remove PSB 0 from service  
(RMV:PSB 0!) [DLP-657]

[17] Enter message  
DGN:XPWR 0:PH (6,91)!

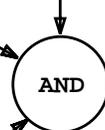
[20] Restore PSB 0 to service  
(RST:PSB 0!) [DLP-600]

[21] Restore XPWR 0 to service  
(RST:XPWR 0!) [DLP-600]

[22] Enter message  
DGN:XPWR 1:PH (1,3,7,10,92,95)!

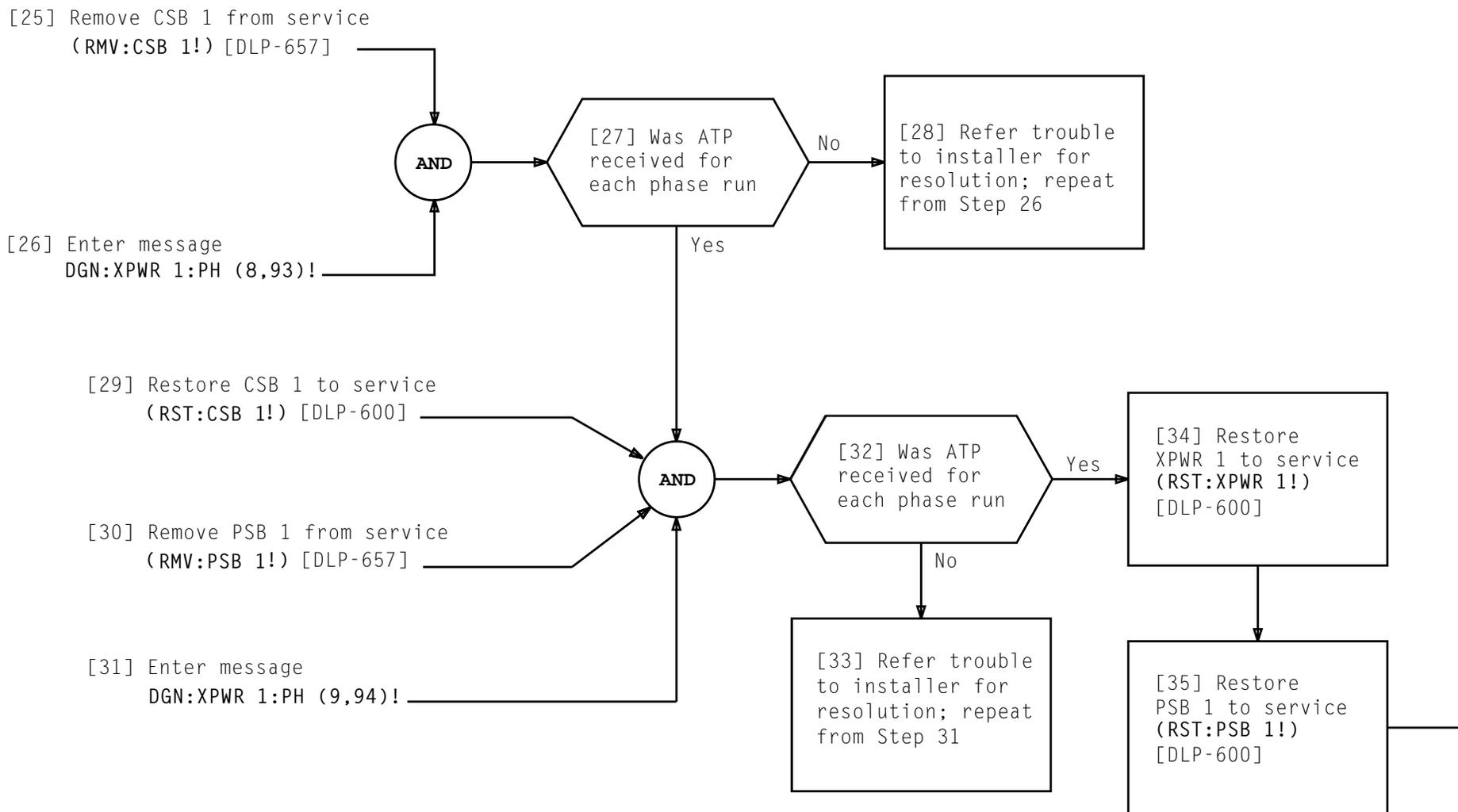


[19] Refer trouble to installer for resolution; repeat from Step 17



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[24] Refer trouble to installer for resolution; repeat from Step 22



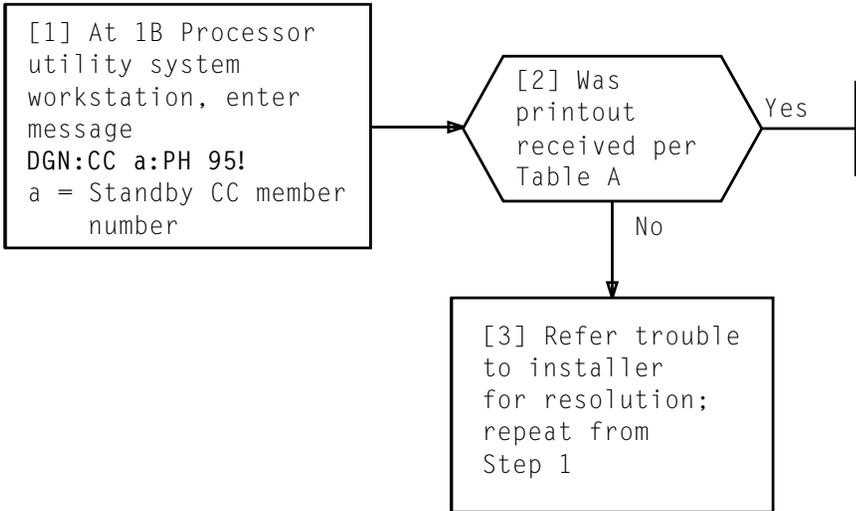


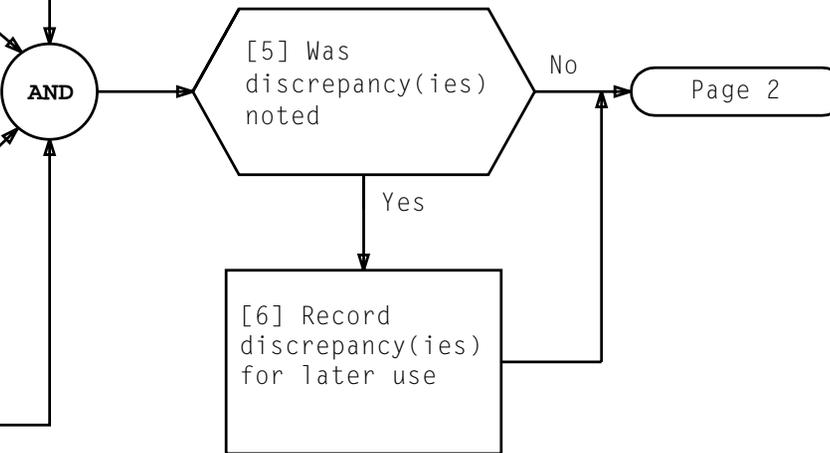
TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:CC a PH 95 ATP DGN:CC a COMPLETED ATP MSG COMPL TEST:CC a DFR ATP

[1] At MTC terminal, enter message  
VER:UTYPE:API (0,1)!

[2] At 1B Processor utility system  
workstation, enter message  
VER:UTYPE:API (0,1)!

[3] Compare two leftmost octal  
digits in word 0 (Step 1) with  
two leftmost octal digits in  
word 0 (Step 2) for APIs  
0 and 1 (MT and MTHG fields).  
Note discrepancy(ies)

[4] Compare data in word 1 (Step 1)  
with data in word 1 (Step 2)  
for APIs 0 and 1 (GCPI and  
MGCP fields). Note discrepancy(ies)

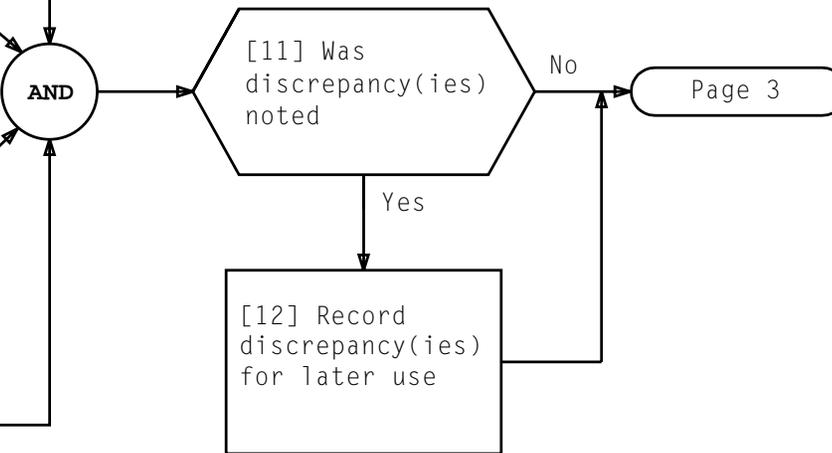


[7] At MTC terminal, enter message  
VER:UTYPE:DUS (0,1)!

[8] At 1B Processor utility system  
workstation, enter message  
VER:UTYPE:DUS (0,1)!

[9] Compare two leftmost octal  
digits in word 0 (Step 7) with  
two leftmost octal digits in  
word 0 (Step 8) for DUSs 0  
and 1 (MT and MTHG fields).  
Note discrepancy(ies)

[10] Compare data in word 1 (Step 7)  
with data in word 1 (Step 8)  
for DUSs 0 and 1 (GCPI and  
MGCP fields). Note discrepancy(ies)

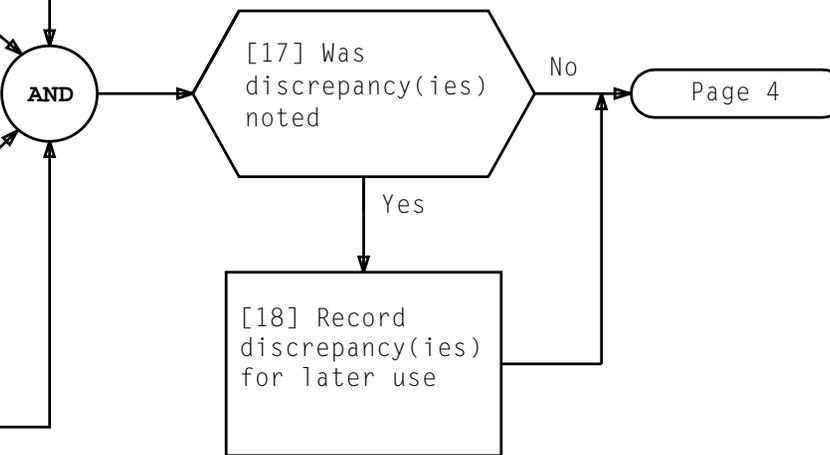


[13] At MTC terminal, enter message  
VER:UTYPE:PUBB 0! \_\_\_\_\_

[14] At 1B Processor utility system  
workstation, enter message  
VER:UTYPE:PUBB 0! \_\_\_\_\_

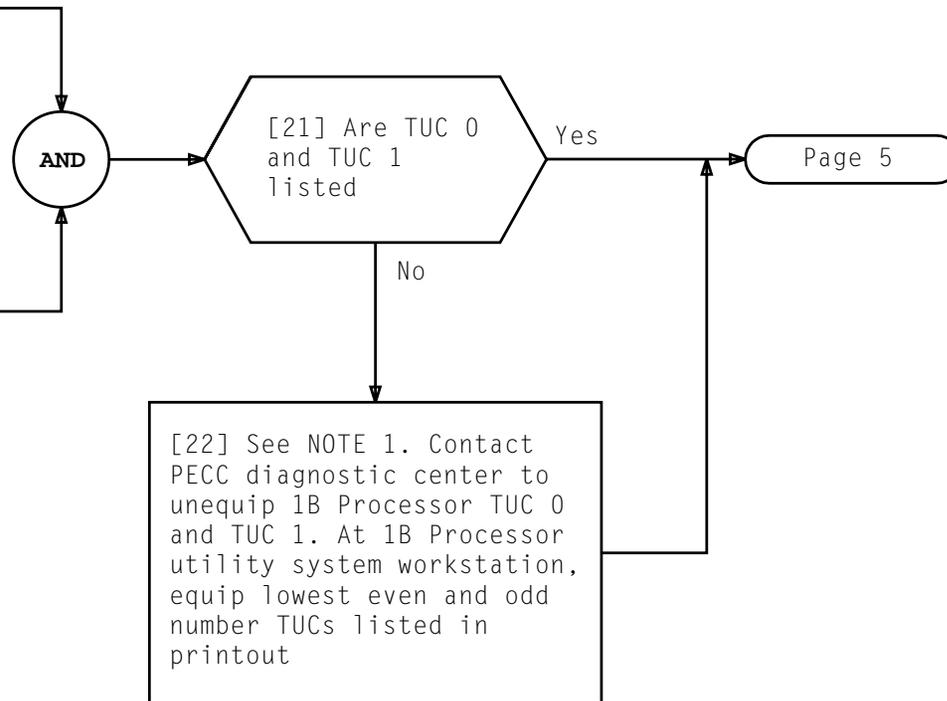
[15] Compare octal digits in  
word 0 (Step 13) with two leftmost  
octal digits in word 0 (Step 14)  
for PUBB 0 (MT, MTHG, and  
PUBB Branch equipage fields).  
Note discrepancy(ies) \_\_\_\_\_

[16] Compare data in word 2 (Step 13)  
with data in word 2 (Step 14)  
for PUBB 0 (GCPI and GCPC fields).  
Note discrepancy(ies) \_\_\_\_\_



[19] At MTC terminal, enter message  
OP:DUSTATUS!

[20] Using printout (Step 19),  
determine if TUC 0 and  
TUC 1 are listed

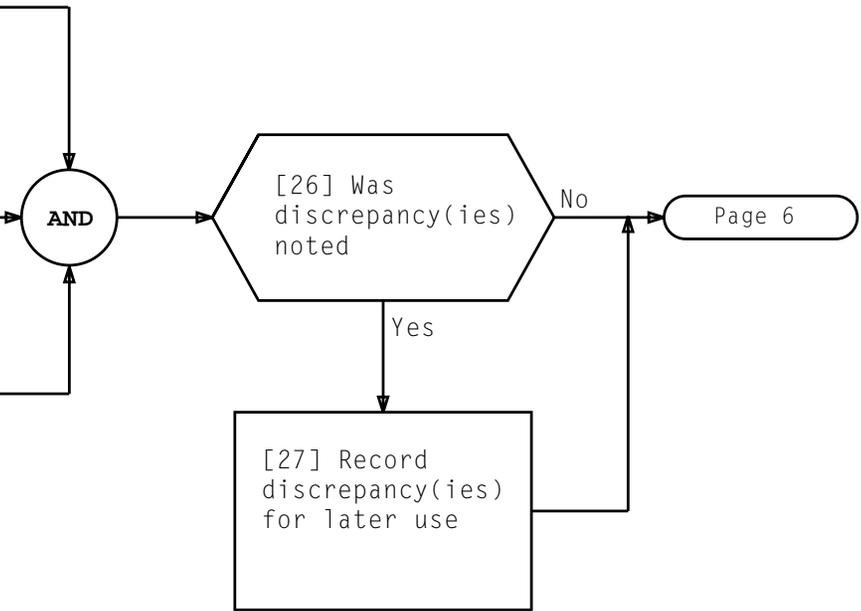


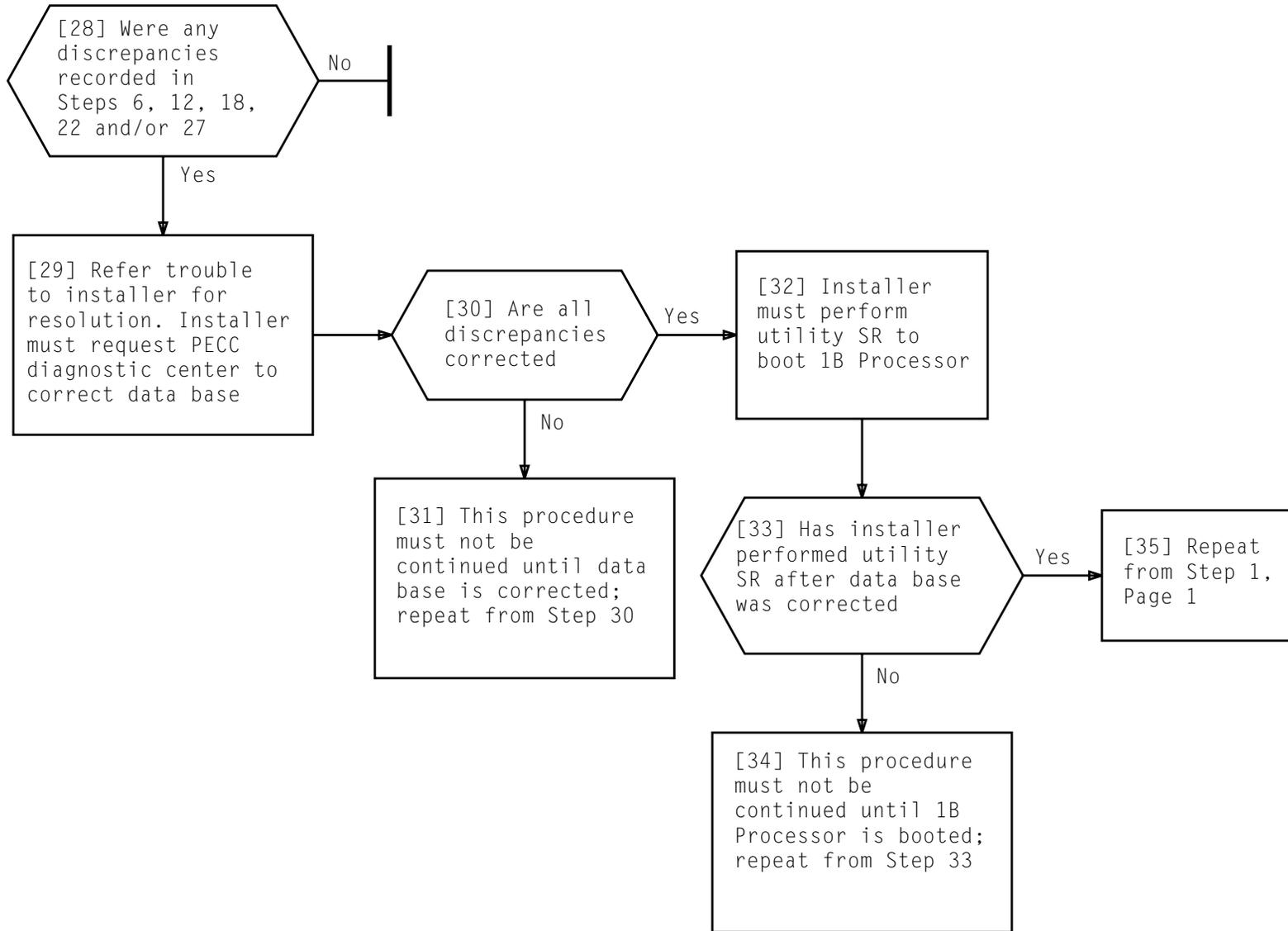
NOTE 1 TUC 0 and TUC 1 are equipped in ODA for 1B Processor utility system workstation. If other than TUC 0 and TUC 1 are equipped in office, ODA in 1B Processor utility system workstation must be changed to equip lowest even number TUC and lowest odd number TUC equipped in office	
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[23] At MTC terminal, enter message  
 VER:UTYPE:TUC (a,b)!  
 a = even TUC number  
 b = odd TUC number

[24] At 1B Processor utility system  
 workstation, enter message  
 VER:UTYPE:TUC (a,b)!  
 a = even TUC number (Step 23)  
 b = odd TUC number (Step 23)

[25] Compare data in word 0 (Step 23)  
 with data in word 0 (Step 24)  
 for two TUCs. Note discrepancy(ies)





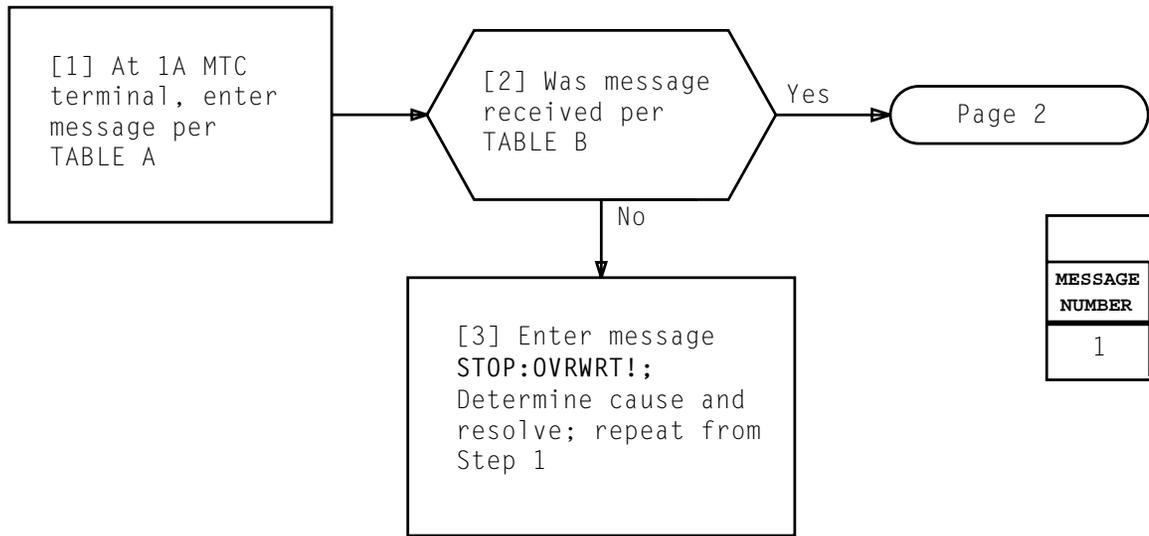


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	IN:OWBUF:ADR 15774004,DATA (0,0)!

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	IN:OWBUF CORE ADR OLDDATA NEWDATA 15774004 33300140 00000000 14001762 00000000

**ENTER OVERWRITE FOR MODIFY RECOVERY ACTIONS KEY**

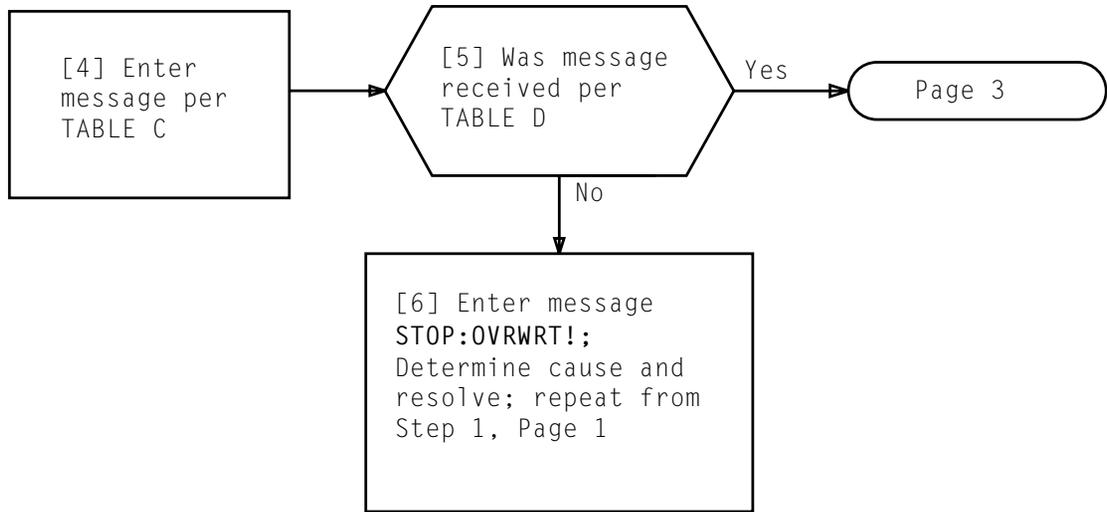


TABLE C	
MESSAGE NUMBER	INPUT MESSAGE
1	IN:OWBUF:ADR 15774407,DATA 0!

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGE
1	IN:OWBUF CORE ADR OLDDATA NEWDATA 15774407 73441762 00000000

**ENTER OVERWRITE FOR MODIFY RECOVERY ACTIONS KEY**

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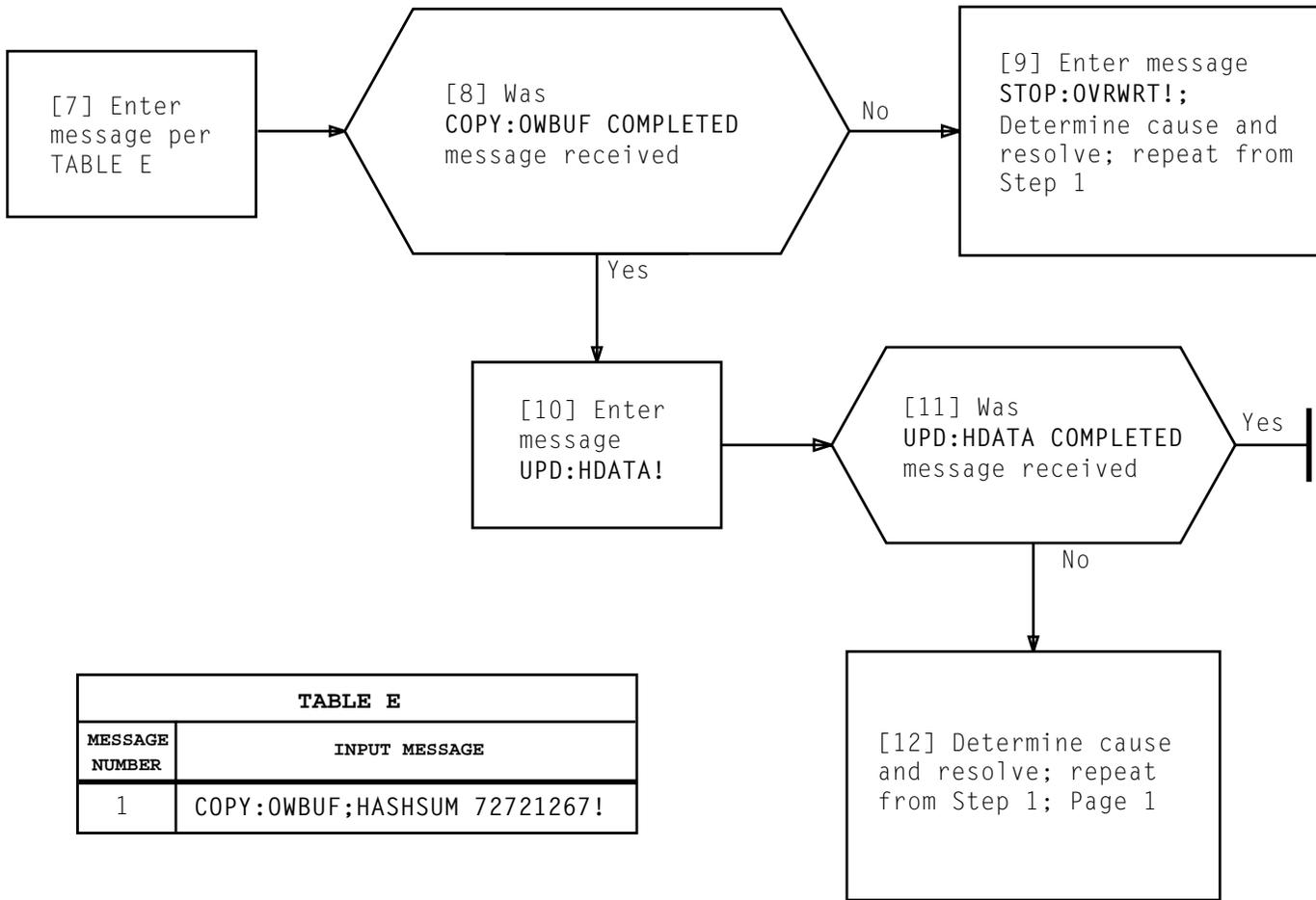


TABLE E	
MESSAGE NUMBER	INPUT MESSAGE
1	COPY:OWBUF;HASHSUM 72721267!

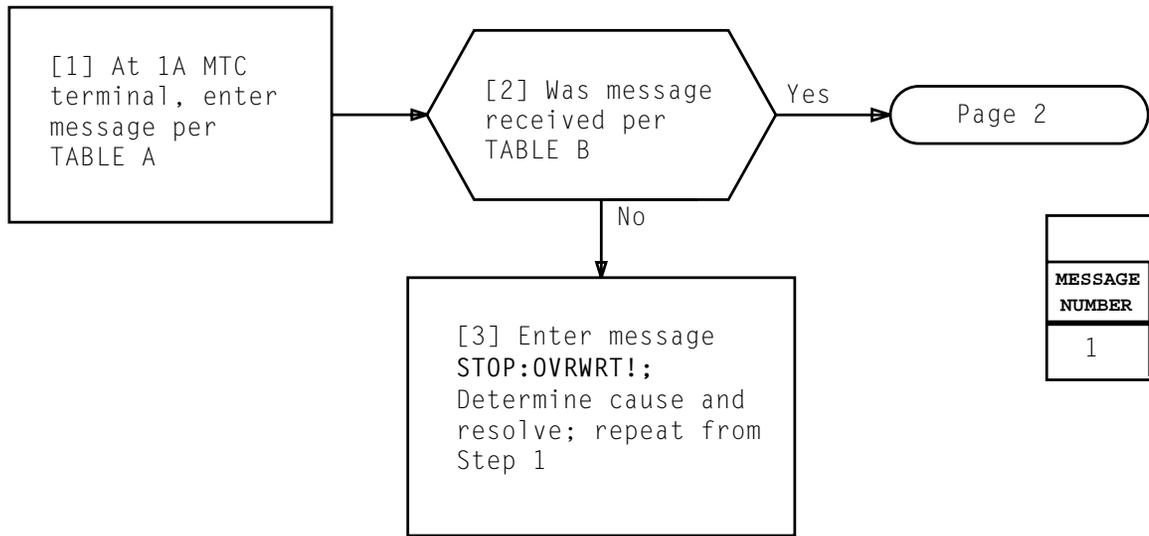


TABLE A	
MESSAGE NUMBER	INPUT MESSAGE
1	IN:OWBUF:ADR 15774004,DATA (33300140,14001762)!

TABLE B	
MESSAGE NUMBER	OUTPUT MESSAGE
1	IN:OWBUF CORE ADR OLDDATA NEWDATA 15774004 00000000 33300140 00000000 14001762

**BACK OUT OVERWRITE**

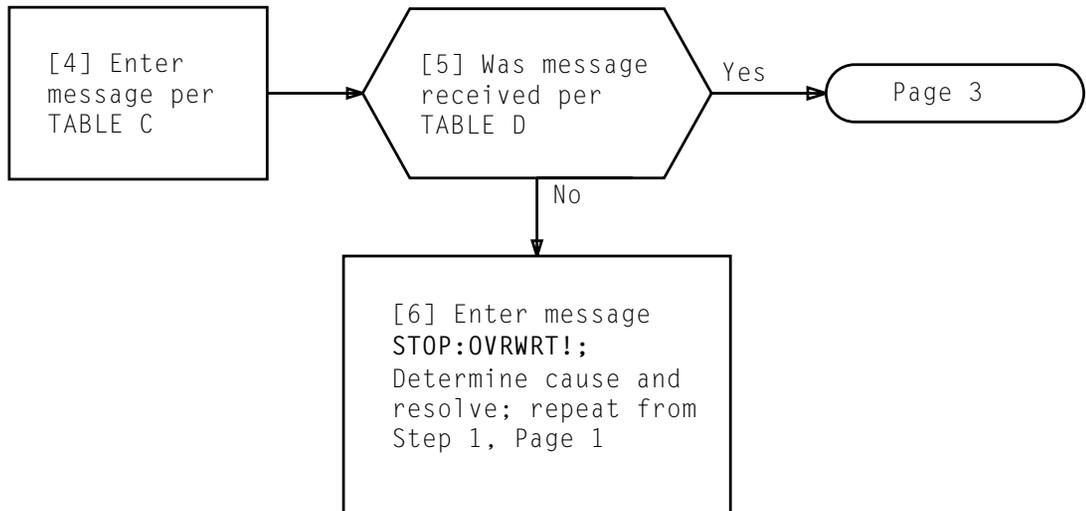


TABLE C	
MESSAGE NUMBER	INPUT MESSAGE
1	IN:OWBUF:ADR 15774407,DATA 73441762!

TABLE D	
MESSAGE NUMBER	OUTPUT MESSAGE
1	IN:OWBUF CORE ADR OLDDATA NEWDATA 15774407 00000000 73441762

**BACK OUT OVERWRITE**

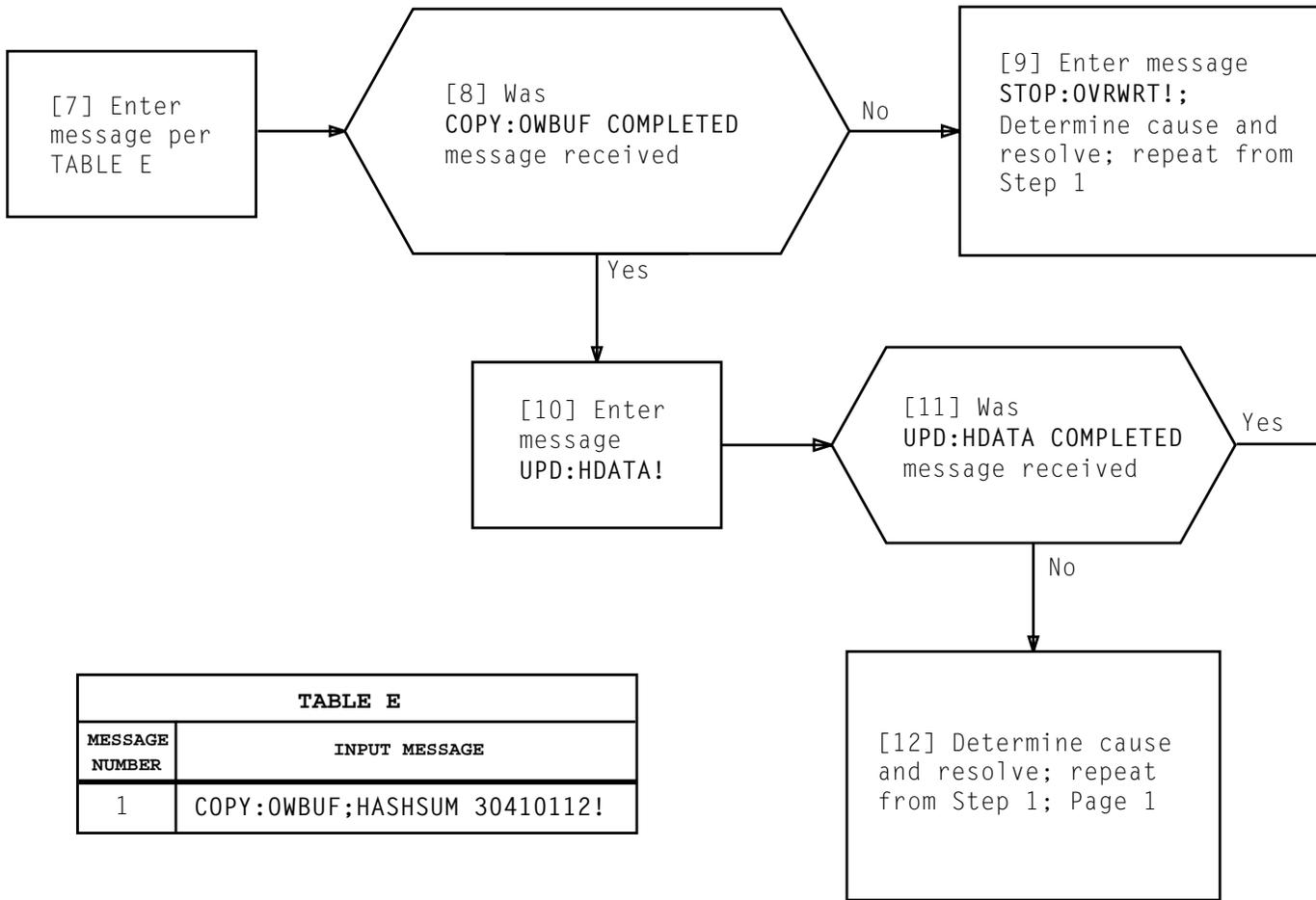


TABLE E	
MESSAGE NUMBER	INPUT MESSAGE
1	COPY:OWBUF;HASHSUM 30410112!

**BACK OUT OVERWRITE**

[1] Bring up 3B monitor window for office being retrofitted and enter message **OP:APPLOAD UPD!**

[2] Using printout, record office name, generic issue release, ODA date written, and ODA time, for later use

[3] Login into TCC workstation

[5] Depress and hold rightmost mouse button

Workspace menu displayed

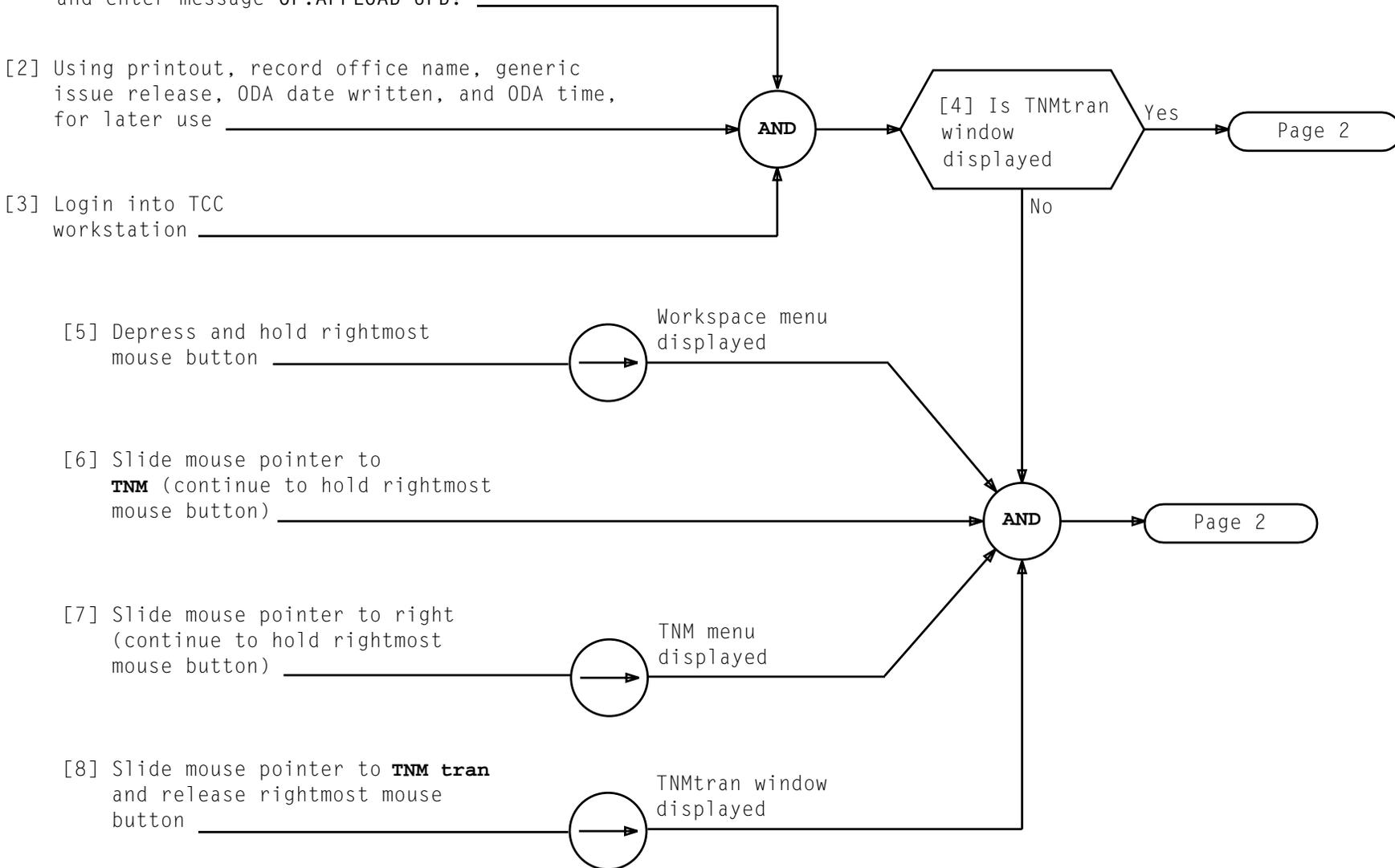
[6] Slide mouse pointer to **TNM** (continue to hold rightmost mouse button)

[7] Slide mouse pointer to right (continue to hold rightmost mouse button)

TNM menu displayed

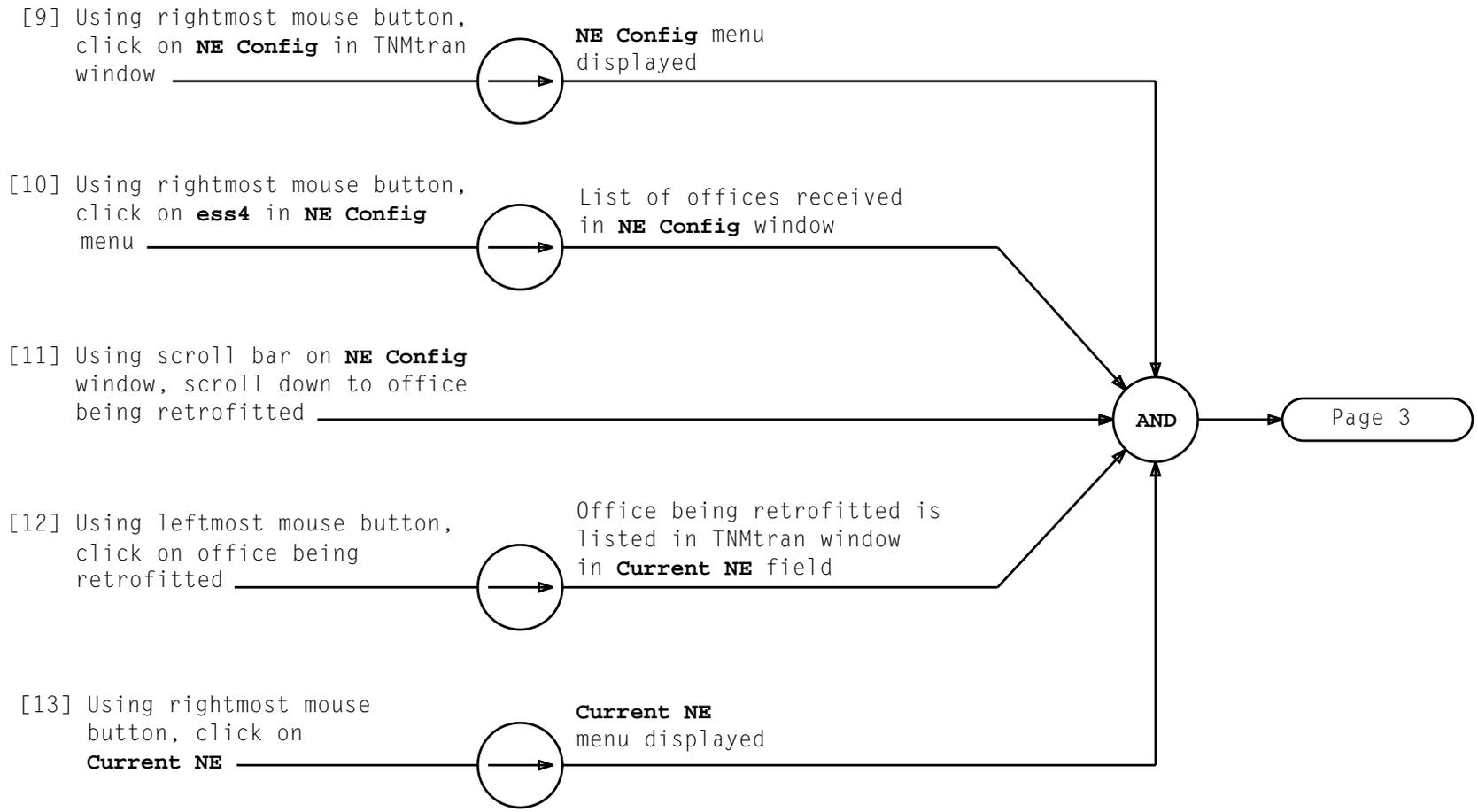
[8] Slide mouse pointer to **TNM tran** and release rightmost mouse button

TNMtran window displayed



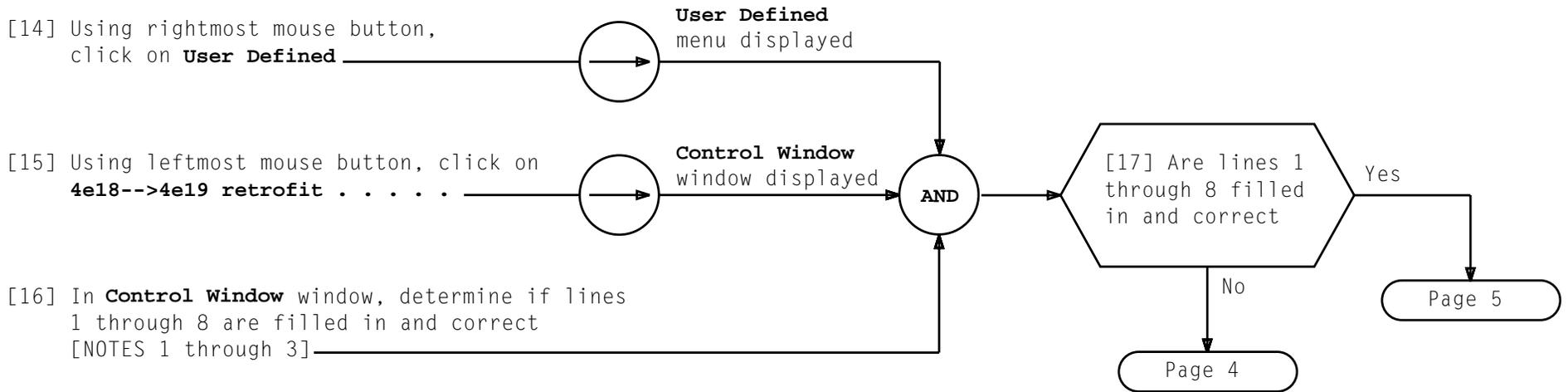
## SETUP TNM COMMUNICATION FOR AUTOSEQUENCING TO OFFICE BEING RETROFITTED

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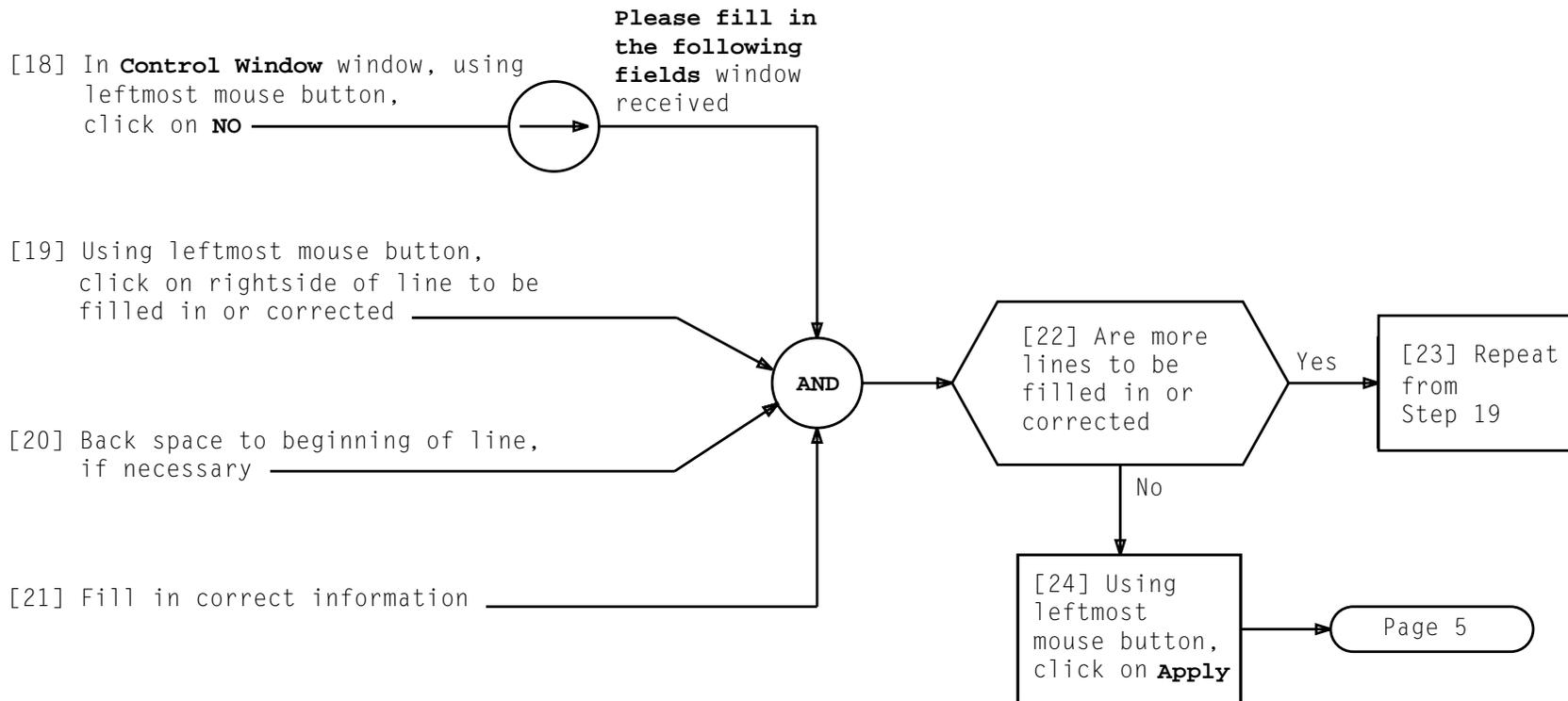


**SETUP TNM COMMUNICATION FOR AUTOSEQUENCING TO OFFICE BEING RETROFITTED**

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NOTES	
1. Information for lines 2 through 5 is obtained from local TNM administrator	
2. Information for lines 1 and 6 through 8 was obtained in Step 2, Page 1	
3. Lines 1 and 6 through 8 must be entered exactly as received in printout	
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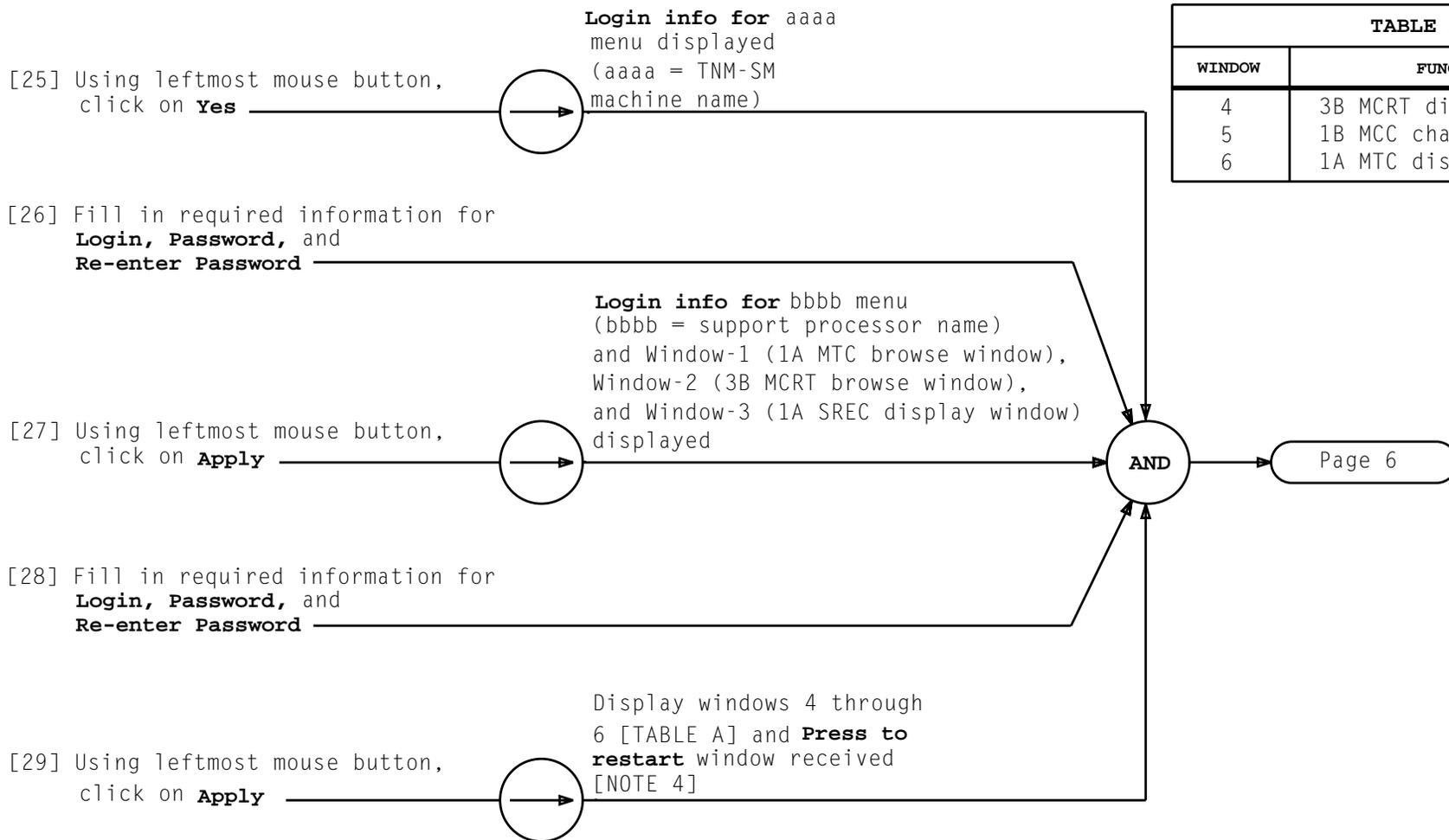
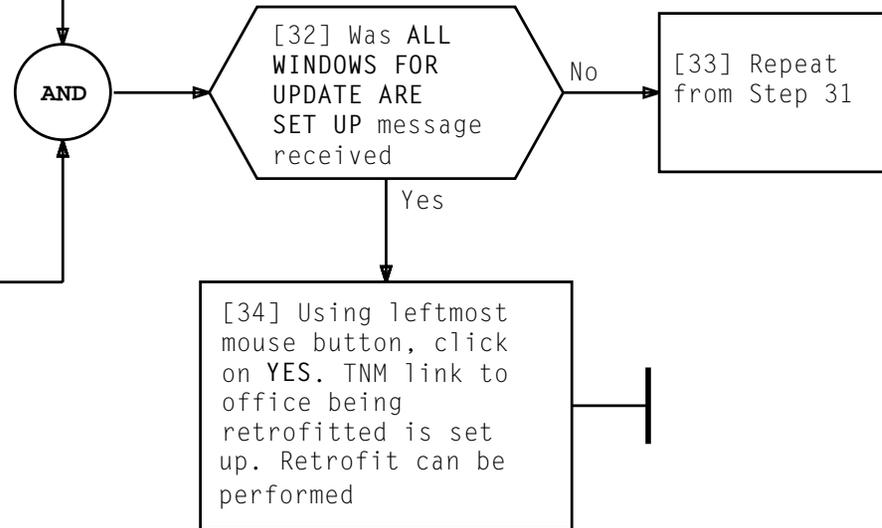


TABLE A	
WINDOW	FUNCTION
4	3B MCRT display
5	1B MCC channel
6	1A MTC display

NOTE 4 Takes a short time for TNM to set up window	
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[30] Wait for TO BEGIN THE UPDATE  
FOR xxxx.mtc: Click the YES button  
with the left mouse button to be  
displayed in **INSTRUCTIONS:** window  
(xxxx = 1A processor name entered  
on line 2 of **INSTRUCTIONS:** window

[31] Proceed as directed by **Control Window**  
window to set up windows; then wait for  
ALL WINDOWS FOR UPDATE ARE  
SET UP message



[1] Log into workstation with RUAS capabilities (mvterm window for TCC). This workstation will be called RUAS workstation in procedure

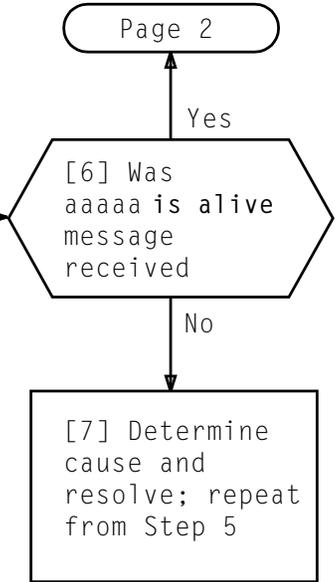
[2] Determine from Mini-Maintenance Operation Center (MMOC), new OFFICE server name (TNM-SM processor name) for RUAS office that was cutover and record for later use

[3] Determine from MMOC, Internet Protocol address of concentrator node at MMOC and record for later use

[4] Determine from MMOC, RUAS office name that was cutover and record for later use

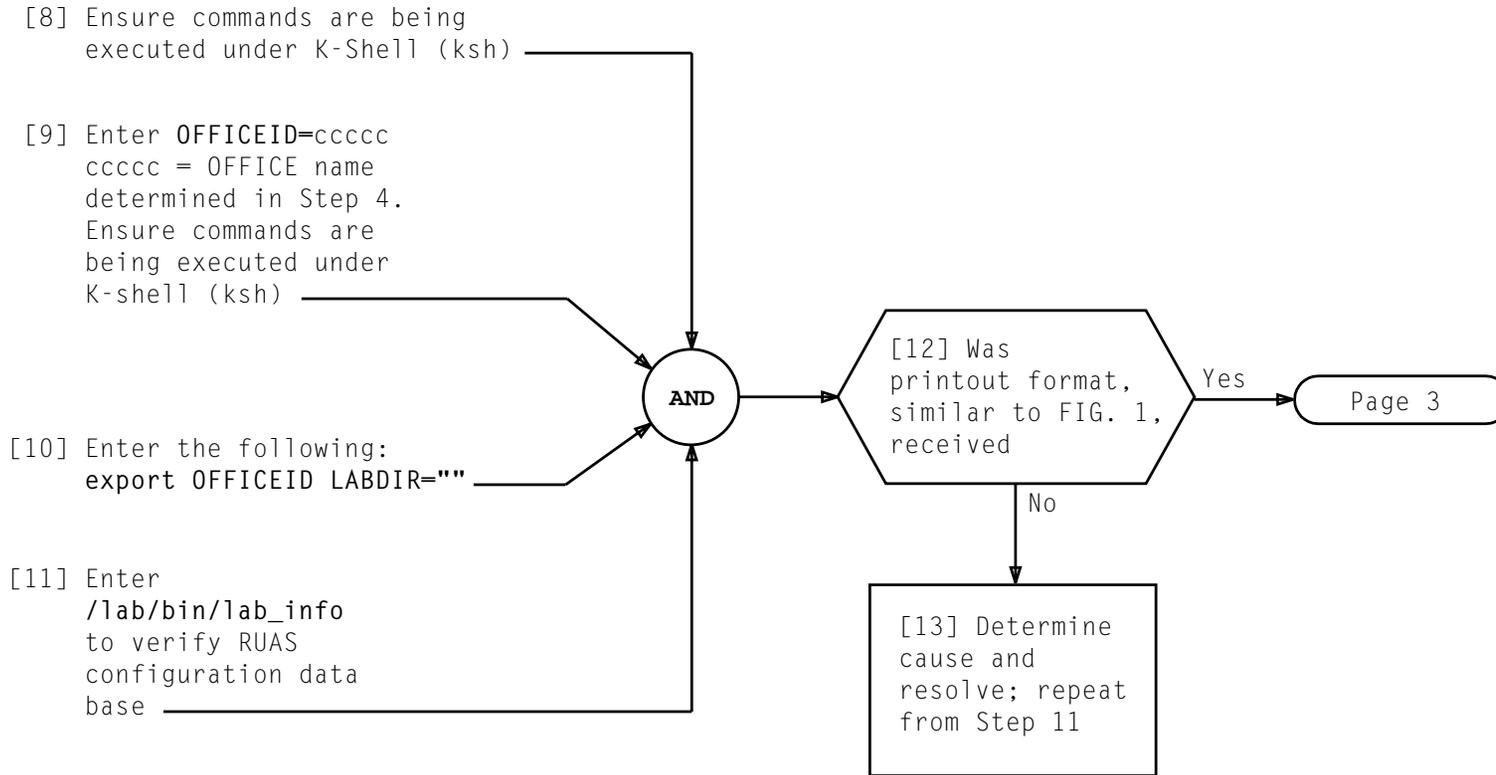
AND

[5] At RUAS workstation, enter message  
 /usr/etc/ping aaaaa  
 [aaaaa = OFFICE server name (TNM-SM processor name) determined in Step 2]  
 to verify connection to TNM-SM processor



**PERFORM RUAS CUTOVER VERIFICATION TESTS**

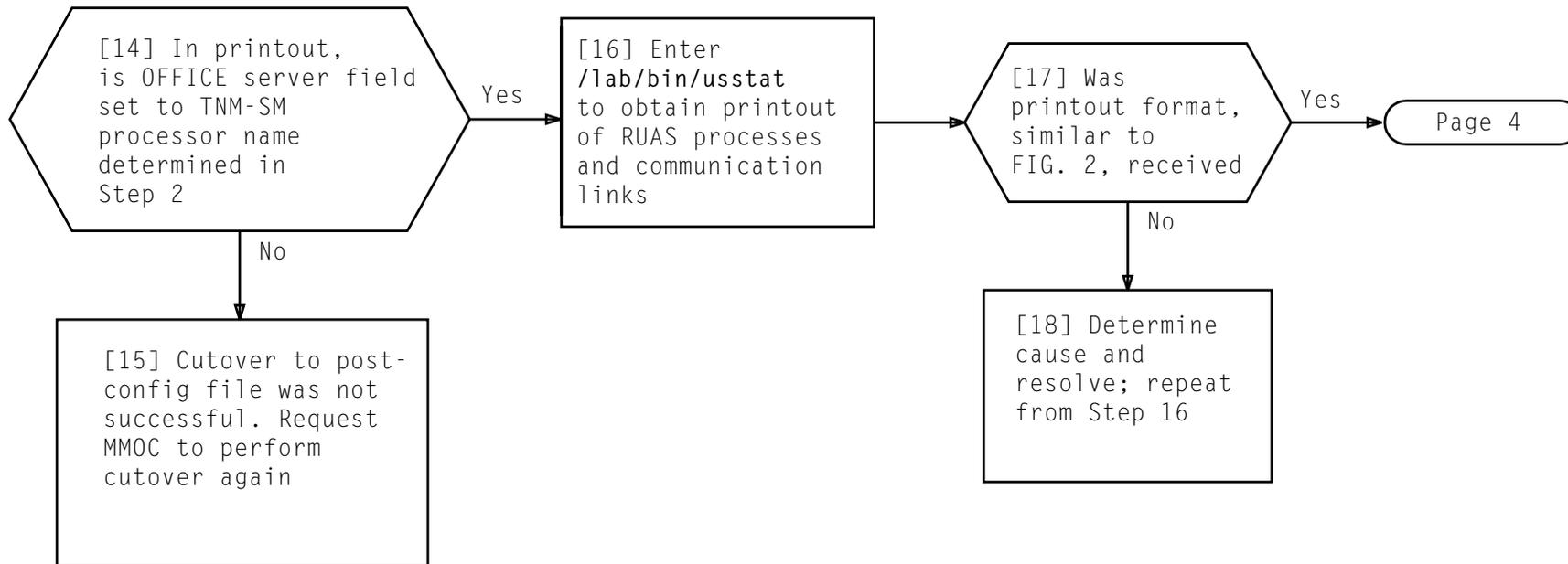
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```

wnv10 OFFICE Configuration
Comments      :
OFFICE name   : wnv10
OFFICE server : whost1
Us_flags     : 0x0
Directory    : /lab/wnv10
Us_handler   : /lab/bin/ushdlr
Us_timeout   : 30 Seconds
mup Names    : wnv10usmp0 wnv10usmp1
OFFICE clients : wnv10us wnruas whost1
rpc number   : 0x20001201
  
```

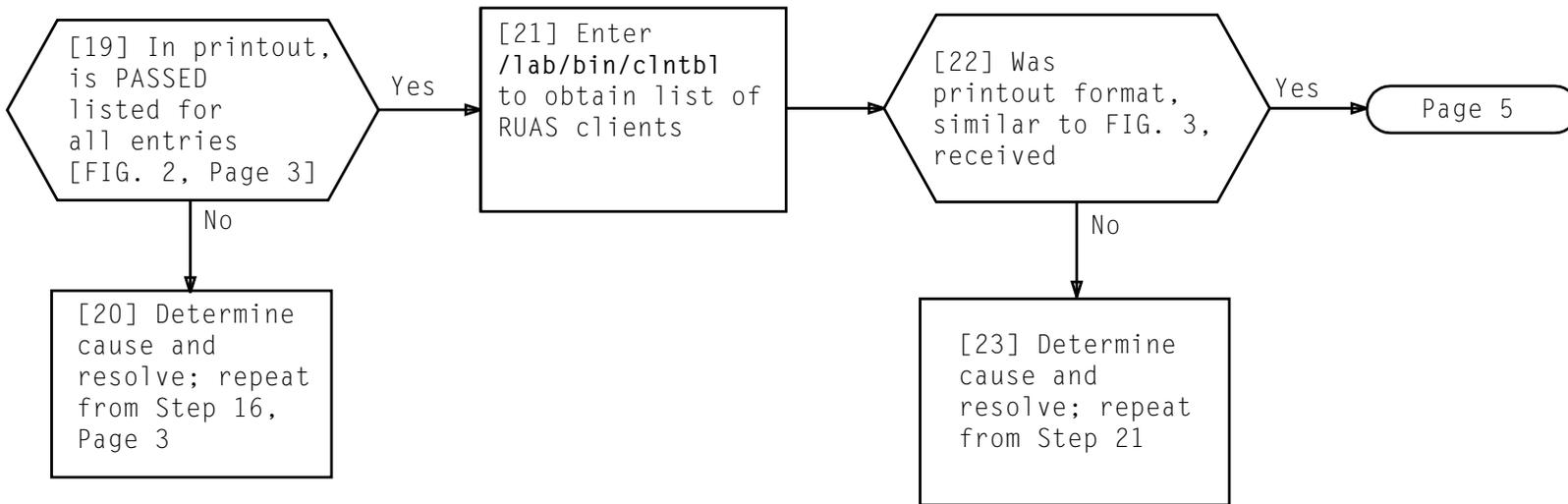
FIG. 1 - Sample of Office Information Printout



```

OFFICEID=wnv10  HOST=whost1  server=whost1
Global Handler  PASSED (whost1)
Async Handler   PASSED (whost1)
Error Handler   PASSED (whost1)
US Handler      PASSED Active MUP (wnv10usmp0)
                  Standby MUP (wnv10usmp1)
  
```

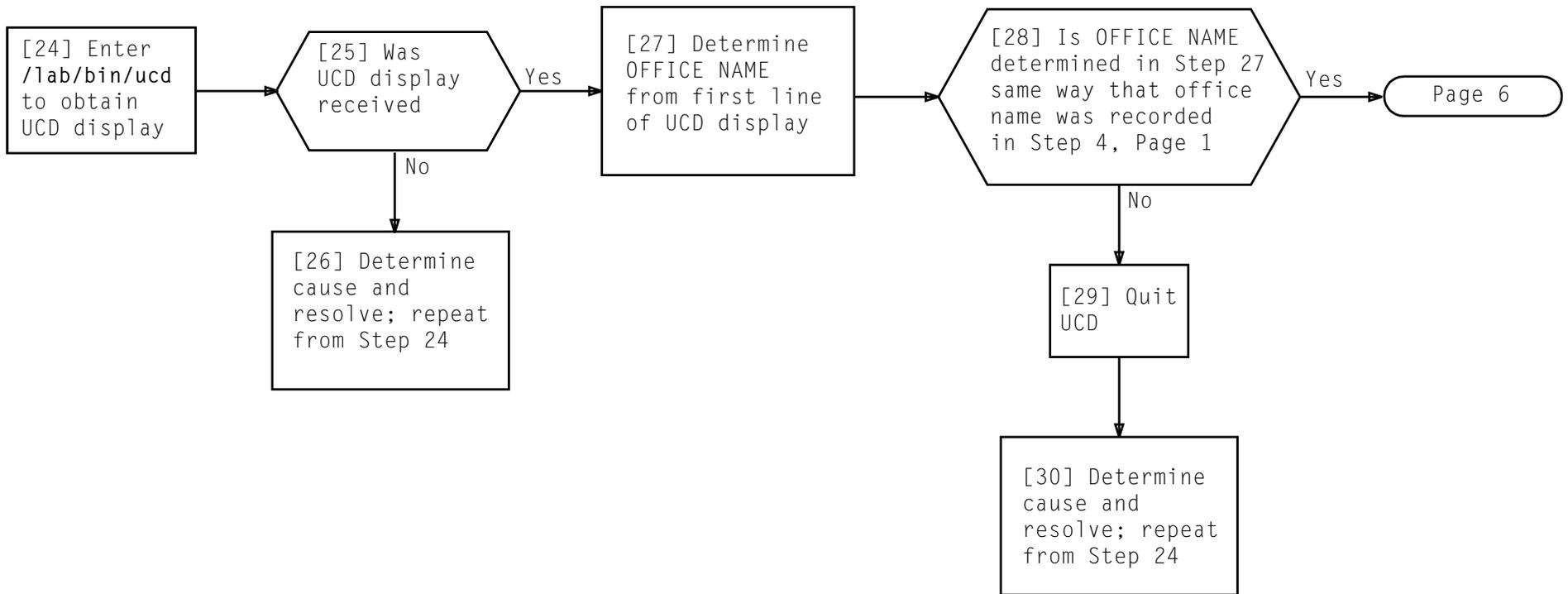
**FIG. 2 - Sample usstat Printout**

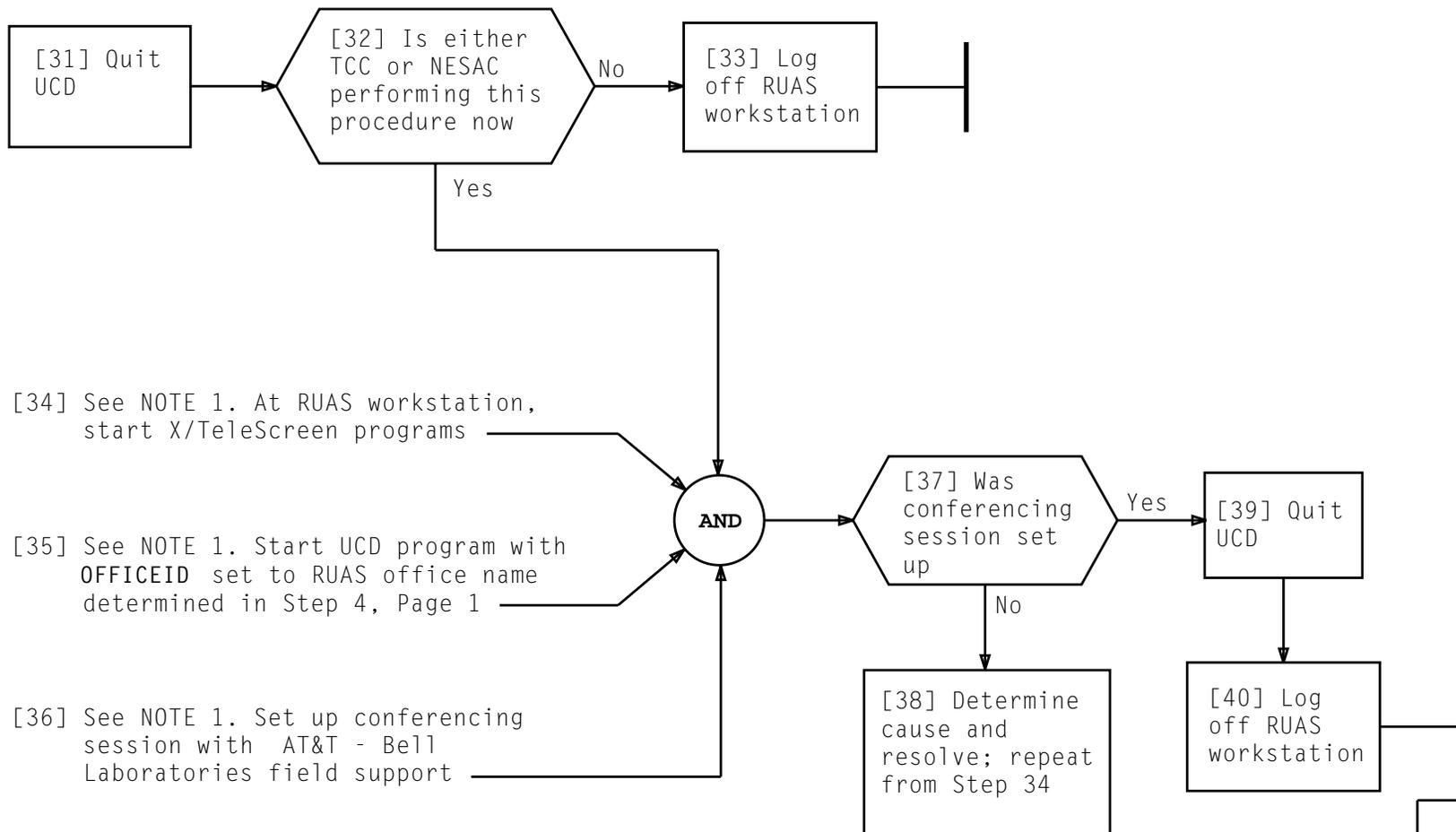


```

Client Number = 78
Release 19.5.3 on 8/6/1993; Client table for lab wnv10,machine wnv10usmp0
NUM      PERM      ERMASK  PID      UNAME      MNAME
78       3             ffffffff 319      dajb      whost1
  
```

**FIG. 3 - Sample of RUAS Client Printout**





NOTE 1 Refer to Section 7 in 234-310-001, <i>Utility System Users' Guide</i> and XTeleScreen documentation for setting up conferencing (Steps 34 through 36)	
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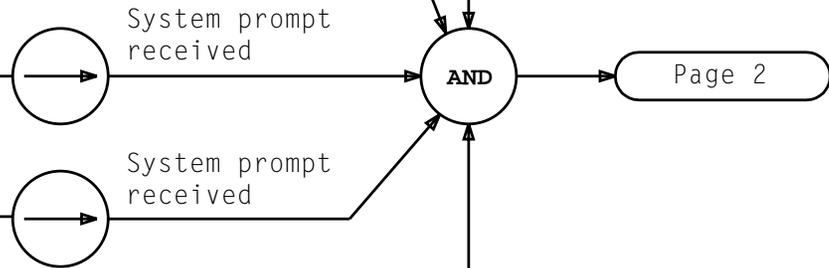
[1] Log into workstation with RUAS capabilities (mvterm window for TCC), This workstation will be called RUAS workstation in procedure

[2] Determine from Mini-Maintenance Operation Center (MMOC) OFFICE name being backed out and record for later use

[3] Enter OFFICEID=aaaaa  
aaaaa = OFFICE name determined in Step 2.  
Ensure commands are being executed under K-shell (ksh)

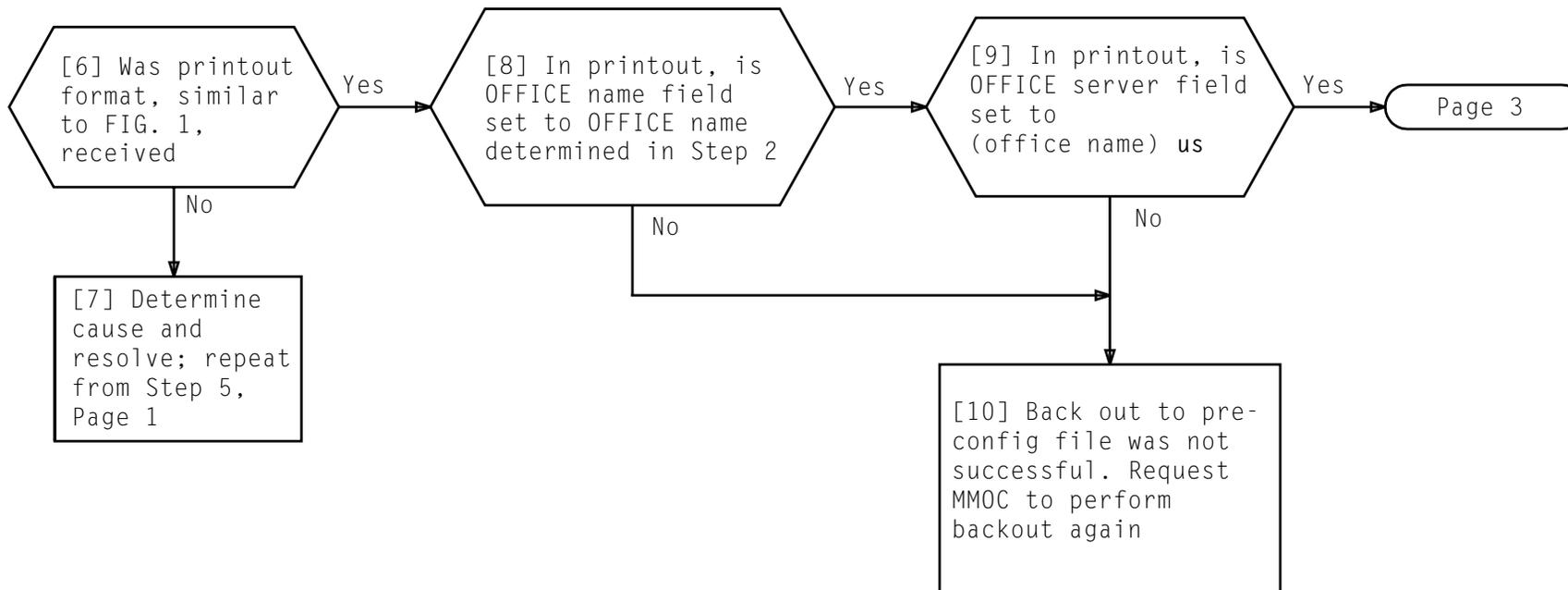
[4] Enter OFFICEID LABDIR=""

[5] Enter /lab/bin/lab\_info to verify RUAS configuration data base



**PERFORM RUAS BACKOUT VERIFICATION TESTS**

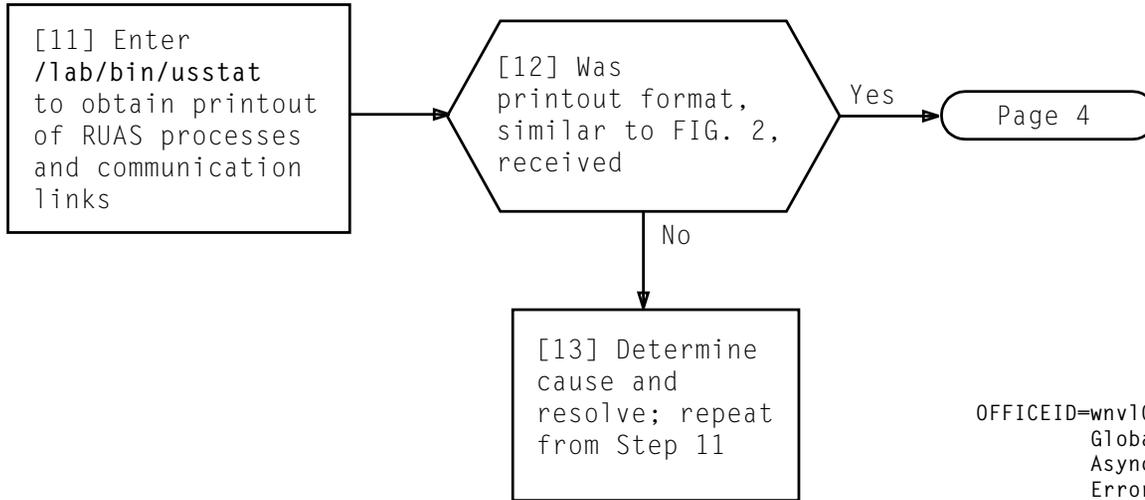
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```

wnv10 OFFICE Configuration
Comments      :
OFFICE name   : wnv10
OFFICE server : wnv10us
Us_flags     : 0x0
Directory    : /lab/wnv10
Us_handler   : /lab/bin/ushdlr
Us_timeout   : 30 Seconds
mup Names    : wnv10usmp0 wnv10usmp1
OFFICE clients : wnv10us wnruas whost1
rpc number   : 0x20001201
  
```

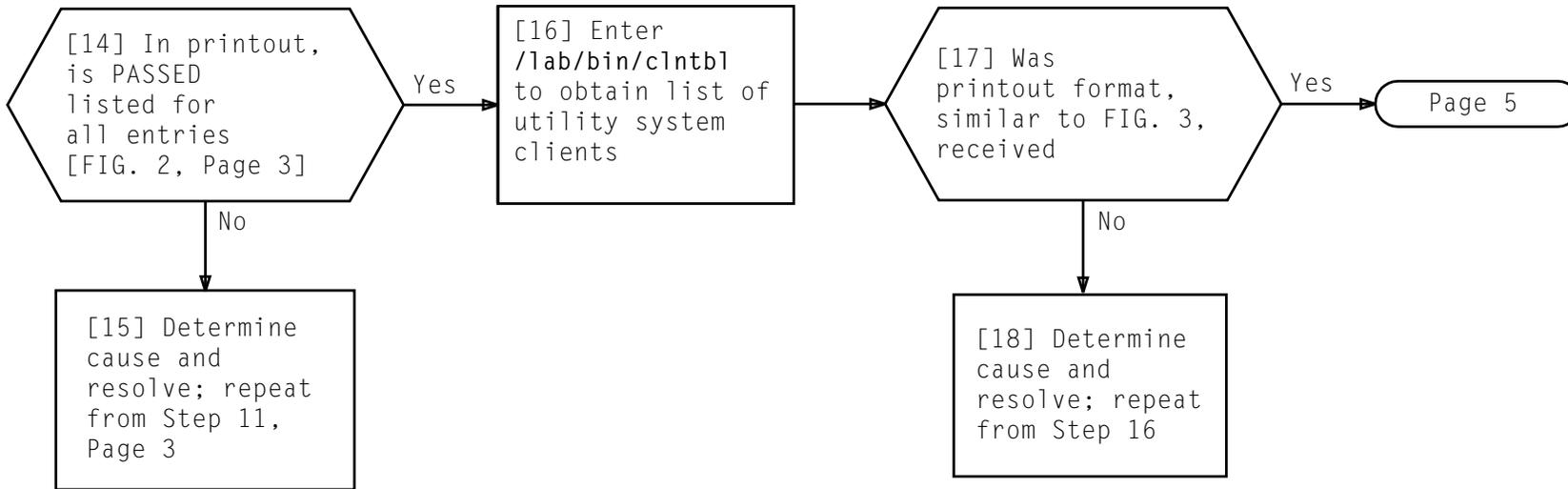
FIG. 1 - Sample of Office Information Printout



```

OFFICEID=wnv10  HOST=whost1  server=wnv10us
Global Handler  PASSED (wnv10us)
Async Handler   PASSED (wnv10us)
Error Handler   PASSED (wnv10us)
US Handler      PASSED Active MUP (wnv10usmp0)
                Standby MUP (wnv10usmp1)
MUP wnv10usmp0 PASSED
  
```

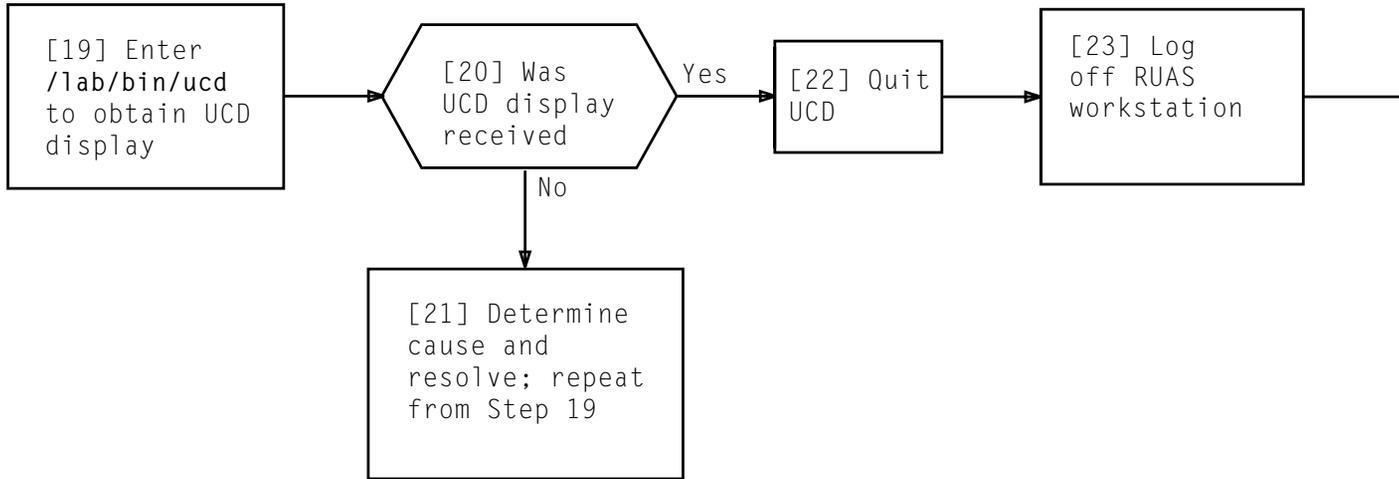
**FIG. 2 - Sample usstat Printout**



Client Number = 78  
 Release 19.5.3 on 8/6/1993; Client table for lab wnv10,machine wnv10usmp0

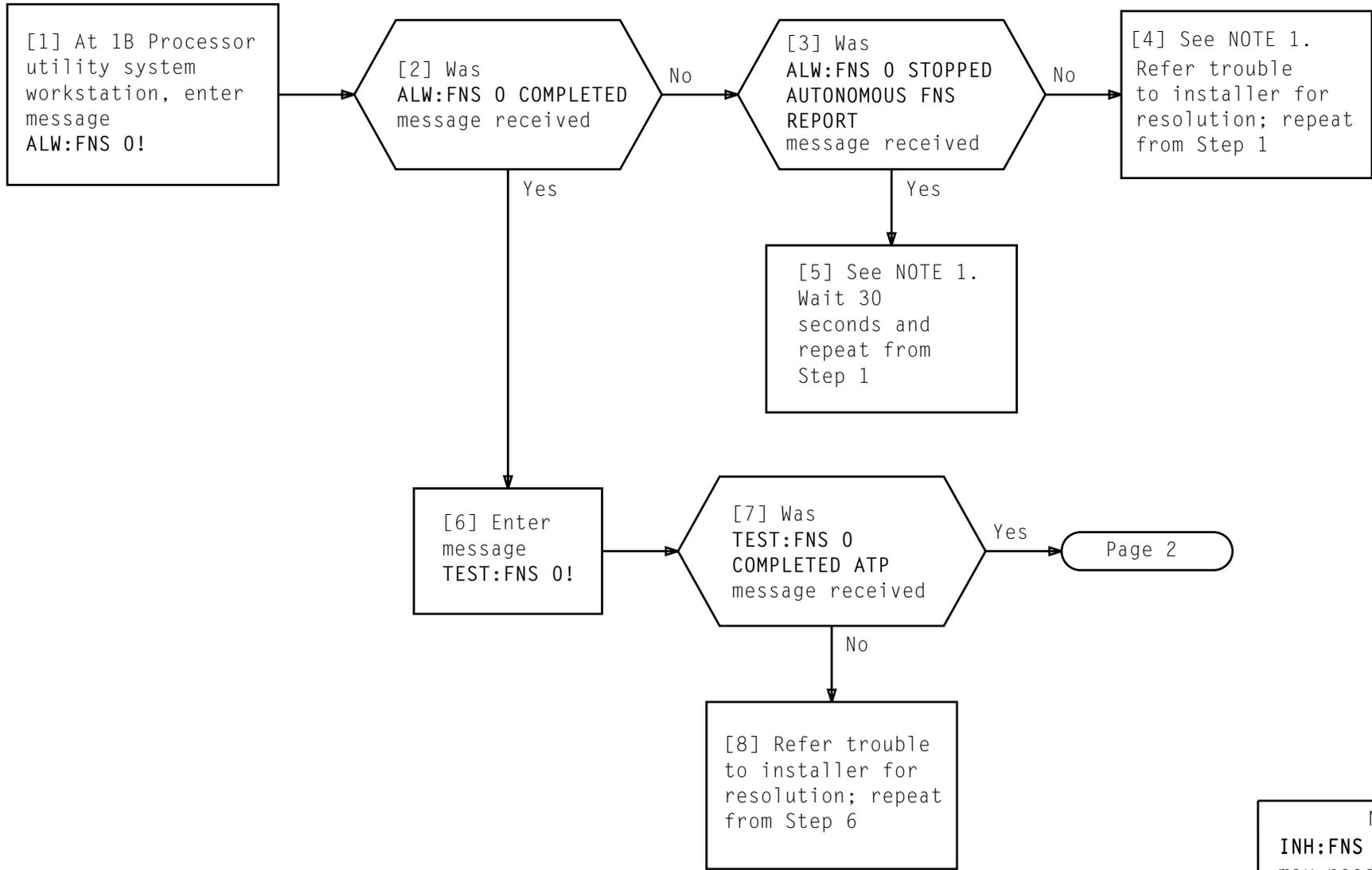
NUM	PERM	ERMASK	PID	UNAME	MNAME
78	3	ffffffff	319	dajb	whost1

FIG. 3 - Sample of RUAS Client Printout

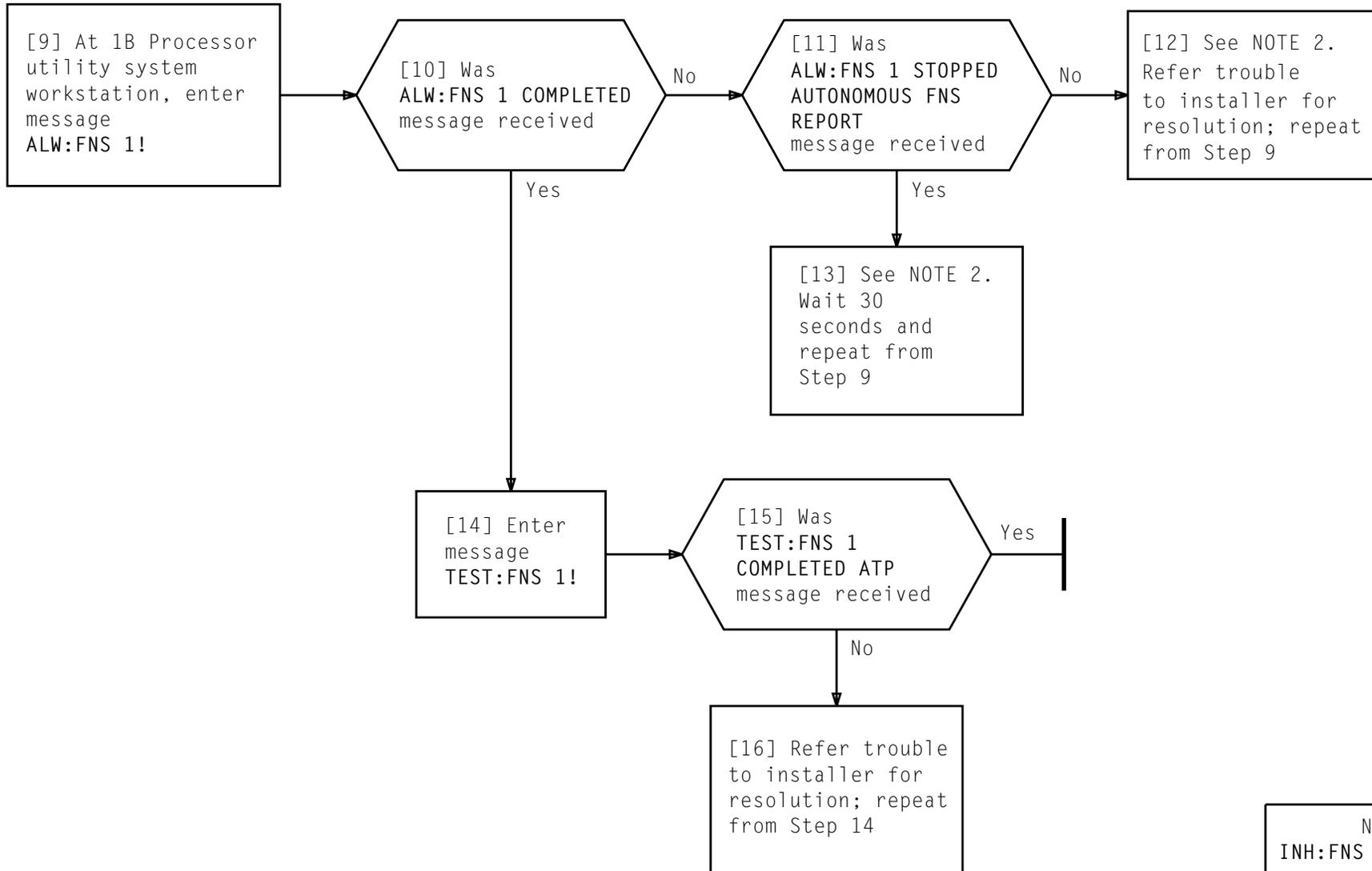


**PERFORM RUAS BACKOUT VERIFICATION TESTS**

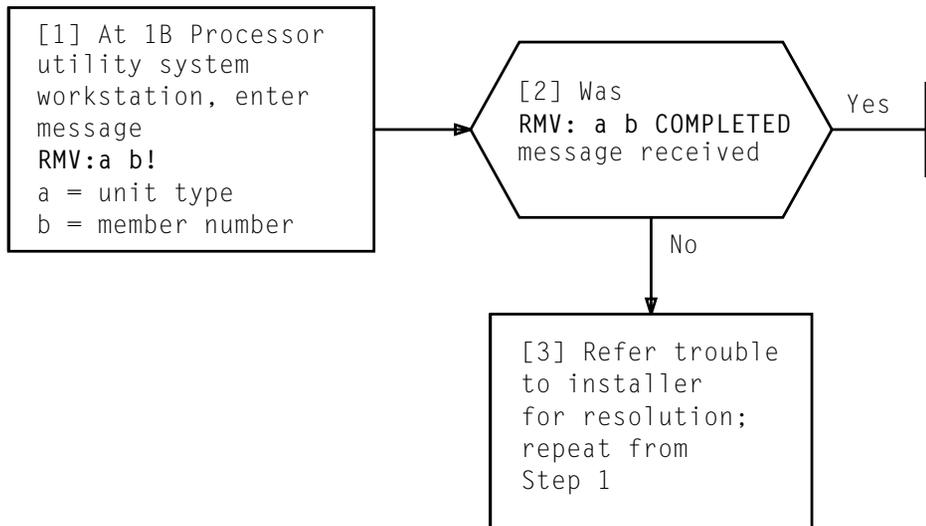
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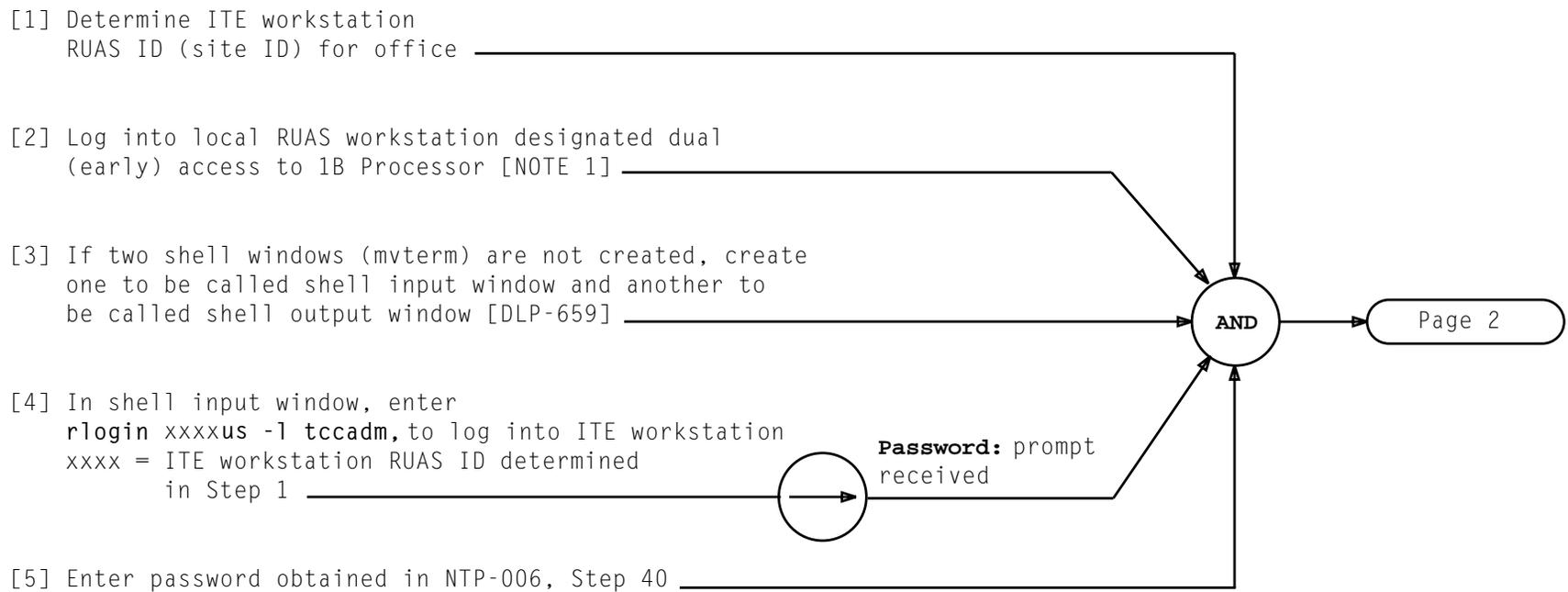


NOTE 1	
INH:FNS 0! message may need to be entered before repeating from Step 1	
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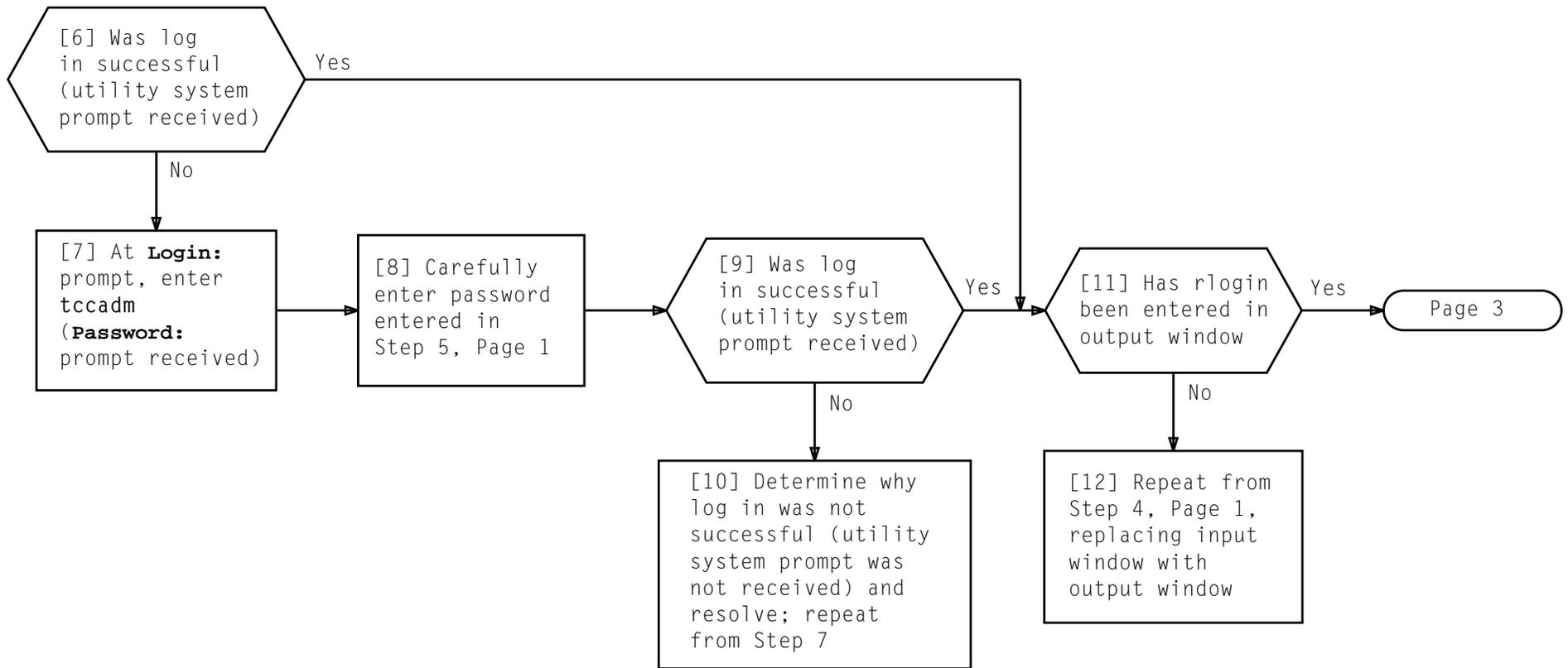
NOTE 2	
INH:FNS 1! message may need to be entered before repeating from Step 9	
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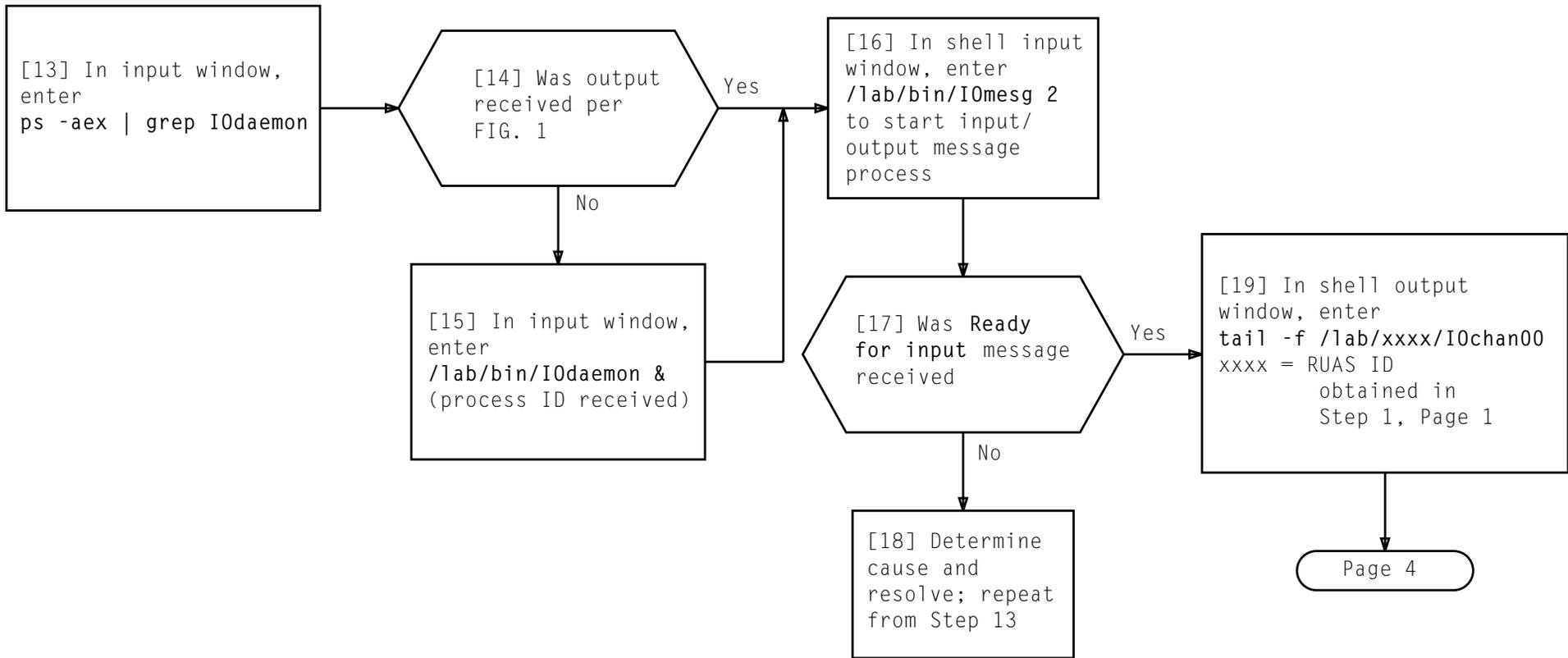




NOTE 1	
Workstation must be logged in with open windows running	
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**COMPARE MT VALUES OF 1B PROCESSOR UNITS**





```

aaa bbb . . . . grep IOdaemon
ccc ddd . . . . /lab/bin/nIOdaemon
or
ccc ddd . . . . /lab/bin/IOdaemon
  
```

**FIG. 1 - Sample ps -a printout**

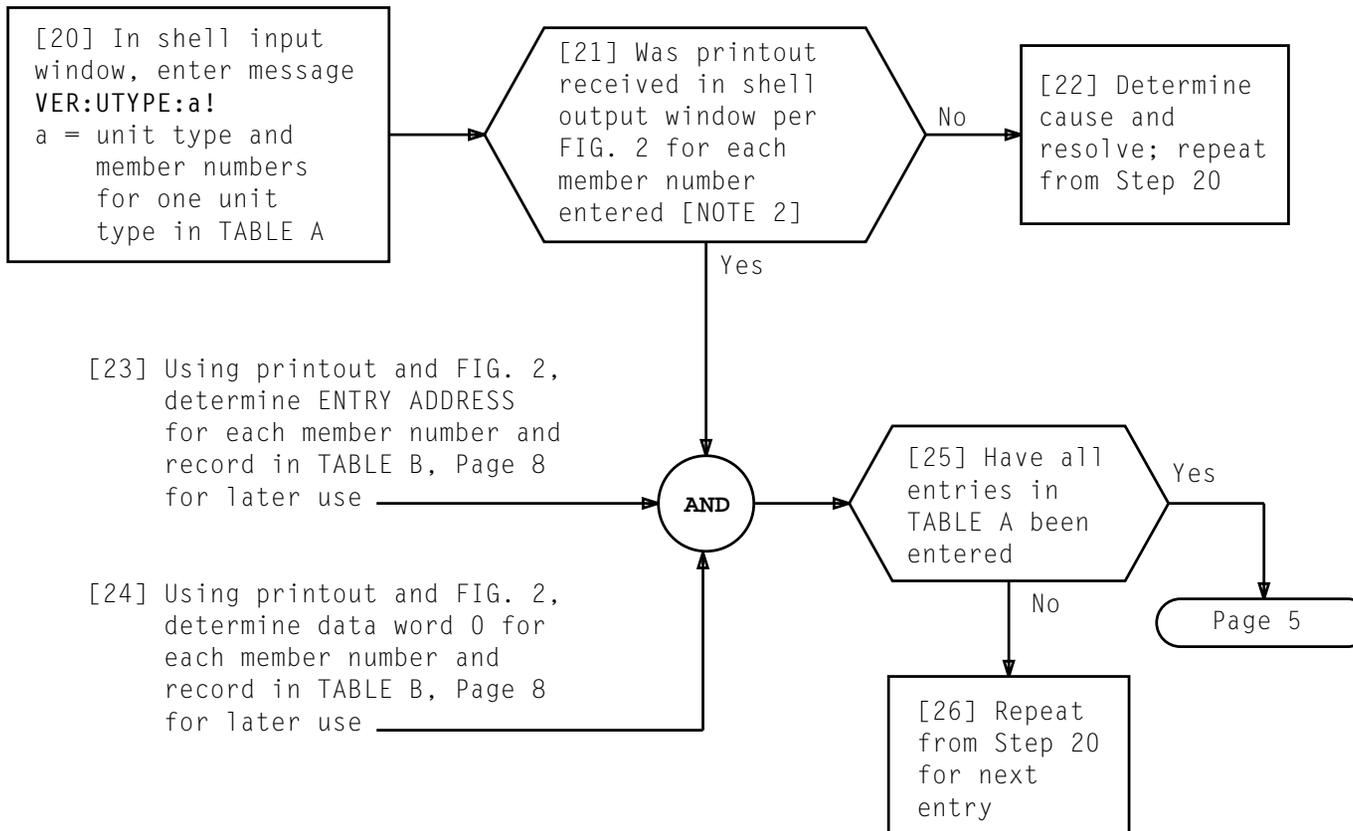


TABLE A	
ENTRY	VARIABLE a
1	CC (0,1)
2	PS (0,1,2,3)
3	CS (0,1,2,3,4,5,6,7,8,9)
4	AUI (0,1)
5	SSD (0,1)
6	IFB (0,1)
7	MUP (0,1)
8	PSB (0,1)
9	CSB (0,1)
10	FNS (0,1)
11	XPWR (0,1)

```

VER:UTMN;OPT(),CUR:  FLN _____ UTYN _____ ,
                               |
                               |----- Record This Address
ENTRY ADDRESS aaaaaaaaa, ENTRY SIZE _ ,
CUR
                               |
                               |----- Record This Word
WORD 0 bbbbbbbb cccccccc dddddddd
      •
      •
  
```

FIG. 2 - Sample of VER:UTYPE Output Message

NOTE 2

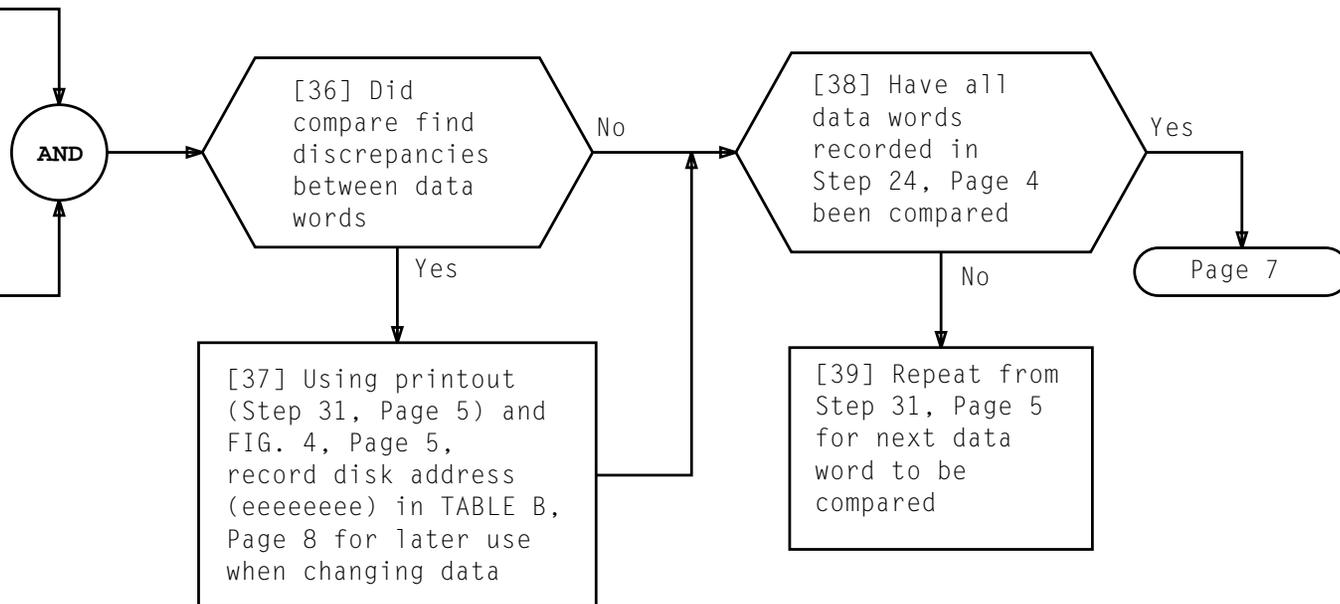
VER:UTYPE printout will be received for each member number in unit type entered; for CC: printout will be received for member numbers 0 and 1, for PS: printout will be received for member numbers 0 through 3, and so on

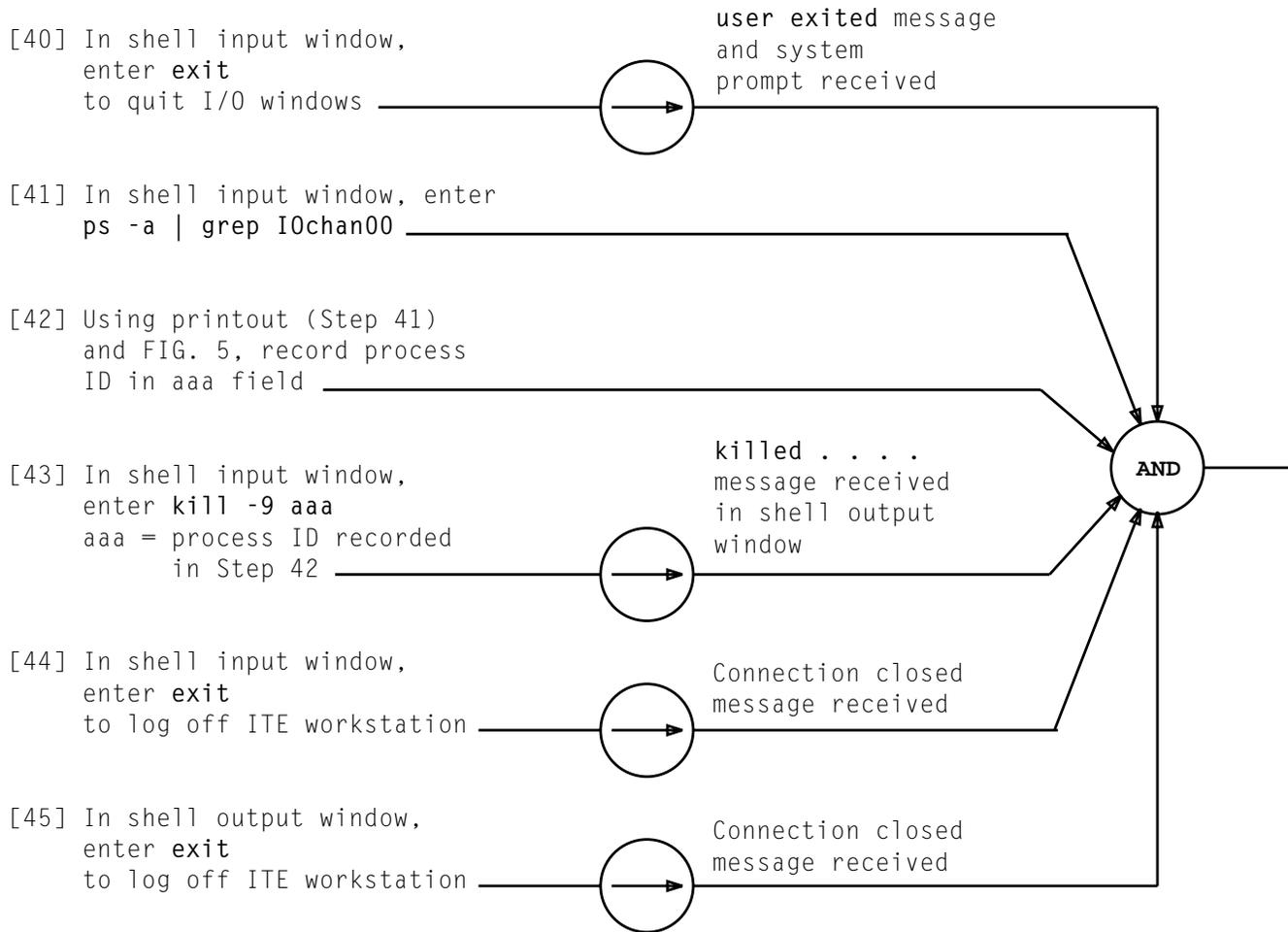
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[34] Using printout and FIG. 4, Page 5, record data word in TABLE B, Page 8 for later use

[35] Compare data word recorded in Step 34 with associated data word recorded in Step 24, Page 4





Record process ID value  
 aaa bbb . . . . tail -f /lab/xxxxx/IOchan00

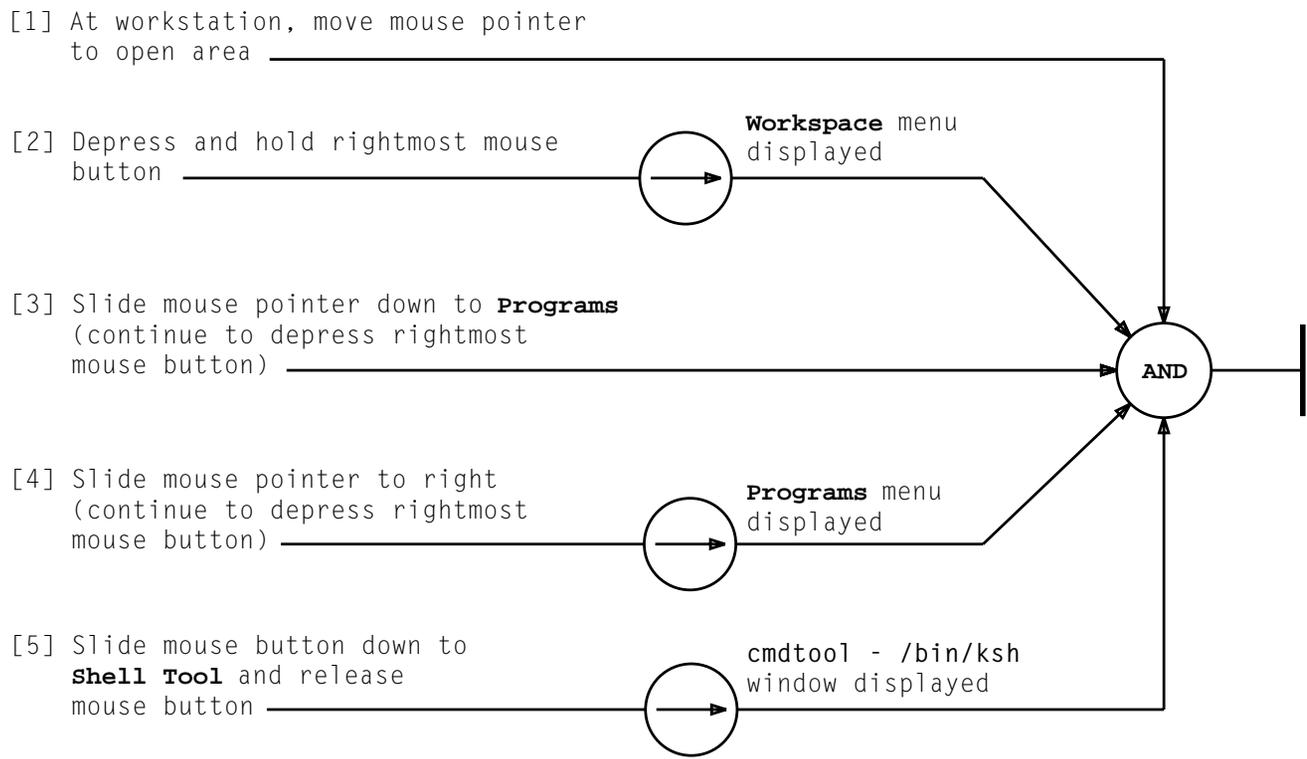
FIG. 5 - Sample ps -a printout

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TABLE B					
UNIT TYPE	MEMBER NUMBER	ENTRY ADDRESS (Step 23, Page 4)	DATA WORD 0 (Step 24, Page 4) [NOTE 1]	DATA WORD (Step 34, Page 6) [NOTE 2]	DISK ADDRESS (If Required)
CC	0				
	1				
PS	0				
	1				
	2				
	3				
CS	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
9					
AUI	0				
	1				
SSD	0				
	1				
IFB	0				
	1				
MUP	0				
	1				
PSB	0				
	1				
CSB	0				
	1				
FNS	0				
	1				
XPWR	0				
	1				
NOTES: 1. Data in this column is to be used as new data if overwrite is required 2. Data in this column is to be used as old data if overwrite is required					

**COMPARE MT VALUES OF 1B PROCESSOR UNITS**

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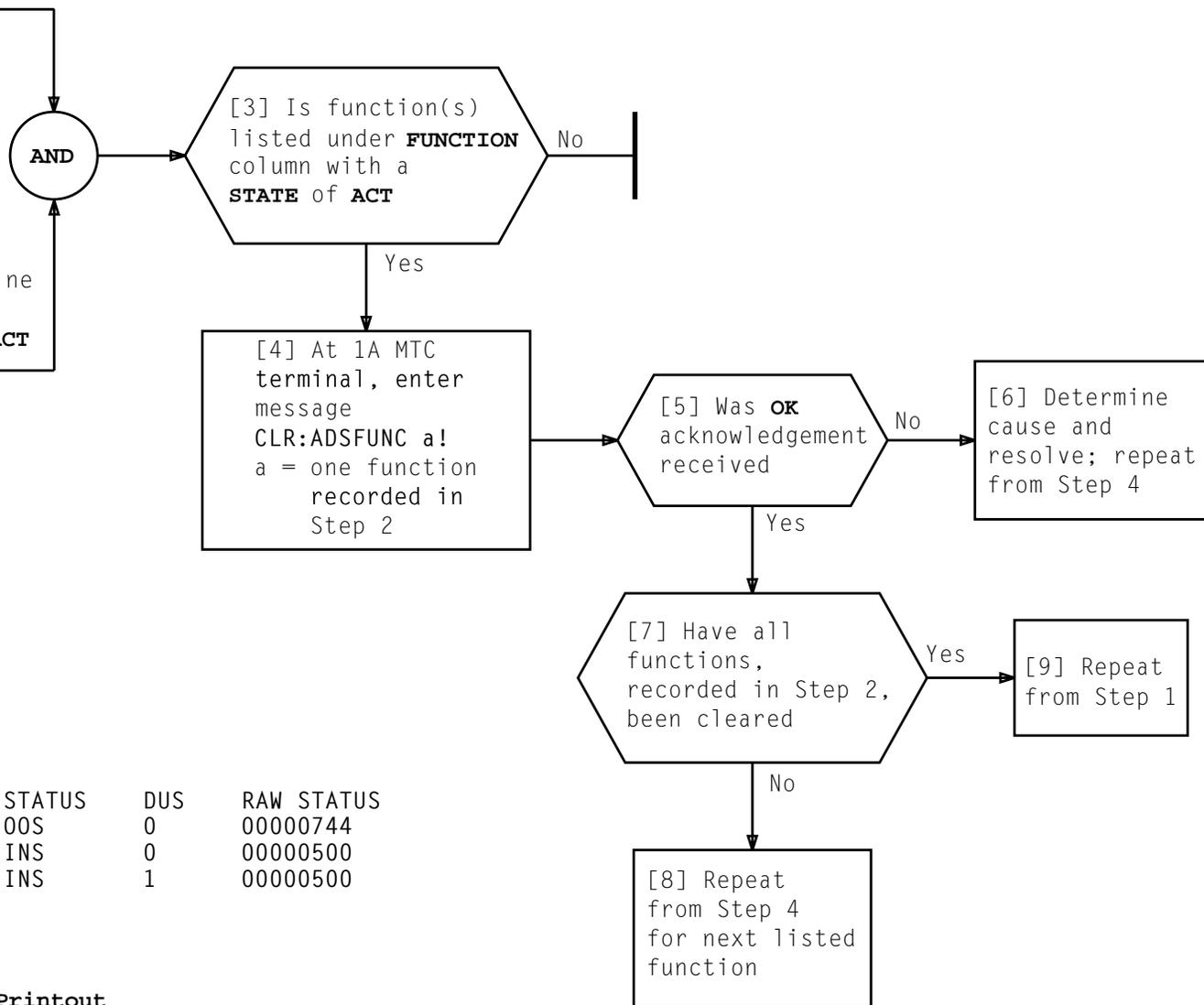


**CREATE SHELL WINDOW**

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[1] At 1A MTC terminal,  
enter message  
OP:DUSTATUS!

[2] Using printout and FIG.1, determine  
if any function is listed under  
**FUNCTION** column with a **STATE** of **ACT**  
and record for later use



```

OP:DUSTATUS: COMMUNITY: 0
TYPE  MEMN  STATUS  RAW STATUS
DUS    0    INS    00000000
DUS    1    INS    00000000
TYPE  MEMN  FUNCTION  STATE  STATUS  DUS  RAW STATUS
TUC    0    UNA    NLK    OOS    0    00000744
TUC    1    TLP    ACT    INS    0    00000500
TUC    2    CPY    ACT    INS    1    00000500
  
```

Record These Functions

FIG. 1 - Sample of OP:DUSTATUS Printout

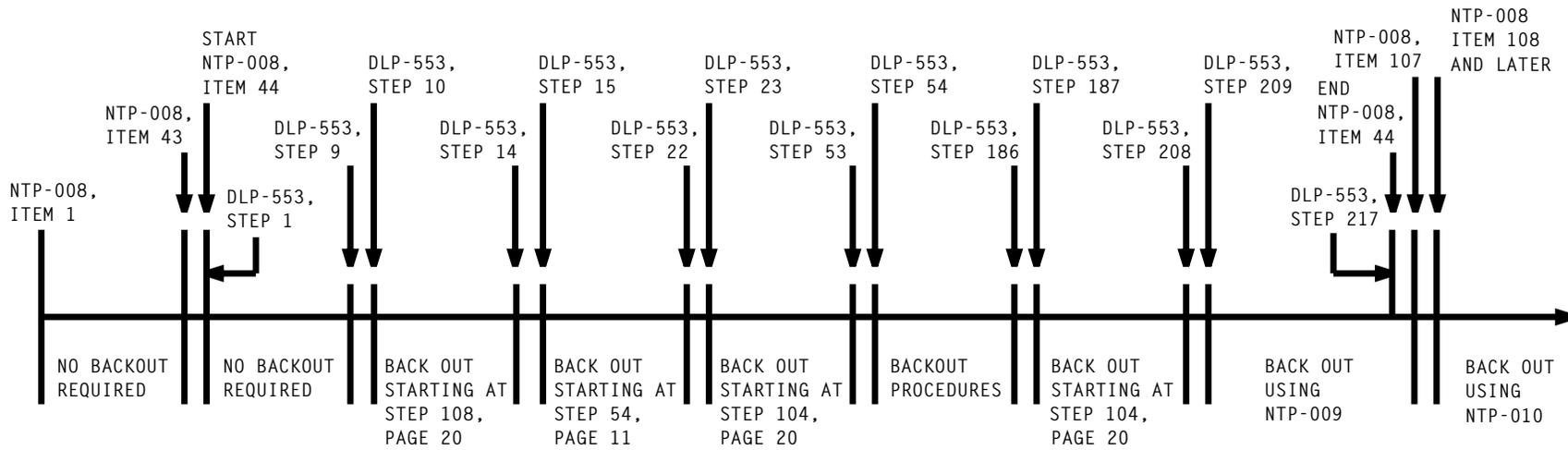
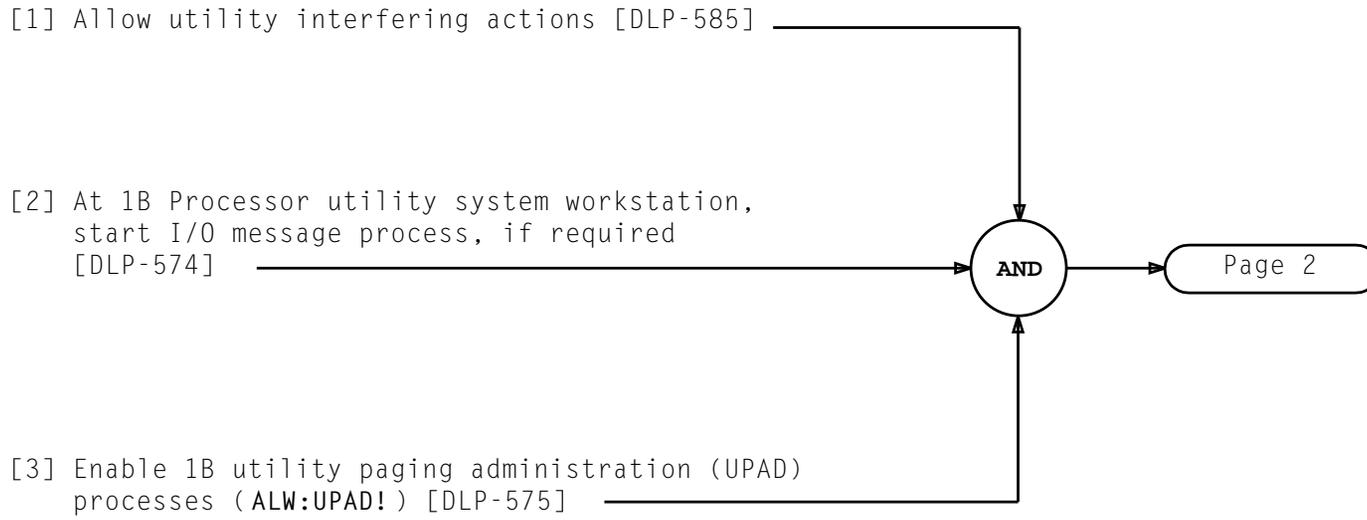


FIG. 1 - Backout Sequence



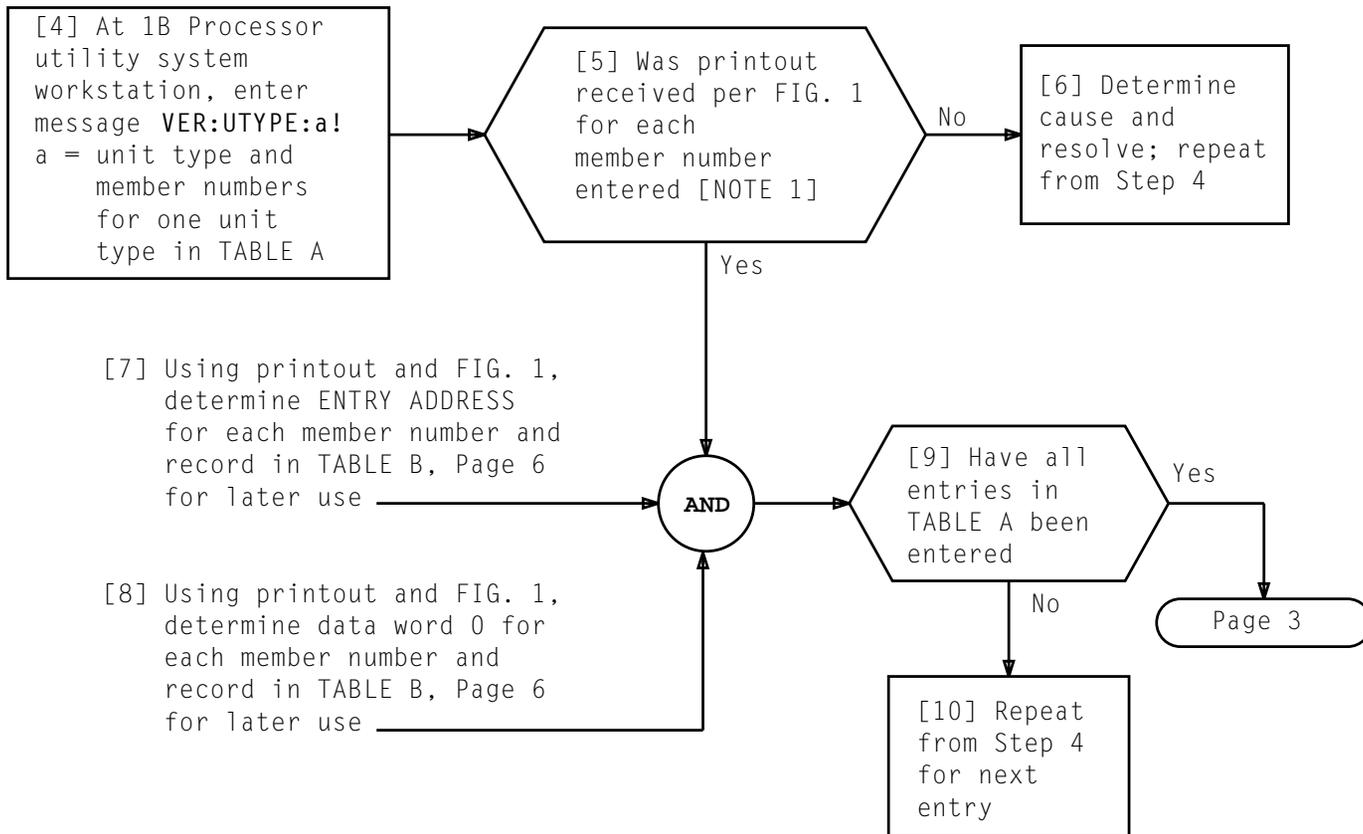


TABLE A	
ENTRY	VARIABLE a
1	CC (0,1)
2	PS (0,1,2,3)
3	CS (0,1,2,3,4,5,6,7,8,9)
4	AUI (0,1)
5	SSD (0,1)
6	IFB (0,1)
7	MUP (0,1)
8	PSB (0,1)
9	CSB (0,1)
10	FNS (0,1)
11	XPWR (0,1)

```

VER:UTMN;OPT(),CUR:  FLN _____ UTYN _____ ,
                        |-----|
                        |-----| Record This Address
ENTRY ADDRESS aaaaaaaaa, ENTRY SIZE _ ,
CUR
                        |-----| Record This Word
WORD 0 bbbbbbbb cccccccc dddddddd
      .
      .
  
```

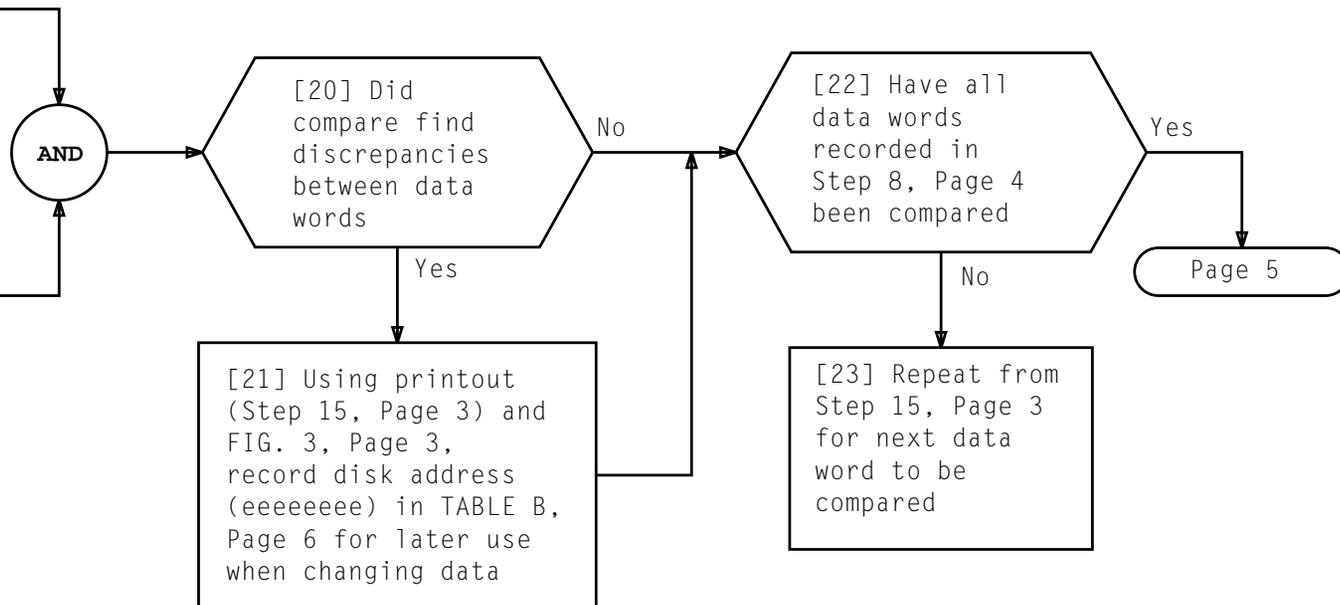
FIG. 1 - Sample of VER:UTYPE Output Message

NOTE 1 VER:UTYPE printout will be received for each member number in unit type entered. For CC, printout will be received for member numbers 0 and 1; for PS, printout will be received for member numbers 0 through 3, and so on	
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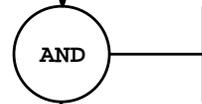


[18] Using printout and FIG. 3, Page 3, record data word in TABLE B, Page 6 for later use

[19] Compare data word recorded in Step 18 with associated data word recorded in Step 8, Page 2



[24] At 1B Processor utility system workstation  
exit I/O message windows [DLP-582]

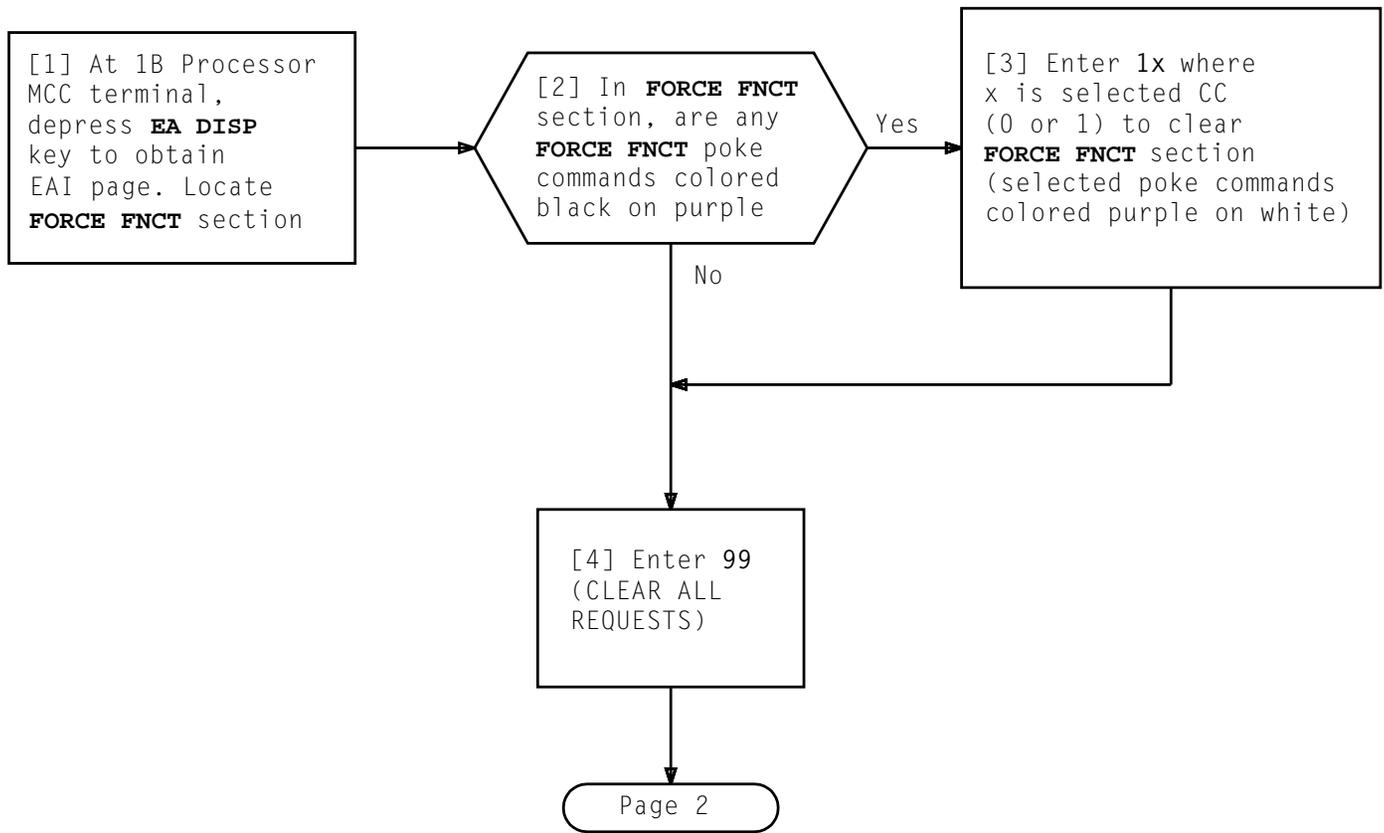


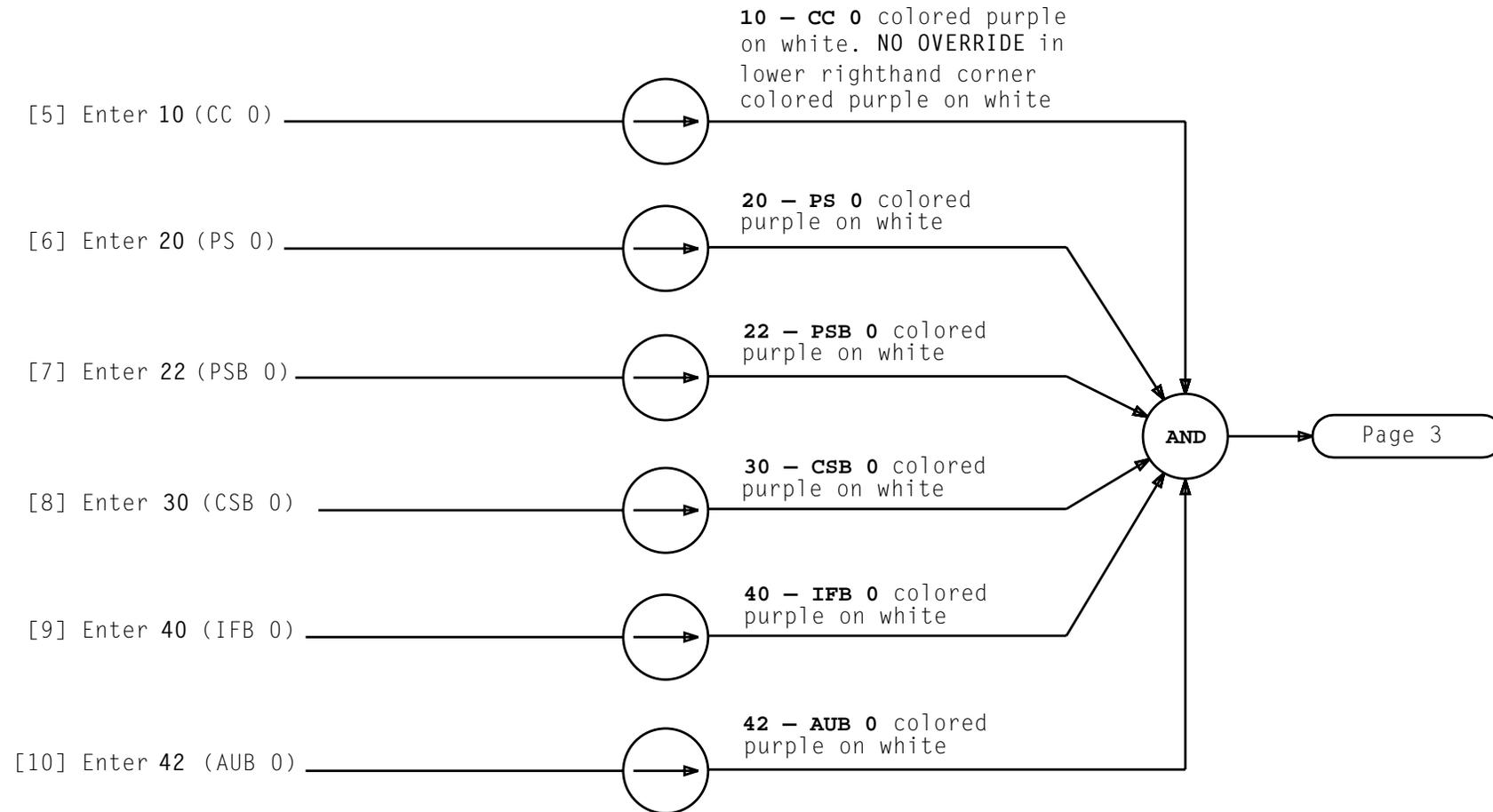
[25] Set MUP Back to Non-Interference [DLP-594]

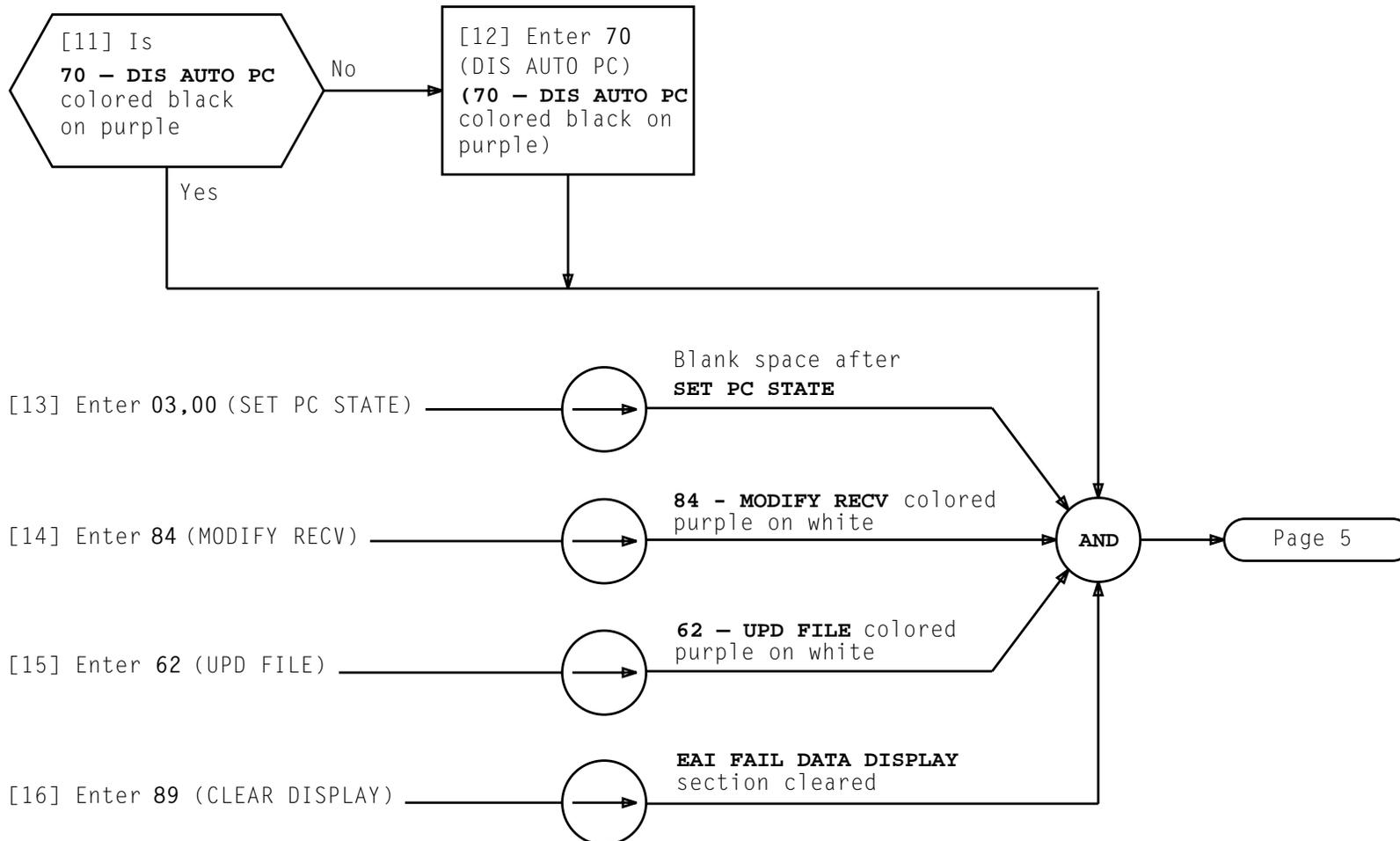
TABLE B					
UNIT TYPE	MEMBER NUMBER	ENTRY ADDRESS (Step 7, Page 2)	DATA WORD 0 (Step 8, Page 2) [NOTE 1]	DATA WORD (Step 18, Page 4) [NOTE 2]	DISK ADDRESS (If Required)
CC	0				
	1				
PS	0				
	1				
	2				
	3				
CS	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
9					
AUI	0				
	1				
SSD	0				
	1				
IFB	0				
	1				
MUP	0				
	1				
PSB	0				
	1				
CSB	0				
	1				
FNS	0				
	1				
XPWR	0				
	1				
NOTES: 1. Data in this column is to be used as new data if overwrite is required 2. Data in this column is to be used as old data if overwrite is required					

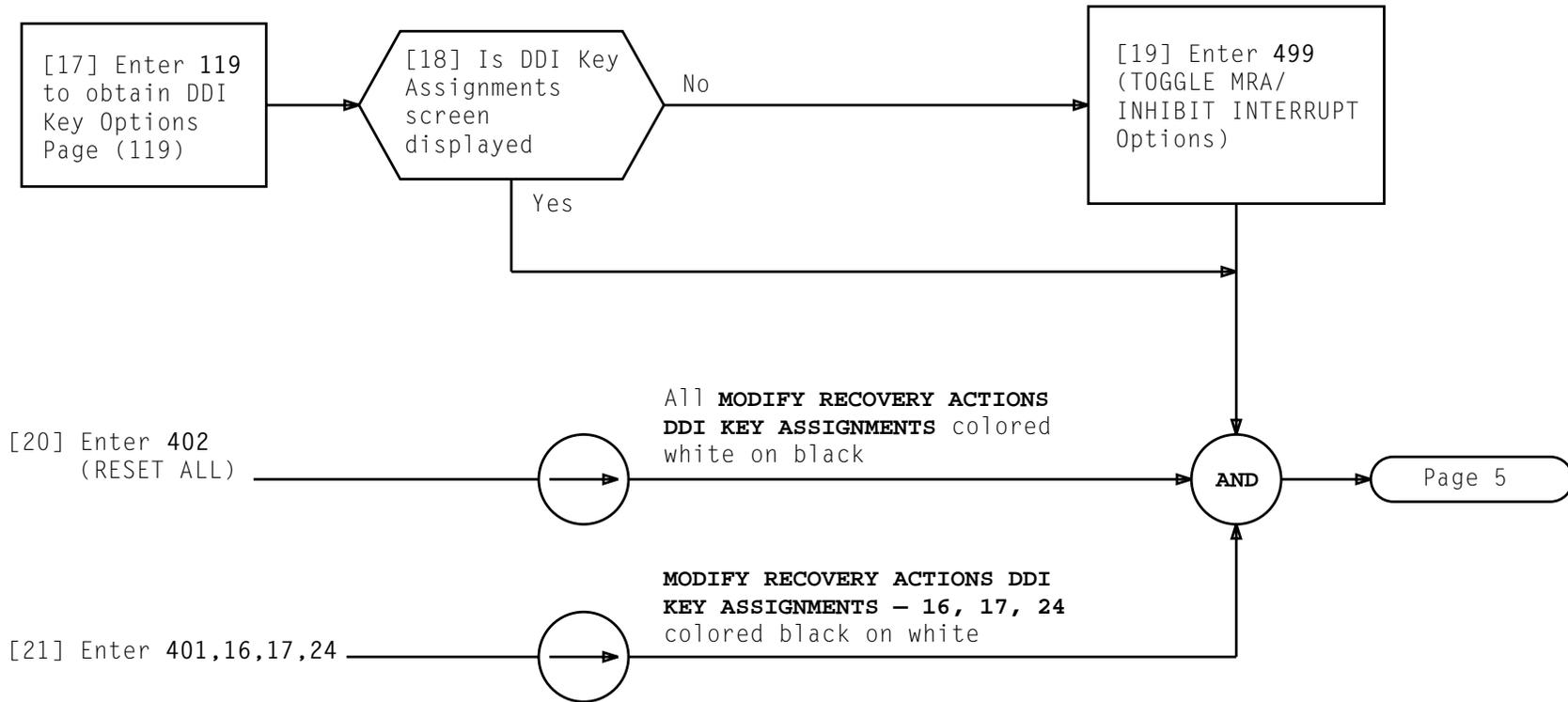
**COMPARE MT VALUES OF 1B PROCESSOR UNITS**

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[22] At 1B Processor MCC terminal,  
enter 1990 to obtain Dead Start  
page (1990)

[23] Enter 613 → **UAS:INTERFERING** colored  
white on red

[24] Enter 701 (SUSPEND) → **701 - SUSPEND** colored  
white on red

[25] Depress **EA DISP** key to  
obtain EAI page

[26] Enter 01 (HARD A) → All **FORCE FNCT** selections  
colored black on purple.  
All PC PROGRESSION states  
colored white on red

[27] In UCD window, using  
**SELECT** key on mouse,  
click on **UPDATE ALL**  
icon [FIG. 1]

**PCRVBOOT.AA+2**  
displayed in  
CAR field

[28] At 1A MTC terminal, form enter each input message  
per TABLE A. **DO NOT ENTER AT THIS TIME.**  
These messages may be used if backout is required

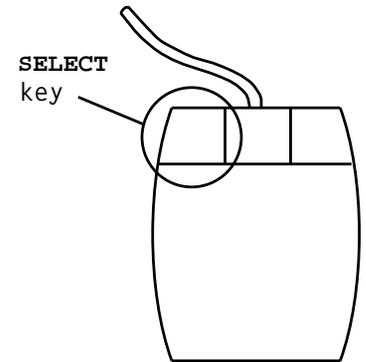
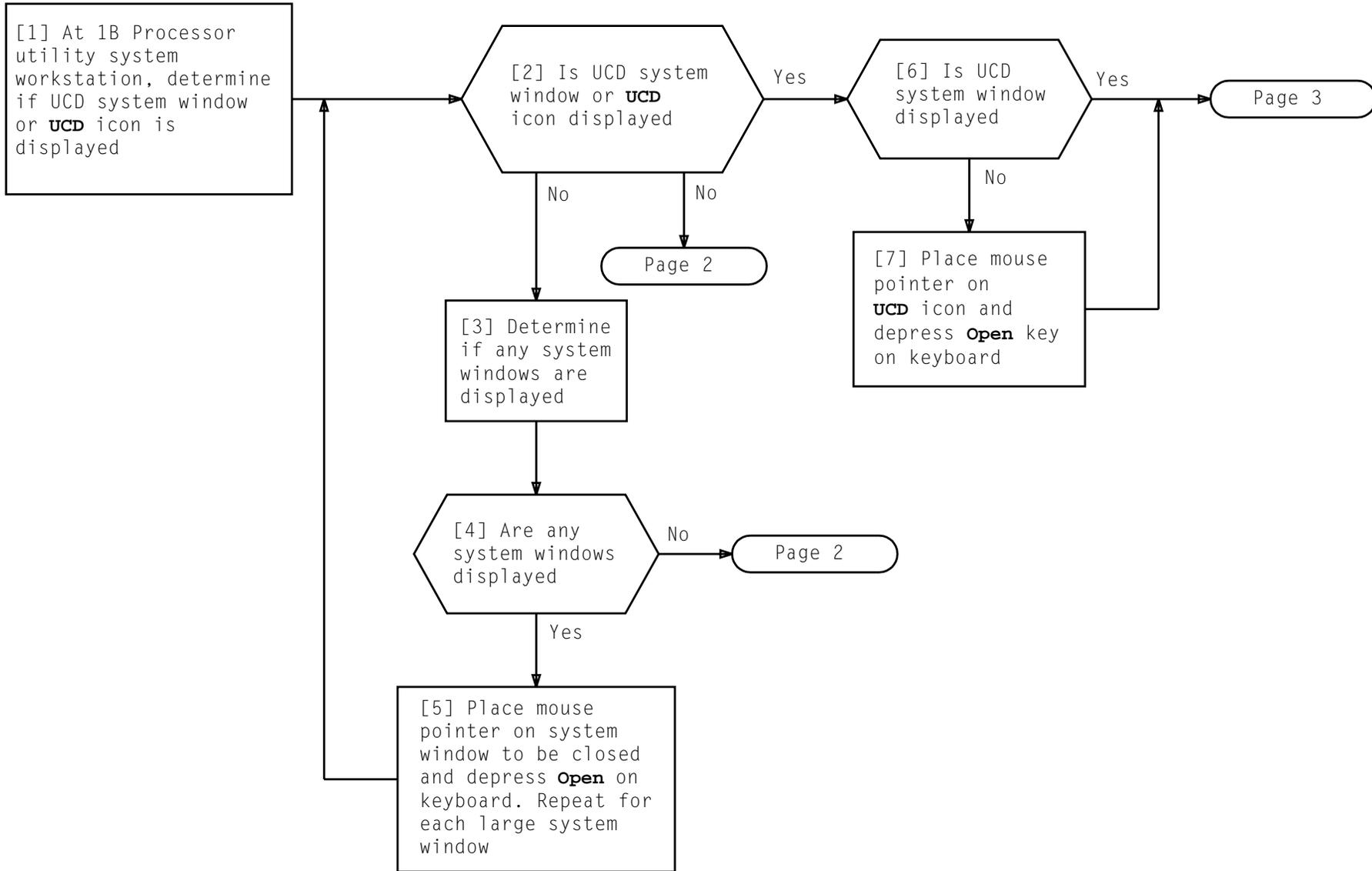


FIG. 1 - Mouse Layout

TABLE A	
MESSAGE NUMBER	INPUT MESSAGES
1	RST:AUB 0;UCL!
2	RST:API 0;UCL!
3	RST:AUB 1;UCL!
4	RST:API 1;UCL!
5	CLR:APS 0;DPLXFAIL!
6	OP:APSTATUS!

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SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP

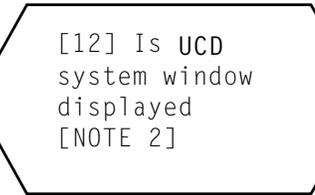
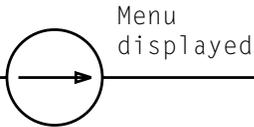
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[8] Using mouse for 1B Processor utility system workstation, move pointer to blank area

[9] See NOTE 1. Depress and hold **MENU** key on mouse [FIG. 1]

[10] Slide mouse down until pointer is on **US Tools**

[11] Slide mouse to right until **US Tools** menu is displayed; then slide mouse to **UCD Display** and release key



Yes



No

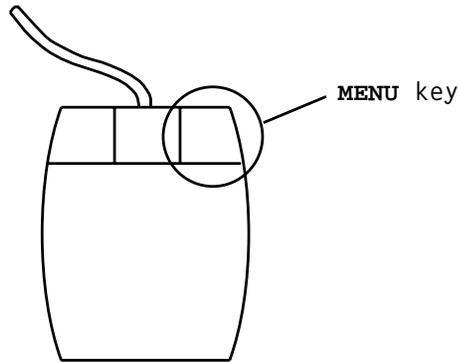
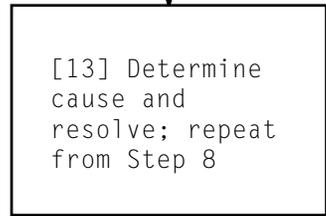


FIG. 1 - Mouse Layout

NOTES

1. **MENU** key on mouse must be depressed and held for Steps 10 and 11
2. It will take a short time before UCD window is received

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SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP

[14] See NOTE 3. In UCD window, click on **INIT US** icon [FIG. 3, Page 4]

[15] Click on **INIT ALL** icon

[16] Click on **YES** icon

[17] Click on **QUIT** icon

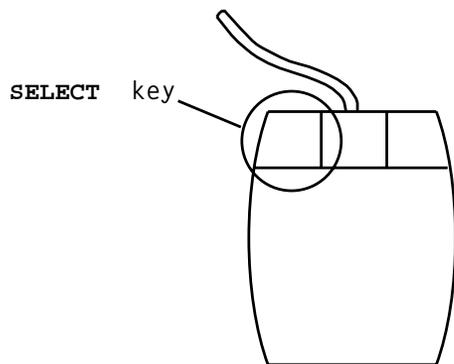
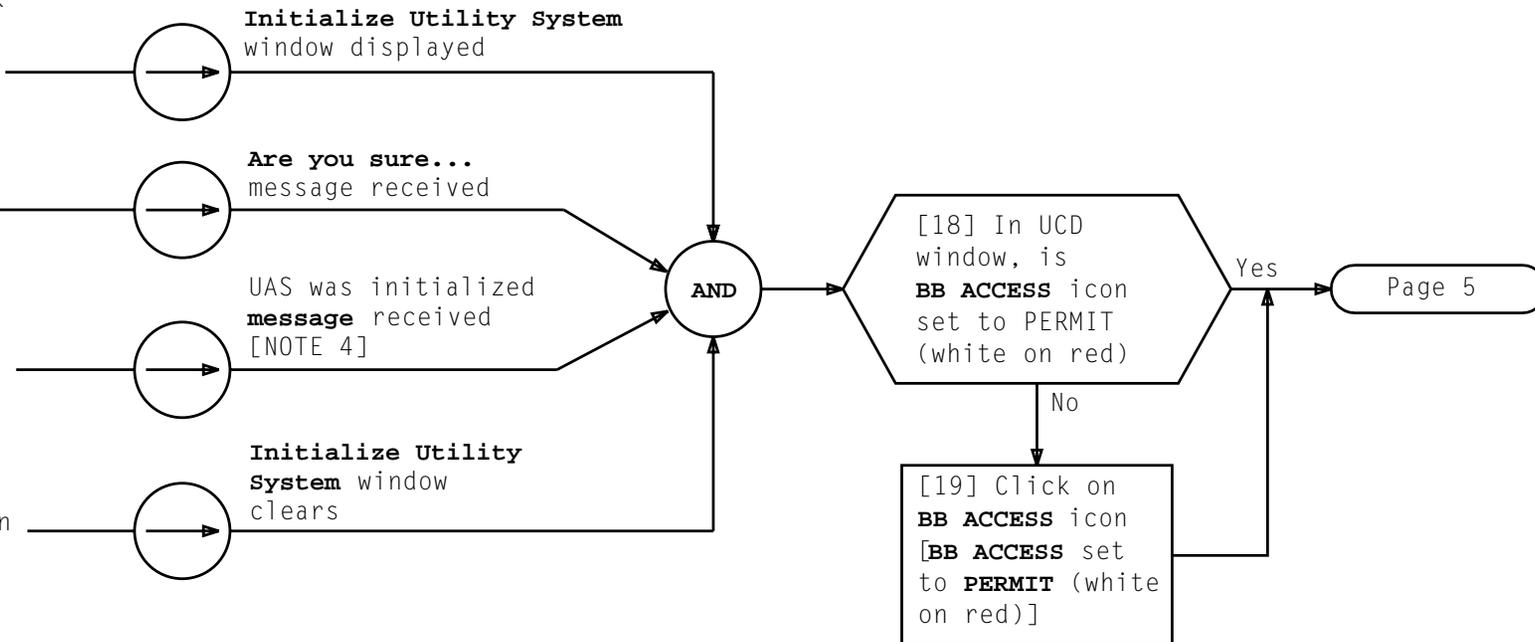


FIG. 2 - Mouse Layout

NOTES	
3. Use <b>SELECT</b> key on mouse to click for Steps 14 through 17 and 19 [FIG. 2]	
4. It will take short time before response is received	
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SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP

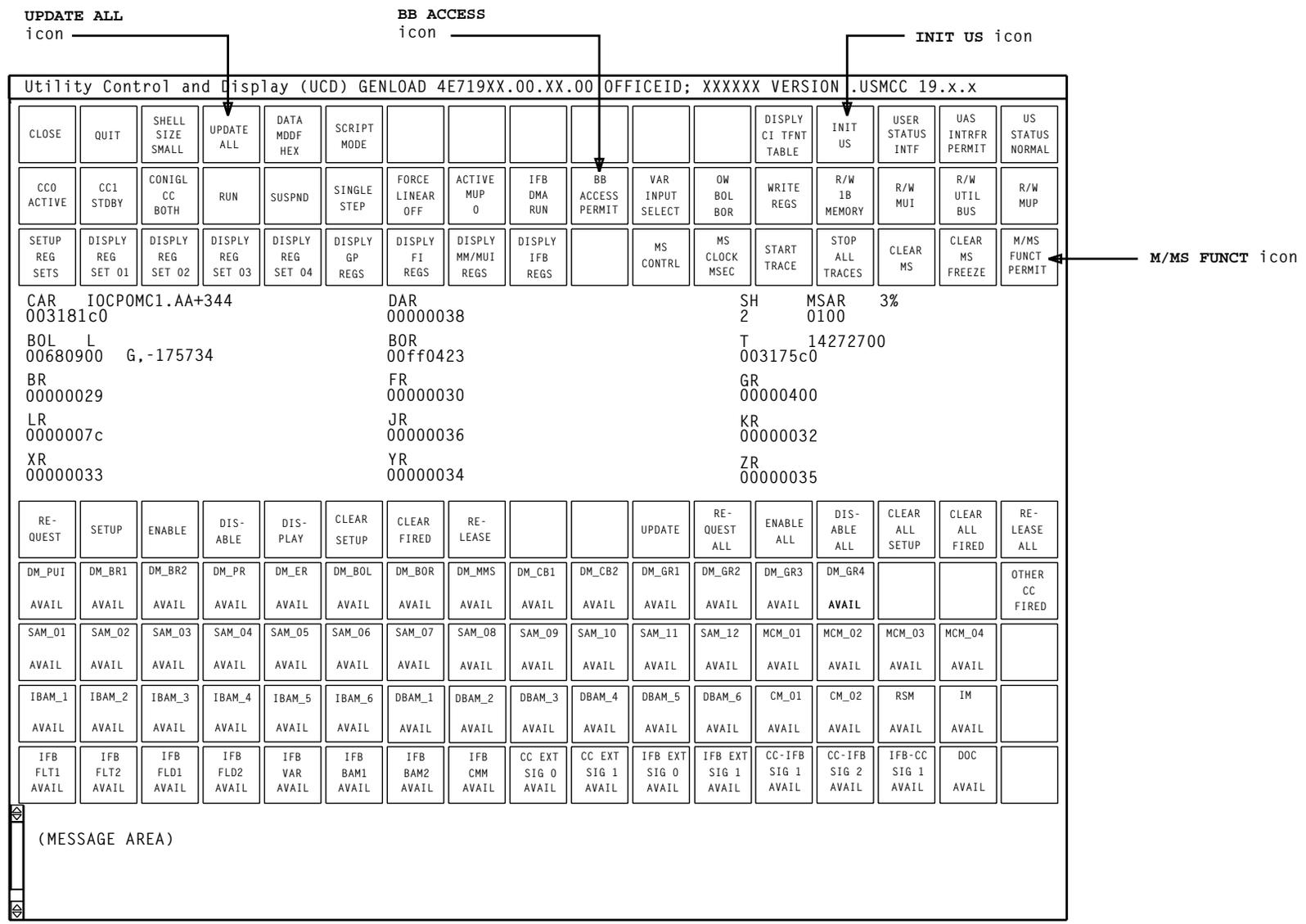
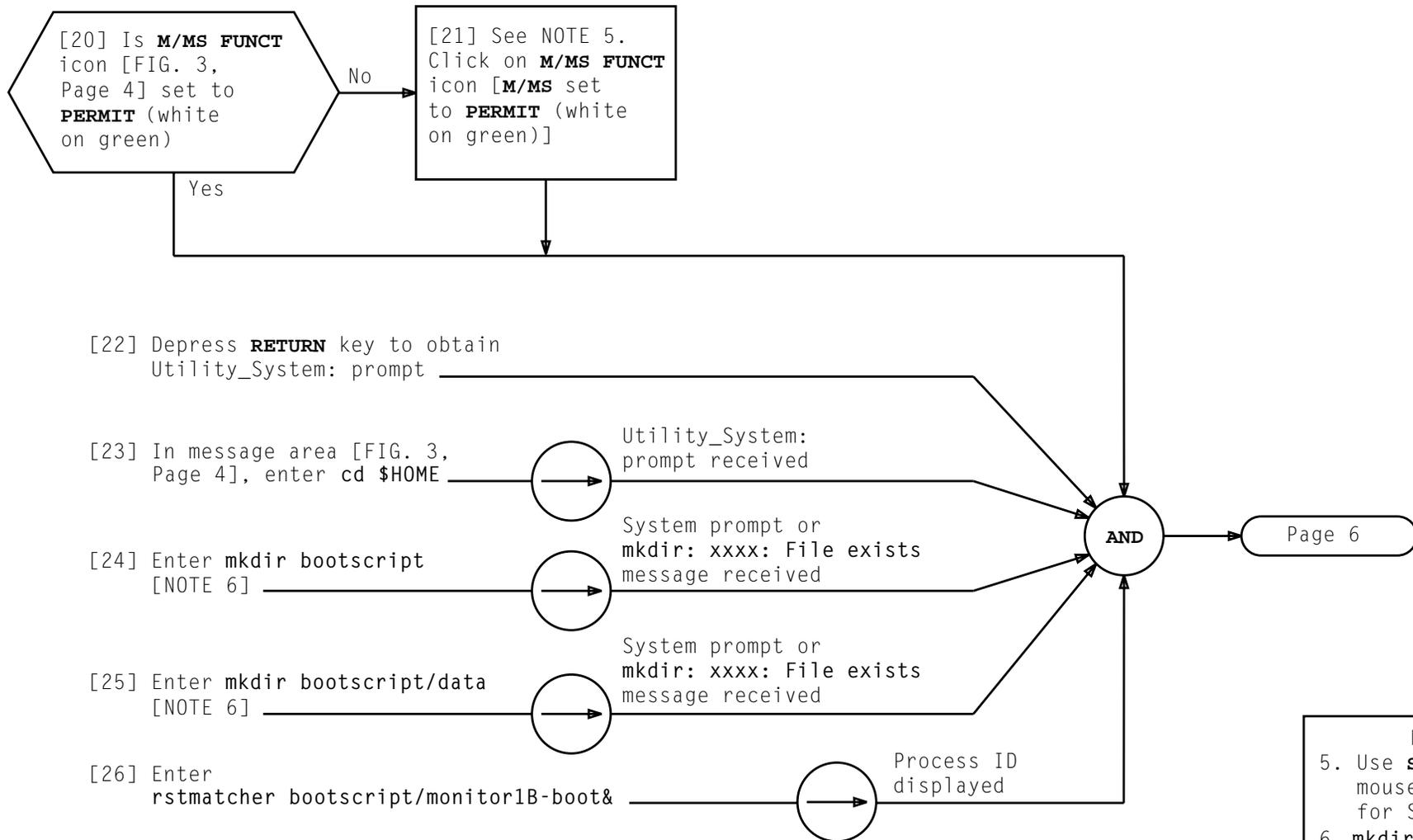


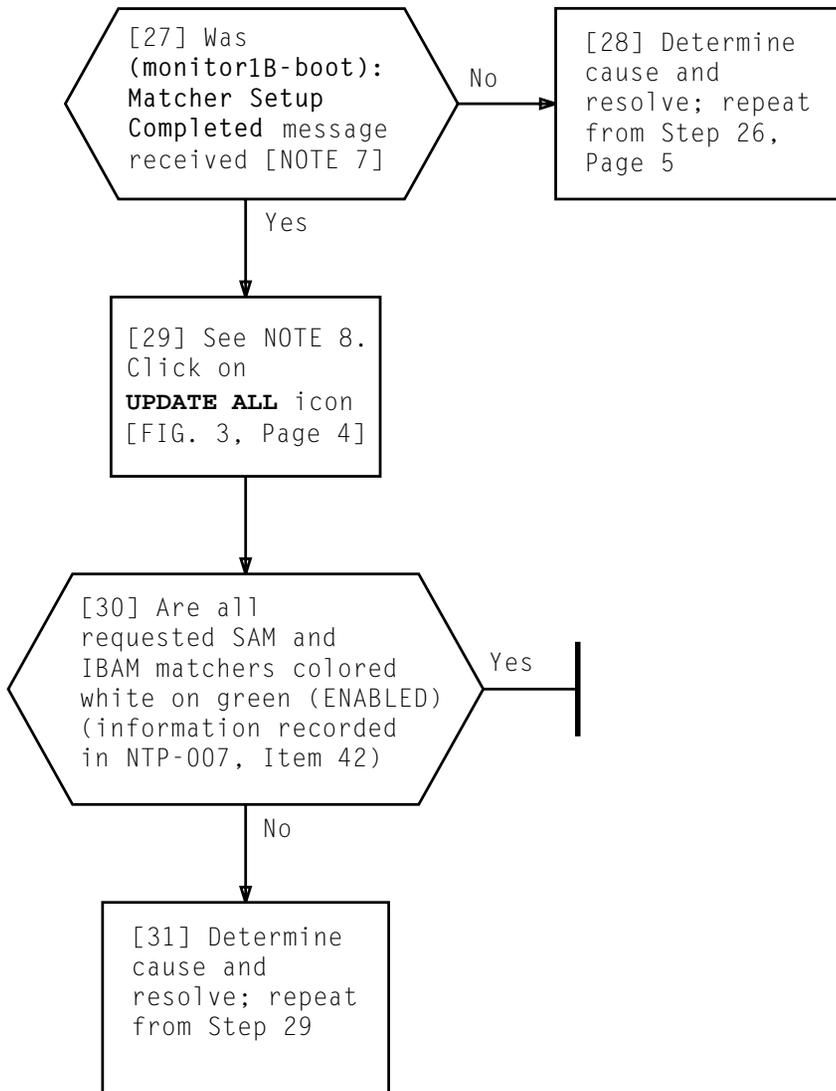
FIG. 3 - Unit and Control Display Window

SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP



NOTES	
5. Use <b>SELECT</b> key on mouse to click for Step 21	
6. <b>mkdir: xxxx: File exists</b> message may be received. This is a valid response since directory is already created	
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**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**



**SET UP 1B PROCESSOR UTILITY SYSTEM WORKSTATION TO MATCH AND STOP AT END OF 1B PROCESSOR PUMP**

NOTES	
7. It will take a short time for response to be received	
8. Use <b>SELECT</b> key on mouse to click for Step 29	
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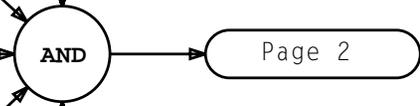
[1] This procedure is to be performed by LEC offices only. Review and become familiar with this procedure. If something is NOT understood, contact next higher technical support group for assistance. Read NOTE 2, Page 5 to become familiar with what is happening on EAI Page during pump and what to look for.  
*Put some type of book marker at Pages 23, 24, and 32 in case backout is required.*

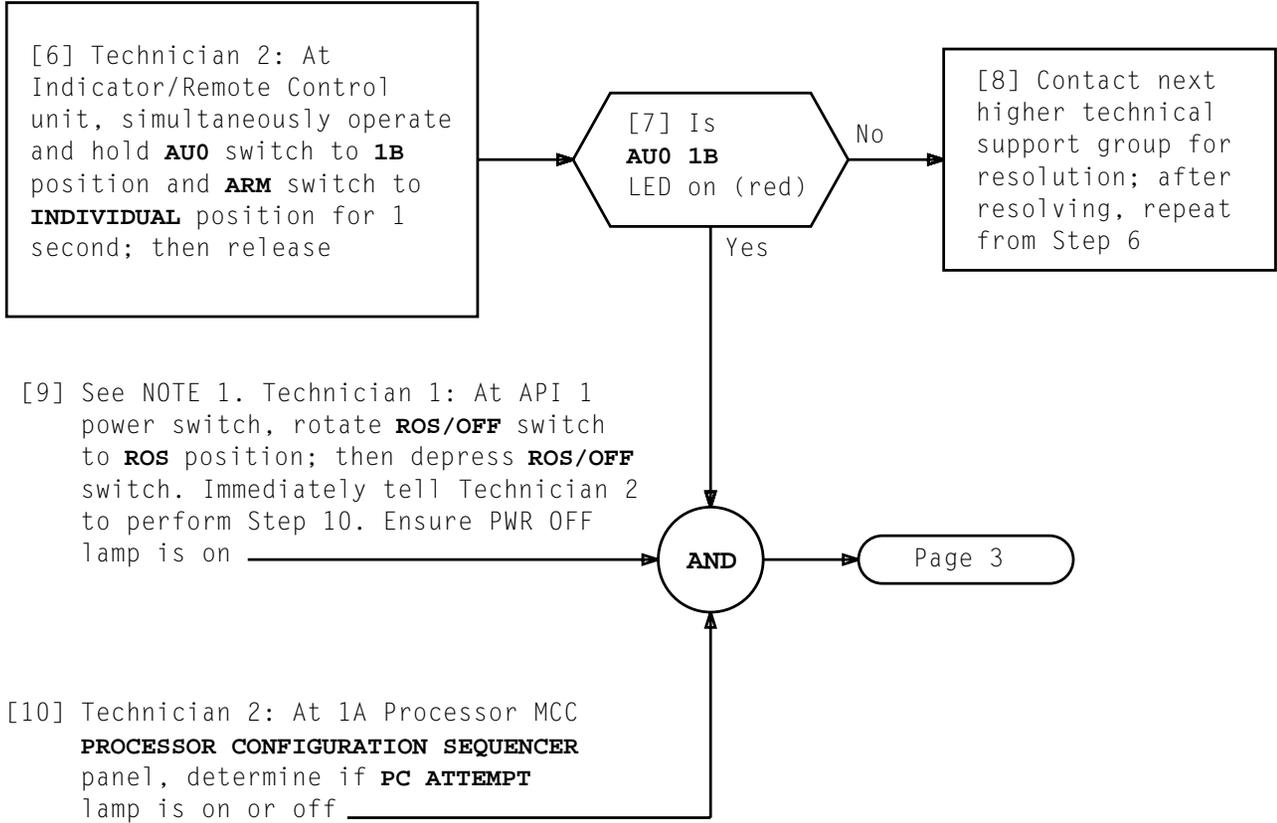
[2] Ensure CAR field on UCD displays **PCRVB00T.AA+2**. If CAR field does not display **PCRVB00T.AA+2**, 1B Processor will need to be suspended (701), **FORCE FNCT** selections reset and Hard A (01) entered

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

[4] Technician 2: At Indicator/Remote Control unit, set rotary bus selector to **AU0**

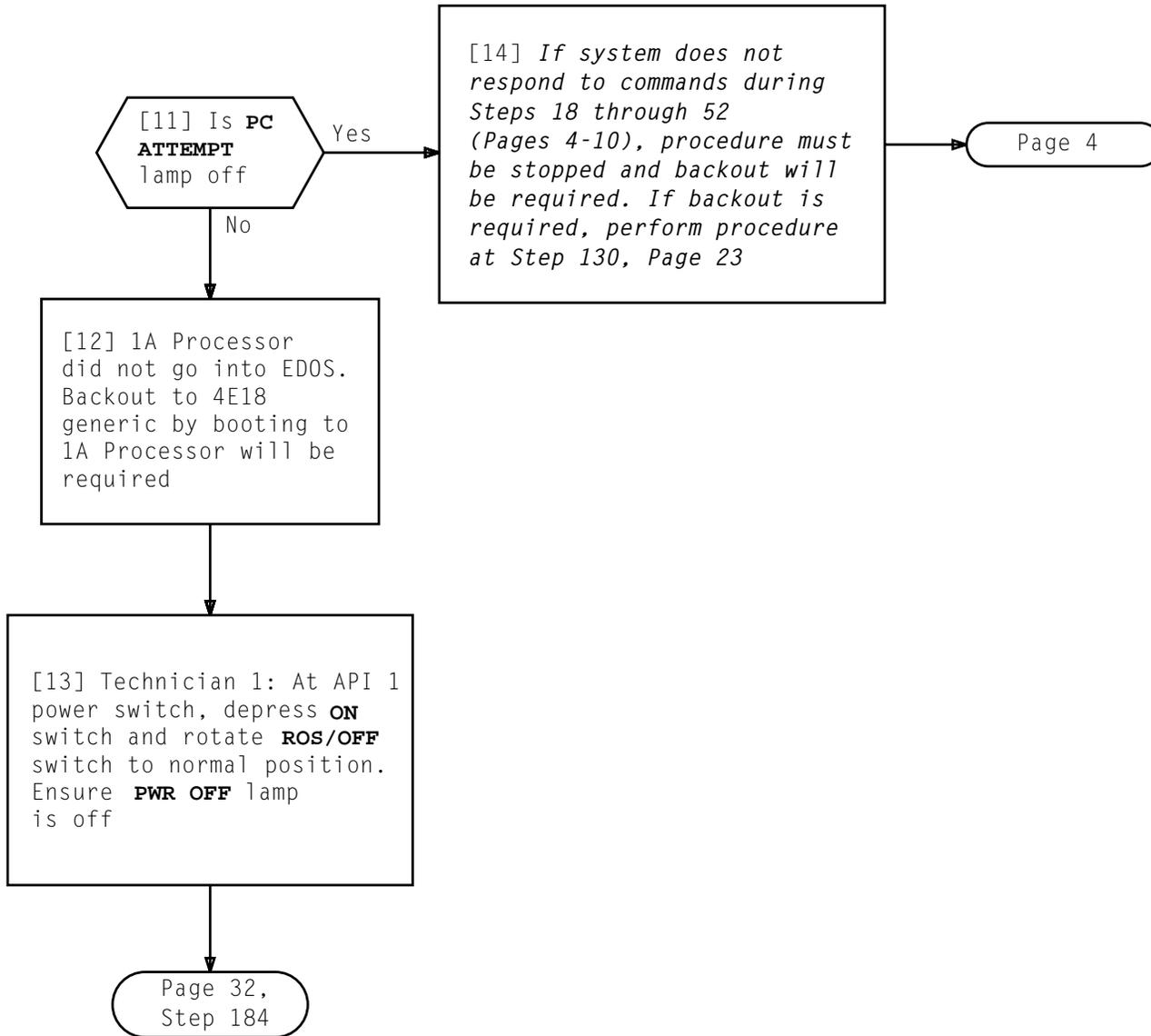
[5] Two technicians will be required to assist when performing Steps 6 through 15 (Pages 2 through 4). Become familiar with this Step sequence before performing. Steps 6, 7, and 9 (Page 2) must be performed without interruption





NOTE 1  
 Step 9 is being performed to duplex fail the APIs. Duplex failed APIs will cause 1A Processor to go into EDOS. AMA billing stops when 1A Processor is in EDOS

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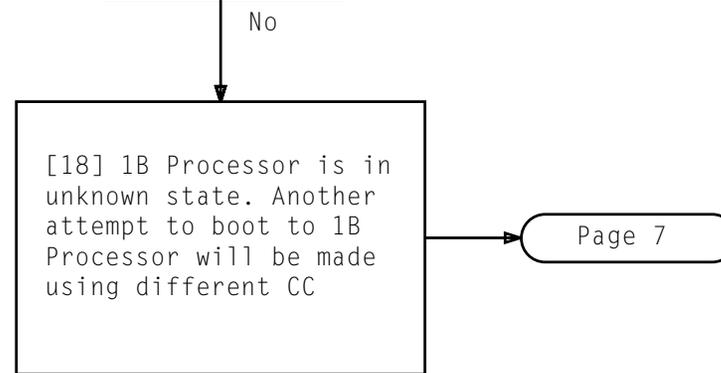
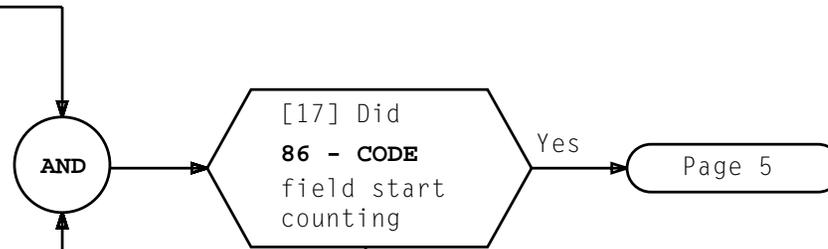


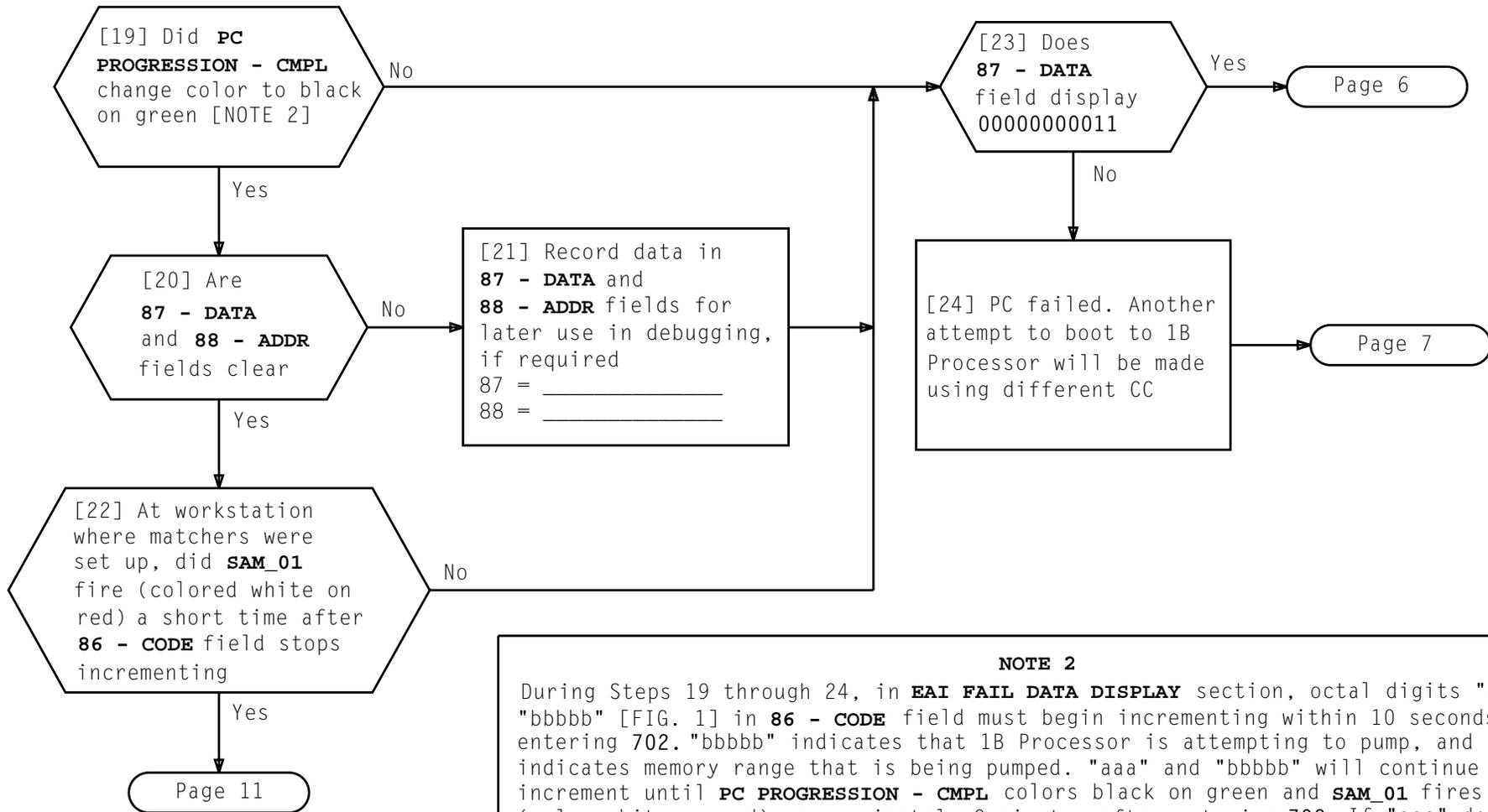
**RETROFIT TO 1B PROCESSOR**

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[15] At 1B Processor MCC terminal,  
enter 702 (RUN) to set 1B  
Processor to run

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





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

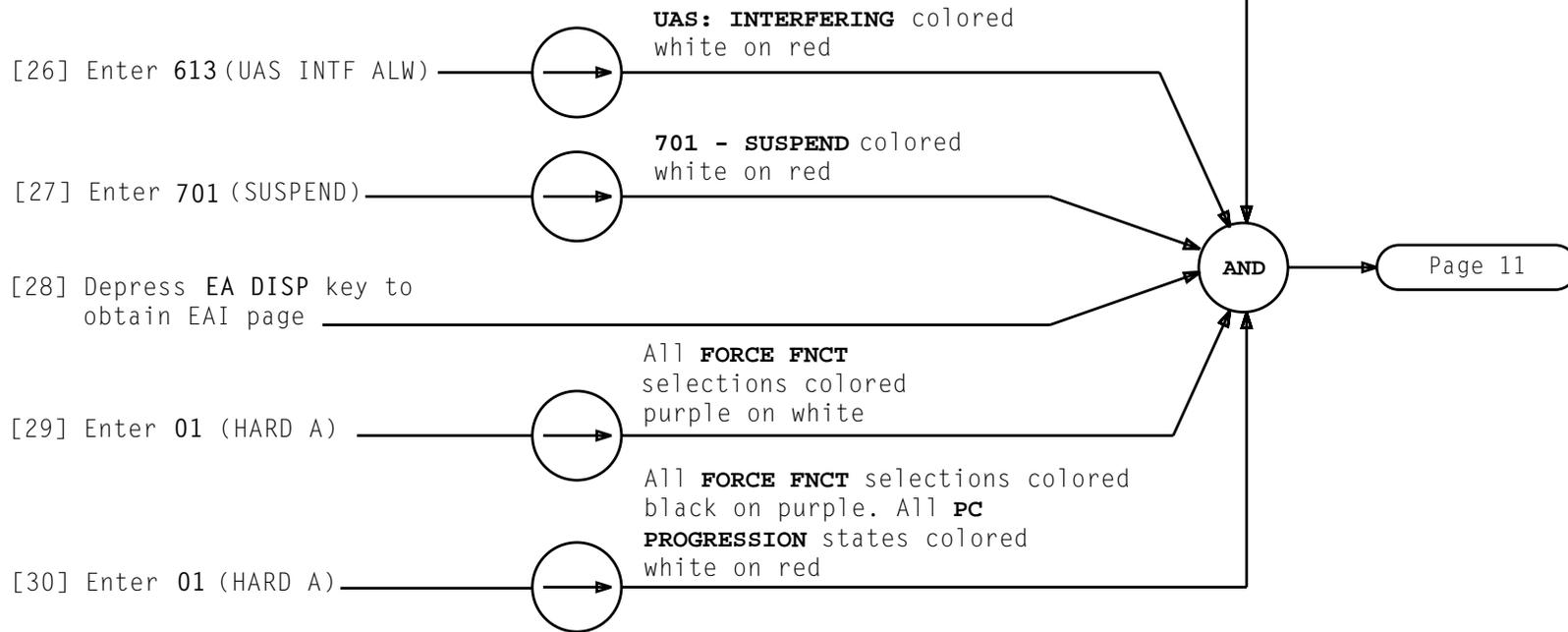
FIG. 1 - 86 - CODE Field Layout

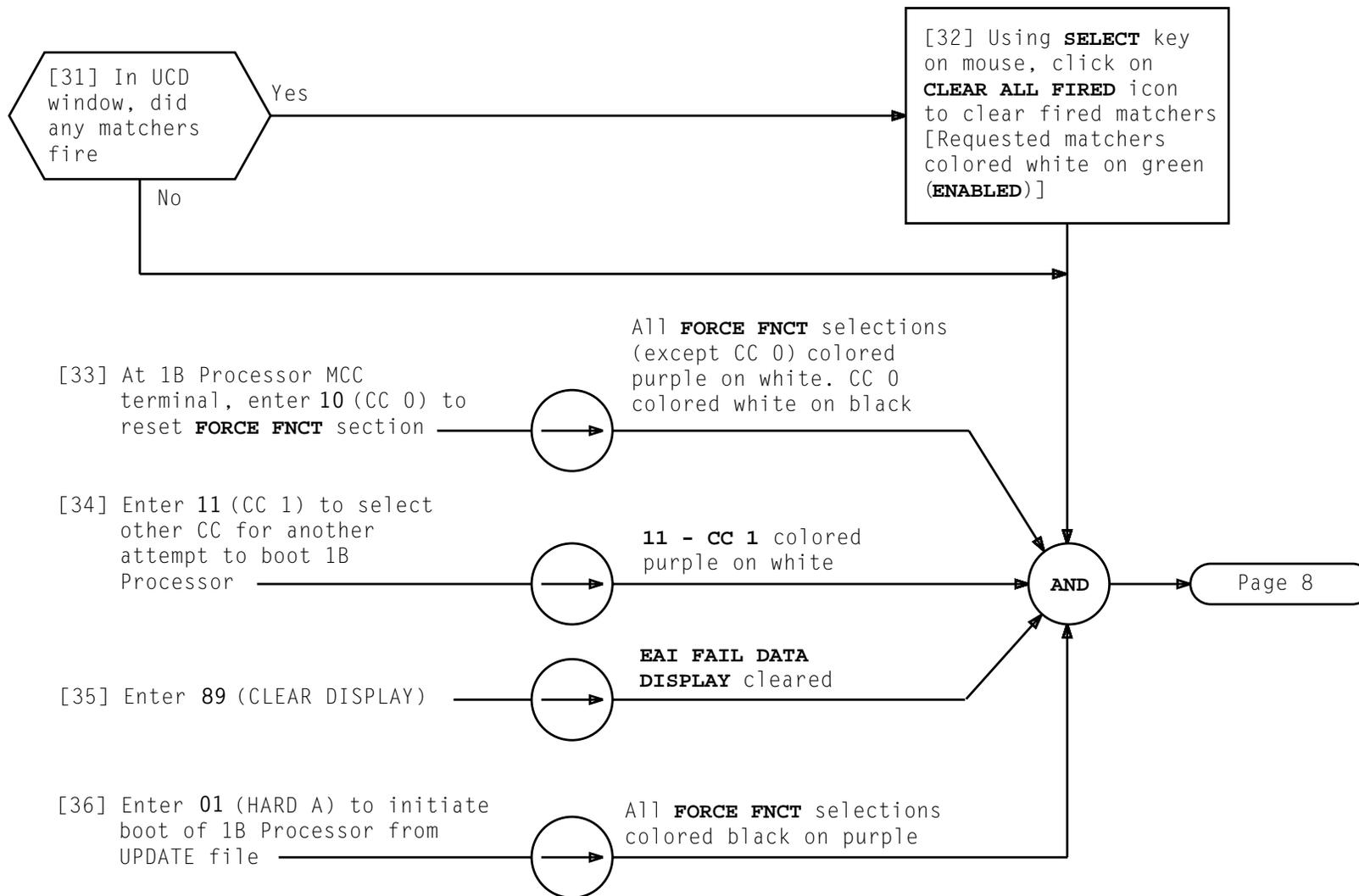
**NOTE 2**

During Steps 19 through 24, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 1] in **86 - CODE** field must begin incrementing within 10 seconds after entering 702. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green and **SAM\_01** fires (color white on red), approximately 2 minutes after entering 702. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If "aaa" and "bbbb" stop incrementing and a value other than **0000000011** is found in **87 - DATA** field, this is a failure. If at any time a value of **0000000011** is found in **87 - DATA** field, this indicates that the 1B has successfully pumped but **SAM\_01** did not fire before peripheral boot was reached. This is not considered a failure and a successful retrofit can still be achieved by rebooting with periphery

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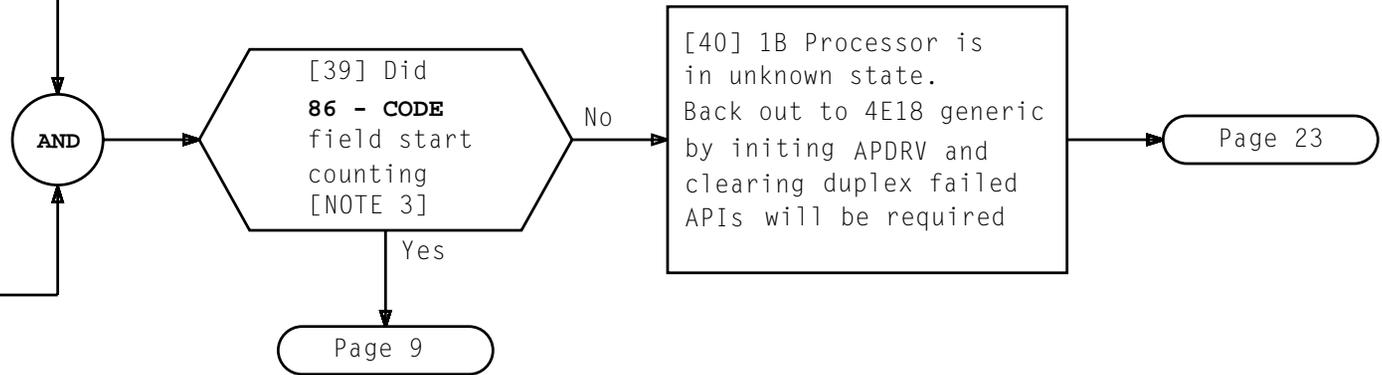
[25] At 1B Processor MCC terminal, enter 1990  
to obtain Dead Start Page (1990)





[37] At 1B Processor MCC terminal, enter 702 (RUN) (even if 1B Processor is not suspended) to set 1B Processor to run [NOTE 3]

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



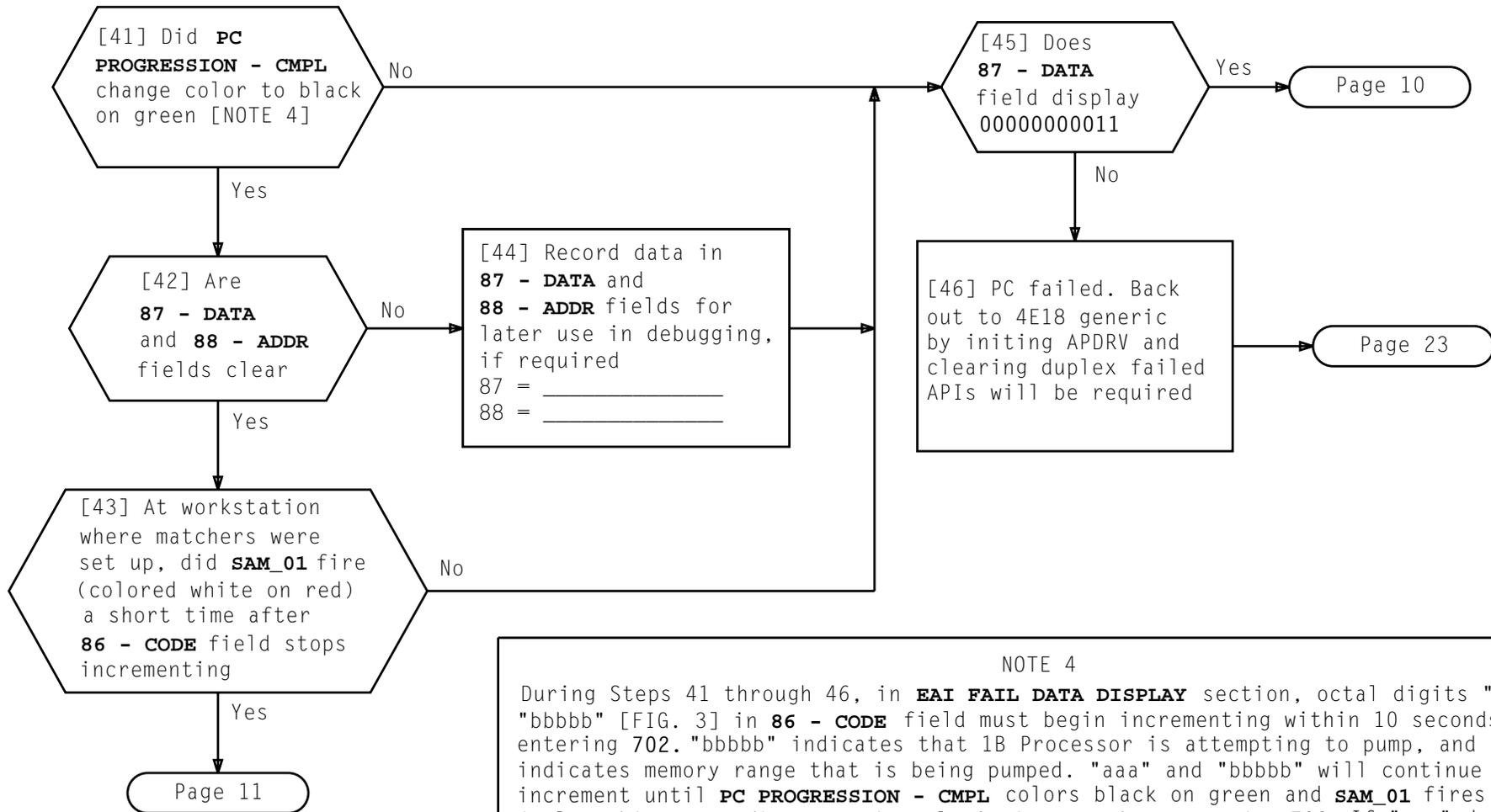
NOTE 3

During Steps 41 through 46, Page 9, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 2] in **86 - CODE** field must begin incrementing within 10 seconds after entering 702. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green and **SAM\_01** fires (color white on red), approximately 2 minutes after entering 702. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If "aaa" and "bbbb" stop incrementing and a value other than **0000000011** is found in **87 - DATA** field, this is a failure. If at any time a value of **0000000011** is found in **87 - DATA** field, this indicates that the 1B has successfully pumped but **SAM\_01** did not fire before peripheral boot was reached. This is not considered a failure and a successful retrofit can still be achieved by rebooting with periphery

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

FIG. 2 - 86 - CODE Field Layout

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

FIG. 3 - 86 - CODE Field Layout

NOTE 4

During Steps 41 through 46, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 3] in **86 - CODE** field must begin incrementing within 10 seconds after entering 702. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green and **SAM\_01** fires (color white on red), approximately 2 minutes after entering 702. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. If "aaa" and "bbbb" stop incrementing and a value other than **0000000011** is found in **87 - DATA** field, this is a failure. If at any time a value of **0000000011** is found in **87 - DATA** field, this indicates that the 1B has successfully pumped but **SAM\_01** did not fire before peripheral boot was reached. This is not considered a failure and a successful retrofit can still be achieved by rebooting with periphery

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[47] At 1B Processor MCC terminal, enter 1990  
to obtain Dead Start Page (1990)

[48] Enter 613 → **UAS: INTERFERING** colored  
white on red

[49] Enter 701 (SUSPEND) → **701 - SUSPEND** colored  
white on red

[50] Depress **EA DISP** key to  
obtain EAI page

[51] Enter 01 (HARD A) → All **FORCE FNCT**  
selections colored  
purple on white

[52] Enter 01 (HARD A) → All **FORCE FNCT** selections colored  
black on purple. All **PC**  
**PROGRESSION** states colored  
white on red

AND

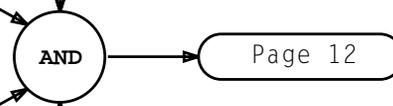
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[53] *If system does not respond to commands during Steps 54 through 126 (Page 22) procedure must be stopped and backout will be required. If backout is required, perform procedure at Step 180, Page 32*

[54] Technician 2: At Indicator/Remote Control unit, operate **ALL-1B** key counterclockwise to **ON** position; then operate **ARM** switch down to **ALL** position. Wait for **PUB0** and/or **PUB1** to go RED; then immediately perform Step 55

[55] At 1B Processor MCC terminal, enter 702 (RUN) to set 1B Processor to run. Tell Technician 1 to perform Step 56; then look for phase 3 indication and continue with Step 57 (Page 12) [NOTE 5]

[56] Technician 1: Set utility interfering switches to non-interfering [DLP-594] to eliminate the ability of 1B Processor to suspend if **SAM\_01** fires

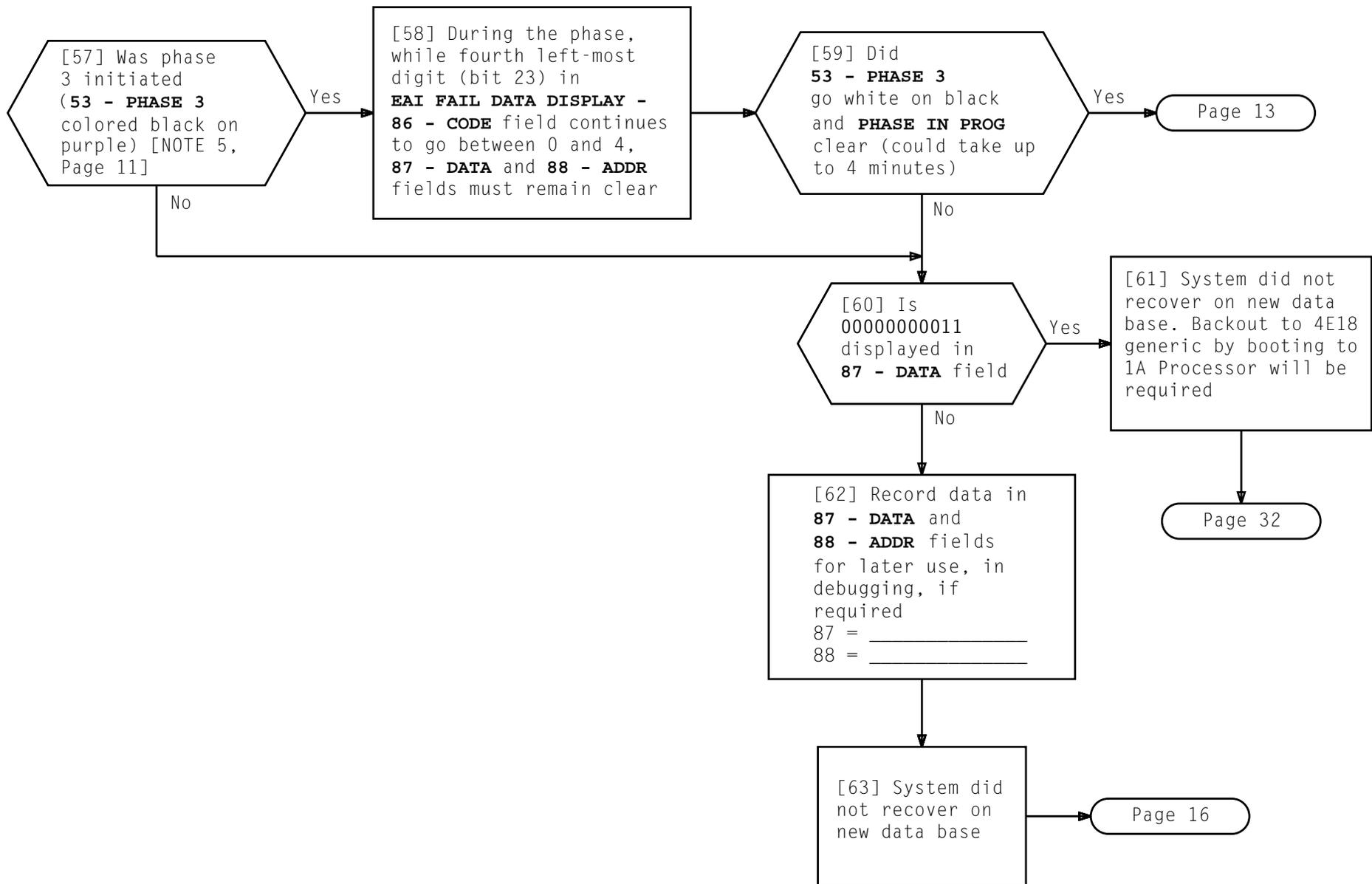


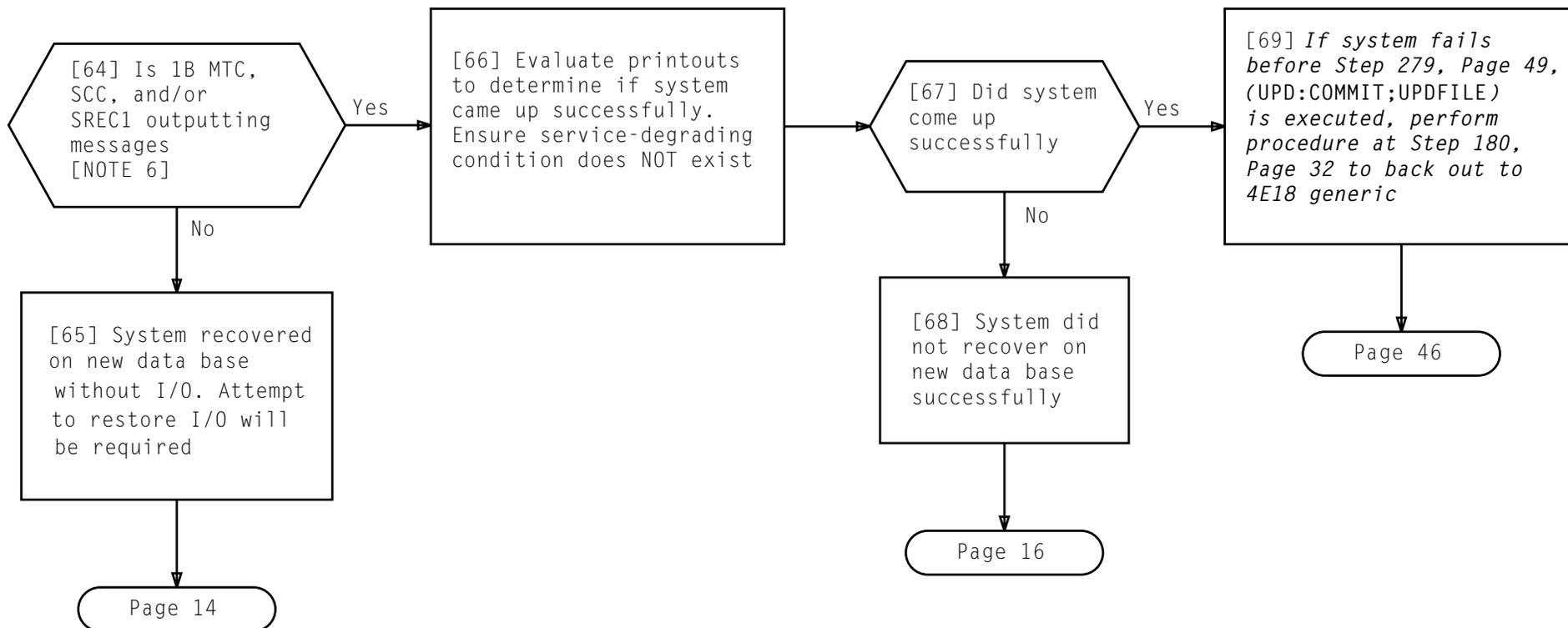
NOTE 5

If **0000000011** was received in Step 23, Page 5 or Step 45, Page 9, 1B Processor will be pumped [NOTE 2, Page 5] before phase 3 is initiated. When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit (bit 23) in

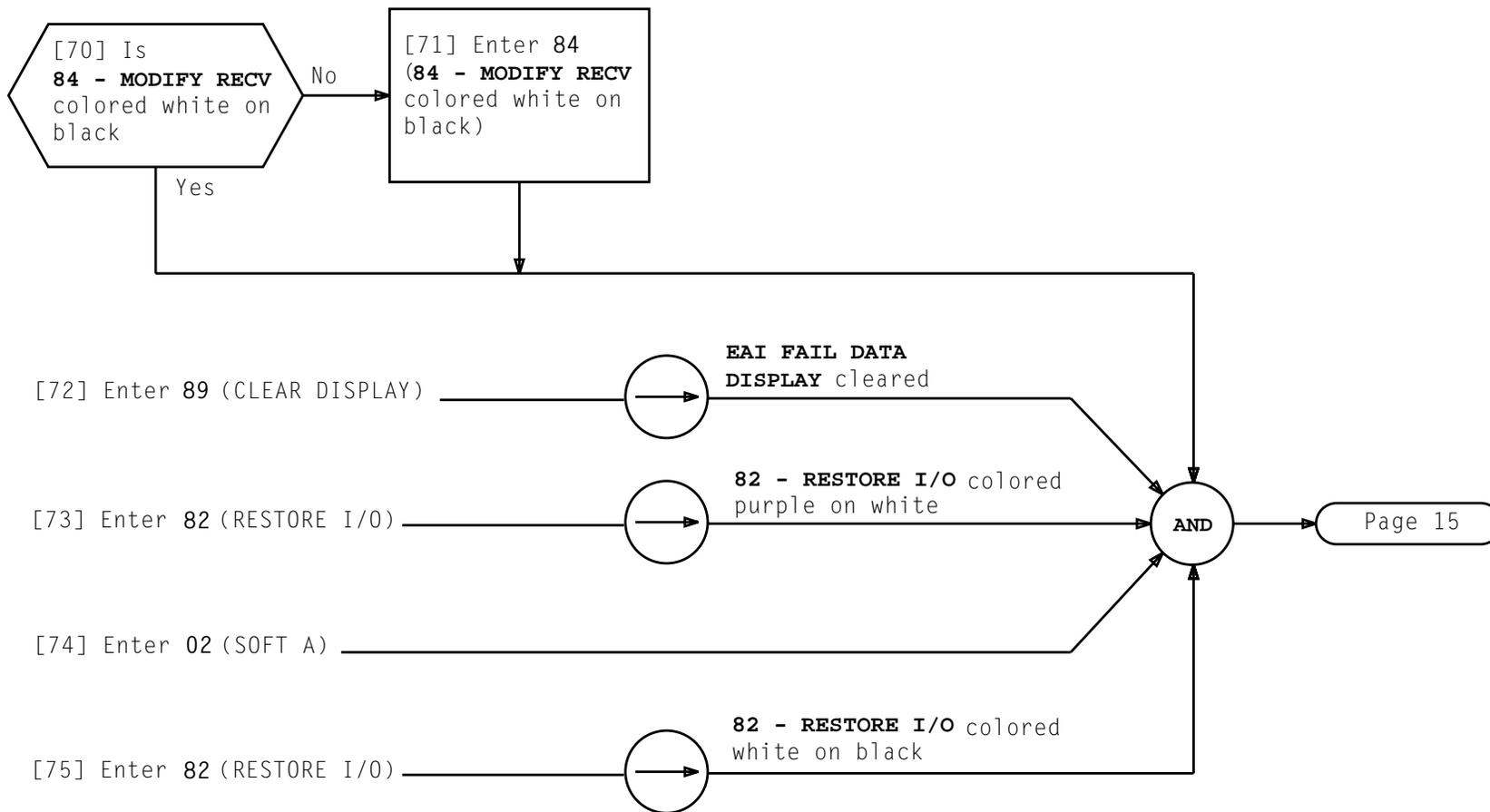
**EAI FAIL DATA**  
**DISPLAY - 86 - CODE** field will go between **0** and **4**.  
**53 - PHASE 3** colored black on purple.  
 In lower right-hand corner **PHASE IN PROG** colored white on red.  
**PC PROGRESSION - CMPL** continues to be colored black on green

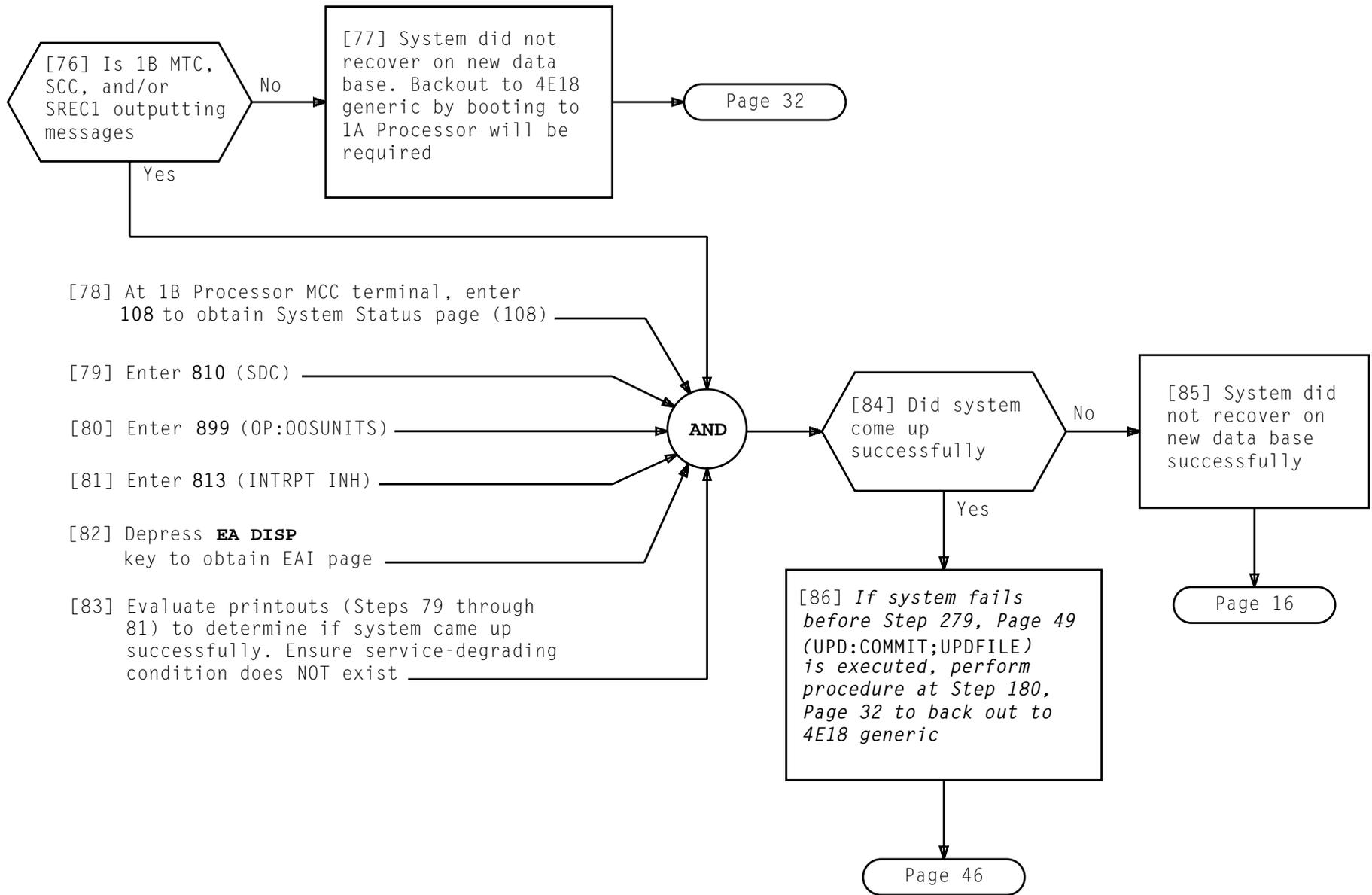
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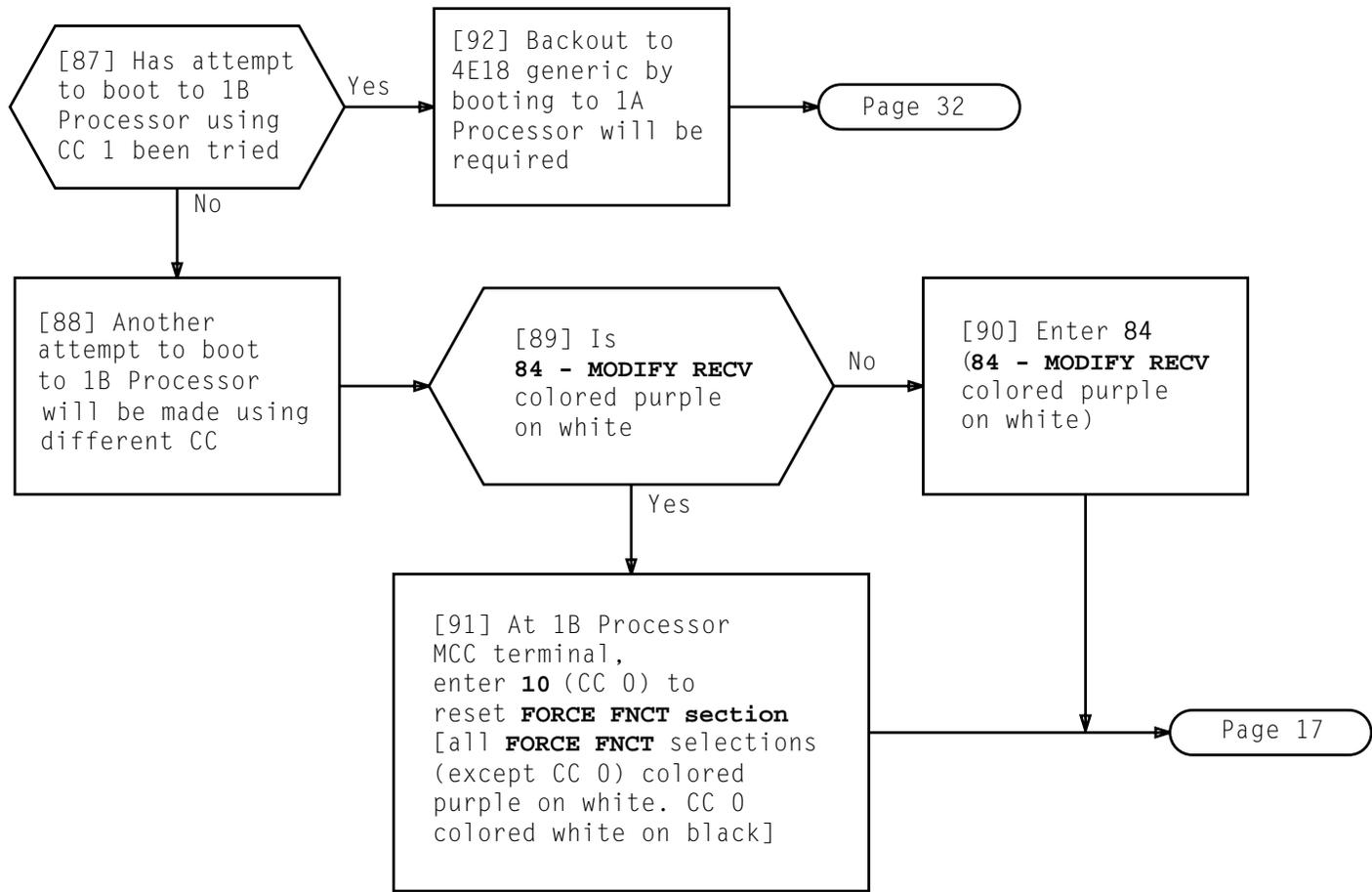


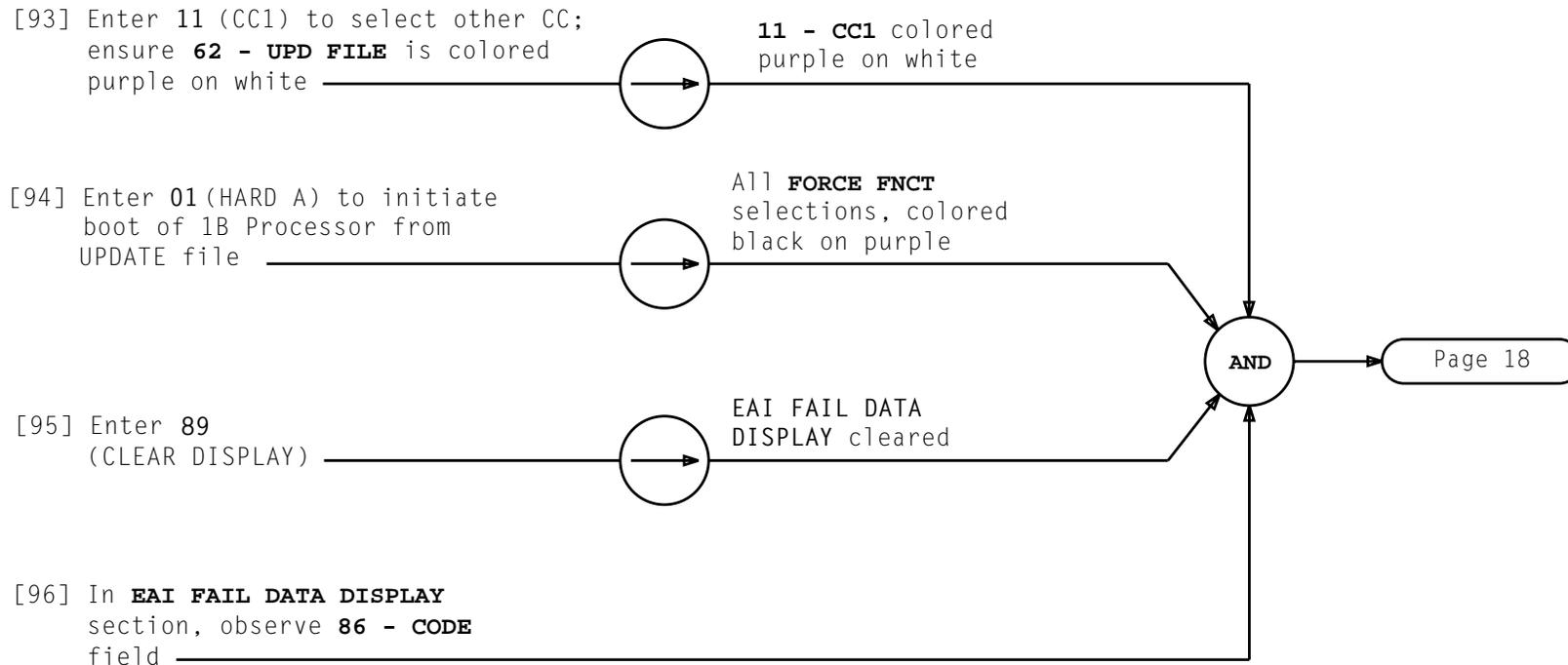


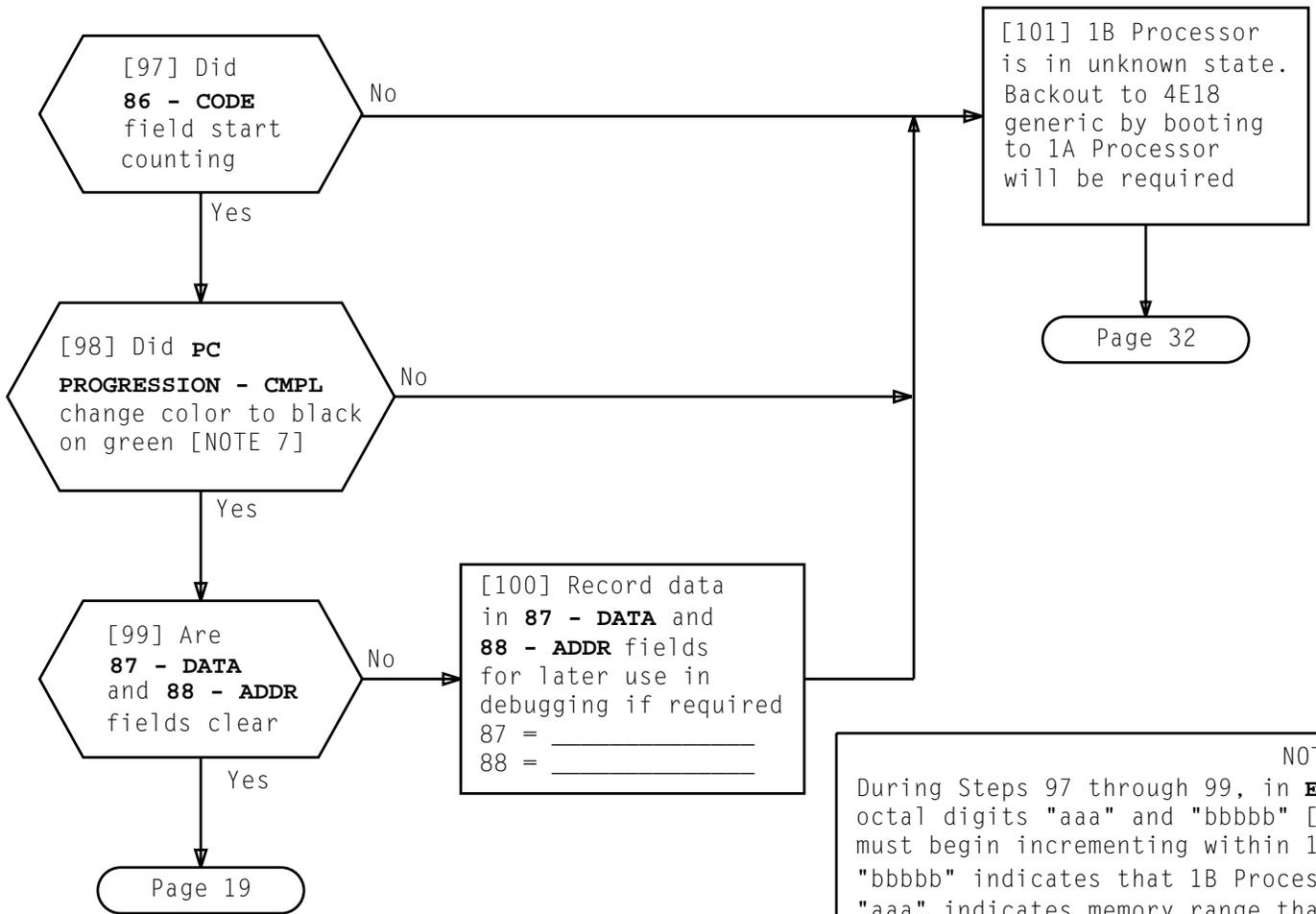
NOTE 6 1A MTC terminal will now be 1B MTC terminal	
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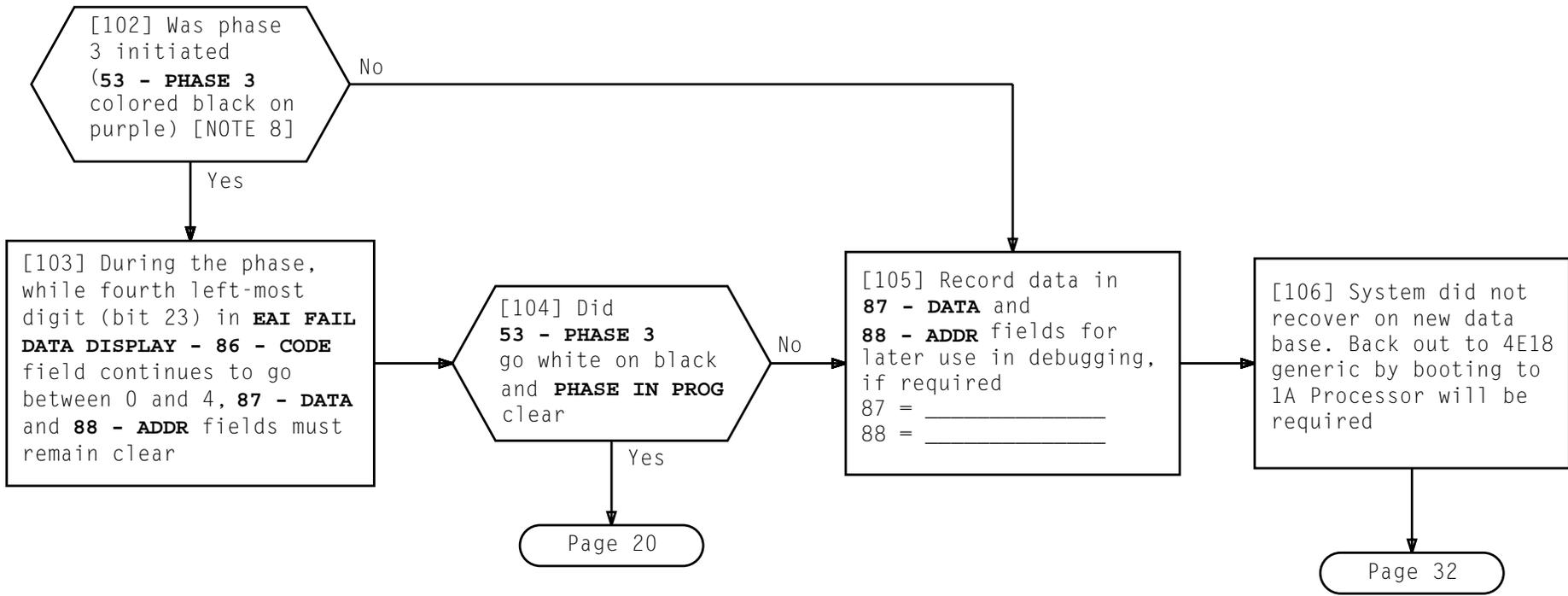


86 - CODE: 0'000aaabbbbb  
 87 - DATA:  
 88 - ADDR:

FIG. 4 - 86 - CODE Field Layout

NOTE 7  
 During Steps 97 through 99, in **EAI FAIL DATA DISPLAY** section, octal digits "aaa" and "bbbb" [FIG. 4] in **86 - CODE** field must begin incrementing within 10 seconds after entering **01**. "bbbb" indicates that 1B Processor is attempting to pump, and "aaa" indicates memory range that is being pumped. "aaa" and "bbbb" will continue to increment until **PC PROGRESSION - CMPL** colors black on green, approximately 2 minutes after entering **01**. If "aaa" does not begin to increment and "bbbb" does begin to increment, this is a failure. If at any time "aaa" stops incrementing while "bbbb" continues to increment, this is a failure. At no time should data appear in **87 - DATA** and **88 - ADDR** fields; this is a failure.

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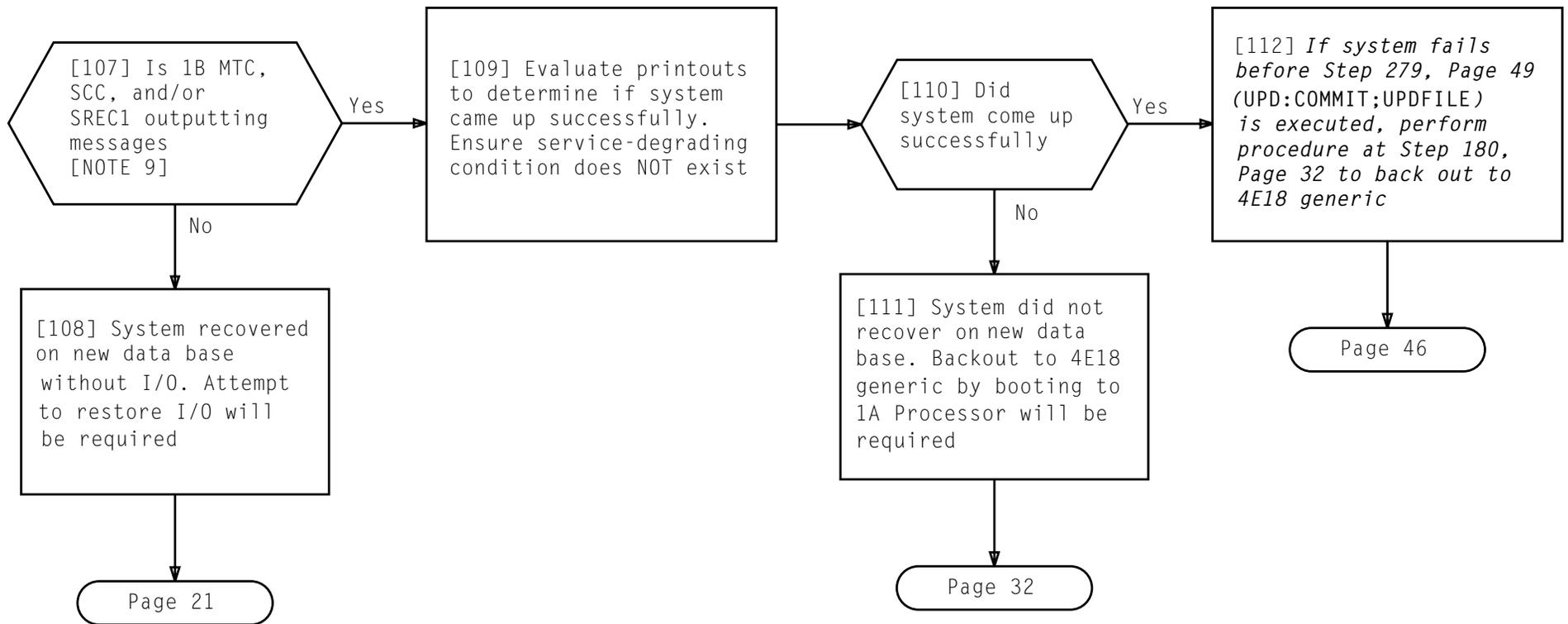


NOTE 8

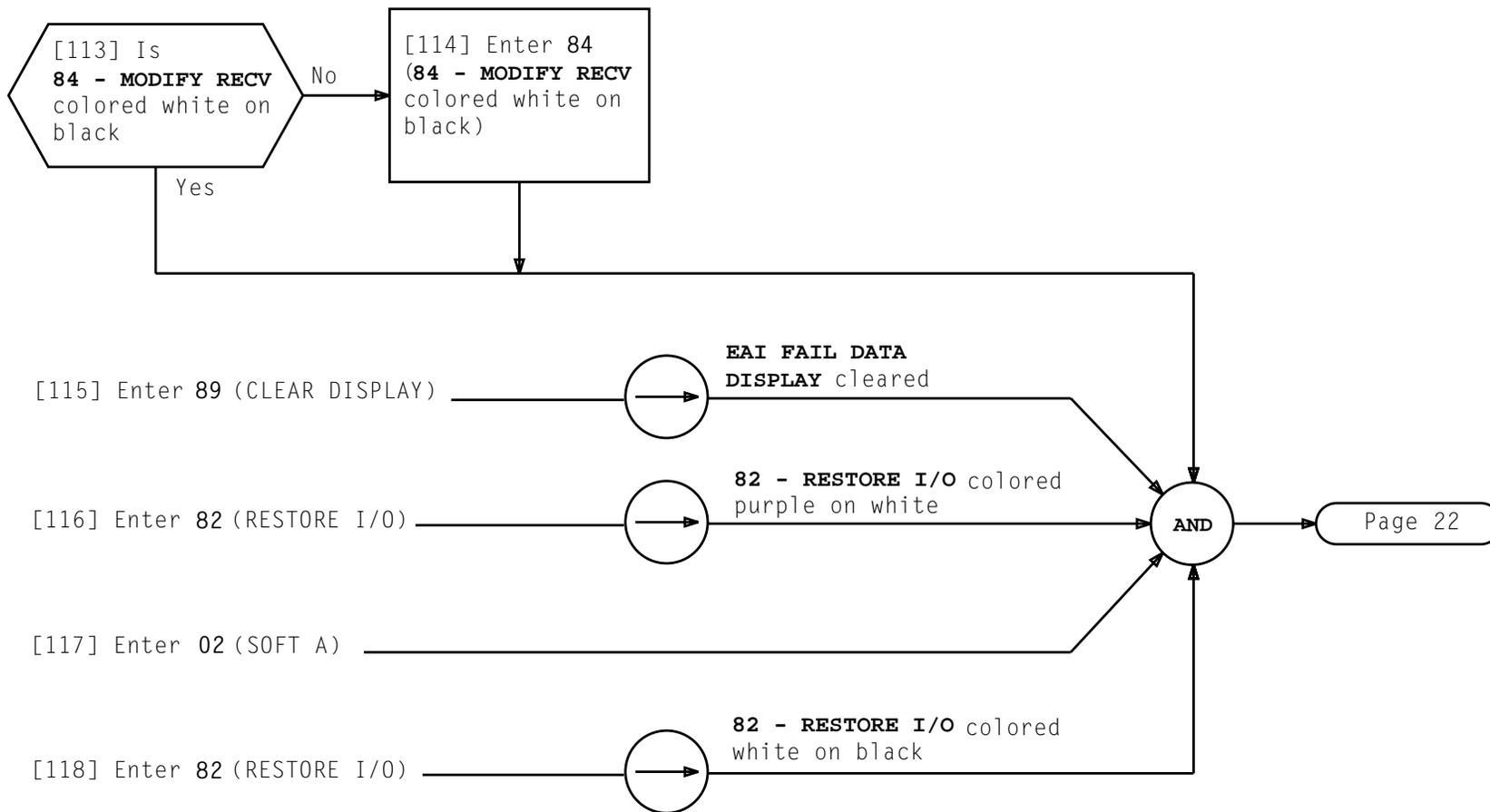
When a phase 3 is initiated, at 1B Processor MCC terminal, fourth left-most digit (bit 23) in **EAI FAIL DATA DISPLAY - 86 - CODE** field will go between **0** and **4**. **53 - PHASE 3** colored black on purple. In lower right-hand corner, **PHASE IN PROG** colored white on red.

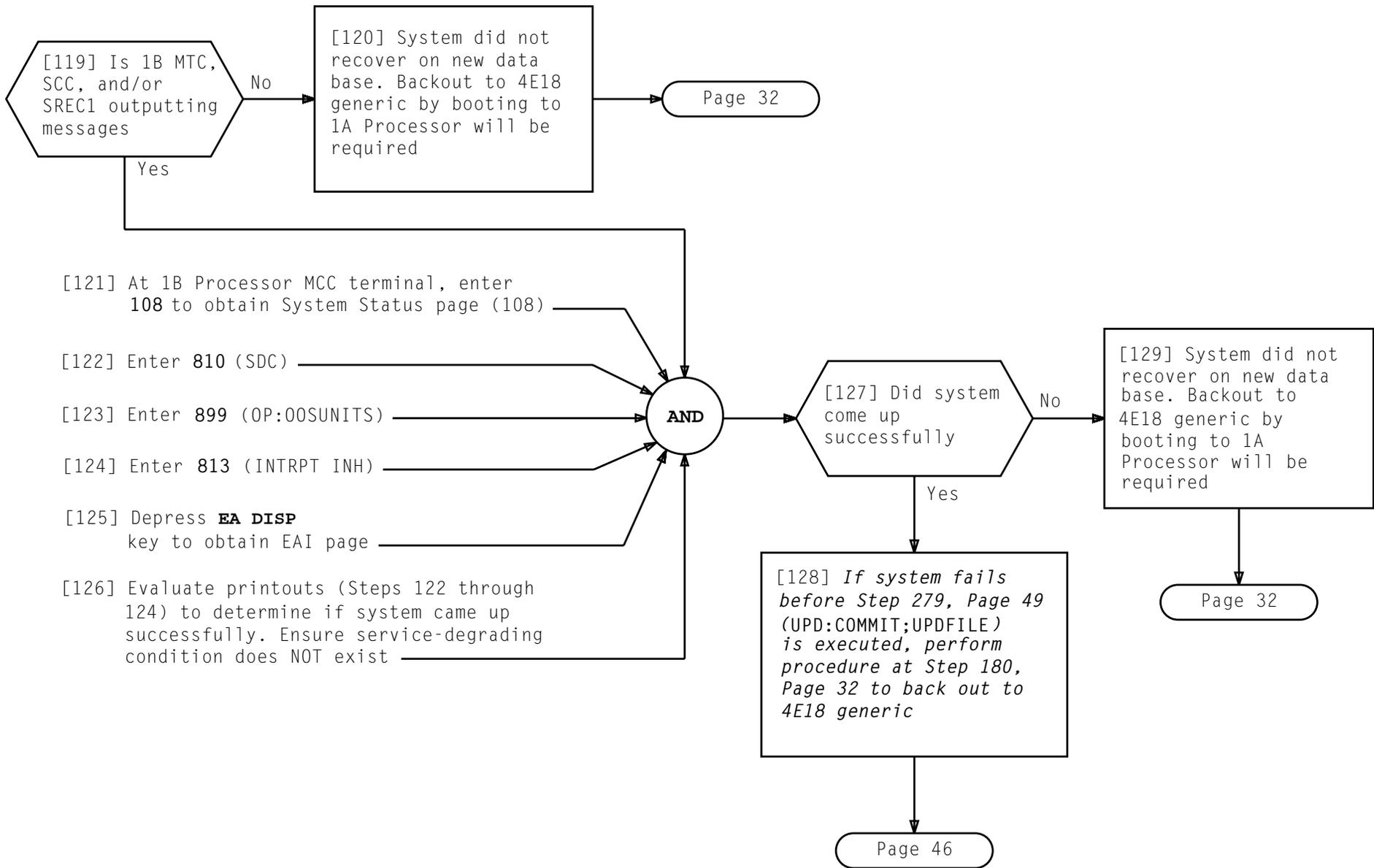
**PC PROGRESSION - Cmpl** continues to be colored black on green

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NOTE 9 1A MTC terminal will now be 1B MTC terminal	
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[130] **THIS IS START OF BACKOUT PROCEDURE (1A PROCESSOR IS CURRENTLY OPERATING IN EDOS).**  
 Notify next higher technical support group that **AUO** Conversion Switch Unit will be switched back to 1A Processor bus access \_\_\_\_\_

[131] At API 0 power switch, rotate **ROS/OFF** switch to **ROS** position; then depress **ROS/OFF** switch. Ensure **PWR OFF** lamp is on \_\_\_\_\_

[132] At 1B Processor MCC terminal, enter 1990 to obtain Dead Start page (1990) \_\_\_\_\_

[133] Enter 613 (UAS INTF ALW) \_\_\_\_\_

 **UAS: INTERFERING**  
 colored white on red

[134] Enter 701 (SUSPEND) to stop 1B Processor \_\_\_\_\_

 **701 - SUSPEND** colored white on red

[135] At 3B MCRT, enter message **OP:APPLOAD NORM!** \_\_\_\_\_

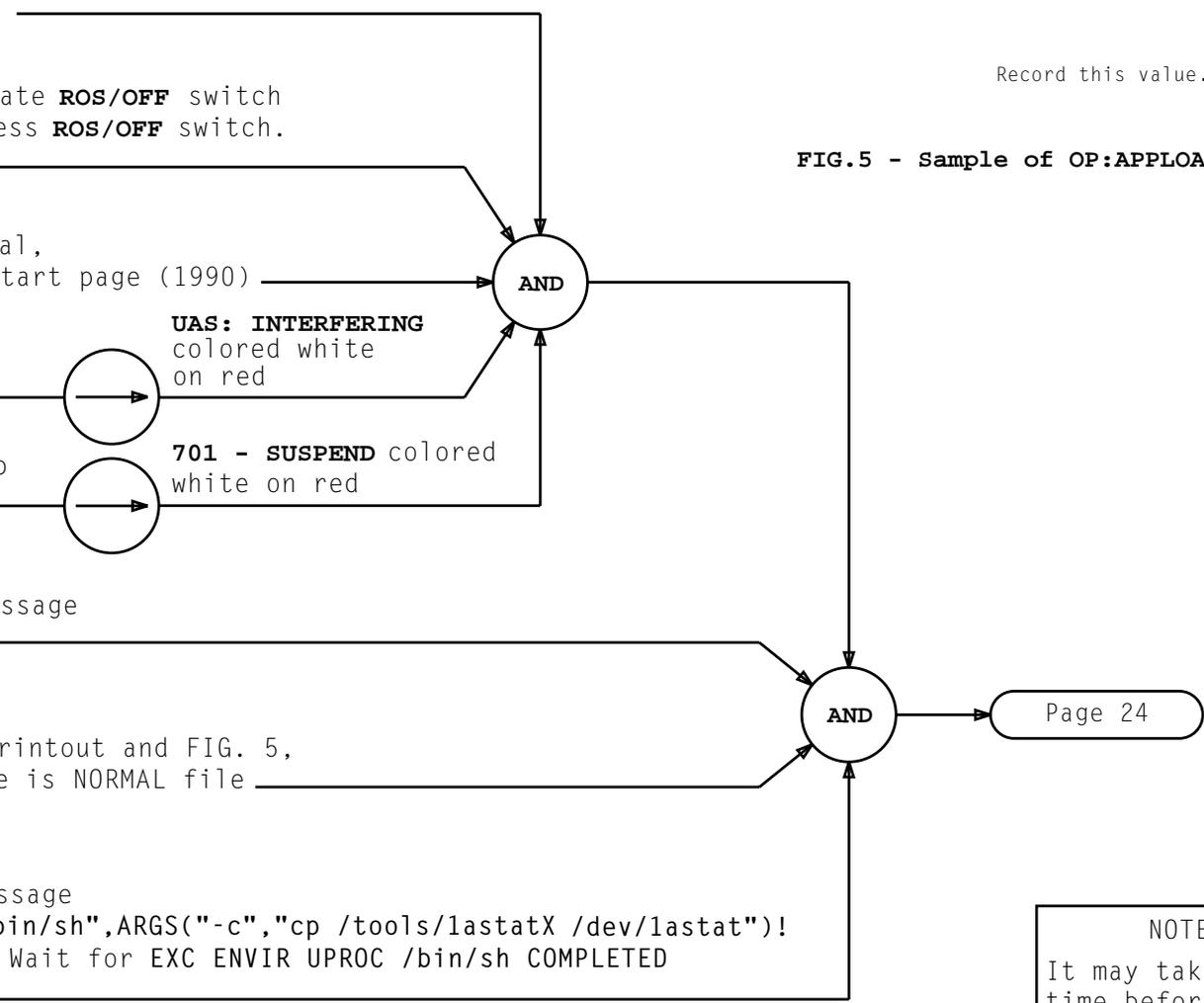
[136] See NOTE 10. Using printout and FIG. 5, determine what lafile is NORMAL file \_\_\_\_\_

[137] At 3B MCRT, enter message **EXC:ENVIR:UPROC, FN"/bin/sh", ARGS("-c", "cp /tools/lastatX /dev/lastat")!**  
 X = recorded lafile. Wait for **EXC ENVIR UPROC /bin/sh COMPLETED** message \_\_\_\_\_

4ESS DATA BASE LOADED IN /dev/lafileX

Record this value \_\_\_\_\_

**FIG.5 - Sample of OP:APPLOAD Printout**



NOTE 10	
It may take a short time before response is received	
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[138] At 3B MCRT, enter message  
 INIT:APDRV:FPI!. Wait for  
 INIT APDRV COMPLETED message

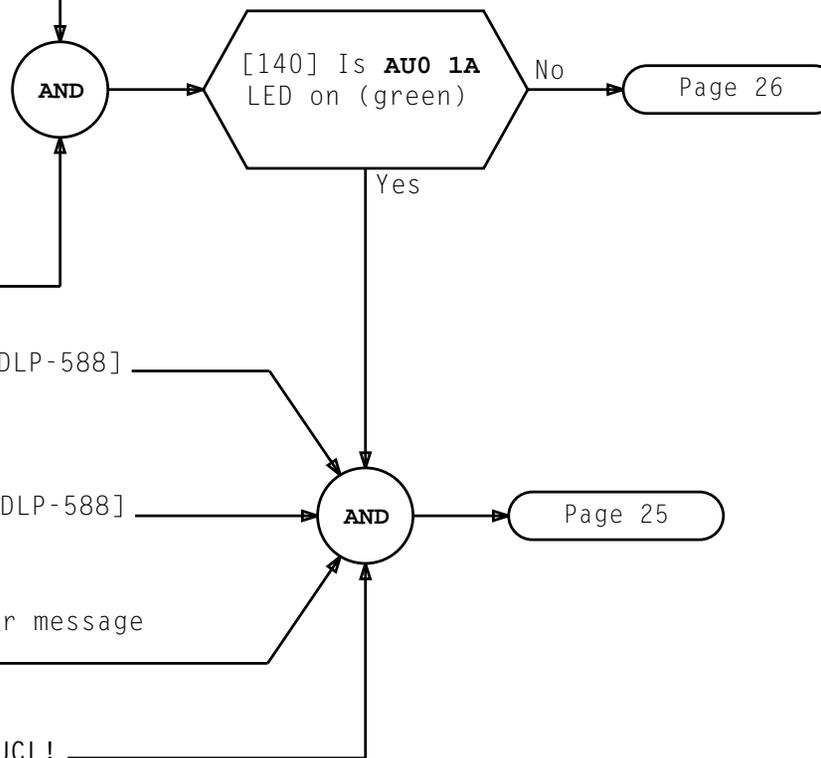
[139] At Indicator/Remote Control unit,  
 if **AUO 1A** LED is not on (green),  
 simultaneously operate and hold  
**AUO** switch to **1A** and **ARM** switch to  
**INDIVIDUAL** position until **AUO 1A**  
 LED is on (green). Report status  
 to next higher technical support  
 group

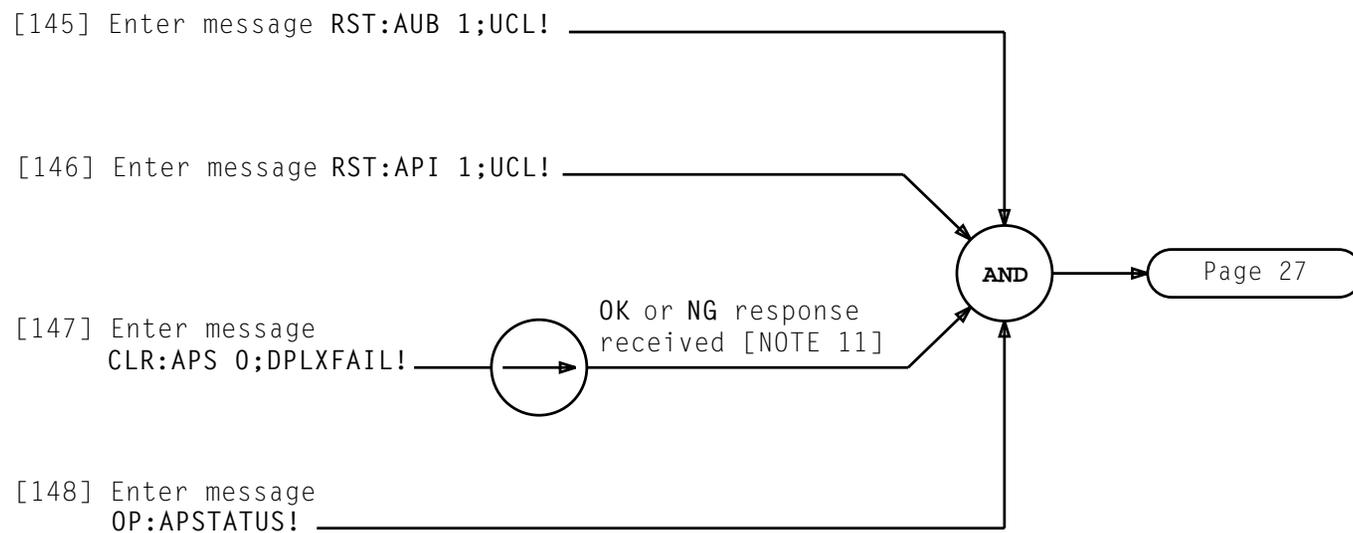
[141] Restore power to API 1 [DLP-588]

[142] Restore power to API 0 [DLP-588]

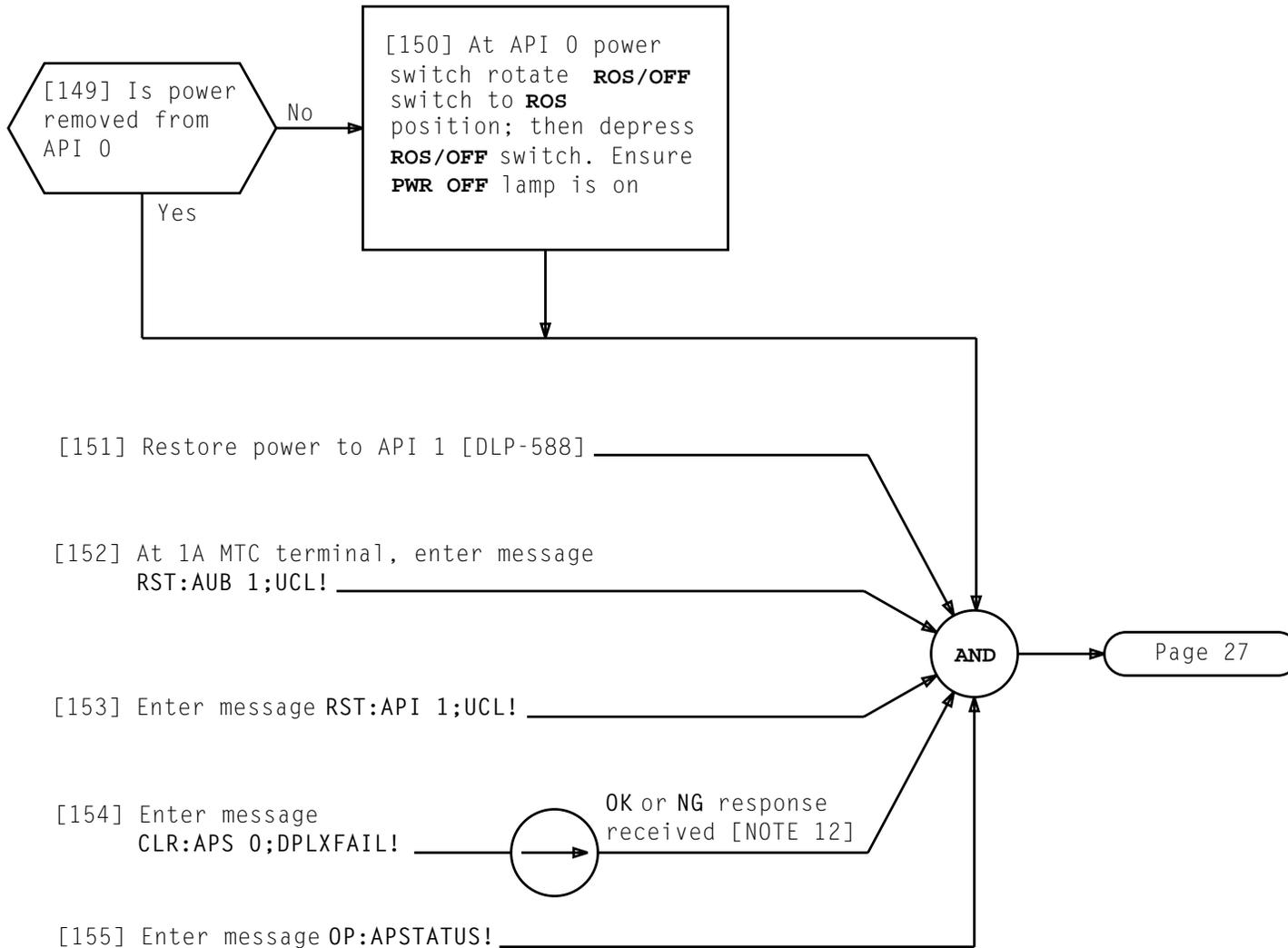
[143] At 1A MTC terminal, enter message  
 RST:AUB 0;UCL!

[144] Enter message RST:API 0;UCL!

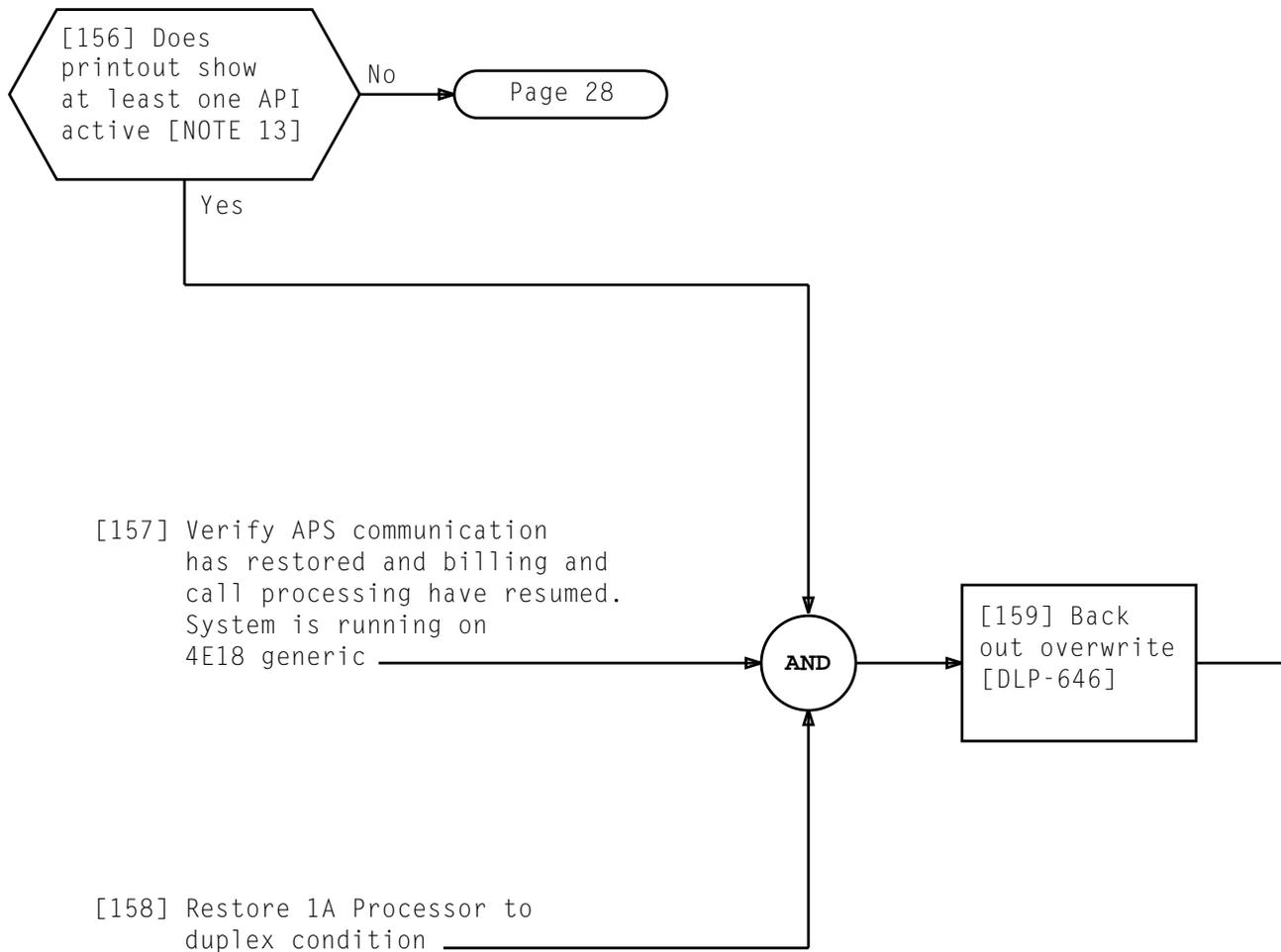




NOTE 11	
NG response will be received if lafiles are not duplex failed	
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NOTE 12	
NG response will be received if lafiles are not duplex failed	
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NOTE 13	
It will take a short time before response is received	
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[160] At 3B MCRT, enter message  
INIT:APDRV:FPI!. Wait for  
INIT APDRV COMPLETED  
message

[161] At 1A MTC terminal, enter message  
RST:API 0;UCL!

[162] At 1A MTC terminal, enter message  
RST:API 1;UCL!

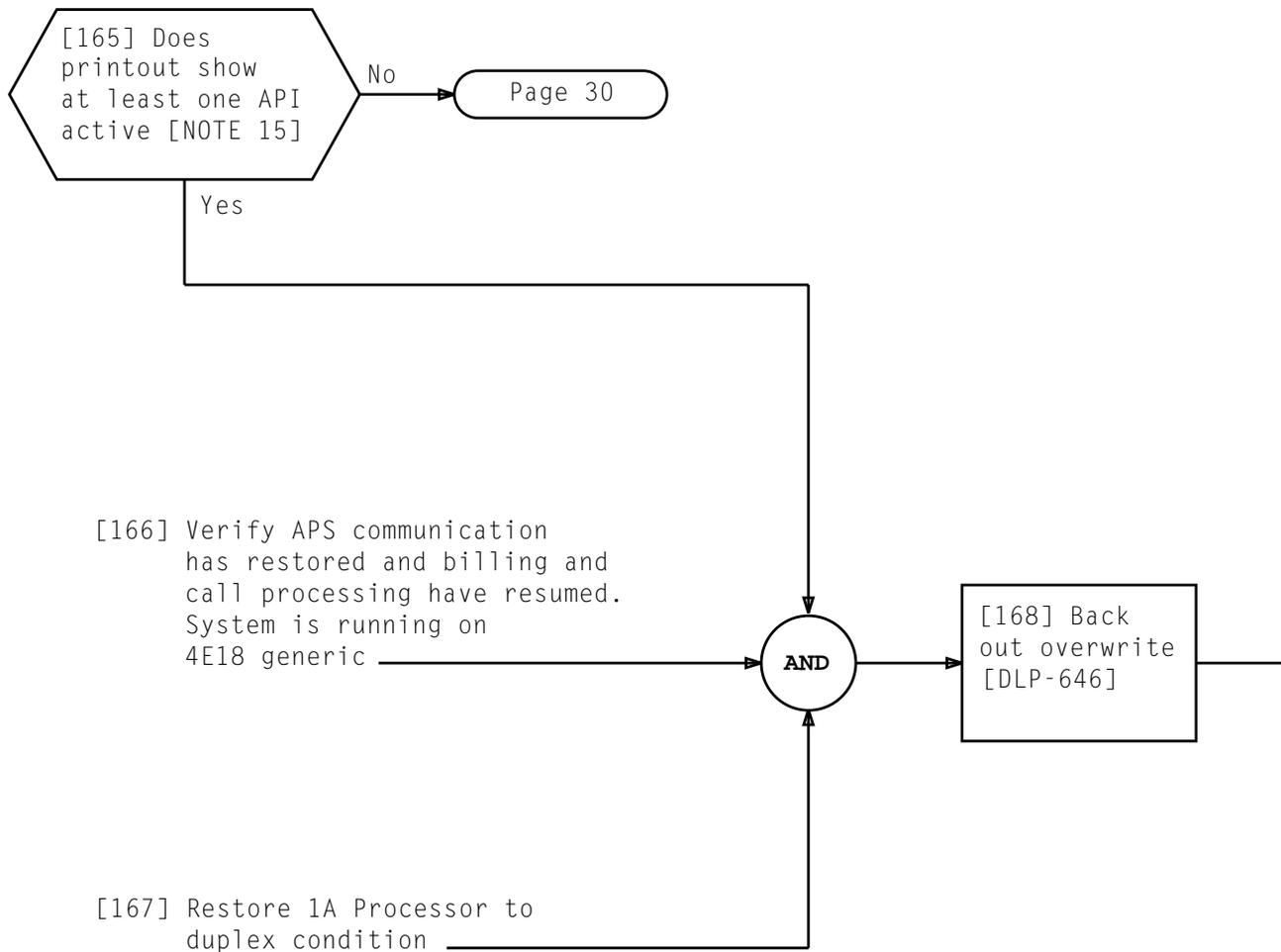
[163] Enter message  
CLR:APS 0;DPLXFAIL! → (circle) → OK or NG response  
received [NOTE 14]

[164] Enter message  
OP:APSTATUS!

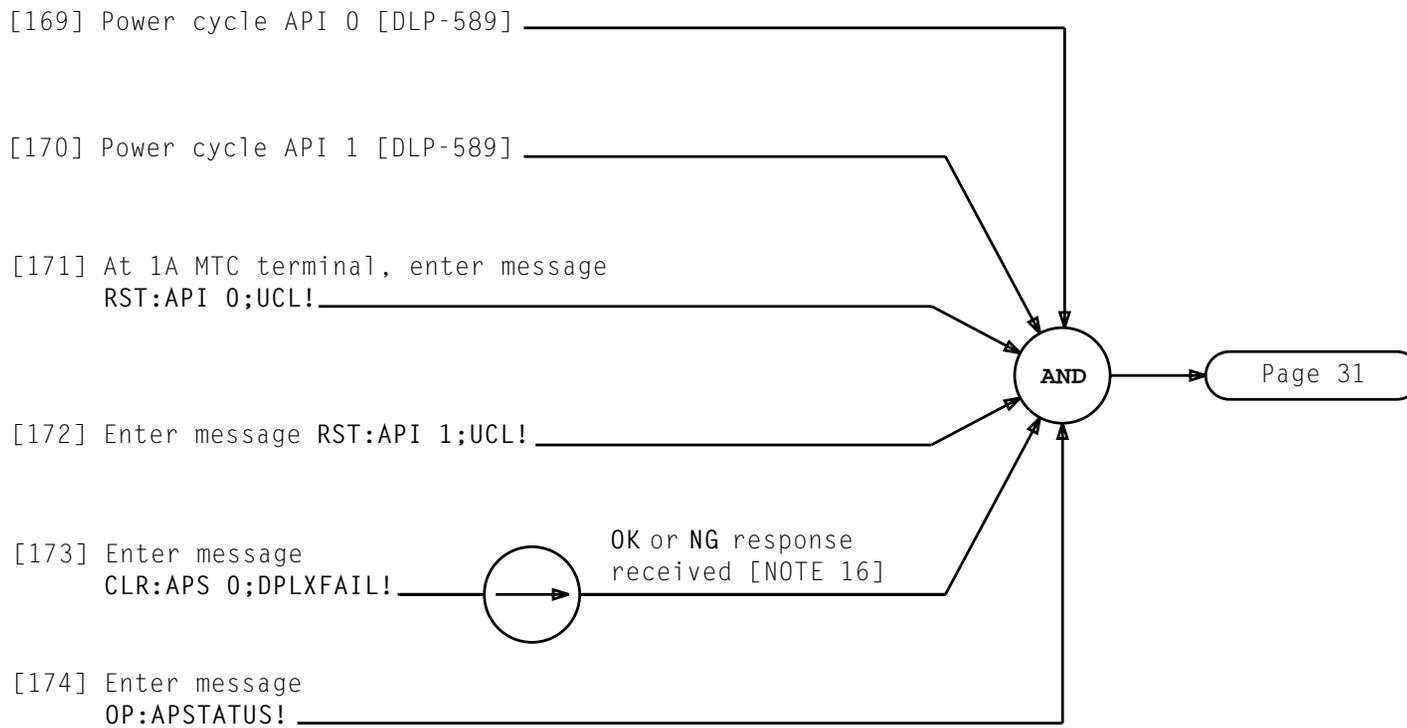
AND

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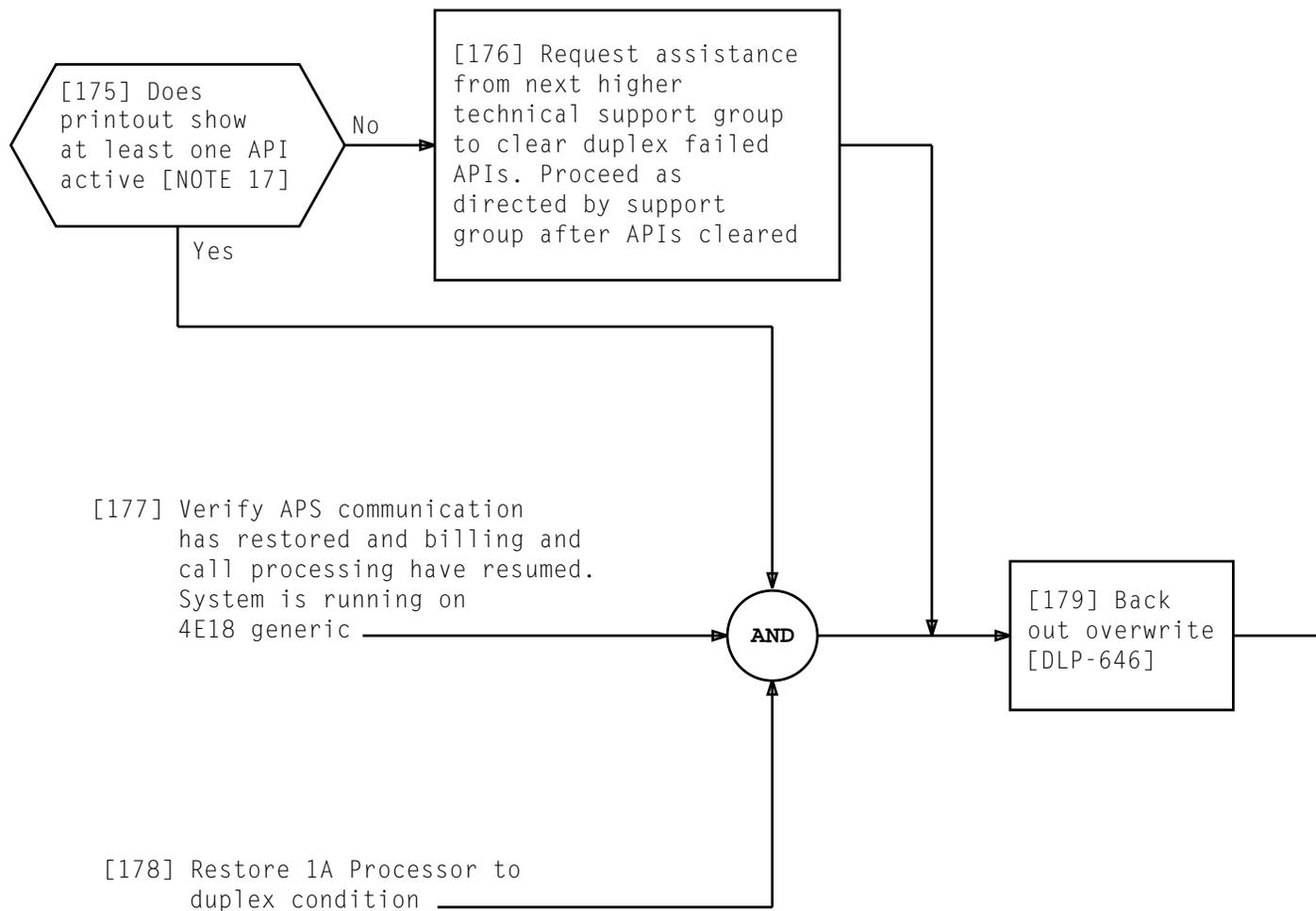
NOTE 14	
It will take a short time before response is received	
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NOTE 15	
It will take a short time before response is received	
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NOTE 16	
NG response will be received if 1afiles are not duplex failed	
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NOTE 17	
It will take a short time before response is received	
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[180] **BACK OUT PROCESSOR TO 1A (1A PROCESSOR IS CURRENTLY IN STAND-ALONE MODE WITH CONVERSION SWITCH UNITS SET TO 1B BUS ACCESS [RED]).**  
 Notify next higher technical support group that attempt to recover on 1A Processor will be made

[181] Technician 1: Allow utility-interfering actions [DLP-585]

[182] At 1B Processor MCC terminal, enter 1990 to obtain Dead Start page (1990); then enter 613 (UAS INTF ALW)

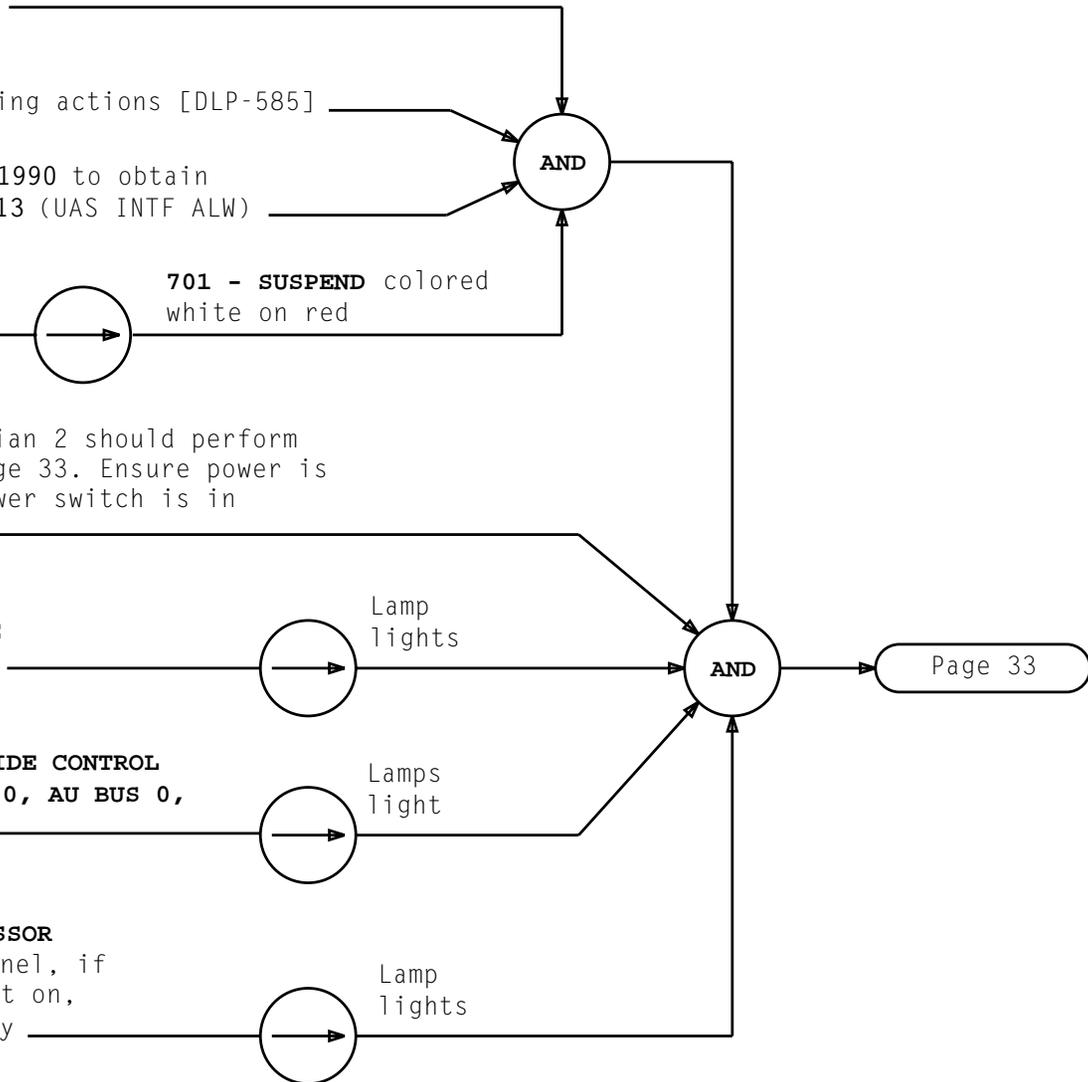
[183] Enter 701 (SUSPEND)  **701 - SUSPEND** colored white on red

[184] During this step, Technician 2 should perform Steps 185 through 189, Page 33. Ensure power is restored to API 1, and power switch is in normal position

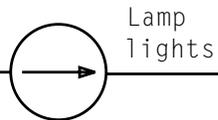
[185] At 1A Processor MCC **UPDATE** panel, depress **NORMAL** key  Lamp lights

[186] At 1A Processor MCC **VERRIDE CONTROL** panel, depress **BLOCK 0 PS 0, AU BUS 0, PS BUS 0, and CC 0** keys  Lamps light

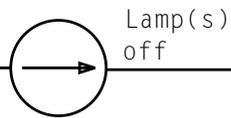
[187] At 1A Processor MCC **ROCESSOR CONFIGURATION SEQUENCER** panel, if **DISABLE AUTO PC** lamp is not on, depress **DISABLE AUTO PC** key  Lamp lights



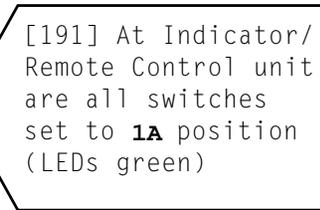
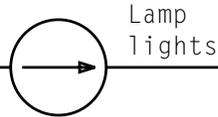
[188] At 1A Processor MCC **MANUAL INTERRUPT PROGRAM REQUEST** panel, if **MODIFY RECOVERY ACTIONS** key is not on, depress **MODIFY RECOVERY ACTIONS** key



[189] Depress each **DIRECT DATA INSERT** key that is on



[190] Depress **DIRECT DATA INSERT - 16** key



Yes



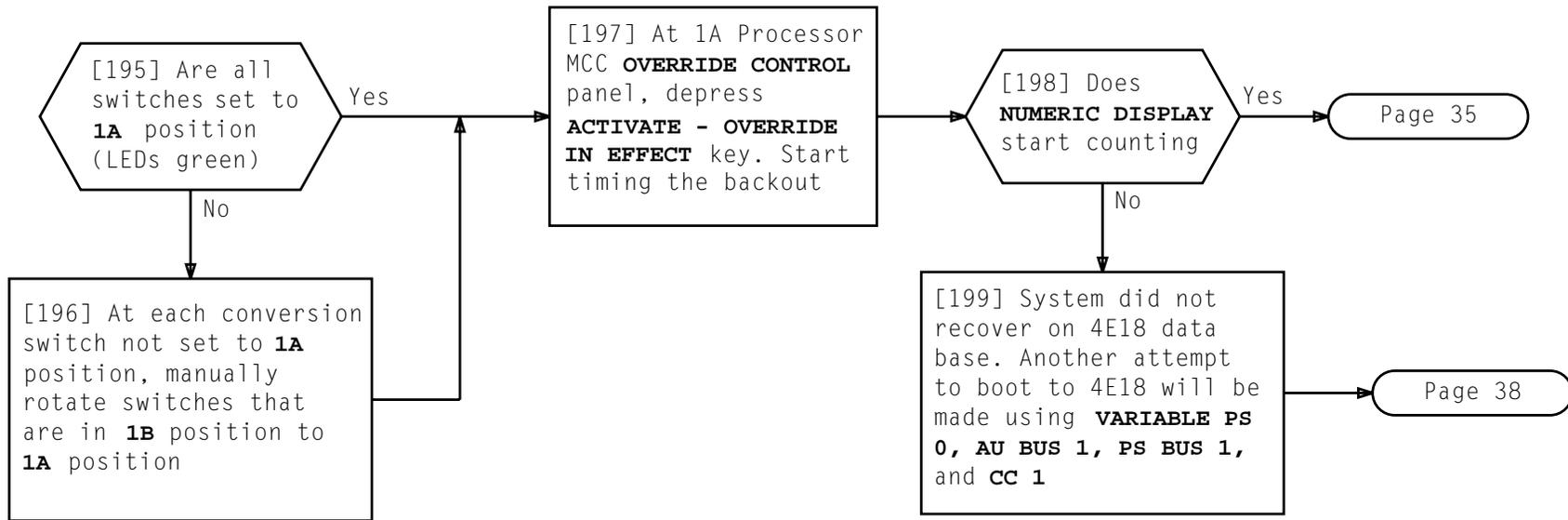
No

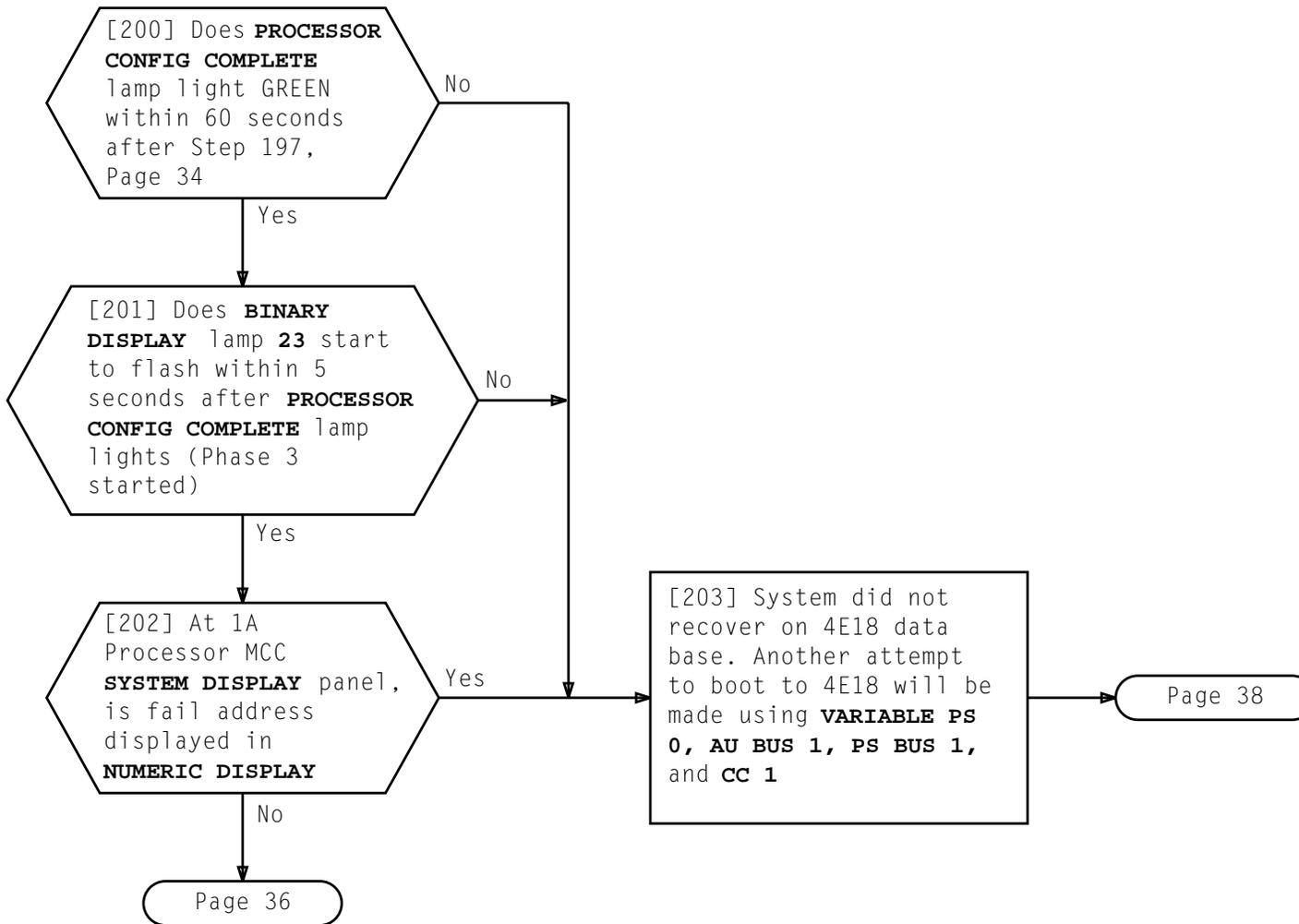
[192] At Indicator/Remote Control unit, operate **ALL-1B** key to **OFF** position

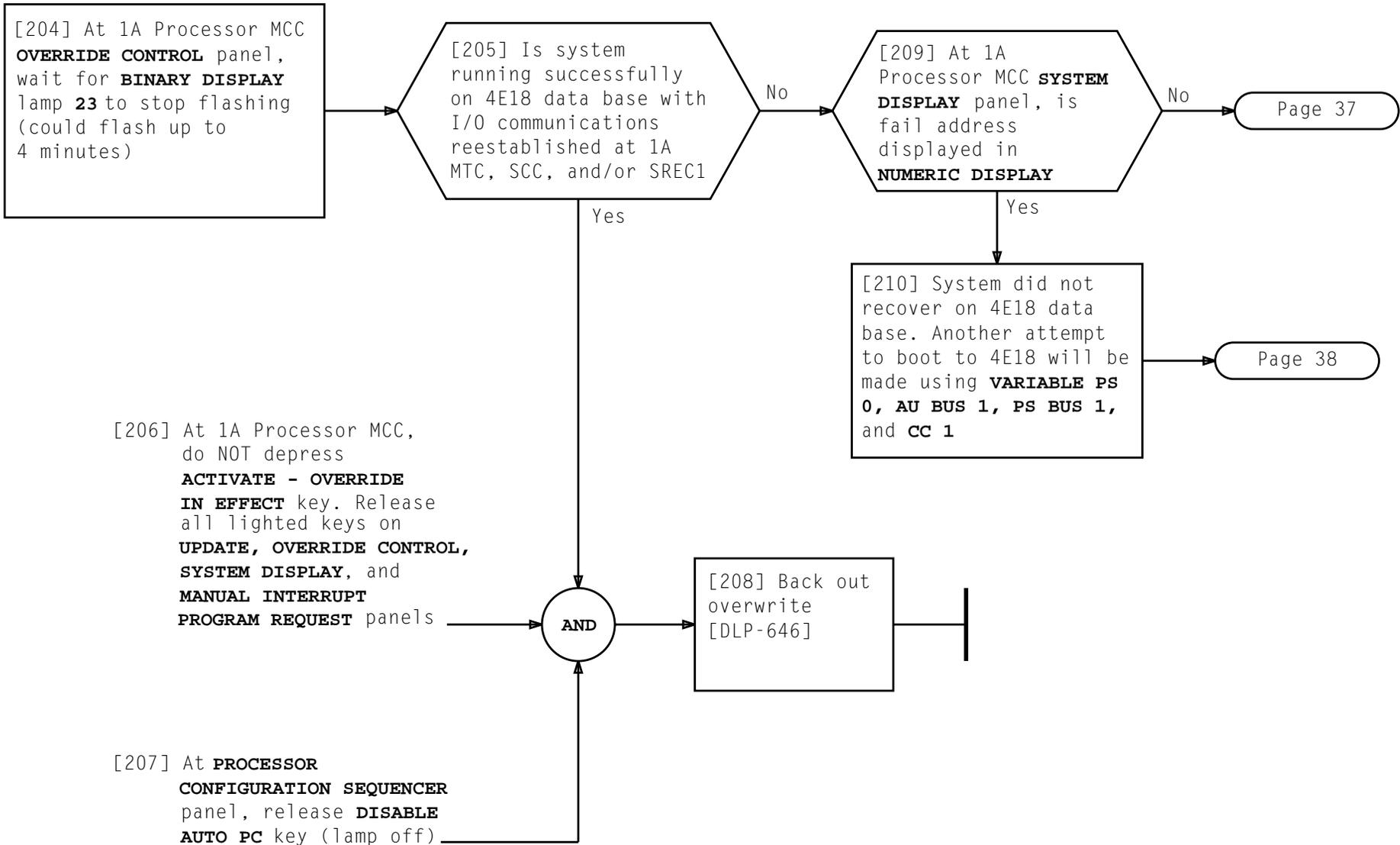
[193] Operate **ALL-1A** key to **ON** position

[194] Operate **ARM** switch down to **ALL** position





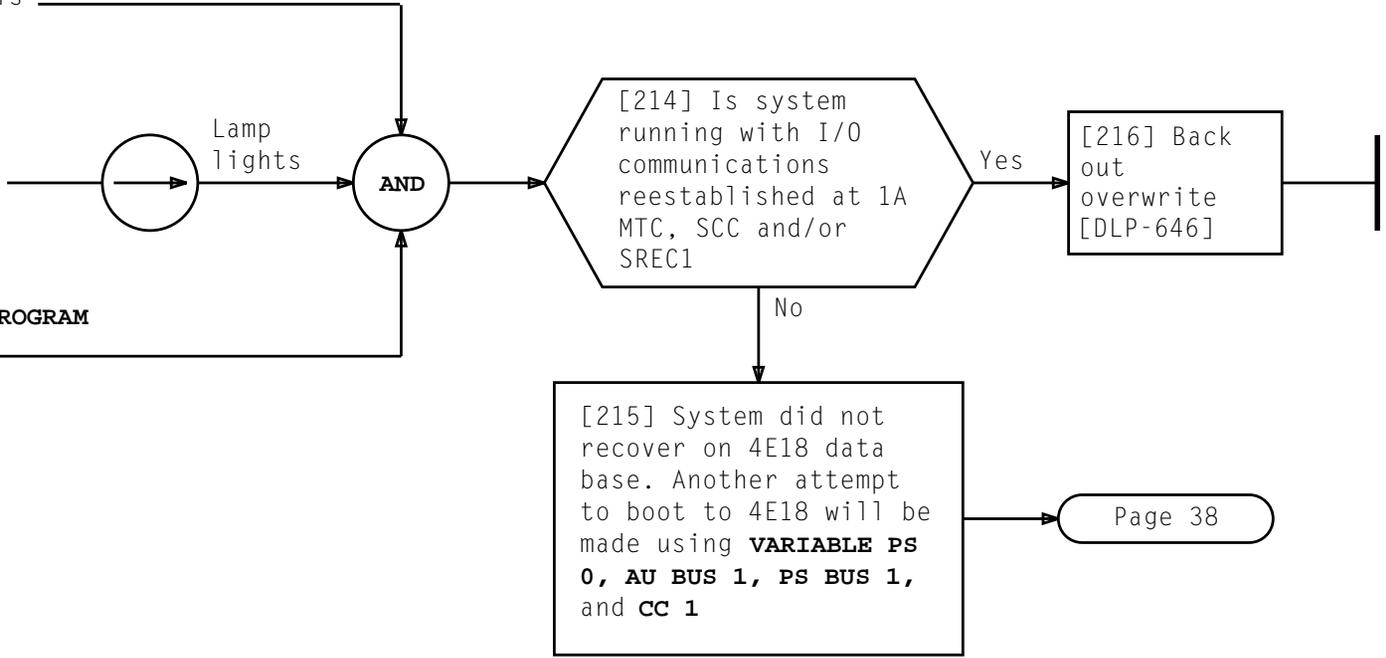




[211] At 1A Processor MCC,  
do NOT depress  
**ACTIVATE - OVERRIDE**  
**IN EFFECT** key.  
Release all lighted  
keys on **UPDATE, OVERRIDE**  
**CONTROL, SYSTEM DISPLAY,**  
and **MANUAL INTERRUPT**  
**PROGRAM REQUEST** panels

[212] At **MANUAL INTERRUPT**  
**PROGRAM REQUEST**  
panel, depress  
**RESTORE MTC I/O** key

[213] Depress **ACTIVATE - PROGRAM**  
**REQUEST** key



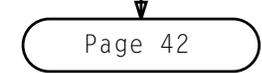
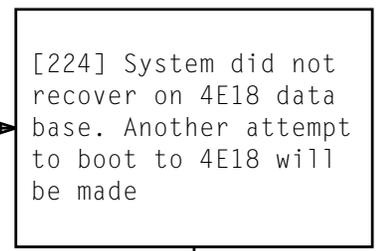
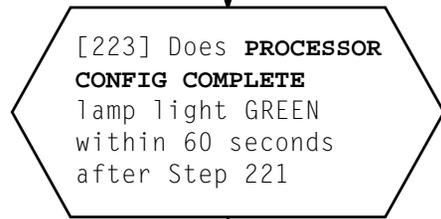
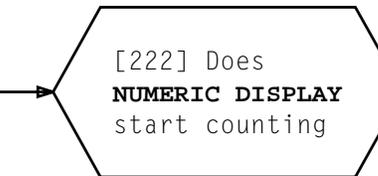
[217] At 1A Processor MCC  
**MANUAL INTERRUPT**  
**PROGRAM REQUEST** panel,  
 if **RESTORE MTCE I/O**  
 lamp is on, depress  
 to off (lamp off)

[218] If **MODIFY RECOVERY ACTIONS**  
 lamp is not on, depress to  
 on (lamp on)

[219] At 1A Processor MCC **OVERRIDE**  
**CONTROL** panel, depress any  
 lighted keys (lamps off)

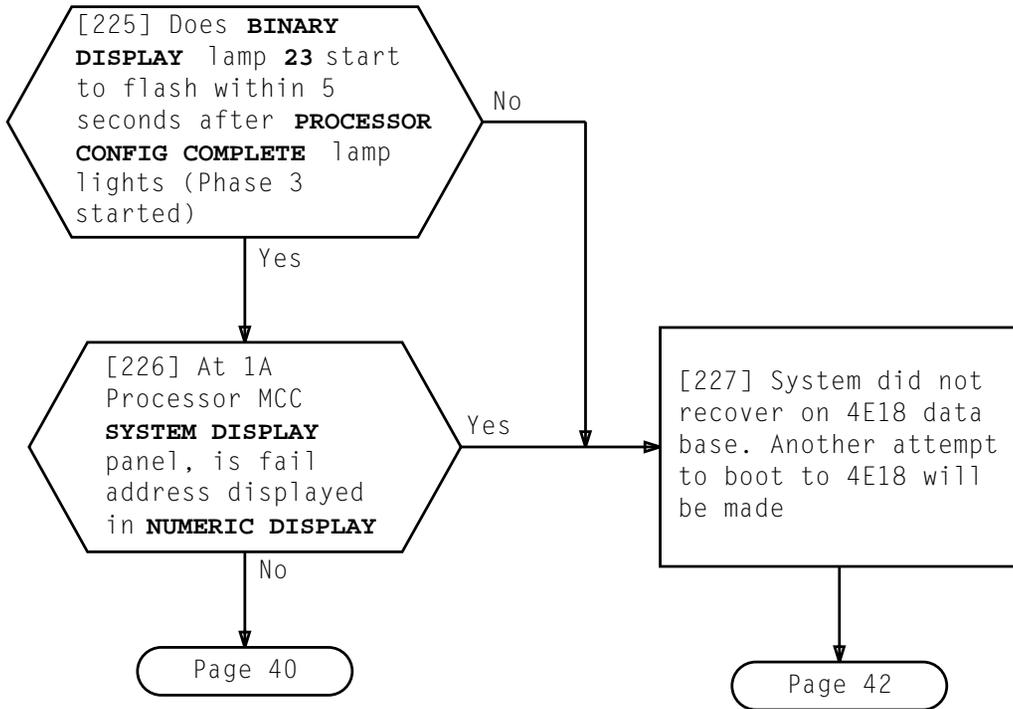
[220] Depress **VARIABLE PS 0,**  
**AU BUS 1, PS BUS 1,** and  
**CC1** keys (lamps on)

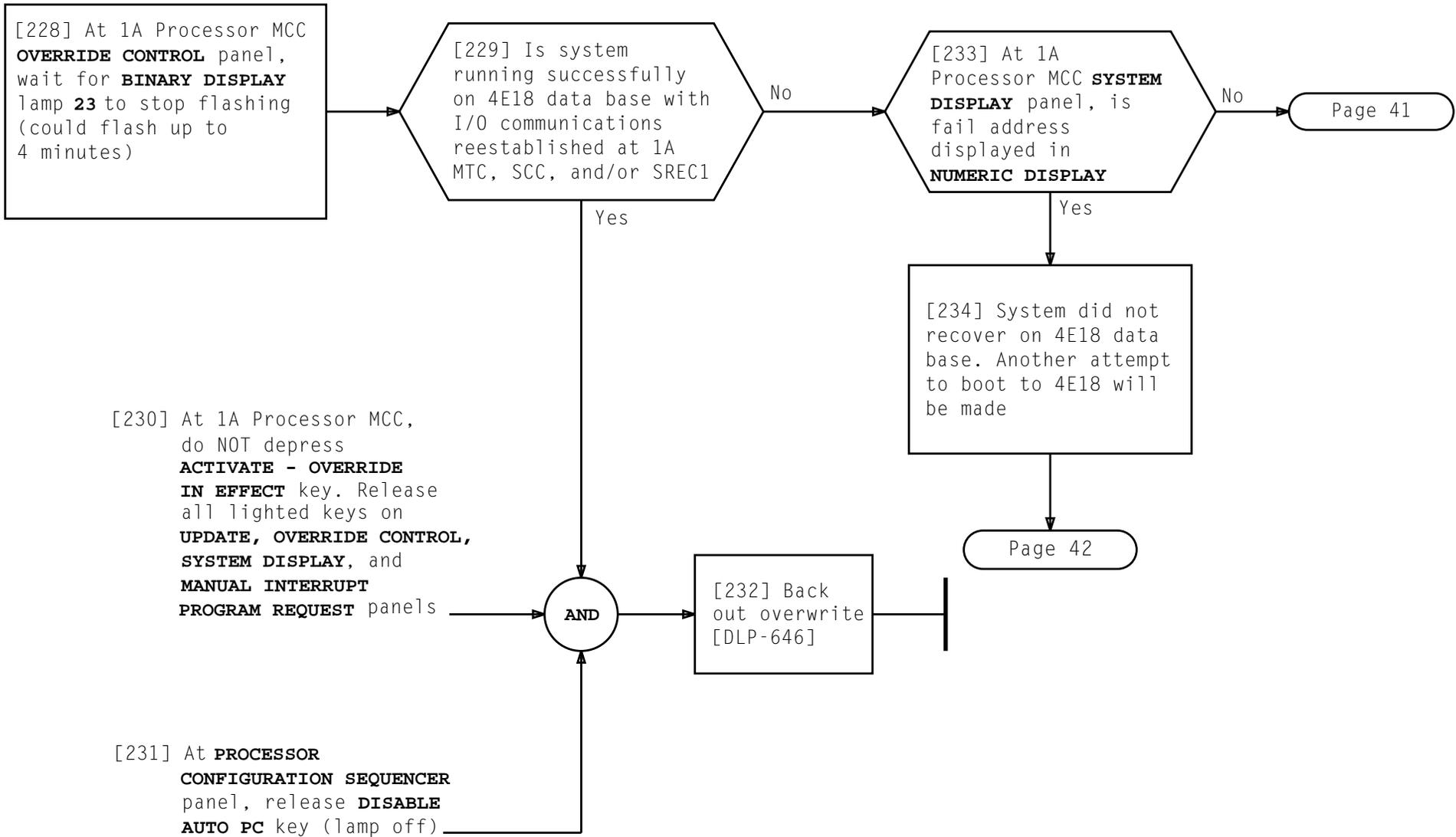
[221] At 1A Processor MCC  
**OVERRIDE CONTROL** panel,  
 depress **ACTIVATE -**  
**OVERRIDE IN EFFECT**  
 key. Start timing  
 the backout



**RETROFIT TO 1B PROCESSOR**

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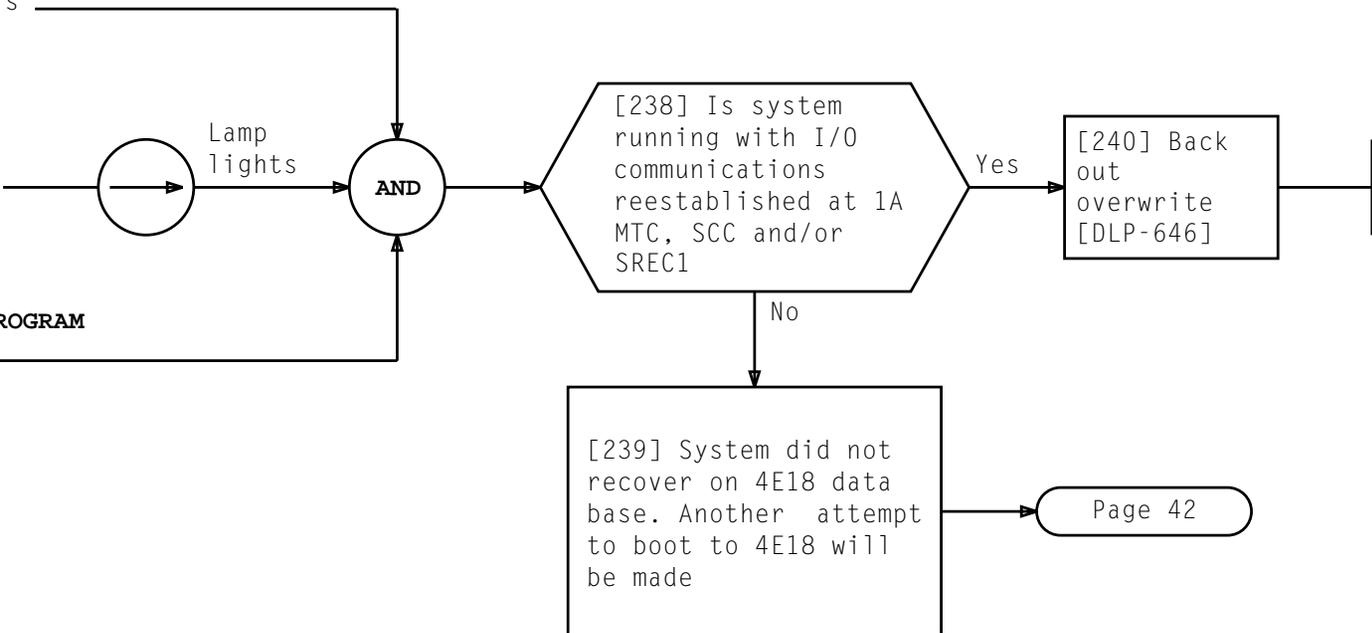




[235] At 1A Processor MCC,  
do NOT depress  
**ACTIVATE - OVERRIDE  
IN EFFECT** key.  
Release all lighted  
keys on **UPDATE, OVERRIDE  
CONTROL, SYSTEM DISPLAY,**  
and **MANUAL INTERRUPT  
PROGRAM REQUEST** panels

[236] At **MANUAL INTERRUPT  
PROGRAM REQUEST**  
panel, depress  
**RESTORE MTCE I/O** key

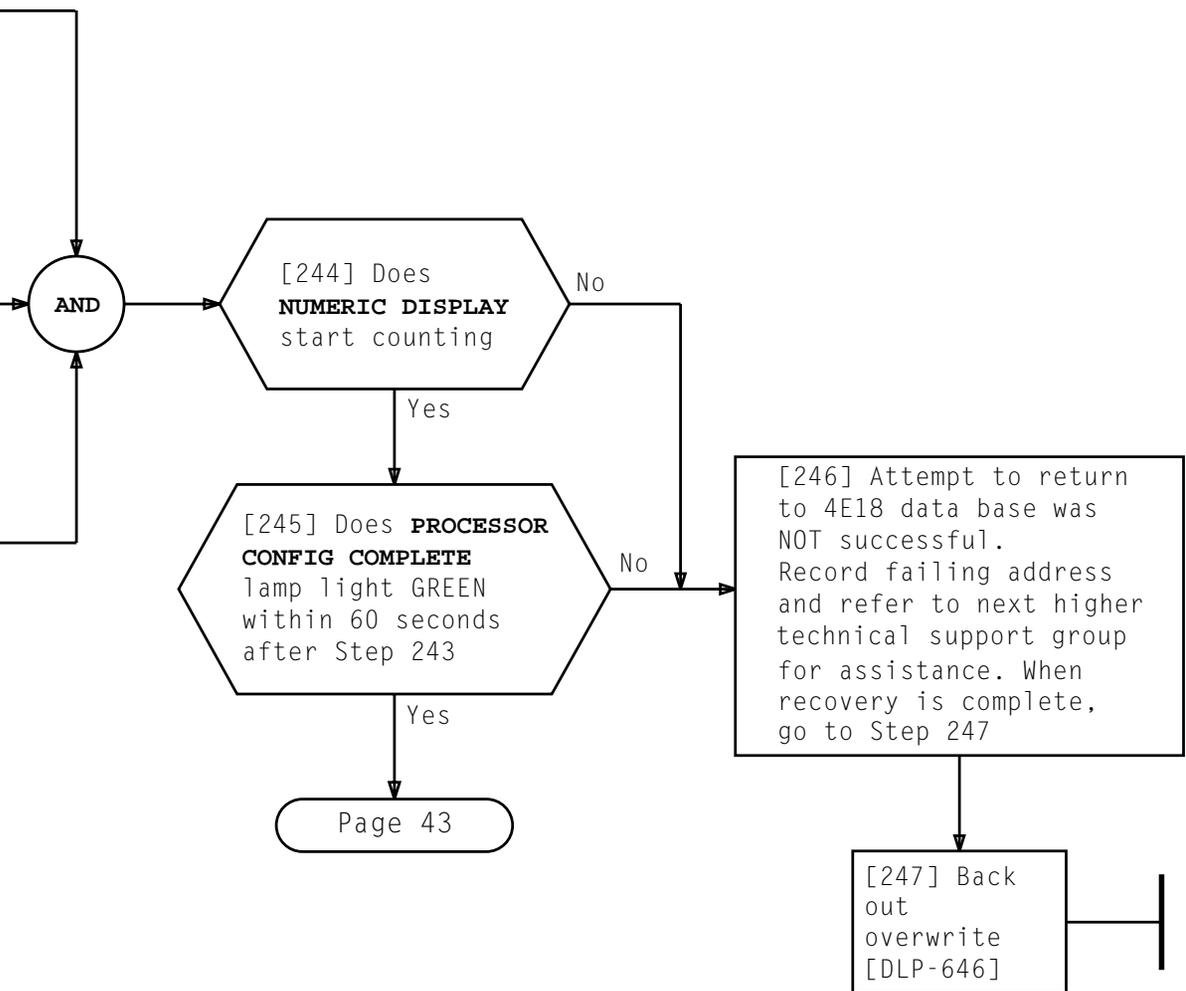
[237] Depress **ACTIVATE - PROGRAM  
REQUEST** key



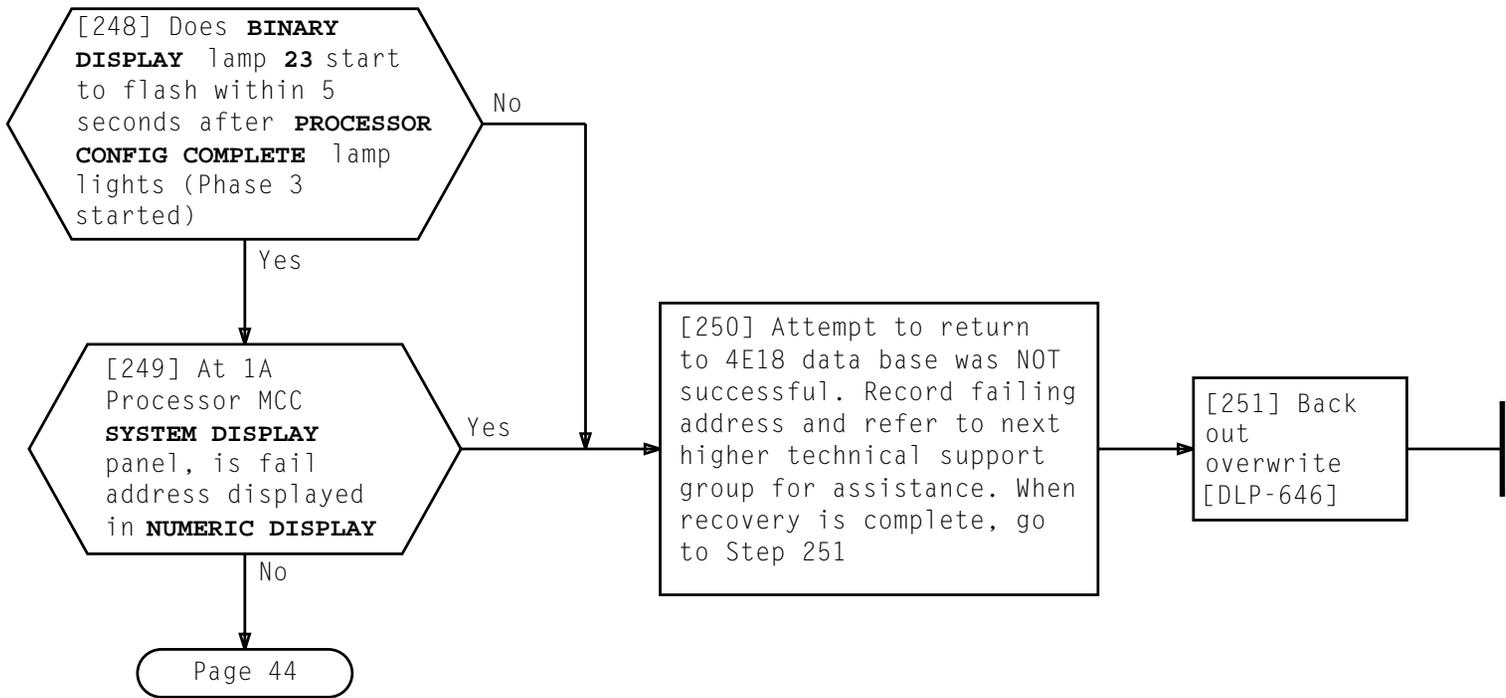
[241] At 1A Processor MCC, do NOT depress **ACTIVATE - OVERRIDE IN EFFECT** key.  
At 1A Processor MCC **OVERRIDE CONTROL** panel, depress any lighted keys (lamps off)

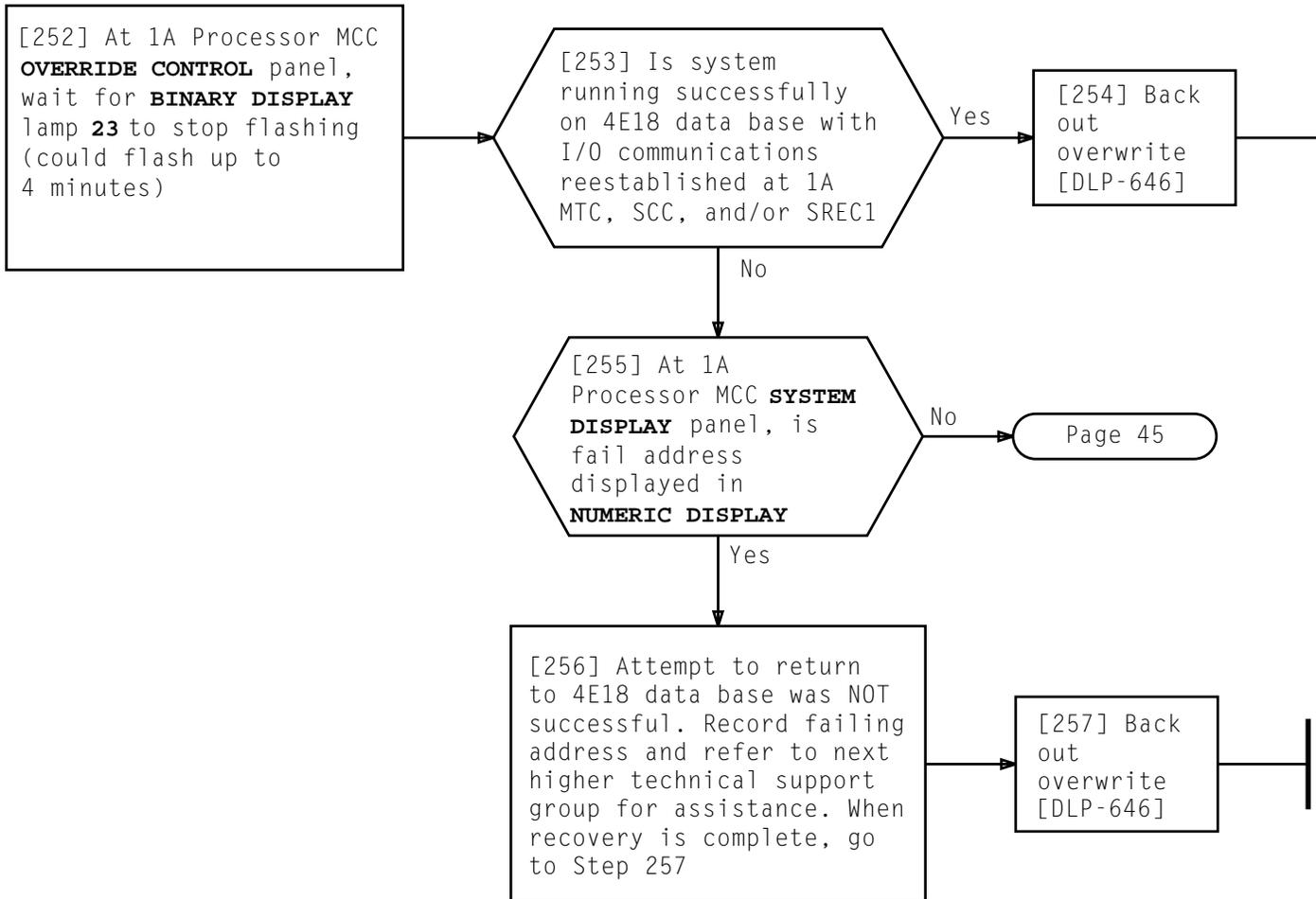
[242] At 1A Processor MCC **PROCESSOR CONFIGURATION SEQUENCER** panel, depress **DISABLE AUTO PC** key (lamp off). PC STATE COUNTERS progress through pump states until good configuration is found

[243] Wait for either **NUMERIC DISPLAY** to start counting or **REPEATED PC** lamp comes on. Start timing the backout

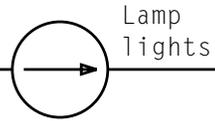


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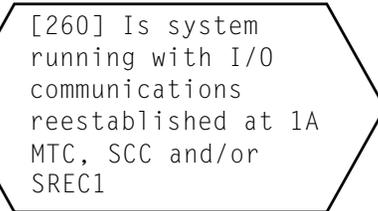




[258] At **MANUAL INTERRUPT PROGRAM REQUEST** panel, depress **RESTORE MTC I/O** key

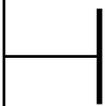
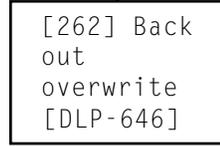
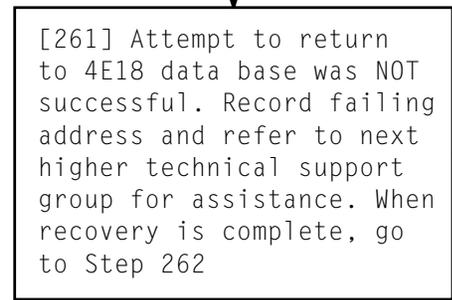


[259] Depress **ACTIVATE - PROGRAM REQUEST** key



Yes

No



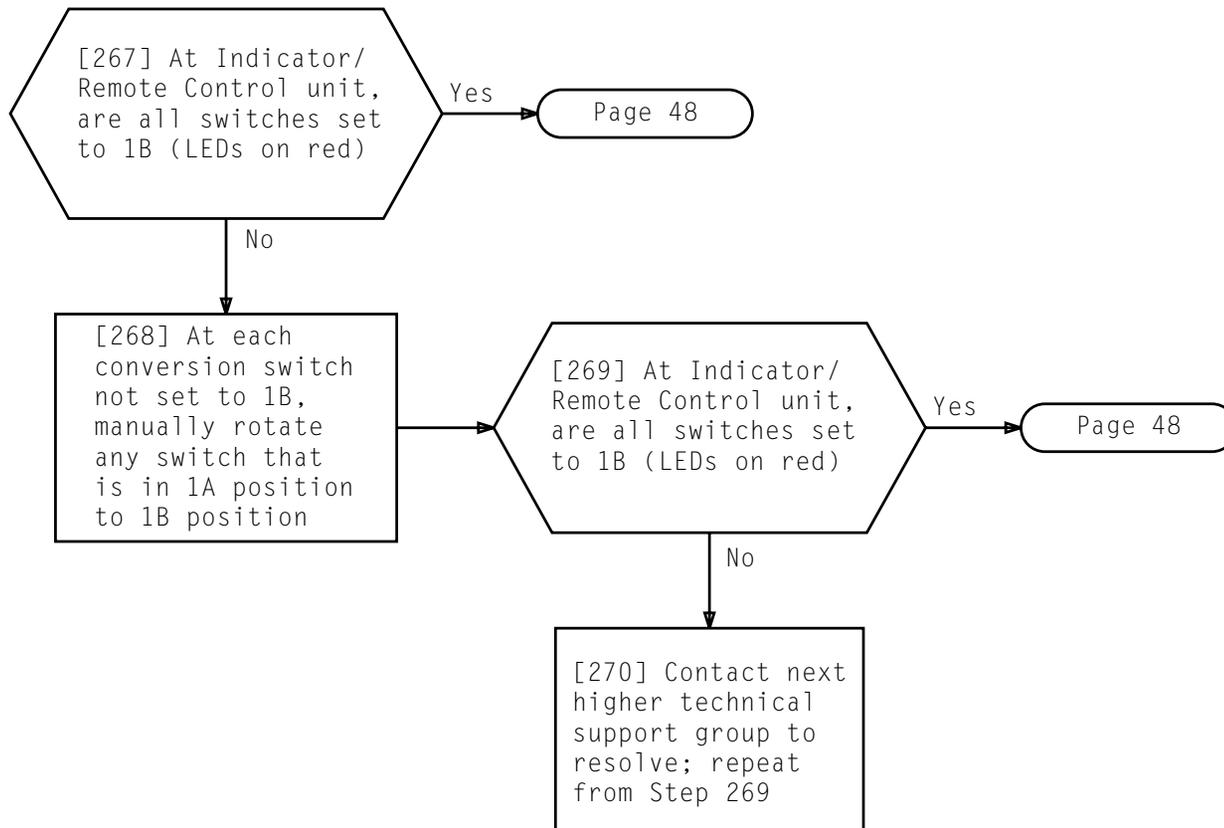
[263] **SYSTEM IS RUNNING ON  
4E19 GENERIC WITH 1B PROCESSOR.  
1B MCC CLEANUP WILL PROCEED**

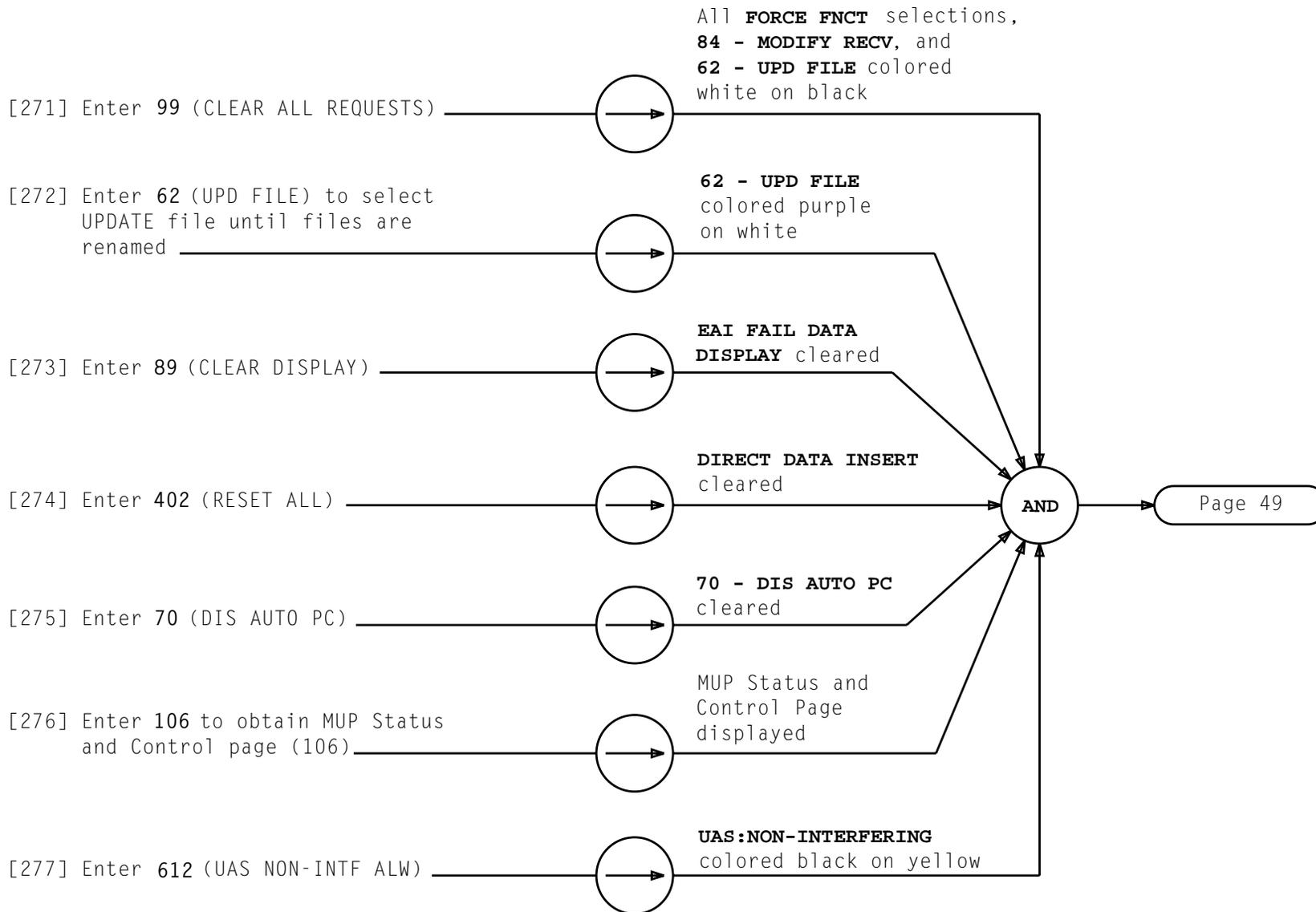
[264] At 1B Processor MCC  
terminal, enter 1x where x  
is selected CC (0 or 1) [All  
**FORCE FNCT** selections (except  
CC x), colored purple on  
white. CC x colored white on  
black]

[265] Technician 1: Power up  
API 1 [DLP-588]

[266] Technician 1: Power cycle  
DUS 1 [DLP-589].  
Technician 1 may be  
released after this  
step is completed







[278] On workstation where matchers were set up, in UCD window, enter **msave** and then continue

[279] At 1B MTC terminal, enter message **UPD:COMMIT;UPDFILE!** to rename UPDATE file to NORMAL file [NOTE 18]; ensure **UPD:COMMIT COMPLETED TO UPDFILE** message received. Contact next higher technical support group if not received

[280] *If backout is required after this point, perform NTP-009* [NOTE 19]

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

[282] Enter **62** (UPD FILE) (**62 - UPD FILE** colored white on black)

[283] Enter **106** to obtain MUP Status and Control Page (106)

[284] Enter **612**  
(UAS NON-INTF ALW)

In **UAS MODE** section,  
**UAS: NON-INTERFERING**  
is displayed

AND

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#### NOTES

18. Step 279 is being performed to rename UPDATE file to NORMAL file and precedes the actual commitment to 1B Processor
19. Commitment to 1B Processor takes place when the NORMAL file is written to the UPDATE file

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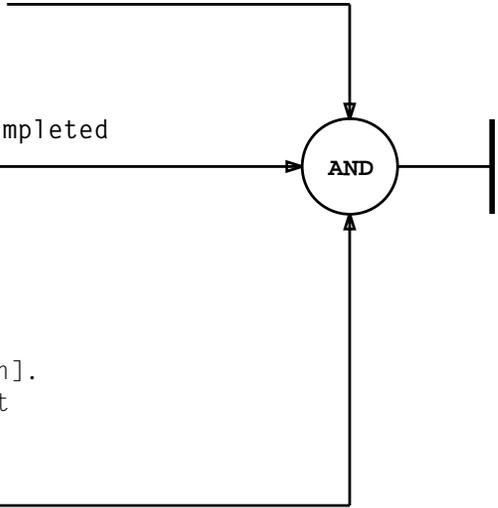
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[285] See NOTE 20. Enter 118 to obtain 1B Processor System Display page (118)

[286] At workstation where msave command was entered, ensure (msave): Dump Completed message was received

[287] At 1A Processor MCC **SYSTEM DISPLAY** panel, depress **NUMERIC DISPLAY SELECTION - CONTENTS OF MEMORY** and/or **BINARY DISPLAY SELECTION - CONTENTS OF MEMORY** key(s) [lamp(s) on]. Report if 1A Processor did or did not go into stand-alone mode to next higher technical support group. This is for information only [NOTE 21]



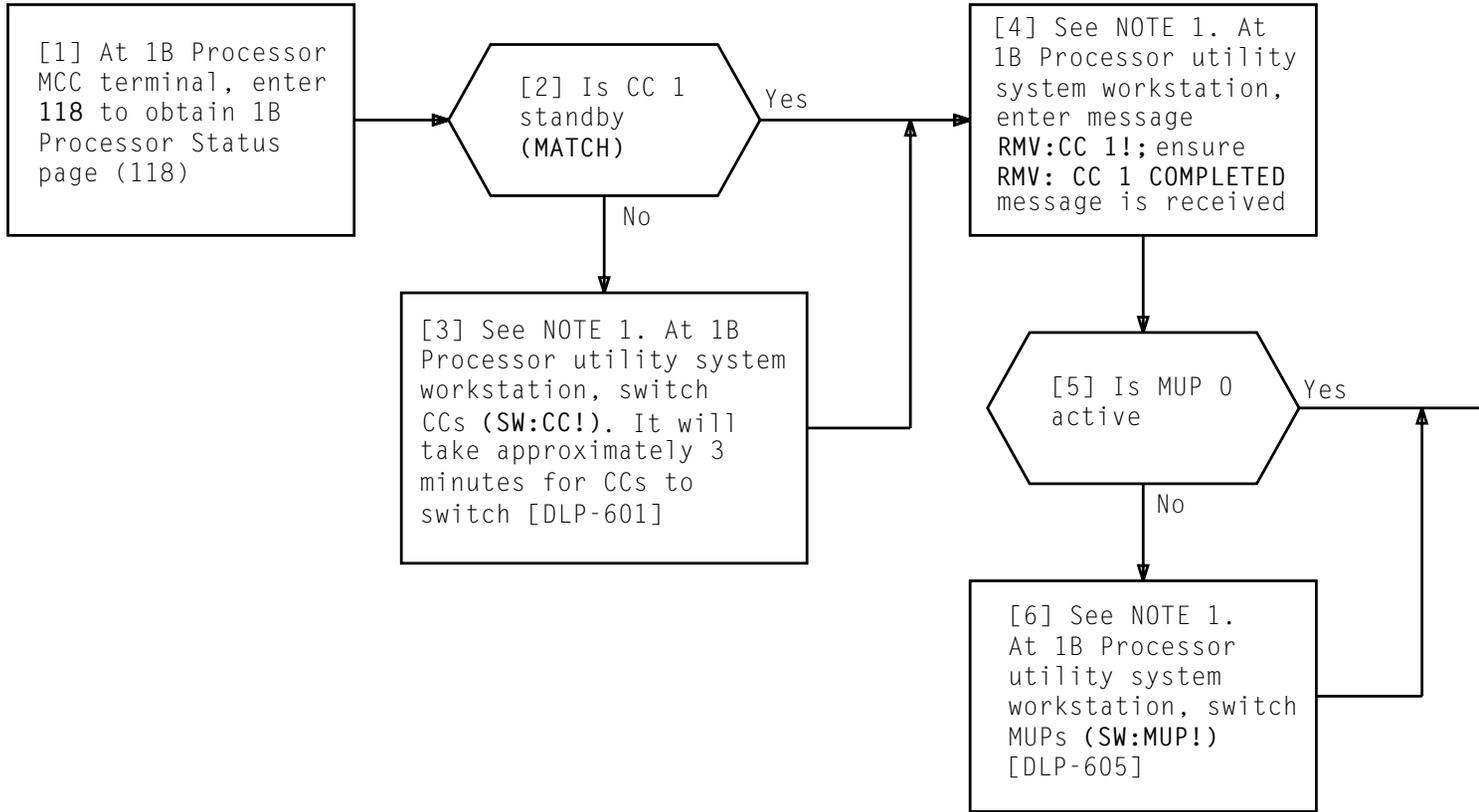
NOTES

- 20. 118 page is to be used to monitor system operation and must NOT be covered by any other screen
- 21. Counting in **NUMERIC DISPLAY** indicates 1A Processor is cycling. If counting, 1A Processor is in stand-alone mode. If not counting, 1A Processor is not in stand-alone mode. If **NUMERIC DISPLAY** does not count or stops counting later, do not attempt to restart

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NOTE 1 This step must be performed on-site	
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**REMOVE STANDBY CC 1 AND ENSURE MUP 0 IS ACTIVE**

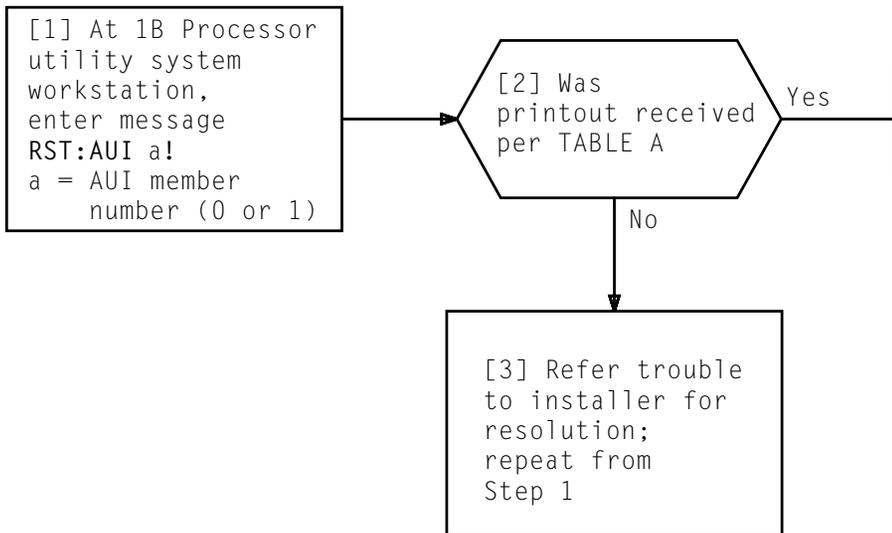


TABLE A	
MESSAGE NUMBER	OUTPUT MESSAGES
1	DGN:AUI a COMPLETED CATP (00000000 00060b00) MSG COMPL TEST:AUI a ATP RST:AUI a COMPLETED
a = AUI member number (0 or 1) b = 0 (if no AUBs are OOS) or 1 (if AUB 0 is OOS) or 2 (if AUB 1 is OOS)	

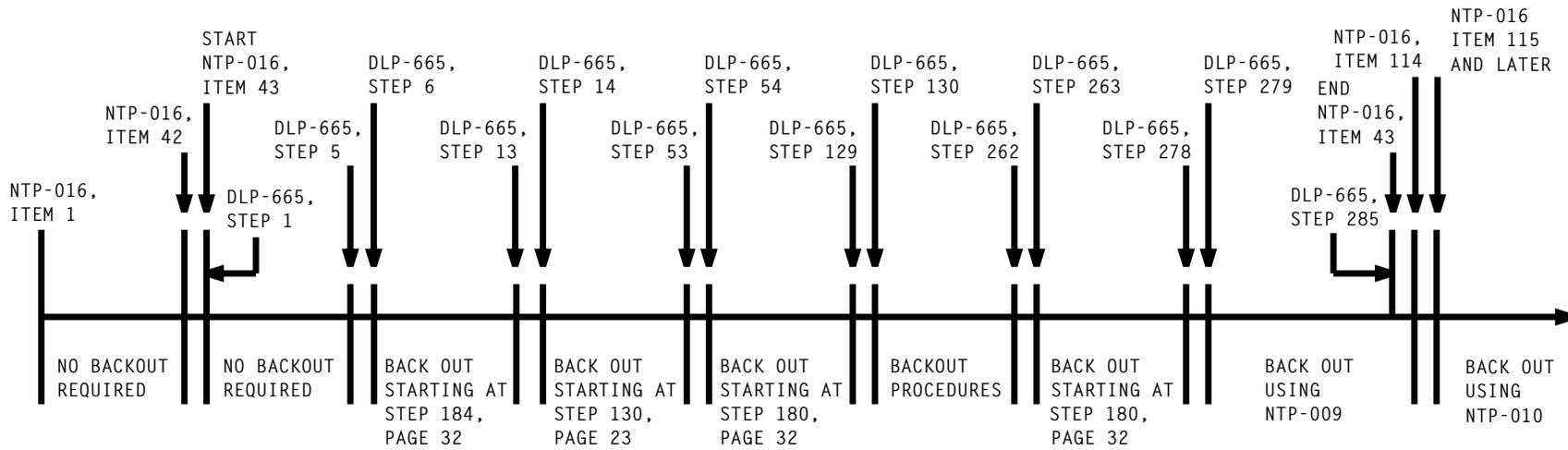
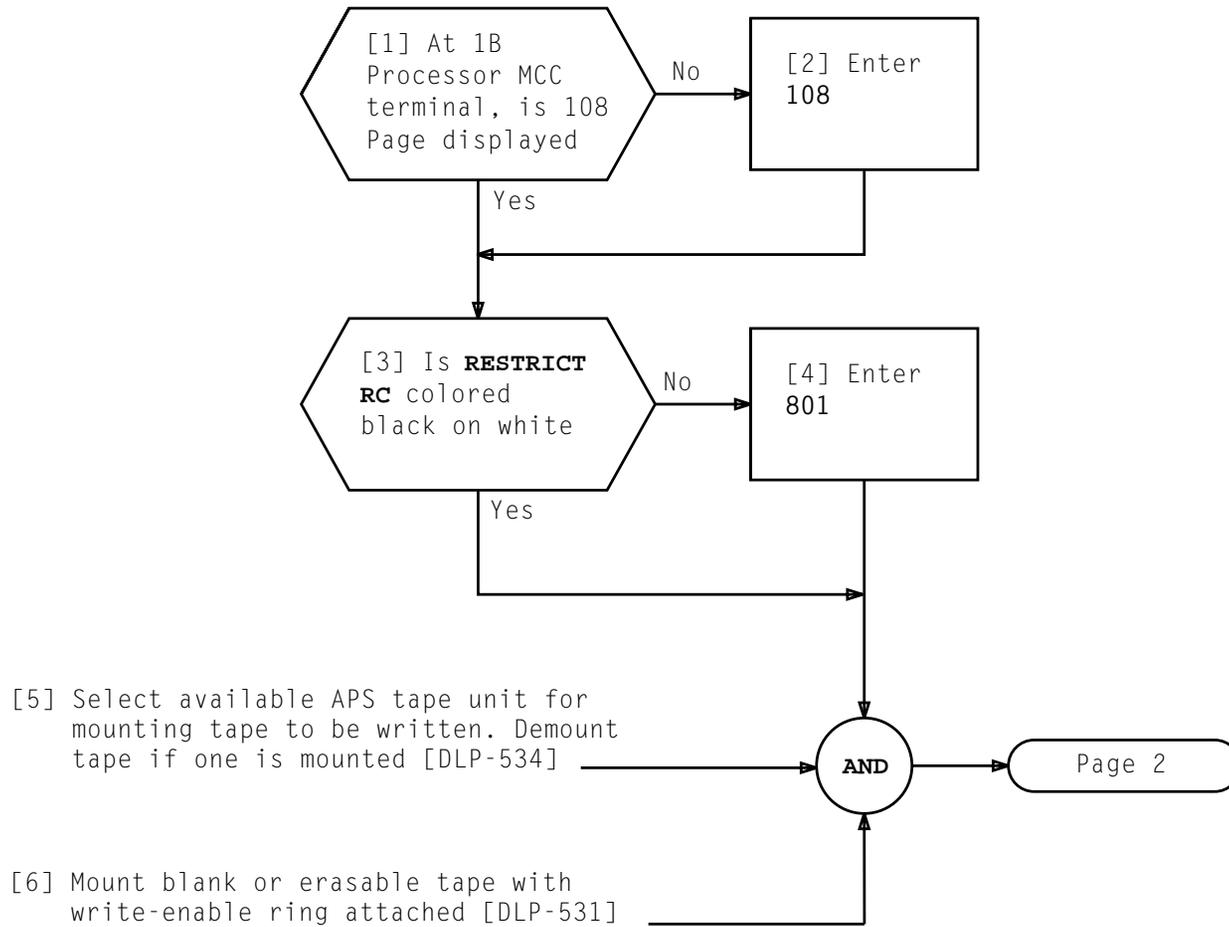
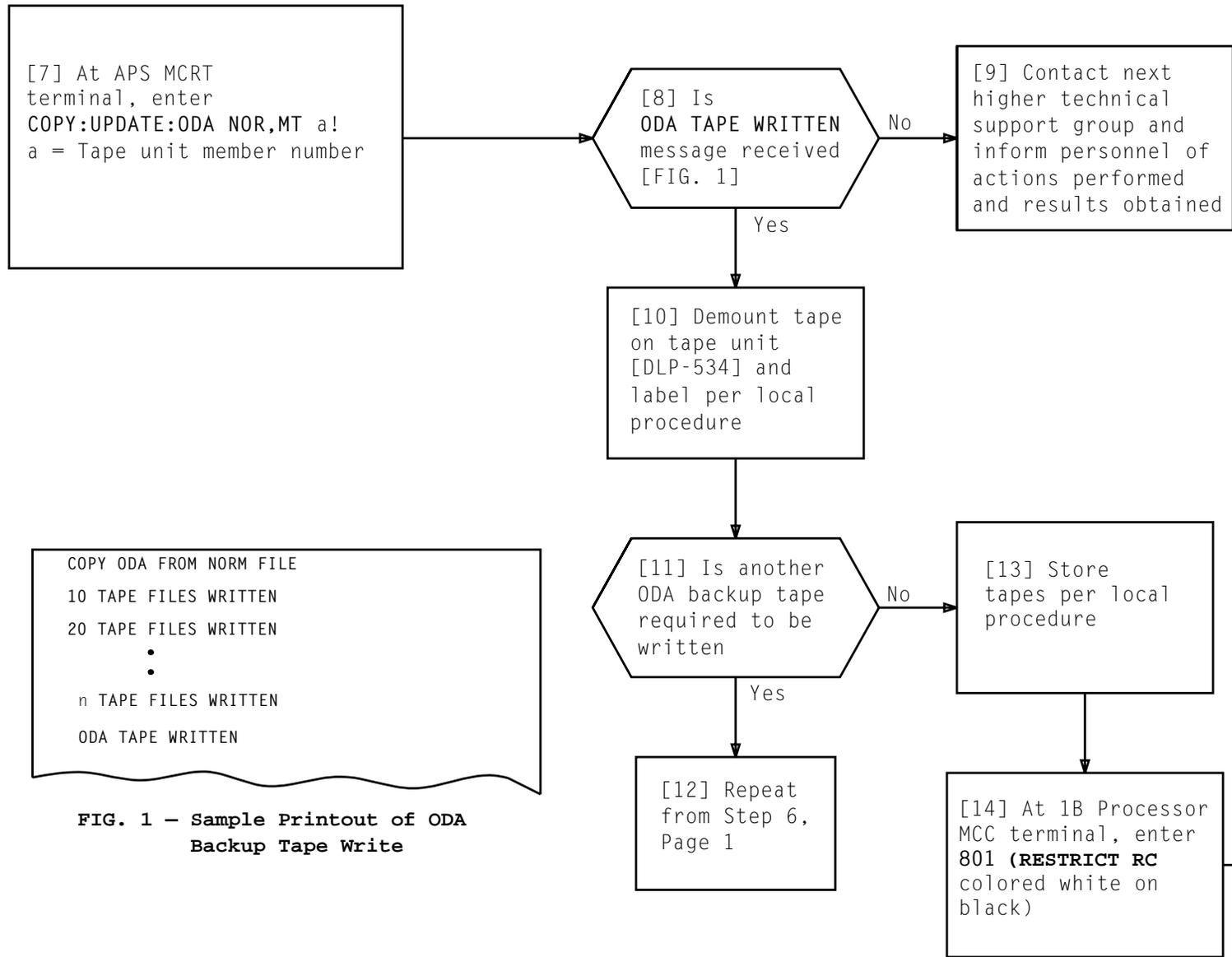


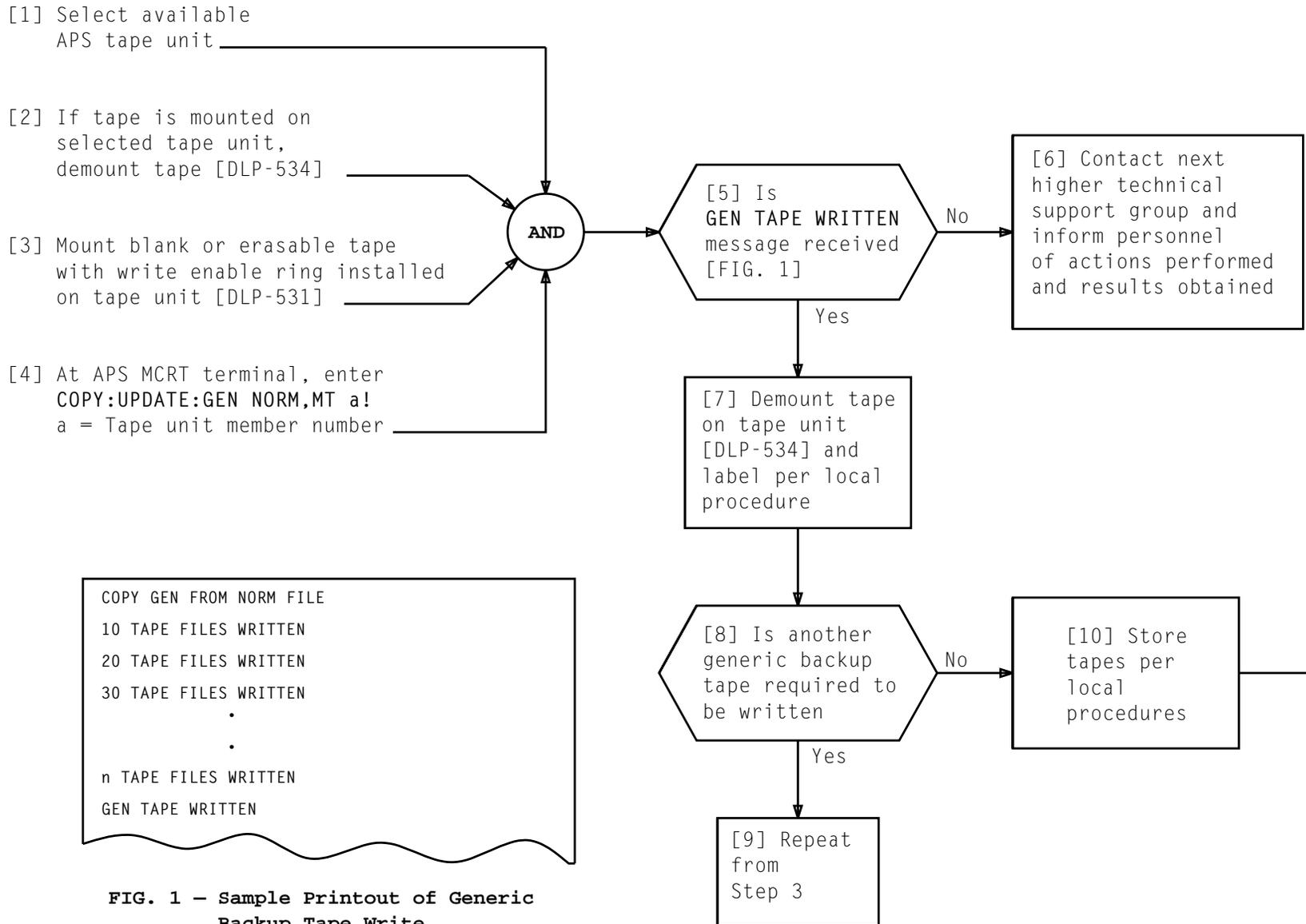
FIG. 1 - Backout Sequence





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

FIG. 1 - Sample Printout of ODA Backup Tape Write



ITEM	ISSUE	ITEM	ISSUE								
IXL-001		DLP-526		DLP-565		DLP-607		DLP-643			
NTP-002		DLP-527		DLP-566		DLP-608		DLP-644			
NTP-003		DLP-528		DLP-567		DLP-609		DLP-645			
NTP-004		DLP-529		DLP-568		DLP-610		DLP-646			
NTP-005		DLP-530		DLP-570		DLP-611		DLP-653			
NTP-006		DLP-531		DLP-571		DLP-612		DLP-654			
NTP-007		DLP-532		DLP-572		DLP-613		DLP-655			
NTP-008		DLP-533		DLP-574		DLP-614		DLP-656			
NTP-009		DLP-534		DLP-575		DLP-615		DLP-657			
NTP-010		DLP-535		DLP-577		DLP-616		DLP-658			
NTP-011		DLP-536		DLP-580		DLP-617		DLP-659			
NTP-012		DLP-537		DLP-582		DLP-618		DLP-660			
NTP-013		DLP-538		DLP-583		DLP-619		DLP-661			
NTP-014		DLP-539		DLP-584		DLP-620		DLP-662			
NTP-016		DLP-540		DLP-585		DLP-621		DLP-663			
NTP-017		DLP-541		DLP-586		DLP-622		DLP-664			
DLP-500		DLP-543		DLP-588		DLP-623		DLP-665			
DLP-501		DLP-544		DLP-589		DLP-624		DLP-666			
DLP-502		DLP-545		DLP-590		DLP-625		DLP-668			
DLP-503		DLP-546		DLP-591		DLP-626		DLP-669			
DLP-504		DLP-547		DLP-592		DLP-627		DLP-670			
DLP-505		DLP-548		DLP-593		DLP-628		DLP-671			
DLP-506		DLP-549		DLP-594		DLP-629		CKL-891			
DLP-507		DLP-550		DLP-595		DLP-630		TNG-893			
DLP-508		DLP-552		DLP-596		DLP-631					
DLP-509		DLP-553		DLP-597		DLP-632					
DLP-510		DLP-554		DLP-598		DLP-633					
DLP-511		DLP-555		DLP-599		DLP-635					
DLP-512		DLP-556		DLP-600		DLP-636					
DLP-513		DLP-557		DLP-601		DLP-637					
DLP-514		DLP-558		DLP-602		DLP-638					
DLP-515		DLP-559		DLP-603		DLP-639					
DLP-516		DLP-562		DLP-604		DLP-640					
DLP-517		DLP-563		DLP-605		DLP-641					
DLP-518		DLP-564		DLP-606		DLP-642					

● REVISED OR ADDED ITEM

□ CANCELED ITEM

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**CHECKLIST**