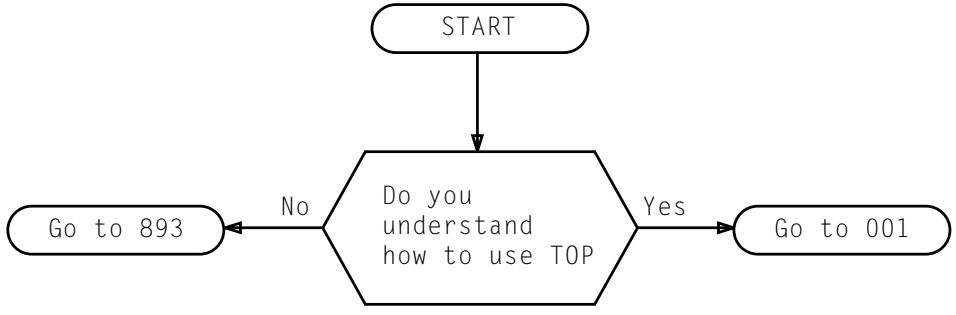
Lucent Technologies
Bell Labs Innovations

Task Oriented Practice (TOP)

4ESS™ Switch
Alternate Signaling Transport Network Growth



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Developed by:

Lucent Technologies Systems for Network Operators Switching and Access Information Development
Lucent Technologies is the successor to the business and assets of AT&T Network Systems business unit.

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

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

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

		RESPONSIBILITY	
	WARNING: An antistatic wrist strap must be worn to prevent electrostatic discharge and possible damage to circuit packs		
	NOTES: 1. Overwrites occur while using XAPP. These overwrites must be logged in at the end of each growth shift per local practices 2. If XAPP overwrites were used during a shift, item 71 must be performed at the end of that shift 3. A listing of XAPP error codes and an explanation of each is listed in DLP-535. These error codes may be received during XAPP I/O message processing 4. These growth procedures must be used with the other 4ESS™ switch office installing ASTN		
1	Perform Preliminary Installation Activities	INST	—
2	Perform Preliminary TELCO Activities		
	Determine the Network Switch Number (NSN) of Victim 4ESS Switch and All It's Helper Switches, and Record for Later Use. Enter (OP:BUNSTAT:ALL!) *Response:* A list of all NSD offices and their CLLI codes and NSNs will be printed. This listing will be several pages in length and will take approximately 10 minutes to print	TELCO	—
3	Ensure All Units Are in Service (OP:OOSUNITS!)	TELCO	DLP-550
4	At 1B MTC Terminal, Enter (INH:MACLI,CLASS MTCE;ALL!) To Inhibit REX	TELCO	—
5	Determine From Office Records IOUS Member Number Assignments	TELCO	—
	NOTE: To enter the input messages for this procedure, a terminal that is not dependent upon the two growth IOUSs should be used; otherwise, messages will have to be inputted from different terminals as an IOUS is taken in and out of service		
6	Enter Audit Message 17 to Check Input/Output Frame (AUD:NUM 17!)	TELCO	DLP-551
7	Restore IOUS To Be Grown (RST:IOUS a!)	TELCO	DLP-537
8	Determine if Library Package Containing Program XAPP Resides in File System (OP:LIBSTAT,FS!)	TELCO	DLP-500
	(Continued on Page 2)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
9	If Library Package Containing Program XAPP Does Not Reside in File System:		
	1. Mount Tape Containing Program XAPP on 3B Tape Unit or Digital Audio Tape (DAT) Unit	TELCO	DLP-501
	2. Load Library Tape in File System:	—	—
	A. For Office Loading an Original Library Tape (LOAD:LIBSYS,FS;TAPE:TD a!)	TELCO	DLP-502
	B. For Office Loading a Backup Library Tape	TELCO	DLP-503
10	Execute XAPP Library Program (EX:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!)	TELCO	DLP-505
11	Allow Library Message Channel:		
	A. If Inputting Message From 1B MTC Terminal (ALW:LIBMSG:CLIENT 0!)	TELCO	DLP-506
	B. If Inputting Message From Channel Other Than MTC (ALW:LIBMSG:CLIENT 0,CHAN a!)	TELCO	DLP-506
	NOTE: XAPP Library Program times out after 2 hours of inactivity. If XAPP does time out, Items 10 and 11 must be performed before using XAPP input messages		
12	Inhibit Recent Change:		
	1. At 1B Processor MCC Terminal, Enter 108 To Obtain System Status Page (108)	TELCO	—
	2. If **801 - RESTRICT RC** Is Colored White on Black, Enter 801 (**801 - RESTRICT RC** Colored Black on White) *Response:* INH:RC MSG,RESTRICTED TO MOC	TELCO	—
13	Remove Growth IOUS From Service (RMV:IOUS a!)	TELCO	DLP-552
14	Remove Power With Power Switch (Growth Associated IOUS)(IOMP 0)	TELCO	DLP-543
15	At IOMP 0, Replace DMAC Circuit Packs With New **FG85, FG86**, and **FG87** Circuit Packs (See DLP-545 for Circuit Pack Location)	INST	—
16	Change and Verify Hardware Version Translation for New Circuit Packs	TELCO	DLP-536
17	At Growth Associated IOUS Power Switch, Depress **ON** Switch Leaving **OFF** Switch in **ROS**	TELCO	—
18	Diagnose IOMP 0(DGN:IOUS a,IOMP 0!)	TELCO	DLP-538
19	Verify Submember Equipage UNEQ for Growth Input/Output Microprocessor (IOMP 1) (VER:UTMN:IOUS a,SUBMEM 1,SME!)	TELCO/INST	DLP-532

DO THE ITEMS BELOW IN THE ORDER LISTED · · · · · · · · · · · FOR DETAILS, GO TO			
	NOTE: Steps 20 through 24 are being performed to install the 3B Growth Unit (IOMP 1). If the office already has the growth shelf in place, skip to Step 25		
20	Remove Power With POWER Switch (Growth Associated IOUS)	TELCO	DLP-543
	CAUTION: Use extreme caution when removing fuses associated with the growth IOUS. If an incorrect fuse is removed, an office outage could occur		
21	Remove Power Conversion and Distribution (PCD) Frame Fuses for Growth Associated IOUS	TELCO	—
22	Install and Connect IOMP 1 (3B Growth Unit)	INST	—
23	Replace PCD Fuses Removed in Item 21	TELCO	—
24	At Growth Associated IOUS Power Switch, Depress **ON** Switch Leaving **OFF** Switch in **ROS**	TELCO	—
25	Change and Verify Submember Hardware Generation for Growth IOMP 1 (**SMHG=2**)	TELCO/INST	DLP-528
26	Change and Verify Submember Equipage Unequipped to Grow (Growth IOMP 1)	TELCO/INST	DLP-529
27	Diagnose Growth IOUS IOMP 1 (DGN:IOUS a, IOMP 1!)	TELCO	DLP-544
28	Restore Power Switch to Normal Position (Growth Associated IOUS)	TELCO/INST	DLP-534
29	Change and Verify Submember Equipage Grow to Special Growth (Growth IOMP) (IOMP 1)	TELCO/INST	DLP-530
30	Change and Verify Submember Equipage Special Growth to Operational (Growth IOMP) (IOMP 1)	TELCO/INST	DLP-531
31	Restore Growth IOMP 1 to Service (RST:IOUS a!)	TELCO/INST	DLP-537
32	Safe Point To Temporarily Stop This Procedure If Stopping, Perform Items 33 Through 35. Otherwise, Go to Item 43	TELCO/INST	—
33	Allow Recent Change:		
	1. At 1B Processor MCC Terminal, Enter 108 To Obtain System Status Page (108)	TELCO	—
	2. Enter 801 (**801 - RESTRICT RC** Colored White on Black) *Response:* ALW:RC MSG,MOC RESTRICTION RMVD	TELCO	—
34	Terminate Execution of XAPP Library Program (STOP:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!)	TELCO	DLP-523
35	At 1B MTC Terminal, Enter (ALW:MACLI,CLASS MTCE!)	TELCO	—
36	Stop Procedure for Now. Resume at Item 37 When Continuing	TELCO/INST	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
37	At 1B MTC Terminal, Enter (**INH:MACLI,CLASS MTCE;ALL!**) To Inhibit REX	TELCO	—
38	Determine if Library Package Containing Program XAPP Resides in File System (**OP:LIBSTAT,FS!**)	TELCO	DLP-500
39	If Library Package Containing Program XAPP Does Not Reside in File System:		
	1. Mount Tape Containing Program XAPP on 3B Tape Unit or Digital Audio Tape (DAT) Unit	TELCO	DLP-501
	2. Load Library Tape in File System:	—	—
	A. For Office Loading an Original Library Tape (**LOAD:LIBSYS,FS;TAPE:TD a!**)	TELCO	DLP-502
	B. For Office Loading a Backup Library Tape	TELCO	DLP-503
40	Execute XAPP Library Program (**EX:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!**)	TELCO	DLP-505
41	Allow Library Message Channel:		
	A. If Inputting Message From 1B MTC Terminal (**ALW:LIBMSG:CLIENT 0!**)	TELCO	DLP-506
	B. If Inputting Message From Channel Other Than MTC (**ALW:LIBMSG:CLIENT 0,CHAN (MTC,a)!**)	TELCO	DLP-506
	NOTE: XAPP Library Program times out after 2 hours of inactivity. If XAPP does time out, Items 40 and 41 must be performed before using XAPP input messages		
42	Inhibit Recent Change:	TELCO	—
	1. At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	TELCO	—
	2. If **801 - RESTRICT RC** Is Colored White on Black, Enter **801** (**801 - RESTRICT RC** Colored Black on White) *Response:* INH:RC MSG,RESTRICTED TO MOC	TELCO	—
43	Repeat Steps 13 Through 32 for Next Growth Associated IOUS	TELCO	—
44	Remove Power From Grown IOMP 1:		
	1. Remove Both Grown IOMPs From Service (**RMV:IOUS a,IOMP 1!**)	TELCO	DLP-511
	2. Power Down Both Grown IOMPs:	TELCO	DLP-512
	(Continued on Page 5)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
45	For Each Growth IOUC:		
	NOTE: Items 45.1 and 45.2 must be performed without interruption		
	1. Change and Verify Channel Data	TELCO/INST	DLP-509
	2. Change and Verify Channel Equipage Unequipped to Grow	TELCO/INST	DLP-510
	3. Repeat Steps 45.1 and 45.2 for Each Growth IOUC	TELCO/INST	—
46	Safe Point To Temporarily Stop This Procedure. If Stopping, Perform Items 47 Through 50. Otherwise, Go to Item 57	TELCO/INST	—
47	Allow Recent Change:		
	1. At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	TELCO	—
	2. Enter **801** (**801 - RESTRICT RC** Colored White on Black) *Response:* ALW:RC MSG,MOC RESTRICTION RMVD	TELCO	—
48	Terminate Execution of XAPP Library Program (STOP:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!)	TELCO	DLP-523
49	At 1B MTC Terminal, Enter (ALW:MACLI,CLASS MTCE!)	TELCO	—
50	Stop Procedure for Now. Resume at Item 51 When Continuing	TELCO/INST	—
51	At 1B MTC Terminal, Enter (INH:MACLI,CLASS MTCE;ALL!) To Inhibit REX	TELCO	—
52	Determine if Library Package Containing Program XAPP Resides in File System (OP:LIBSTAT,FS!)	TELCO	DLP-500
53	If Library Package Containing Program XAPP Does Not Reside in File System:		
	1. Mount Tape Containing Program XAPP on 3B Tape Unit or Digital Audio Tape (DAT) Unit	TELCO	DLP-501
	2. Load Library Tape in File System:	—	—
	A. For Office Loading an Original Library Tape (LOAD:LIBSYS,FS;TAPE:TD a!)	TELCO	DLP-502
	B. For Office Loading a Backup Library Tape	TELCO	DLP-503
54	Execute XAPP Library Program (EX:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!)	TELCO	DLP-505
	(Continued on Page 6)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
55	Allow Library Message Channel:		
	A. If Inputting Message From 1B MTC Terminal (**ALW:LIBMSG:CLIENT 0!**)	TELCO	DLP-506
	B. If Inputting Message From 1B MTC Terminal Other Than MTC **(ALW:LIBMSG:CLIENT 0,CHAN (MTC,a)!)**	TELCO	DLP-506
	NOTE: XAPP Library Program times out after 2 hours of inactivity. If XAPP does time out, Items 54 and 56 must be performed before using XAPP input messages		
56	Inhibit Recent Change:	TELCO	—
	1. At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	TELCO	—
	2. If **801 - RESTRICT RC** Is Colored White on Black, Enter 801 (**801 - RESTRICT RC** Colored Black on White) *Response:* INH:RC MSG,RESTRICTED TO MOC	TELCO	—
57	Install New Paradyne 3511 Data Service Units (DSUs) With Interframe Cables	INST	—
58	Power Up Data Service Units, and Test Major Alarm	INST	—
59	Test Fan Minor Alarm On Growth Shelf Located In DFA	INST	—
60	Connect Cables From DSU(s) to I/O Frame for All Growth IOUCs	INST	—
61	Verify or Install TN82B Circuit Packs for All Growth IOUCs in Grown IOMP 1 (See DLP-545 for Circuit Pack Location)	TELCO/INST	—
62	Label Each DSU and TN82B Circuit Pack	TELCO/INST	DLP-553
63	Restore Power to Growth IOMP (IOMP 1)	TELCO	DLP-514
64	Grow IOUCs in IOMP 1: (3B Growth Unit)		
	1. Diagnose One Growth IOUC **(DGN:IOUS a,IOUC b!)**	TELCO/INST	DLP-515
	2. Change and Verify Channel Equipage Grow to Special Growth	TELCO/INST	DLP-516
	3. Change and Verify Channel Equipage Special Growth to Operational	TELCO/INST	DLP-517
	4. For Each Port to be Activated:		
	NOTE: Items 64.4.1 and 64.4.2 must be performed without interruption		
	1. Change and Verify Data for Growth IOUC Port Data	TELCO/INST	DLP-518

64 (Contd)	2. Change and Verify Port Data Equipage Unequipped to Grow	TELCO/INST	DLP-519
	3. Change and Verify Port Data Equipage Grow to Special Growth	TELCO/INST	DLP-520
	4. Change and Verify Port Data Equipage Special Growth to Operational	TELCO/INST	DLP-521
	5. Repeat From 64.1 for Each Growth IOUC	TELCO/INST	—
	NOTE: A few BLMs may result since the IOUCs are still out-of-service		
65	Diagnose Each Growth IOUCs (DGN:IOUS a,IOUC b!)	TELCO/INST	DLP-515
66	Restore Each Grown IOMP 1 to Service (RST:IOUS a,IOMP b!)	TELCO/INST	DLP-522
67	Stop This Procedure. Determine if the Facility Performance Analysis System (FPAS) Link has been installed. If the FPAS link has been installed continue with Step 68. If the FPAS link has not been installed Go to NTP-005 to install the link.	TELCO	—
68	Terminate Execution of XAPP Library Program (STOP:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!)	TELCO	DLP-523
69	Verify Local Loop for Grown IOUC Ports (DGN:IOUS a,IOUC b:PH 93!) **NOTE:** This local loop verification does not apply to grown port of FPAs	TELCO/INST	DLP-539
70	Depress Local Loop (LL) Button on Each DSU	INST	—
	NOTE: After a few minutes, expect a BLM associated with a disconnect message on each channel		
71	Restore Each Grown Channel to Service (RST:IOUS a,IOUC b!)	TELCO	DLP-513
72	Allow Recent Change:		
	1. At 1B Processor MCC Terminal, Enter 108 to Obtain System Status Page (108)	TELCO	—
	2. Enter 801 (**801 - RESTRICT RC** Colored White on Black) *Response:* ALW:RC MSG,MOC RESTRICTION RMVD	TELCO	—
73	At 1B MTC Terminal, Enter (ALW:MACLI,CLASS MTCE!)	TELCO	—
74	Write New ODA TWRP TAPE	TELCO	DLP-524
75	Stop This Procedure. When Continuing This Procedure, Go to NTP-004 to Activate ASTN Links	TELCO/INST	—

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

	NOTES: 1. The procedures in this NTP must be coordinated by the Network Control Center (NCC) and the 4ESS™ switch offices adding ASTN 2. This procedure must be performed during light traffic periods		
1	At 1B MTC Terminal, Enter **(INH:MACLI,CLASS MTCE;REX!)** To Inhibit REX	TELCO	—
2	Inhibit Recent Change:		
	1. At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	TELCO	—
	2. If **801 - RESTRICT RC** Is Colored White on Black, Enter 801 (**801 - RESTRICT RC** Colored Black on White) *Response:* INH:RC MSG,RESTRICTED TO MOC	TELCO	—
3	Ensure Paradyne 3511 Data Service Unit(s) Are Connected to the Network	TELCO	—
4	Release **Local Loop** (LL) Button if Depressed on Each DSU	TELCO	—
5	Set DSU to Remote Loop Setting By Pressing the **RL** Switch	TELCO	—
	NOTE: The **RL** indicator lights yellow to indicate a remote digital loopback has been requested of the remote DSU		—
6	Verify Remote Loop for Grown IOUC Ports (**DGN:IOUS** a,**IOUC** b:**PH 92!**)	TELCO	DLP-540
7	Release **RL** Button to Remove the Remote Loop	TELCO	—
8	Remove Coterminous 4.8 kbps Links From Service	TELCO	DLP-546
9	Update Translator for ASTN Links (**RC:MISC;FHT,FTA:** a,b,c,d,e!)	TELCO	DLP-541
10	Perform Audit Message 48 (**AUD:NUM 48!**)	TELCO	DLP-547
11	Identify ASTN Link Information (**OP:BUNSTAT!**)	TELCO	DLP-548
12	Perform Update on ASTN Links (**UPD:BUNSTAT!**)	TELCO	DLP-549
13	Verify IOUC Channel/Link (**OP:SCHAN;LINKSTAT!**)	TELCO	DLP-542
14	Restore All IOUC Channels to Service (**RST:IOUS** a,**IOUC** b!)	TELCO	DLP-513
15	Verify Connectivity From IOUC Port 1 to Far End Connection (**OP:SCHAN;LINKSTAT!**)	TELCO	DLP-542
	(Continued on Page 2)		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
16	Allow Recent Change:		
	1. At 1B Processor MCC Terminal, Enter 108 To Obtain System Status Page (108)	TELCO	—
	2. Enter 801 (**801 - RESTRICT RC** Colored White on Black) *Response:* ALW:RC MSG,MOC RESTRICTION RMVD	TELCO	—
17	At 1B MTC Terminal, Enter (ALW:MACLI,CLASS MTCE; REX!)	TELCO	—
18	Write New ODA TWRP Tape	TELCO	DLP-524

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

	NOTES: 1. If Facility Performance Analysis System (FPAS) links are being added to an office already equipped with ASTN perform Steps 1 through 21 on NTP-005 2. If FPAS links are being added to an office that is being equipped with ASTN complete Steps 1 through 21 on NTP-005 and then go to Step 68 on NTP-003 3. Before connecting the link, notify the regional Network Control Center (NCC) that the SCC1 channel will be temporarily out of service 4. The following Steps are to be performed for FPAS 5. Steps 1 through 7 are to execute XAPP Library Program to allow FPAS growth if presently not activated		
1	Inhibit Recent Change:		
	1. At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	TELCO	—
	2. If **801 - RESTRICT RC** Is Colored White on Black, Enter 801 (**801 - RESTRICT RC** Colored Black on White) *Response:* INH:RC MSG,RESTRICTED TO MOC	TELCO	—
2	At 1B MTC Terminal, Enter **(INH:MACLI,CLASS MTCE;ALL!)** To Inhibit REX	TELCO	—
3	Determine if Library Package Containing Program XAPP Resides in File System **(OP:LIBSTAT,FS!)**	TELCO	DLP-500
4	If Library Package Containing Program XAPP Does Not Reside in File System:		
	1. Mount Tape Containing Program XAPP on 3B Tape Unit or Digital Audio Tape (DAT) Unit	TELCO	DLP-501
	2. Load Library Tape in File System:	—	—
	A. For Office Loading an Original Library Tape (**LOAD:LIBSYS,FS;TAPE:TD a!**)	TELCO	DLP-502
	B. For Office Loading a Backup Library Tape	TELCO	DLP-503
5	Execute XAPP Library Program **(EX:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0, CLIENT 0!)**	TELCO	DLP-505
6	Allow Library Message Channel:		
	A. If Inputting Message From MTC Channel **(ALW:LIBMSG:CLIENT 0!)**	TELCO	DLP-506
	B. If Inputting Message From Channel Other Than MTC **(ALW:LIBMSG:CLIENT 0,CHAN a!)**	TELCO	DLP-506
	NOTE: XAPP Library Program times out after 2 hours of inactivity. If XAPP does time out, Items 5 and 6 must be performed before using XAPP input messages		

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
7	Allow Recent Change:		
	1. At 1B Processor MCC Terminal, Enter **108** To Obtain System Status Page (108)	TELCO	—
	2. Enter 801 (**801 - RESTRICT RC** Colored White on Black) *Response:* ALW:RC MSG,MOC RESTRICTION RMVD	TELCO	—
8	Determine Location of SCC1 Channel **IOUS a IOUC b** and Record	TELCO	—
9	Verify UNEQ State of Port 1 and 2 **(VER:UTMN:IOUS a,IOUC b!)** (SCC1 CE=OPER)	TELCO	DLP-554
10	Remove IOUC b From Service **(RMV:IOUS a,IOUC b!)**	TELCO	DLP-556
11	Remove Associated IOMP b From Service **(RMV:IOUS a,IOMP b!)**	TELCO	DLP-511
12	Power Down IOMP b:		
	A. If I/O is SD-5A049 or 5A052 Power Down IOMP	TELCO	DLP-555
	B. If I/O is SD-4C049 Power Down IOMP	TELCO	DLP-512
13	Connect FPAS Cables of Ports To Be Activated at IOUC **b**	INST	DLP-558
14	Connect Other End of FPAS Cable to the Data Service Unit (DSU) Patch Panel or Direct Connect It to the Data Kit Location	INST	—
15	Restore Power to IOMP b:		
	A. If I/O is SD-5A049 or 5A052	INST	DLP-564
	B. If I/O is SD-4C049	INST	DLP-514
	C. If I/O is SD-5A021 Depress: **PWR OFF CHANNEL** Key of Associated IOUC (SCCI Channel) (**PWR OFF CHANNEL** Lamp OFF)	INST	DLP-563
16	Items 16 and 19 Must Be Performed Without Interruption		
17	Change and Verify Port Data (PORT 1, 2)	TELCO	DLP-559
18	Change and Verify Port Equipage Unequipped to Grow (PORT 1, 2)	TELCO	DLP-560
19	Change and Verify Port Equipage Grow to Special Growth (PORT 1, 2)	TELCO	DLP-561
20	Change and Verify Port Equipage Special Growth to Operational (PORT 1, 2)	TELCO	DLP-562
21	Restore IOMP b to Service **(RST:IOUS a,IOMP b!)**	TELCO	DLP-522

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO			
22	Restore IOMP b to Service (RST:IOUS a,IOMP b!)	TELCO	DLP-557
23	The On-Site Workforce Should Contact Customer Test Center (CTC) To Verify FPAS Link Function	TELCO	—
	NOTE: Notify regional NCC that FPAS cables have been connected. Verify SCCI channel access		
24	Allow Recent Change:		
	1. At 1B Processor MCC Terminal, Enter 108 To Obtain System Status Page (108)	TELCO	—
	2. Enter 801 (**801 - RESTRICT RC** Colored White on Black) *Response:* ALW:RC MSG,MOC RESTRICTION RMVD	TELCO	—
25	At 1B MTC Terminal, Enter (ALW:MACLI,CLASS MTCE!)	TELCO	—
26	Write New ODA TWRP TAPE	TELCO	DLP-524

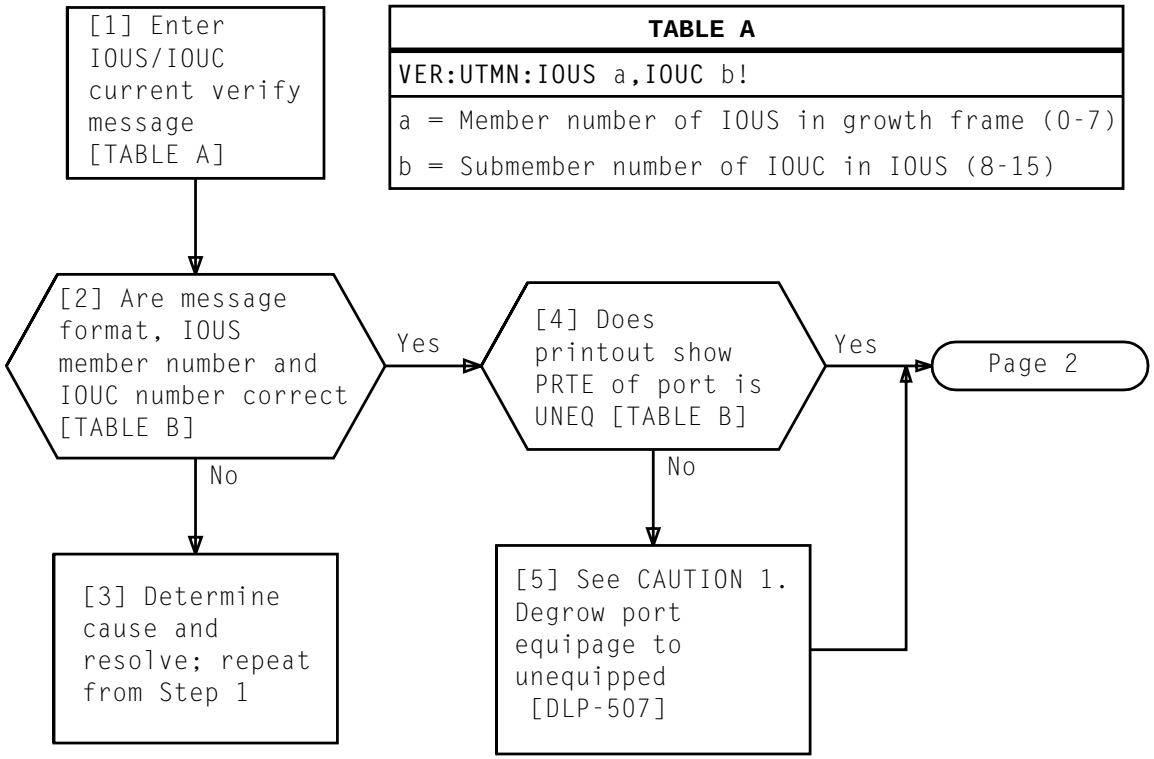


TABLE A

VER:UTMN:IOUS a,IOUC b!

a = Member number of IOUS in growth frame (0-7)

b = Submember number of IOUC in IOUS (8-15)

TABLE B

VER:UTMN,IOUS a,IOUC b COMPLETED

TRANSLATOR ADR=
TRANSLATOR SIZE=43

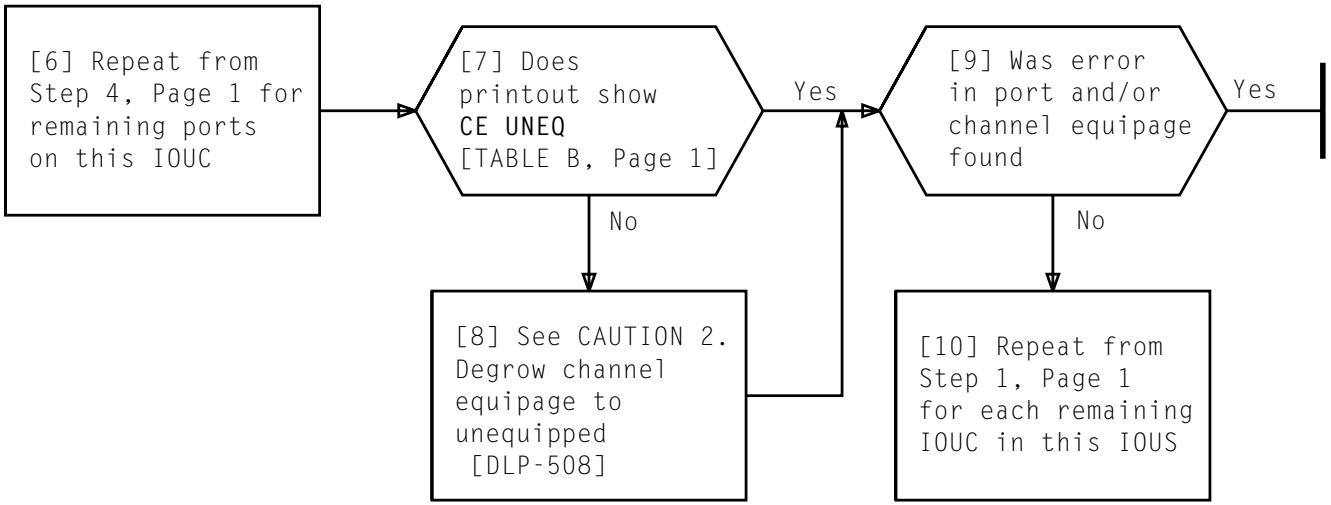
CURRENT DATA:
CE = UNEQ
•
•
•
•
•
PORT 0 ,PRTE=UNEQ
•
•
PORT 1,PRTE=UNEQ
•
•
PORT 2,PRTE=UNEQ
•
•

a = Member number

b = Submember number

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes

CLEAR ERROR IN PORT AND/OR CHANNEL EQUIPAGE



CAUTION 2

Depending on local procedures supervisory or TELCO engineering approval must be obtained prior to performing any data changes

CLEAR ERROR IN PORT AND/OR CHANNEL EQUIPAGE

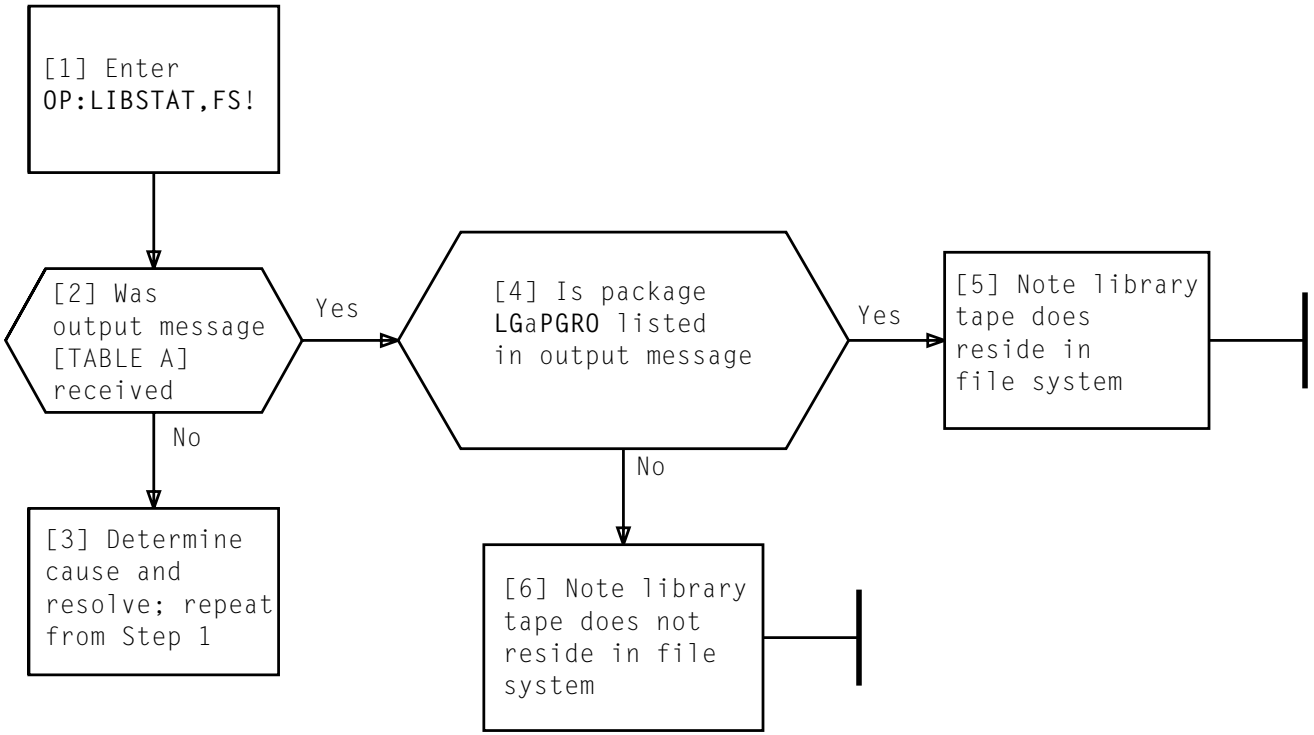


TABLE A

```
OP:LIBSTAT FS PF
OP:LIBSTAT COMPLETED
FS LIBRARY DIRECTORY

PKG NAME      ADDRESS      LENGTH
   .             .            .
   .             .            .
. . . . . . . . . . .
```

DETERMINE IF LIBRARY TAPE CONTAINING PROGRAM TO BE USED RESIDES IN FILE SYSTEM

[1] Office has

- 3B21D APS → Page 4
- 3B20D Model 2/3 APS → Page 3
- 3B20D Model 1 APS

[2] Open tape unit dust cover

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

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

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

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

AND → Page 2

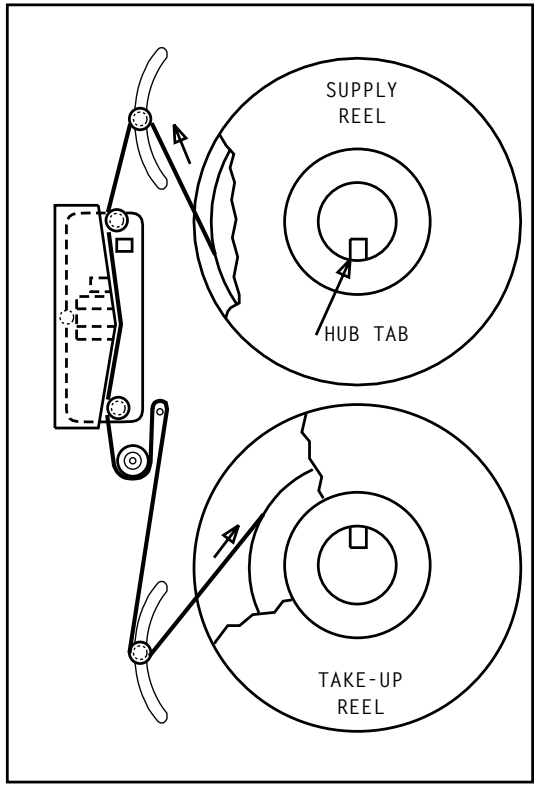
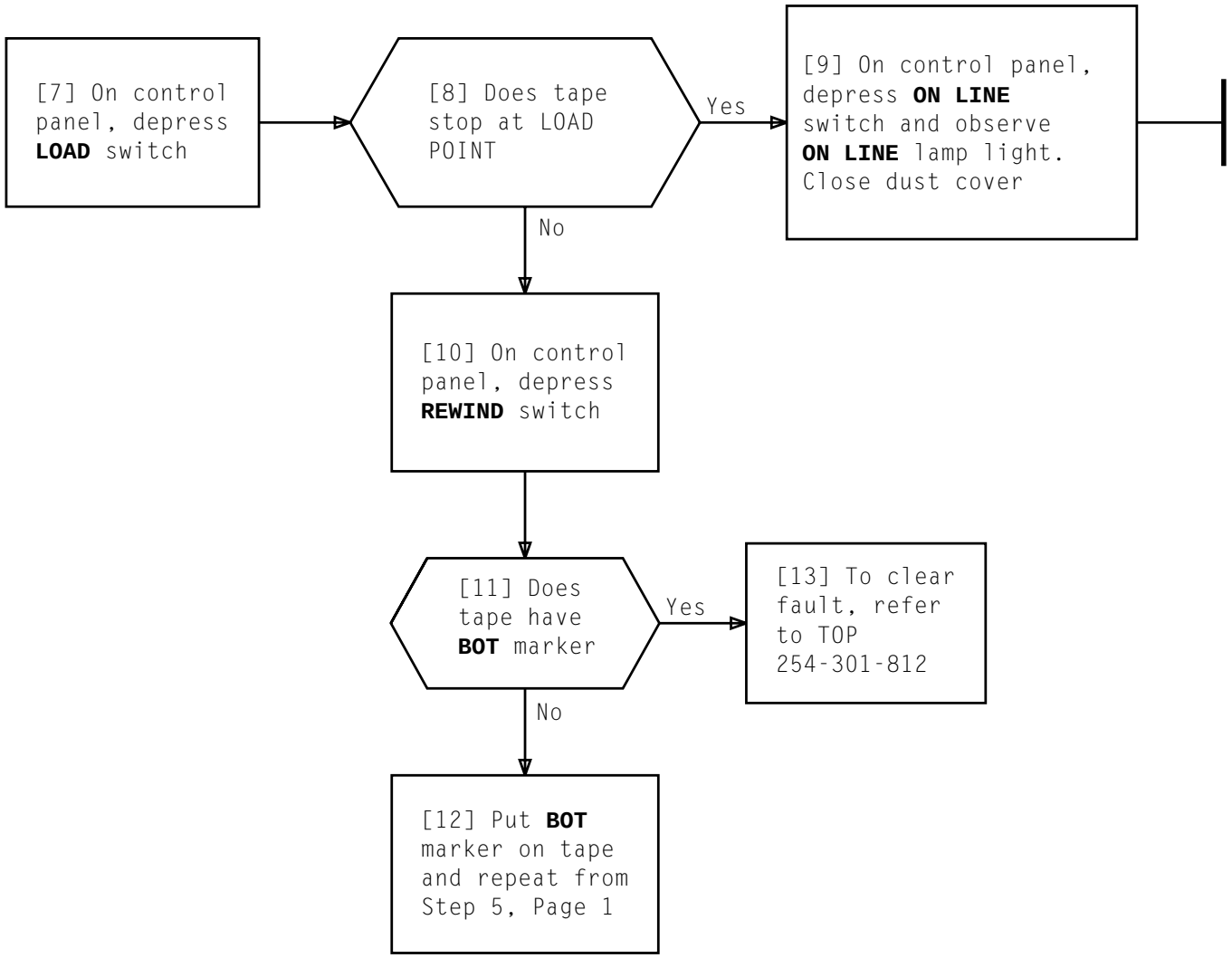


FIG. 1

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



[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

AND

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

Yes

[24] Touch **ON LINE** switch

No

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

No

[23] To clear fault, refer to TOP 254-301-812

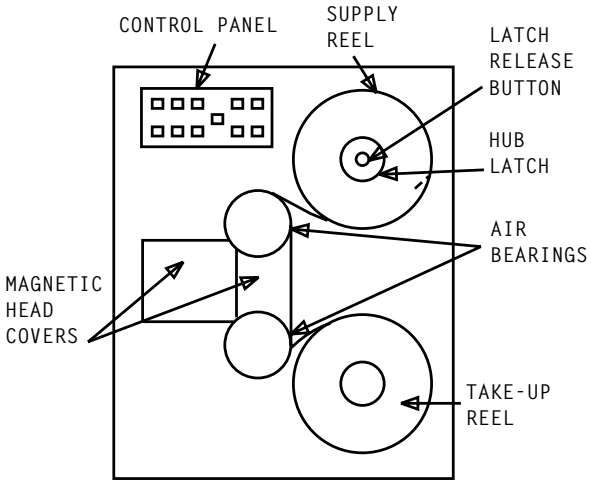


FIG. 2

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

[25] Is tape to be written

No

[27] See NOTE 1 and CAUTION 1. At available in-service digital audio tape (DAT) unit (EQL 11-124 or 62-124), carefully insert 4-mm tape [FIG. 4]

Yes

[26] Put write-protect tab on 4-mm tape in the up (unlocked) position [FIG. 3]

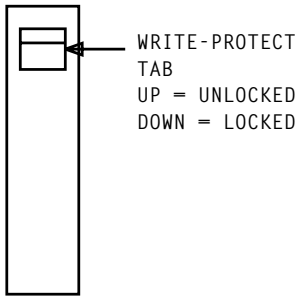


FIG. 3 — 4-mm Tape

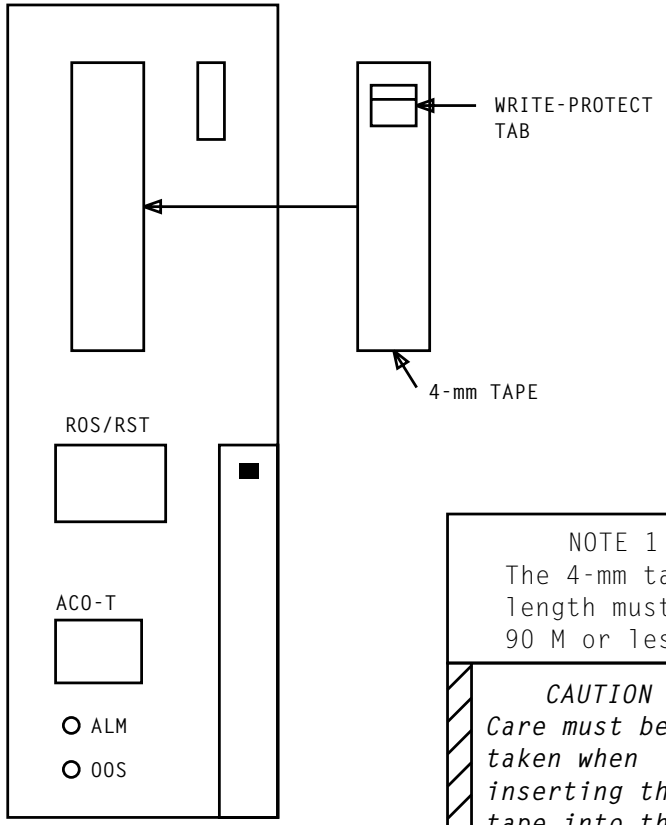
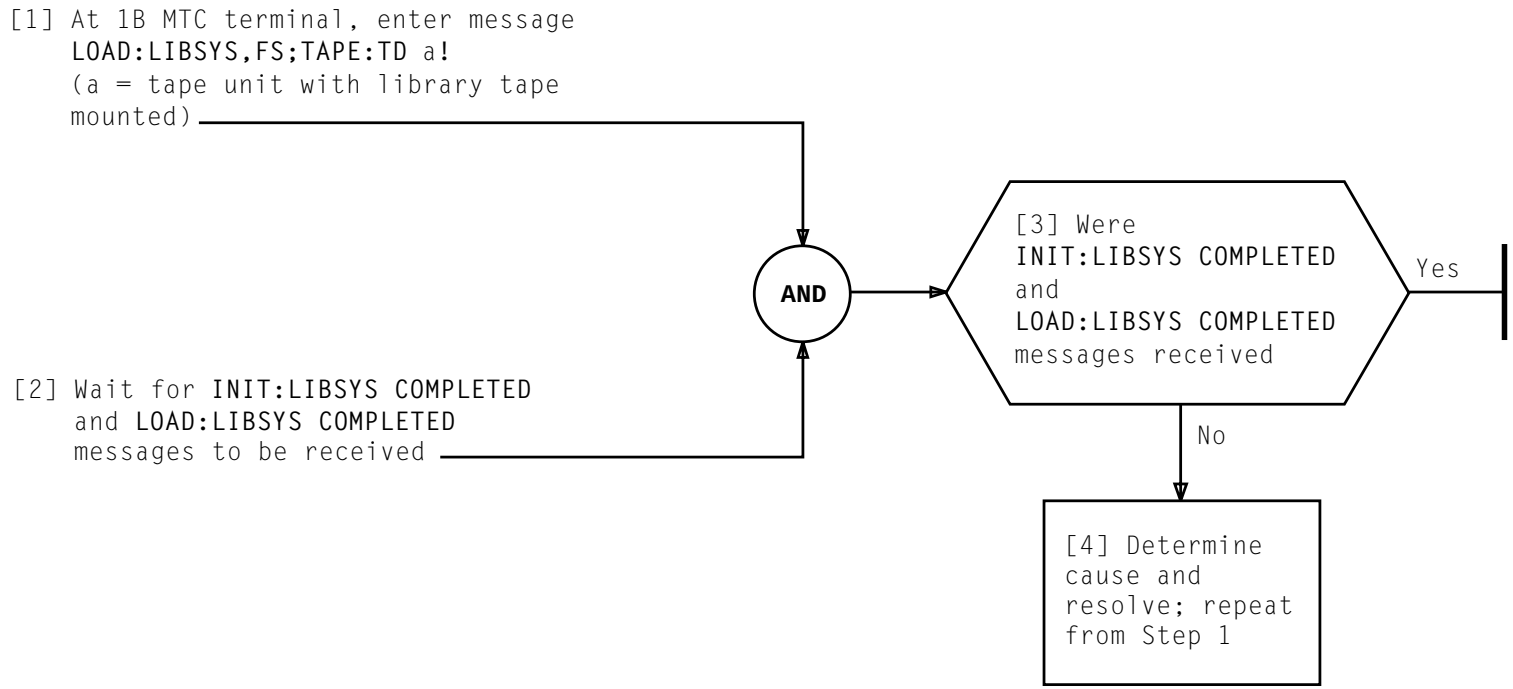


FIG. 4 — DAT Unit

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

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



LOAD LIBRARY PROGRAM PACKAGES FROM ORIGINAL TAPE ONTO DISK

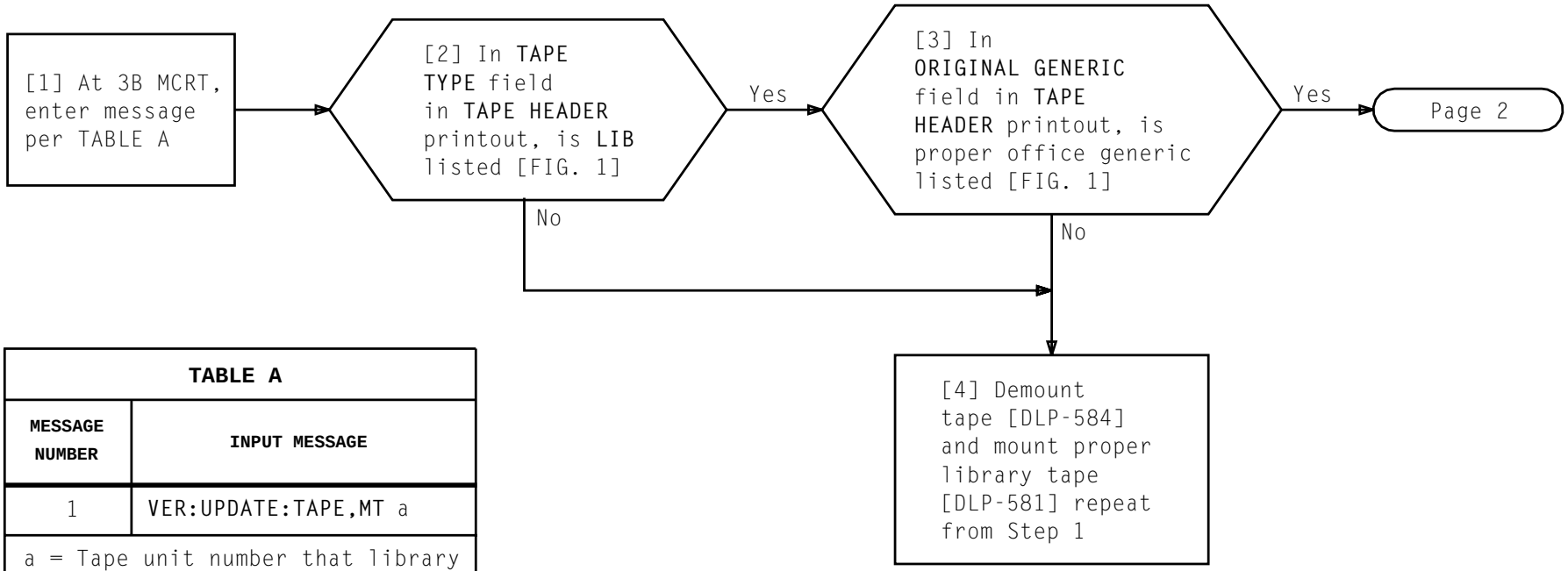


TABLE A

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

a = Tape unit number that library tape is mounted

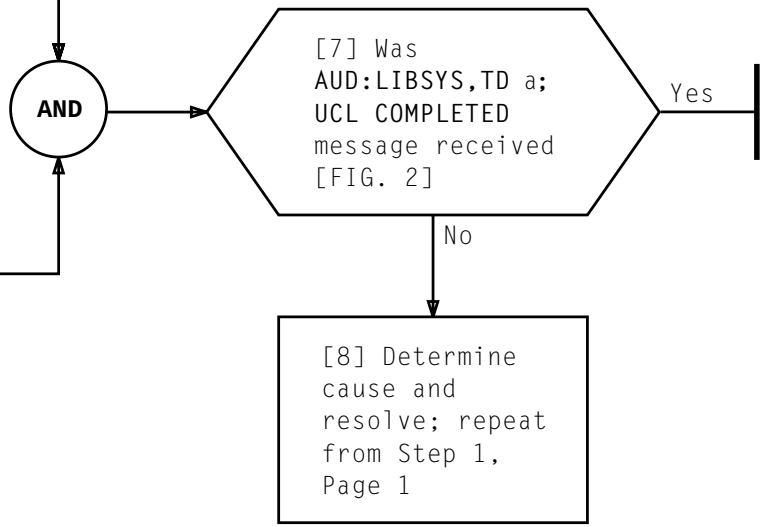
```
                                    THIS VALUE MUST BE
                                    SAME AS GENERIC OFFICE
TAPE HEADER                         IS RUNNING ON

TAPE TYPE: LIB
ORIGINAL GENERIC 4E<(22)>5A.00 R1
MOST RECENT OFL GENERATION: . . . . .
THIS TAPE WRITTEN: . . . . .
FS IDS: . . . . .
PARTL UPD FLG: . . . . .
```

FIG. 1 - Example of TAPE HEADER Printout

[5] At 1B MTC terminal, enter message AUD:LIBSYS,TD a;UCL!
a = Tape unit number that library tape is mounted

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




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

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

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

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

AUD:LIBSYS,TD a;UCL COMPLETED
```

FIG. 2 - Load Library Printout

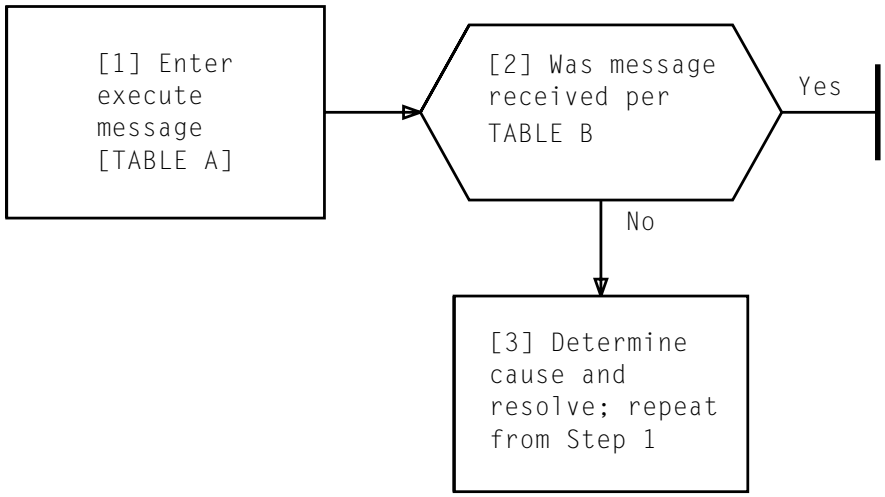


TABLE A
EX:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!
a = Office generic number

TABLE B
EX:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0 ,CLIENT 0 STARTED
a = Office generic

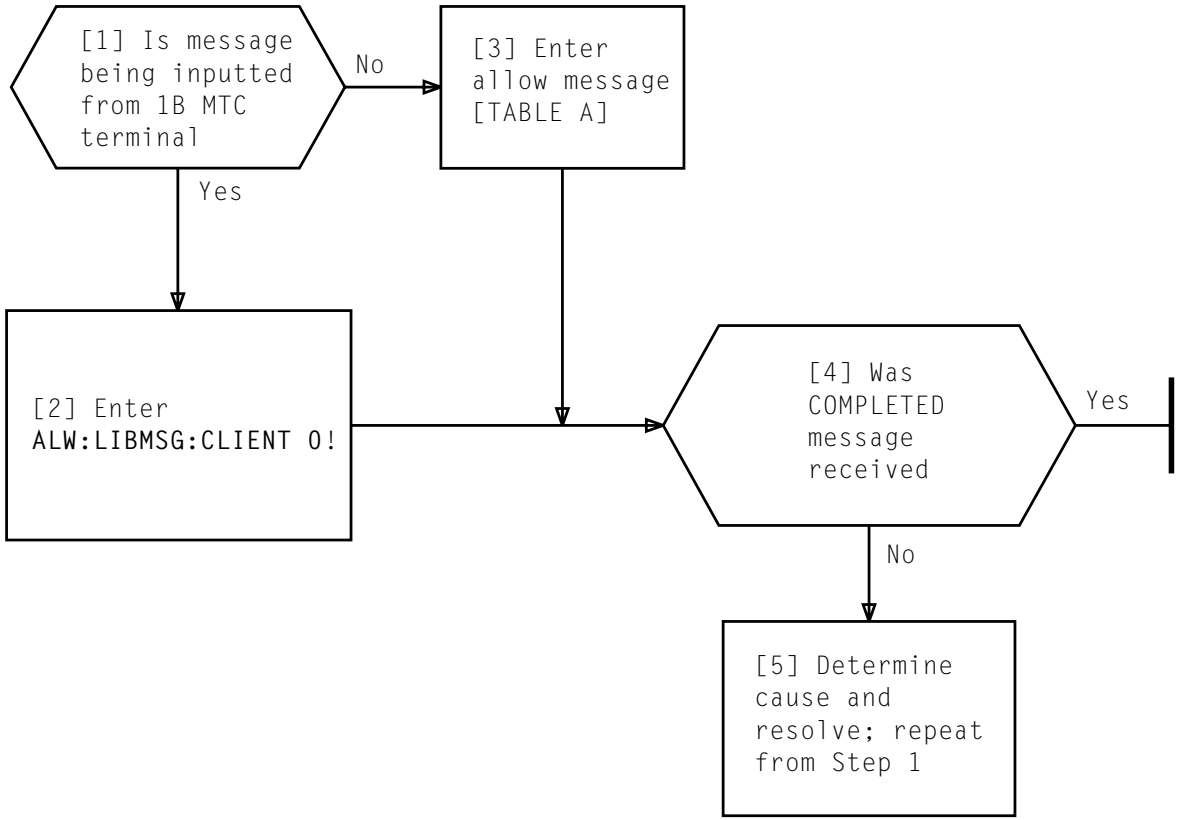


TABLE A
ALW:LIBMSG:CLIENT 0,CHAN a!
a = Channel name on which the message is to be inputted

ALLOW LIBRARY MESSAGE CHANNEL

SUMMARY

Enter change message to degrow port equipage (PRTE) from OPER to SGRO and/or from SGRO to GROW and/or from GROW to UNEQ. Verify buffered PRTE, enter copy message, verify current PRTE, and enter update message for each change in state. If after each verify, PRTE is not in right state, enter stop message and start change from beginning.

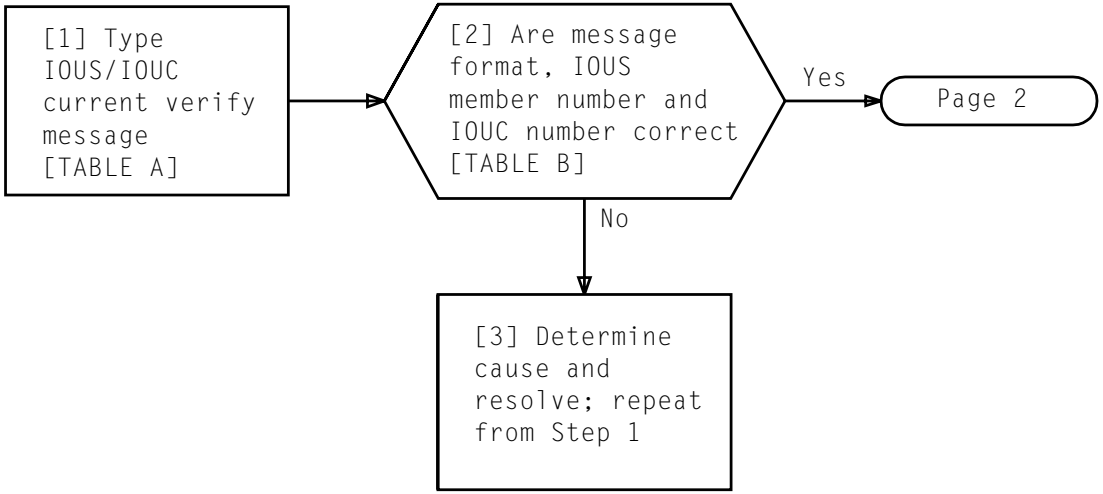


TABLE A

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE B

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: • • • • • • • • PORT 0,PRTE=c • • • • PORT 1,PRTE=d • • PORT 2,PRTE=e • •	a = Member number b = Submember number c = Port 0 equipage d = Port 1 equipage e = Port 2 equipage

DEGROW IOUC PORT EQUIPAGE

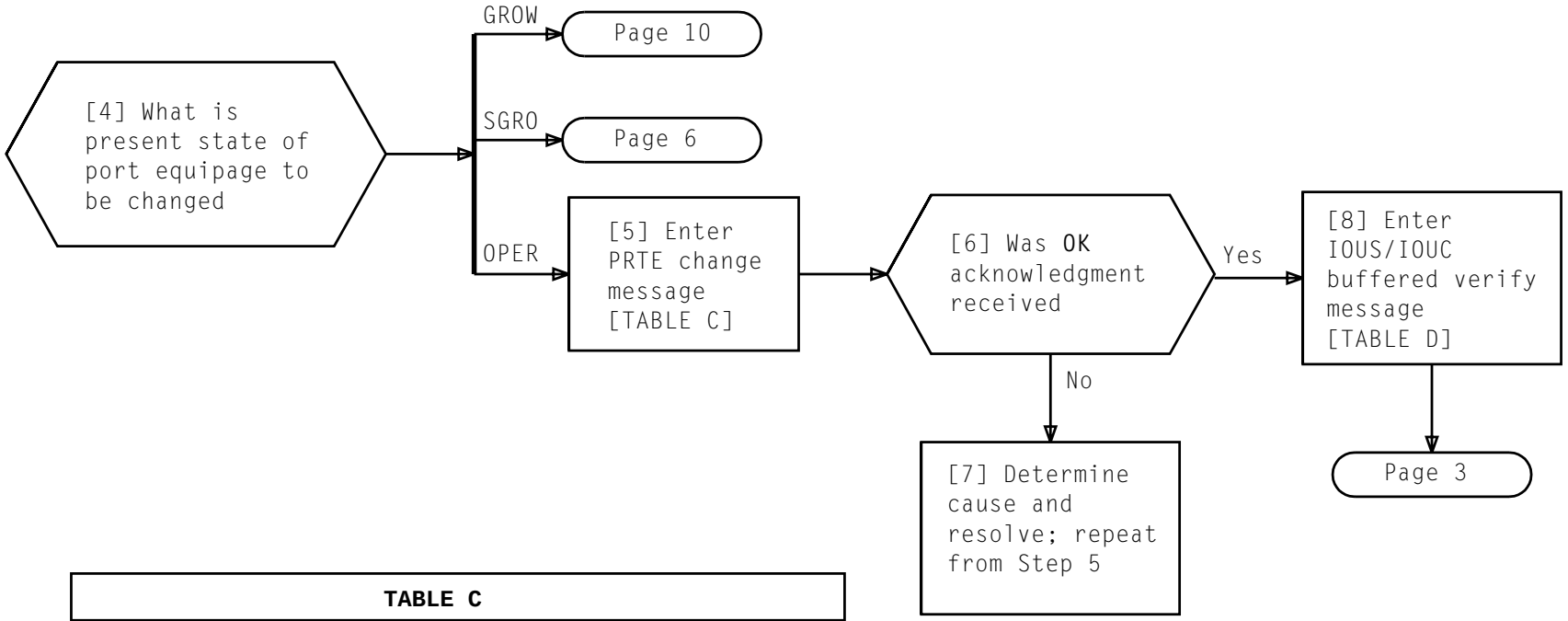


TABLE C
IN:XLBUF:IOUS a,IOUC b,PORT c,PRTE (OPER,SGRO)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15) c = Growth port number

TABLE D
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

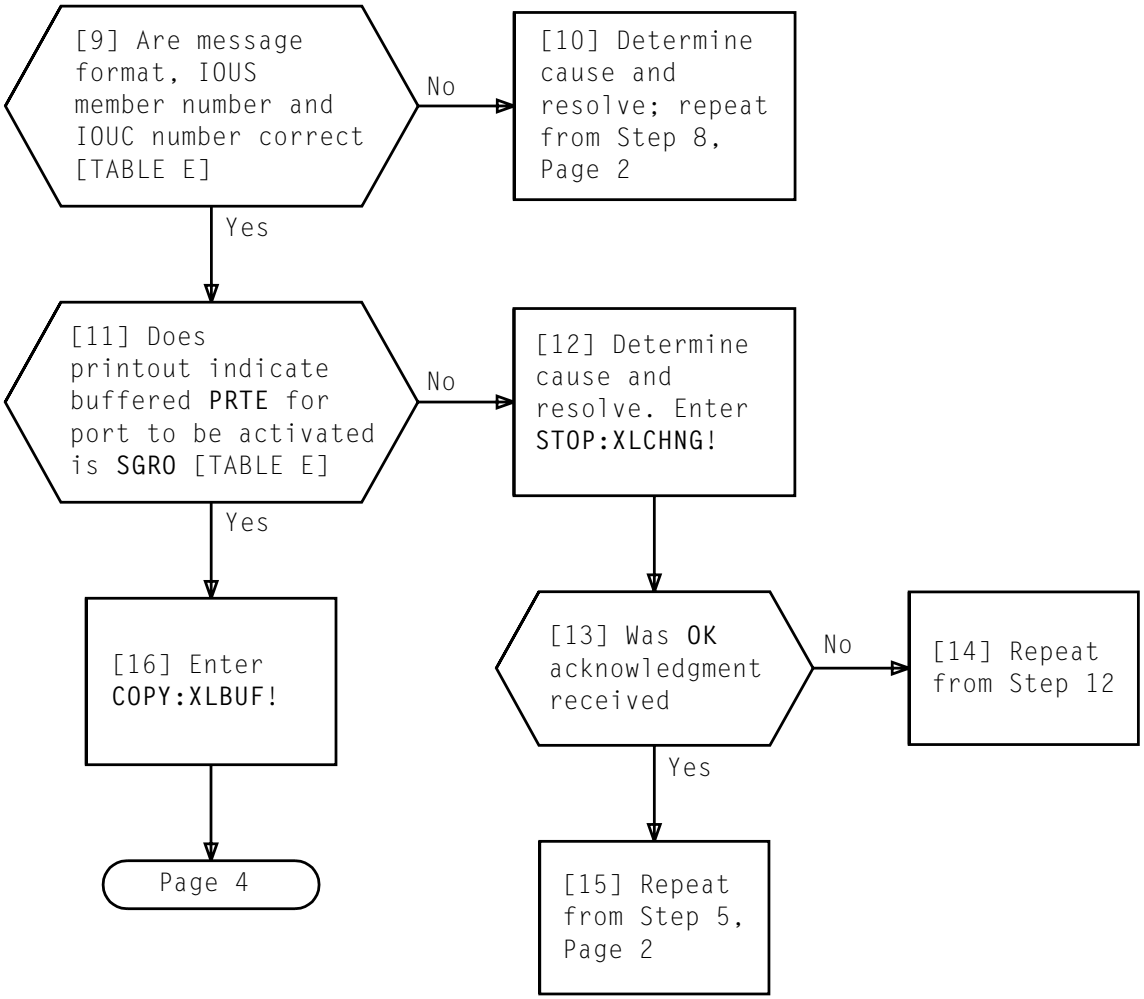


TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: • • • • • • • • PORT 0 PRTE=c • • • PORT 1,PRTE=d • • PORT 2,PRTE=e • • •	a = Member number b = Submember number c = Port 0 equipage d = Port 1 equipage e = Port 2 equipage

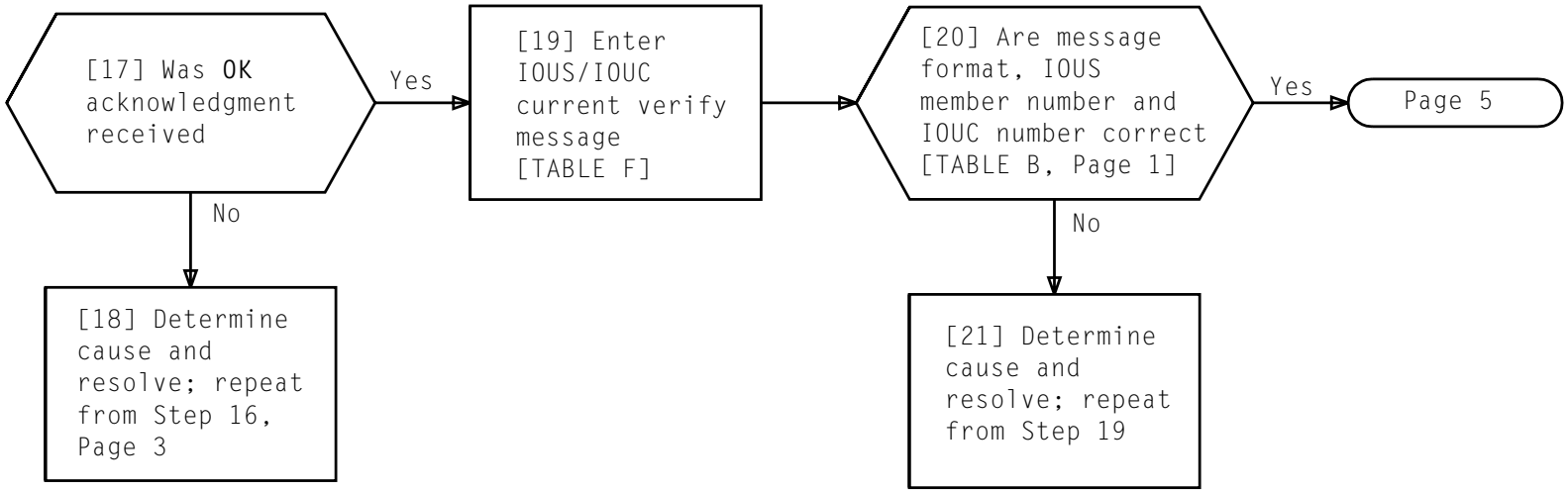
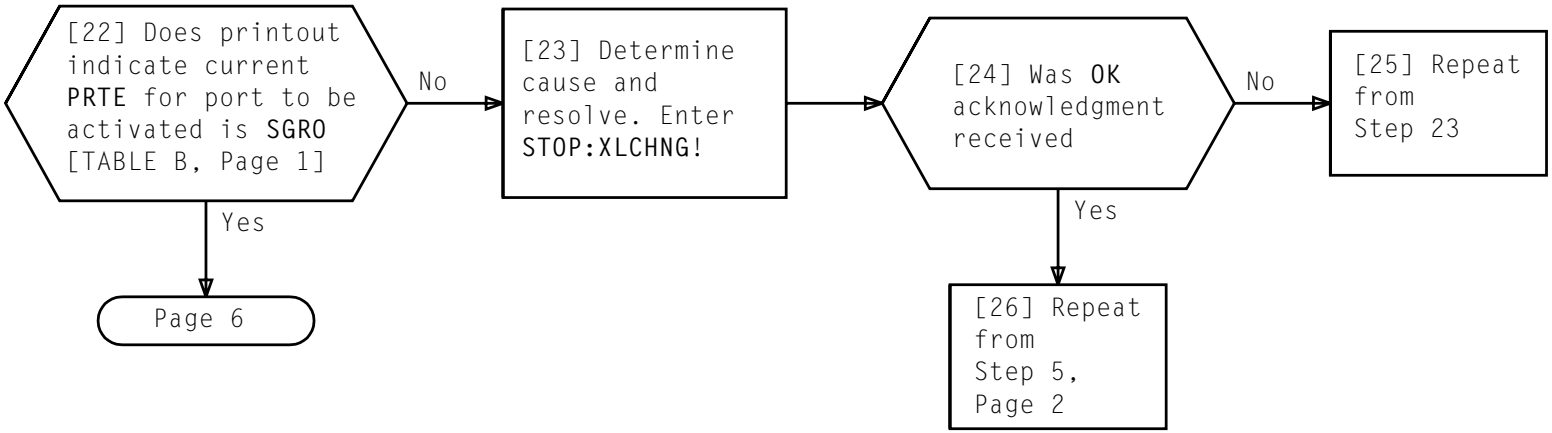


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)


[22] Does printout indicate current PRTE for port to be activated is SGRO [TABLE B, Page 1]
No
[23] Determine cause and resolve. Enter STOP:XLCHNG!
[24] Was OK acknowledgment received
No
[25] Repeat from Step 23
Yes
Page 6
Yes
[26] Repeat from Step 5, Page 2

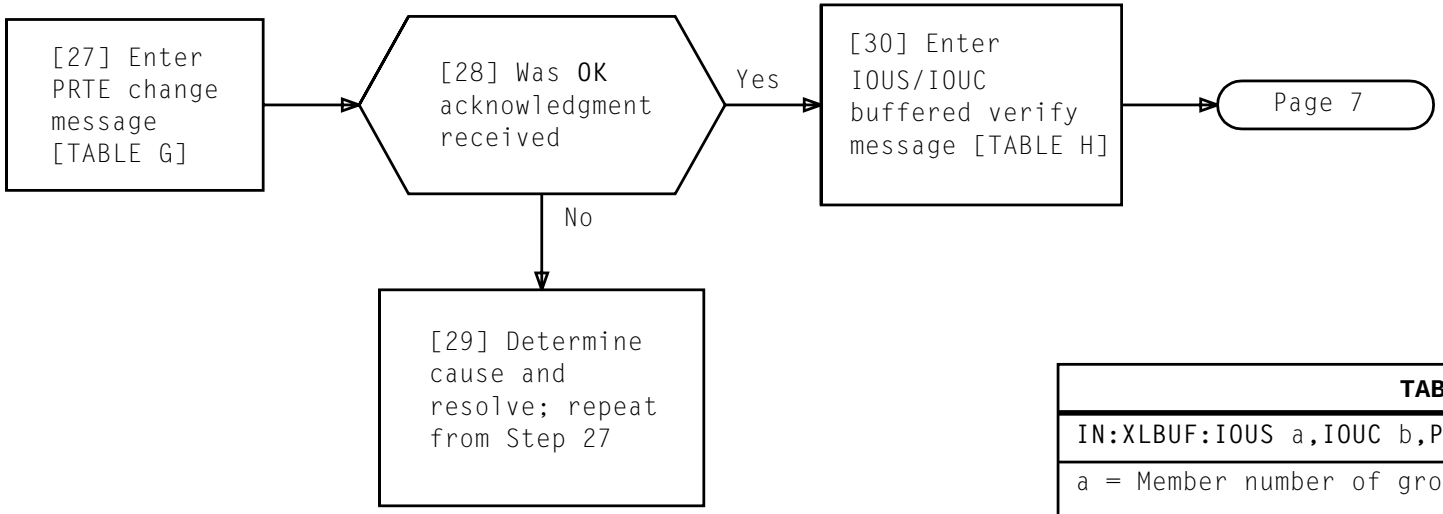


TABLE G
IN:XLBUF:IOUS a,IOUC b,PORT c,PRTE (SGRO,GROW)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)
c = Growth port number

TABLE H
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

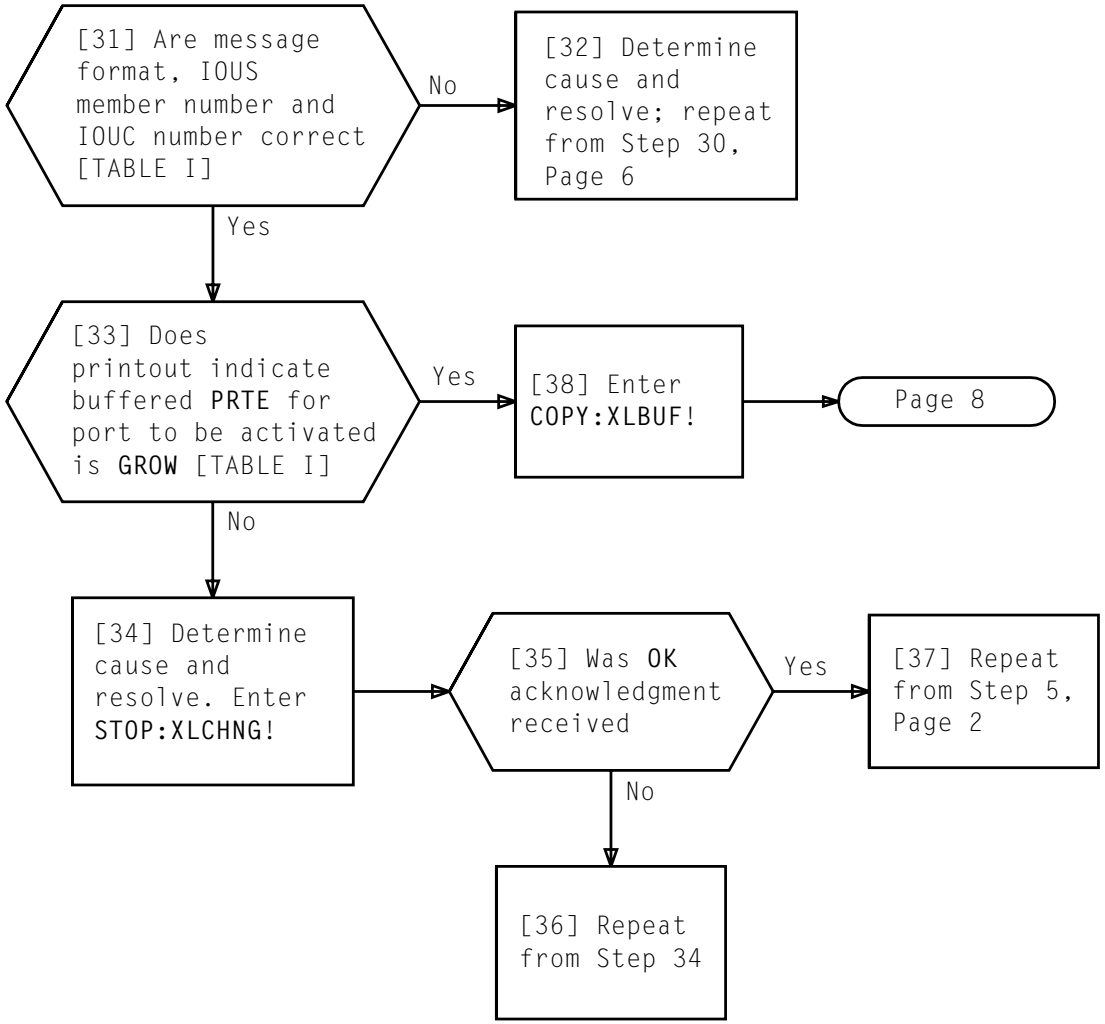


TABLE I

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: • • • • • • • • PORT 0,PRTE=c • • • • PORT 1,PRTE=d • • PORT 2,PRTE=e • •	a = Member number b = Submember number c = Port 0 equipage d = Port 1 equipage e = Port 2 equipage

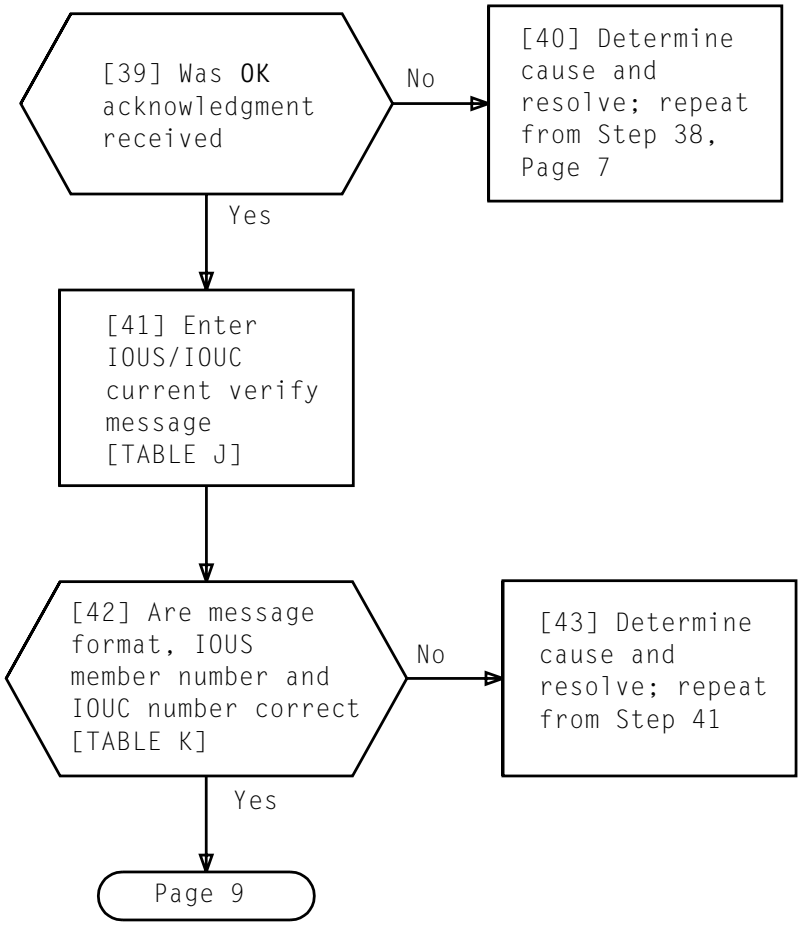
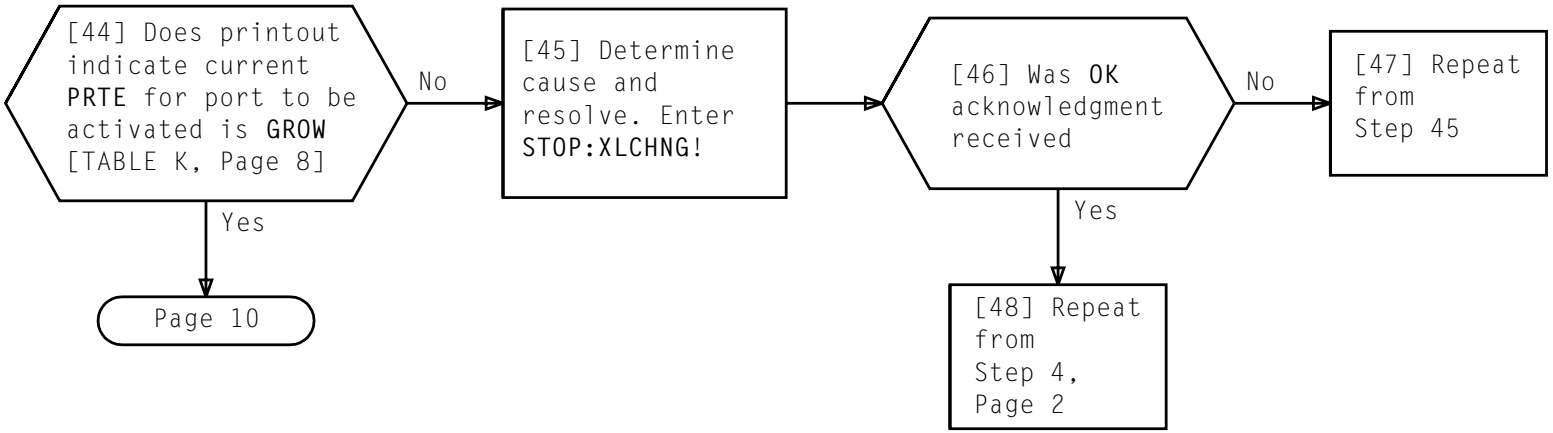


TABLE J

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE K

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: • • • • • • • • PORT 0,PRTE=c • • • • PORT 1,PRTE=d • • PORT 2,PRTE=e • •	a = Member number b = Submember number c = Port 0 equipage d = Port 1 equipage e = Port 2 equipage


[44] Does printout indicate current PRTE for port to be activated is GROW [TABLE K, Page 8]
No
[45] Determine cause and resolve. Enter STOP:XLCHNG!
[46] Was OK acknowledgment received
No
[47] Repeat from Step 45
Yes
Page 10
Yes
[48] Repeat from Step 4, Page 2

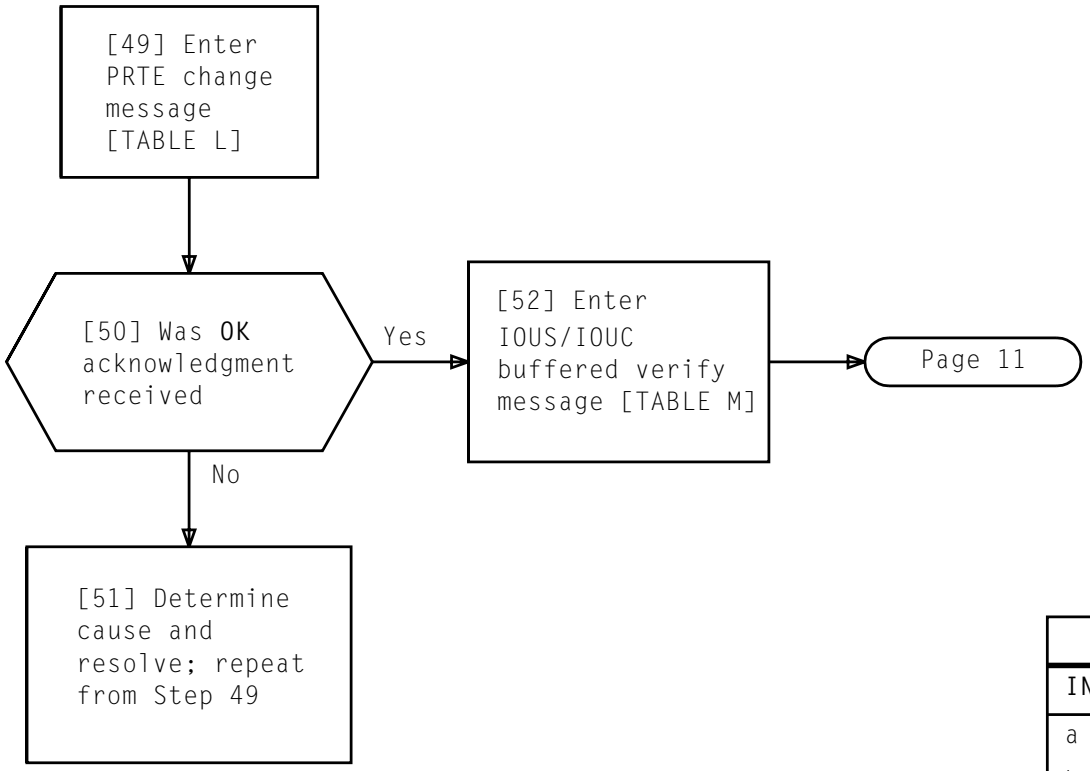


TABLE L
IN:XLBUF:IOUS a,IOUC b,PORT c,PRTE (GROW,UNEQ)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)
c = Growth port number

TABLE M
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

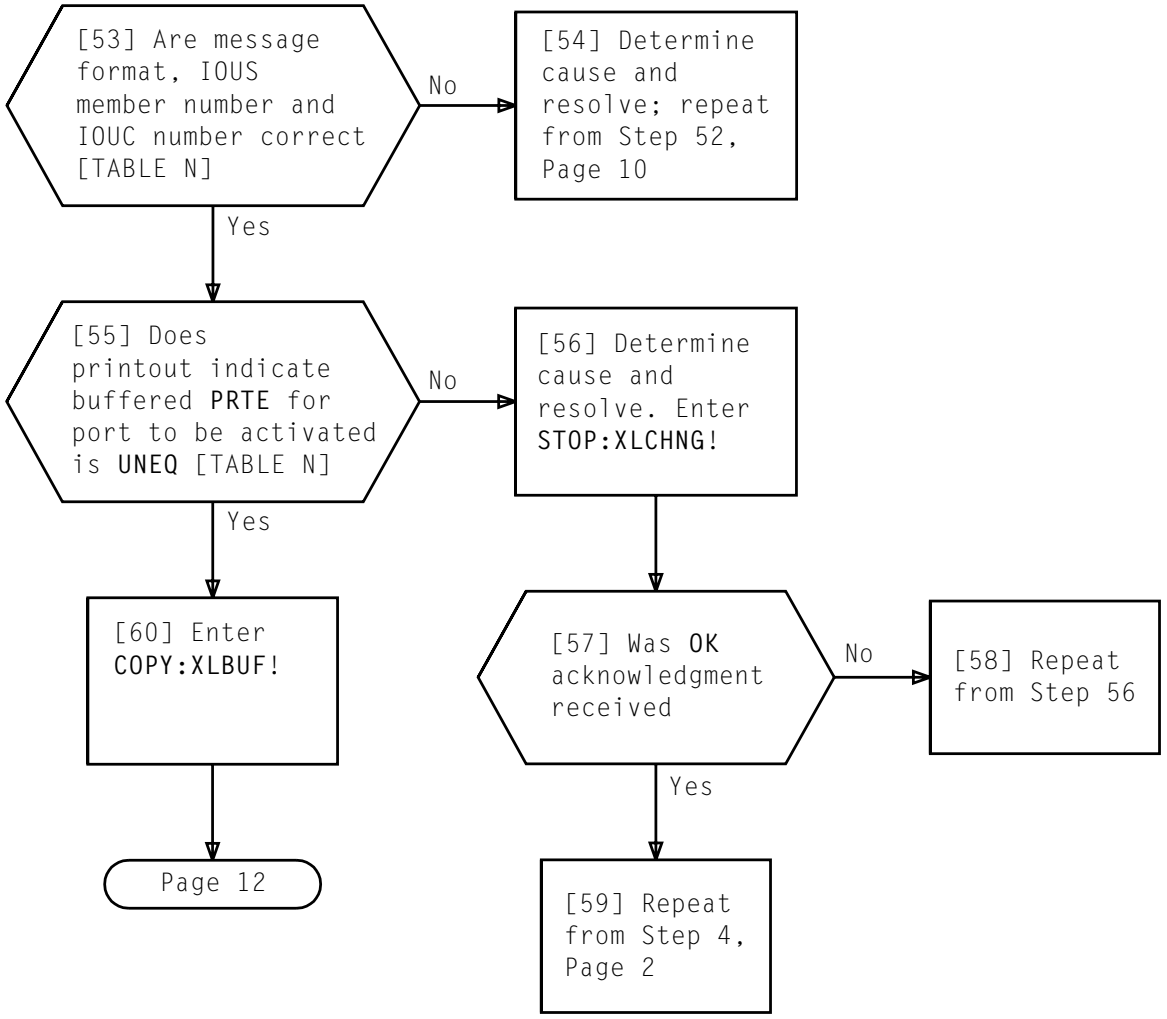


TABLE N

```
VER:UTMN,IOUS a,IOUC b COMPLETED

TRANSLATOR ADR=
TRANSLATOR SIZE=43

BUFFERED DATA:
        .
        .
        .
        .
        .
        .
        .
        .
PORT 0 PRTE=c
        .
        .
        .
        .
PORT 1,PRTE=d
        .
        .
PORT 2,PRTE=e
        .
        .
```

a = Member number

b = Submember number

c = Port 0 equipage

d = Port 1 equipage

e = Port 2 equipage

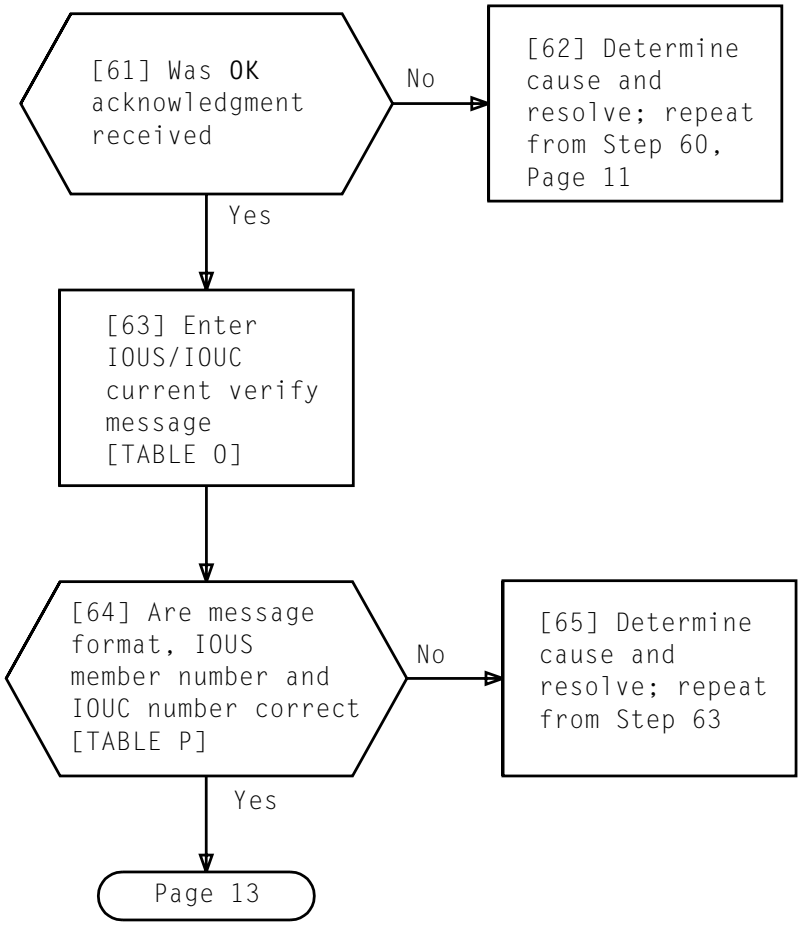


TABLE O

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE P

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: • • • • • • • • PORT 0 PRTE=c • • • • PORT 1,PRTE=d • • PORT 2,PRTE=e • •	a = Member number b = Submember number c = Port 0 equipage d = Port 1 equipage e = Port 2 equipage

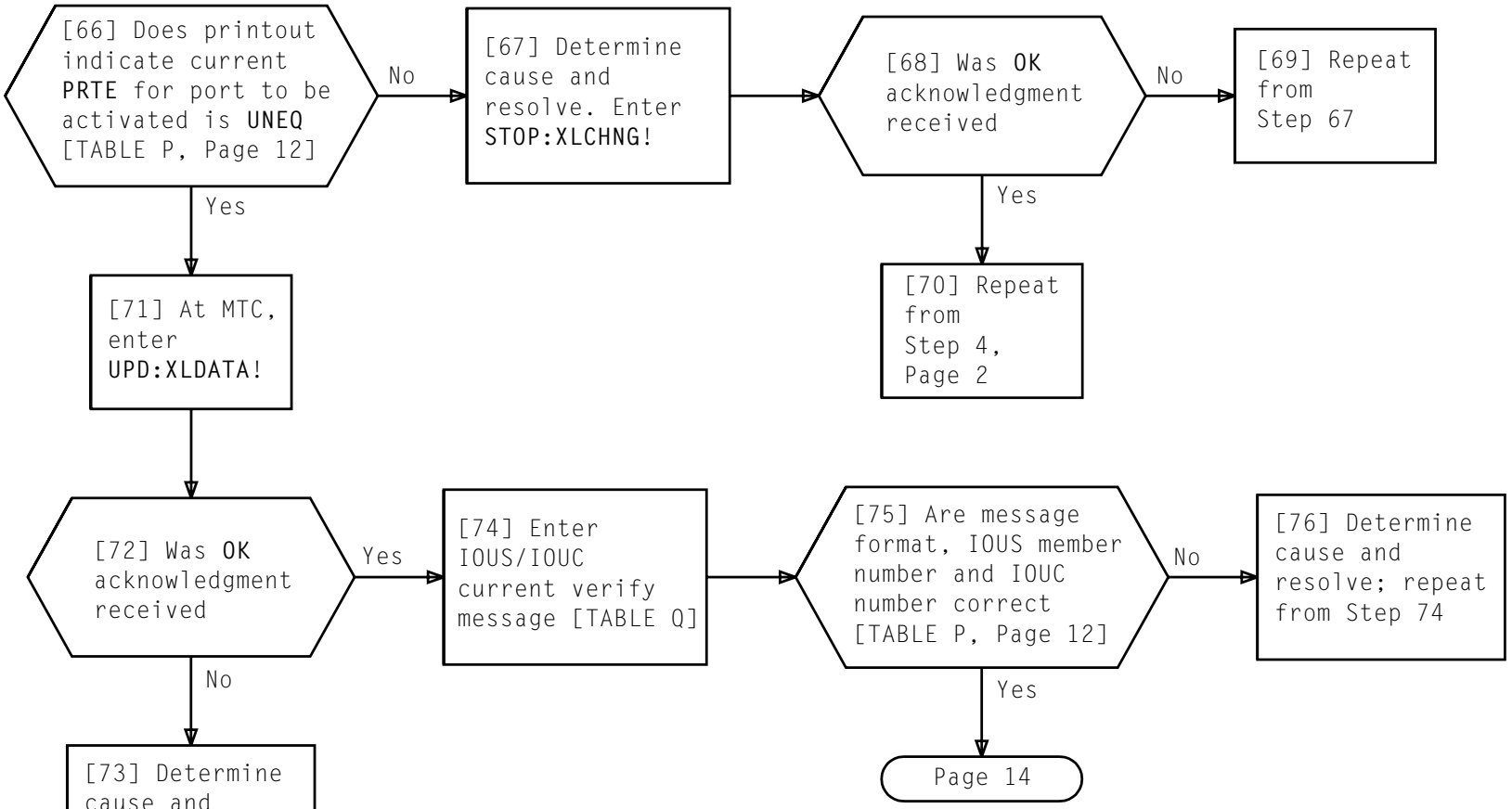
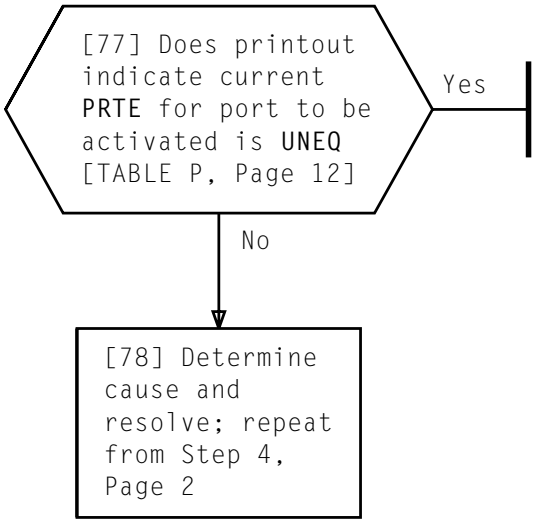


TABLE Q
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)


[77] Does printout indicate current PRTE for port to be activated is UNEQ [TABLE P, Page 12]
Yes
No
[78] Determine cause and resolve; repeat from Step 4, Page 2

SUMMARY

Enter change message to degrow channel equipage (CE) from OPER to SGRO and/or from SGRO to GROW and/or from GROW to UNEQ. Verify buffered CE, enter copy message and verify current CE for each change in state. If after each verify, CE is not in right state, enter stop message and start change from beginning. After all required changes in equipage are in copy state, enter update message and verify current CE.

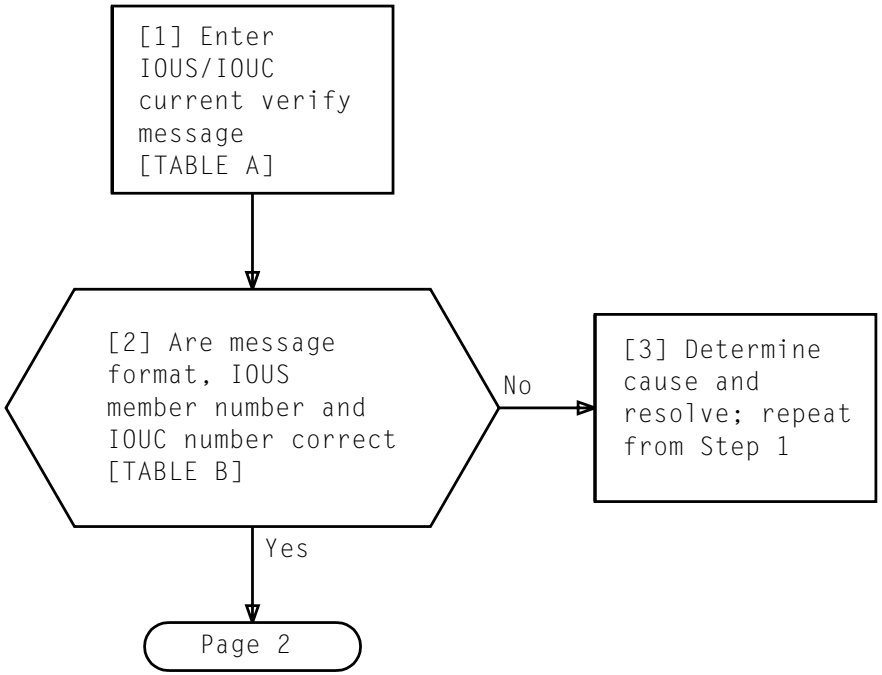


TABLE A

VER:UTMN:IOUS a,IOUC b!

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUS (10,11,14, or 15)

TABLE B

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=c • • • • • • • • •	a = Member number b = Submember number c = Channel equipage

DEGROW IOUC CHANNEL EQUIPAGE

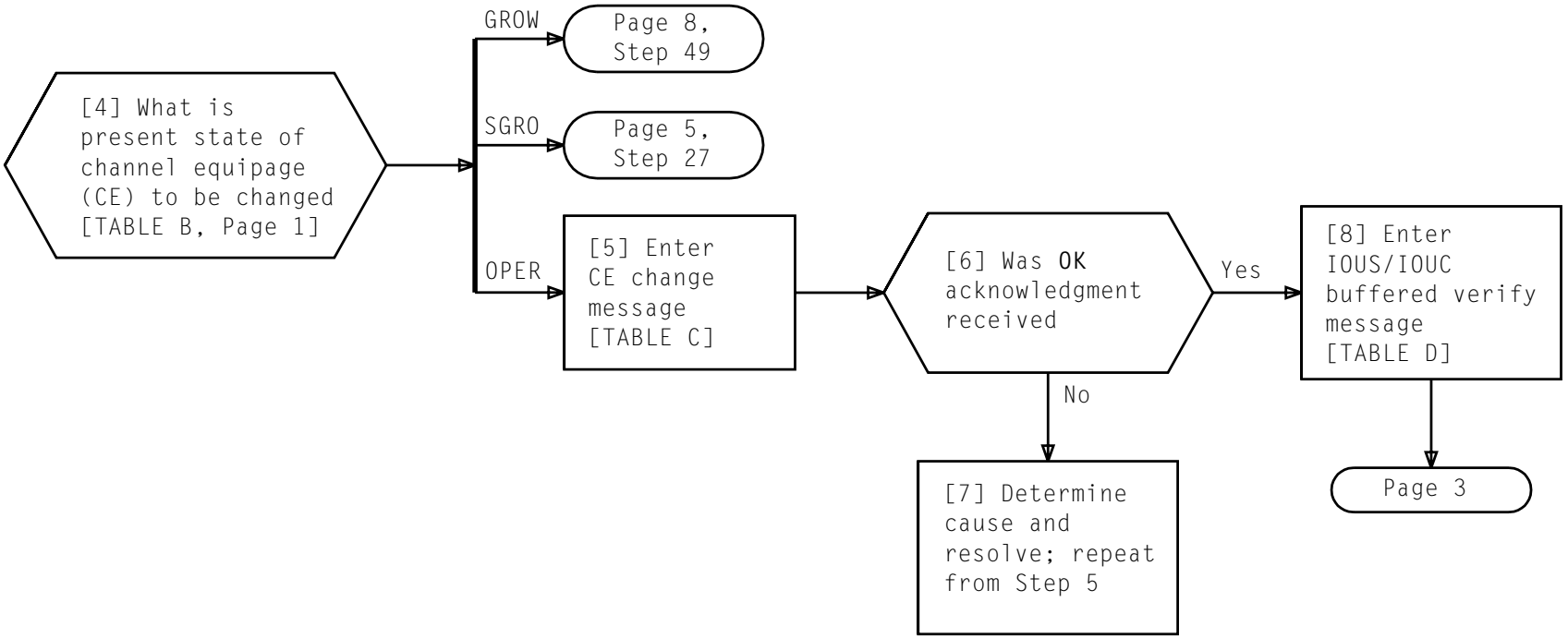


TABLE C
IN:XLBUF:IOUS a,IOUC b,CE (OPER,SGRO)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE D
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

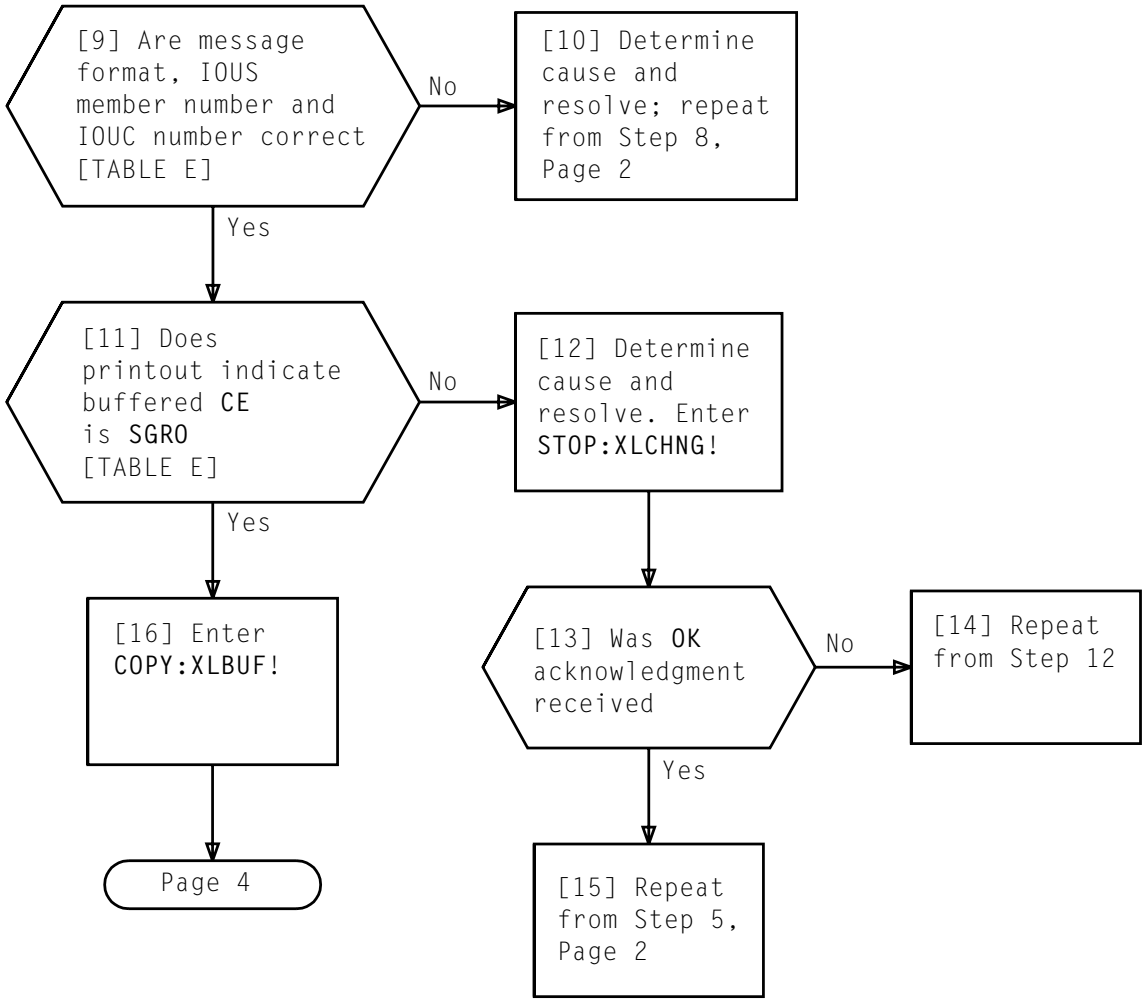


TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=SGRO	a = Member number b = Submember number

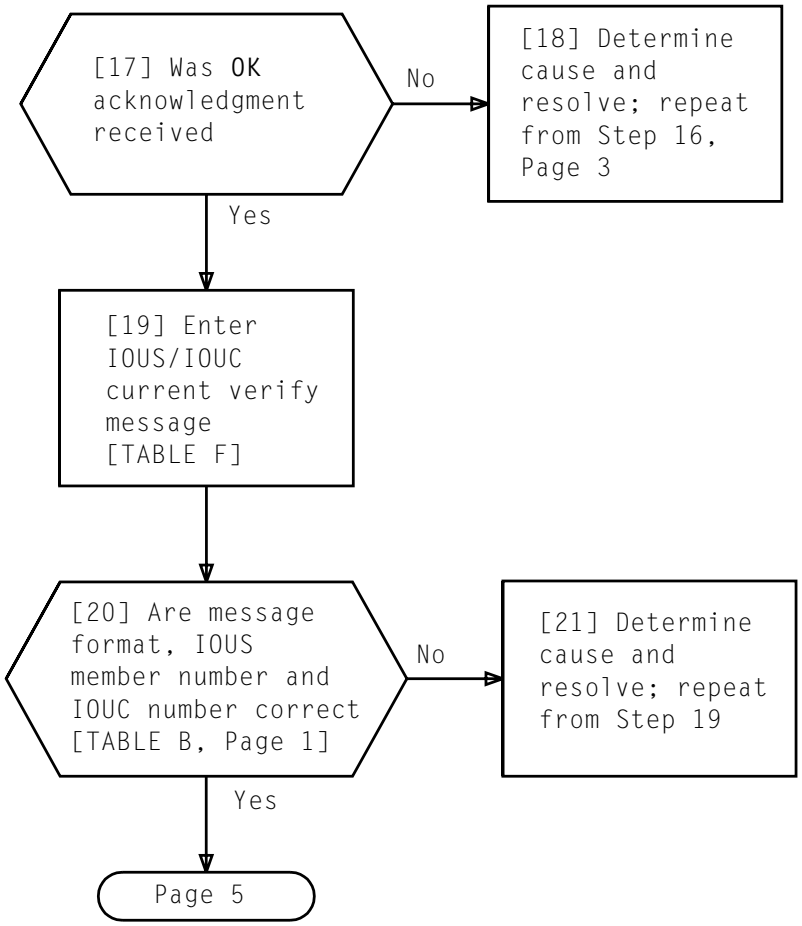


TABLE F

VER:UTMN:IOUS a,IOUC b!

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

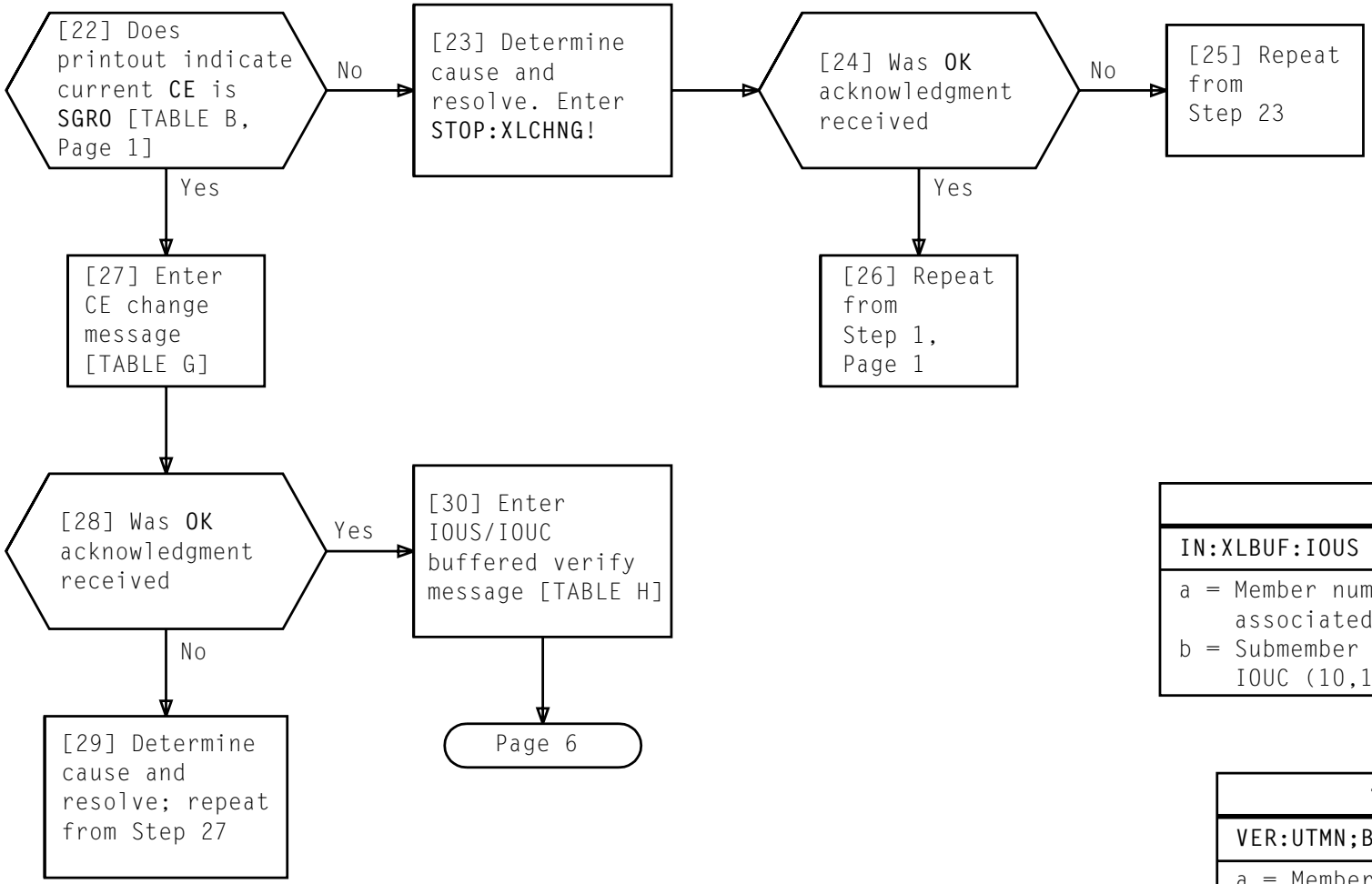


TABLE G
IN:XLBUF:IOUS a,IOUC b,CE (SGRO,GROW)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE H
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

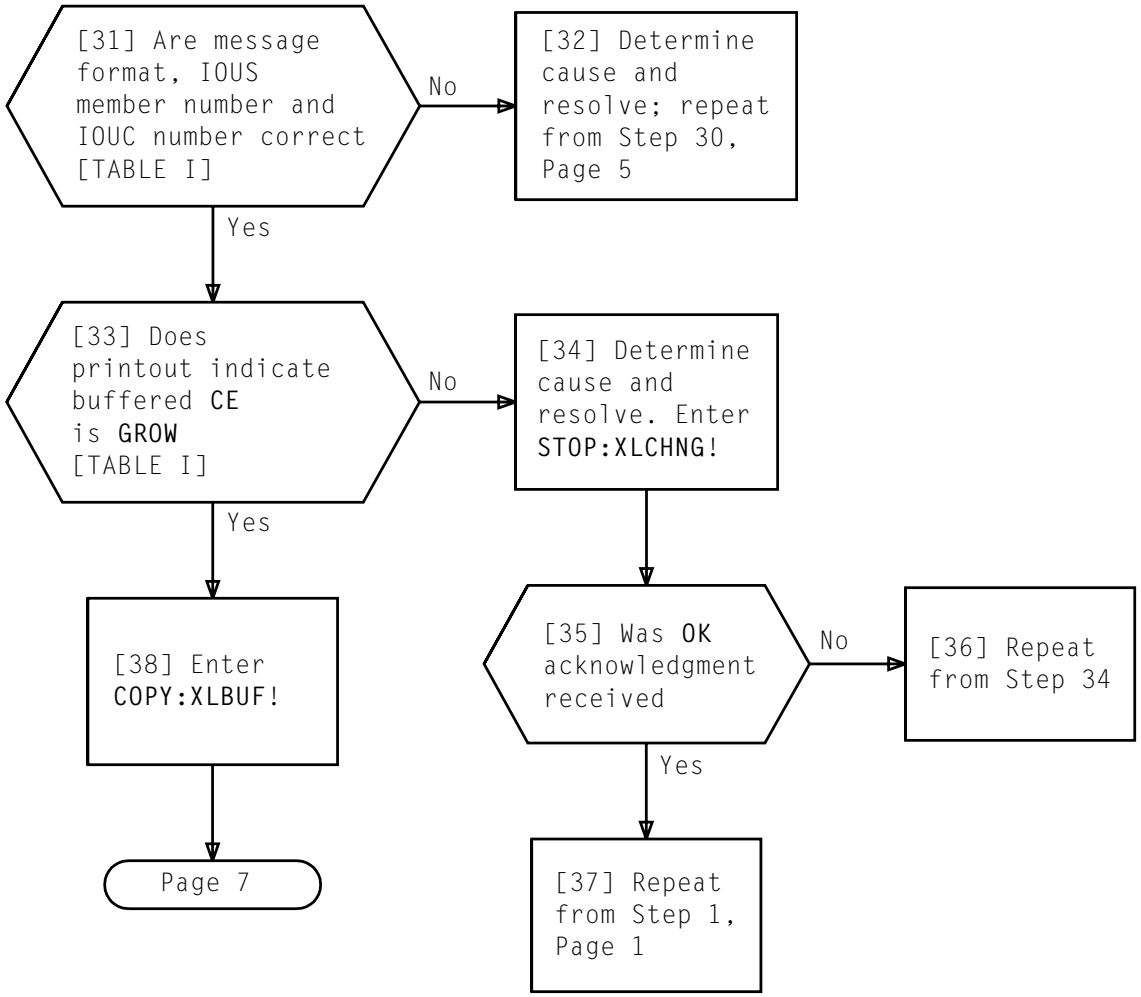


TABLE I

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=GROW	a = Member number b = Submember number

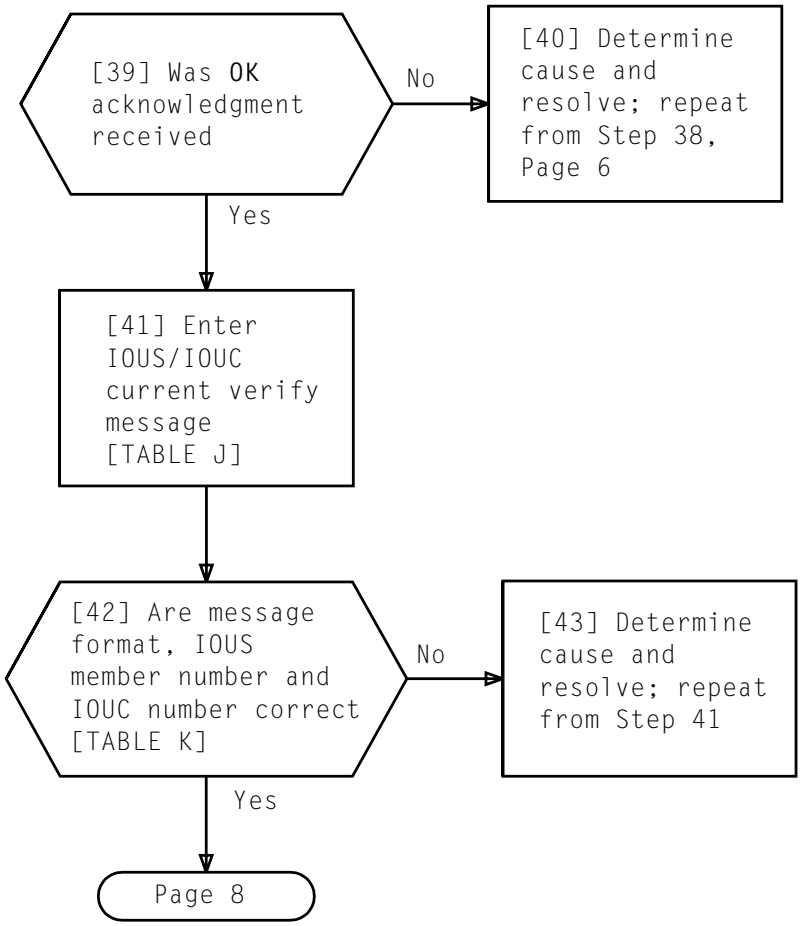


TABLE J

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE K

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=GROW	a = Member number b = Submember number

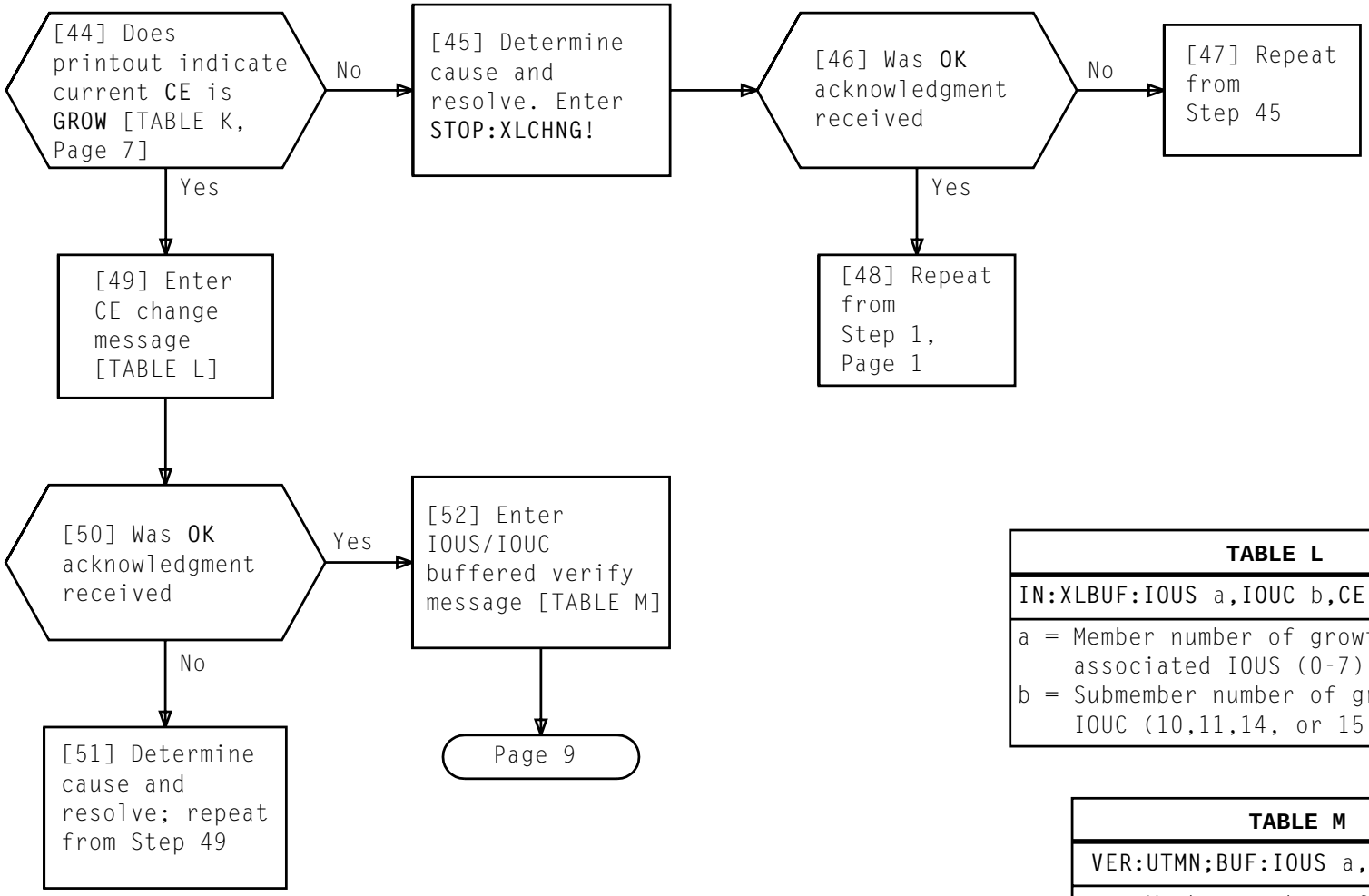


TABLE L
IN:XLBUF:IOUS a,IOUC b,CE (GROW,UNEQ)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE M
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

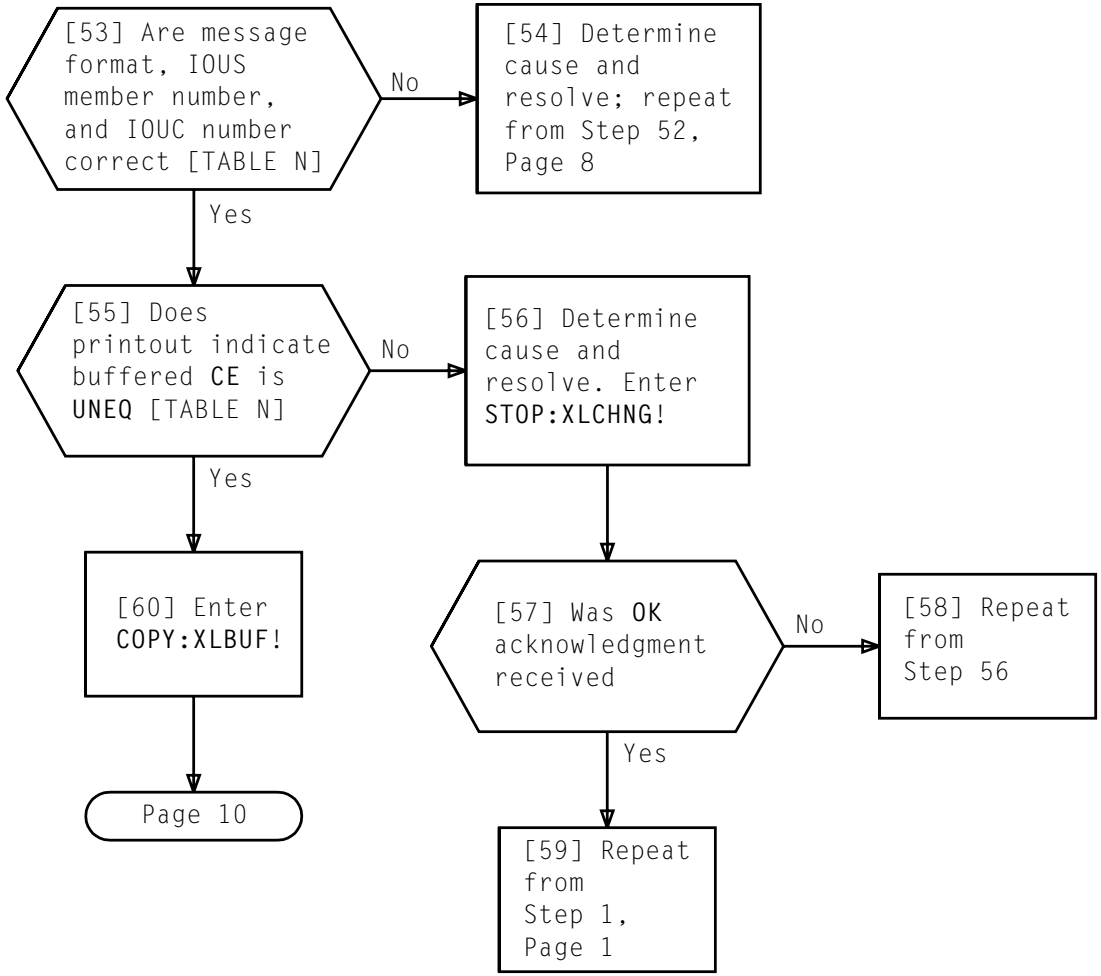


TABLE N

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=UNEQ	a = Member number b = Submember number

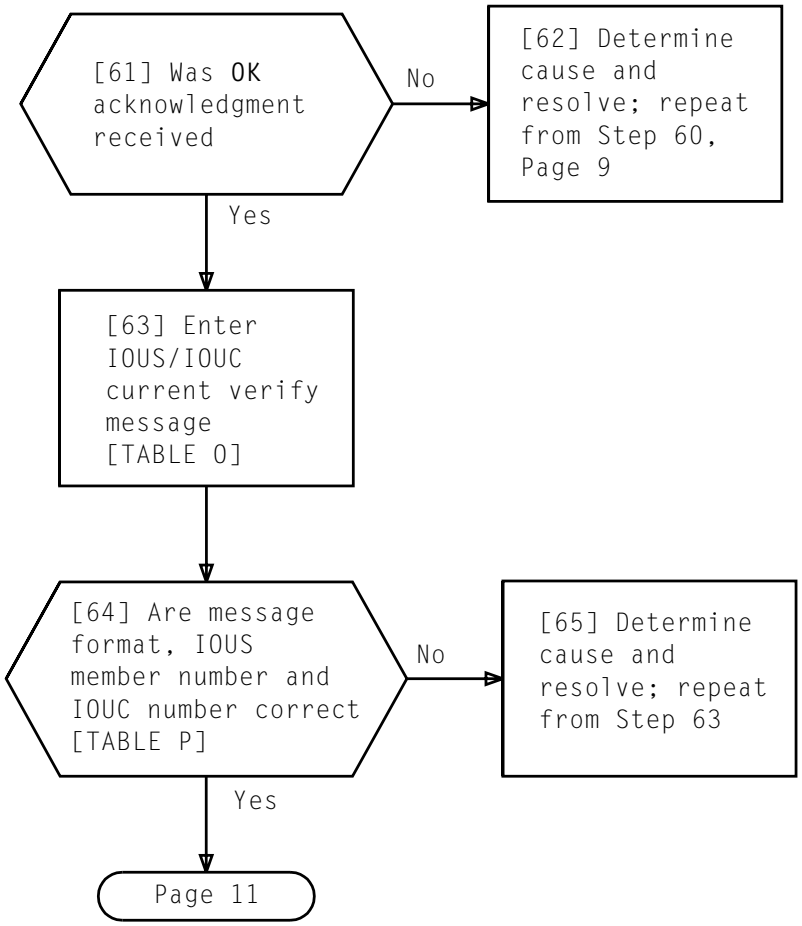


TABLE O

VER:UTMN:IOUS a,IOUC b!

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE P

VER:UTMN,IOUS a,IOUC b COMPLETED

TRANSLATOR ADR=
TRANSLATOR SIZE=43

CURRENT DATA:

CE=UNEQ

.
.
.
.
.
.
.

a = Member number

b = Submember number

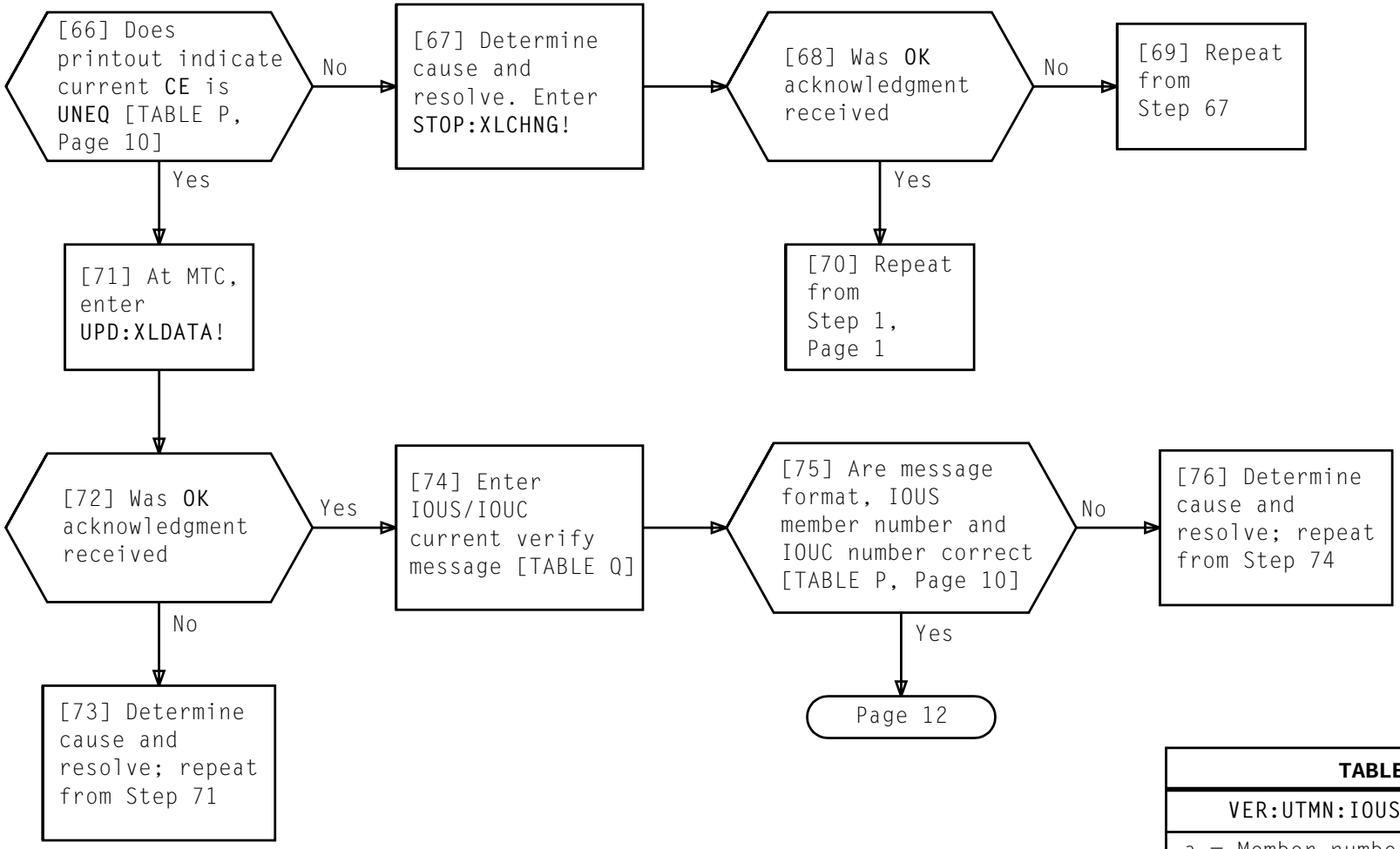
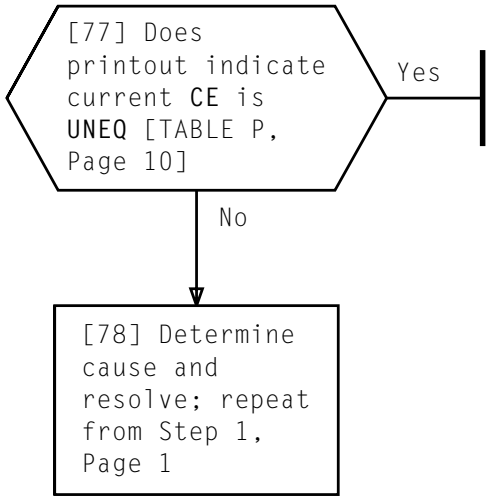


TABLE Q
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

DEGROW IOUC CHANNEL EQUIPAGE


[77] Does printout indicate current CE is UNEQ [TABLE P, Page 10]
Yes
No
[78] Determine cause and resolve; repeat from Step 1, Page 1

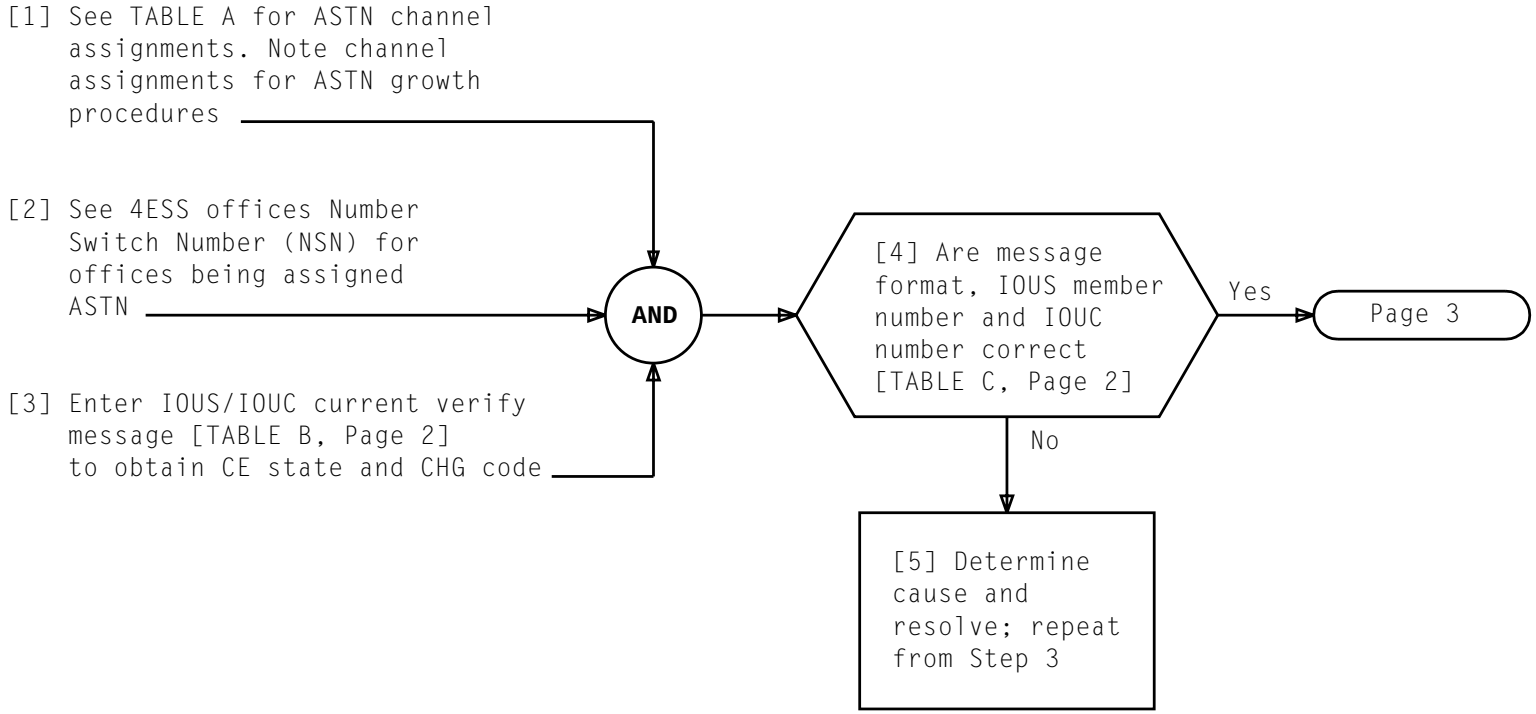

[1] See TABLE A for ASTN channel assignments. Note channel assignments for ASTN growth procedures
[2] See 4ESS offices Number Switch Number (NSN) for offices being assigned ASTN
[3] Enter IOUS/IOUC current verify message [TABLE B, Page 2] to obtain CE state and CHG code
AND
[4] Are message format, IOUS member number and IOUC number correct [TABLE C, Page 2]
Yes
Page 3
No
[5] Determine cause and resolve; repeat from Step 3

TABLE A

ASTN CHANNEL NAME	ASTN CHANNEL NUMBER ASSIGNMENT	IOUC MEMBER NUMBER ASSIGNMENT	TN82 CIRCUIT PACK LOCATION
ASTN0	84	15*	024
ASTN1	85	15	024
ASTN2	86	11*	084
ASTN3	87	11	084
ASTN4	88	14*	032
ASTN5	89	14	032
ASTN6	90	10*	092
ASTN7	91	10	092

*These member numbers are assigned in one IOUS and the other members (10, 11, 14, and 15) are assigned to the other IOUS (See DLP-546).

TABLE B

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=UNEQ CHG=c CHNAME=d BKUP=e SPD=f MODE=g DIALUP=h TRMTYP=i TAPE=j CHTYP=k PHAPPLID=l STATYP=m ACU=n SCHAN=o . .	a = Member number b = Submember number c = Channel hardware generation (0) d = Channel name MTC e = Backup channel name f = Channel speed 9600 kbps g = Operating mode h = N i = Terminal Type j = Tape k = Channel type l = Protocol handler application ID m = Station type n = Automatic calling unit o = Signaling channel

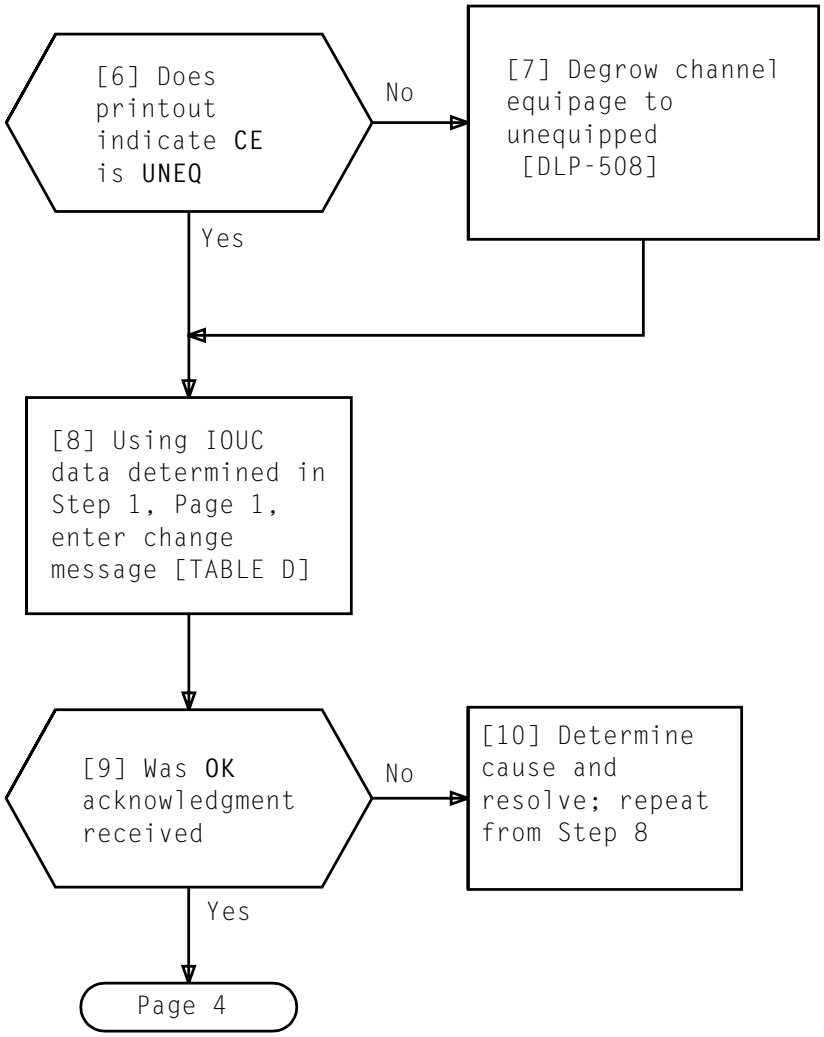


TABLE D

IN:XLBUF:IOUS a,IOUC b,CHNAME c!

a = Member number of growth associated IOUS
b = Submember number of growth IOUC
c = Channel name of growth channel —

CHANNEL NAME
ASTN0
ASTN1
ASTN2
ASTN3
ANTN4
ASTN5
ASTN6
ASTN7

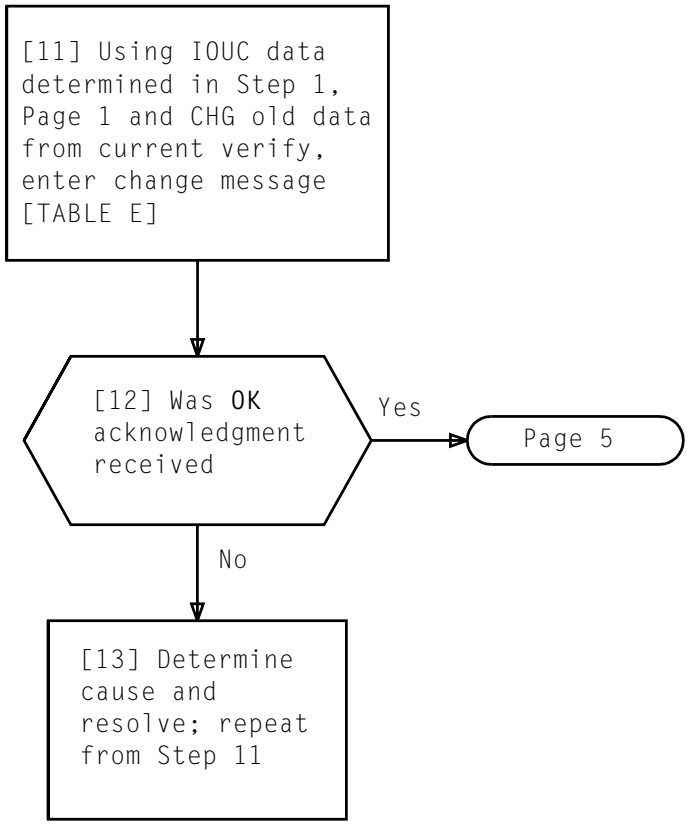


TABLE E

IN:XLBUF:IOUS a,IOUC b,CHG (c,7)!

a = Member number of growth associated IOUS (0-7)

b = Submember number of growth IOUC (10,11,14, or 15)

c = Old CHG data from current verify

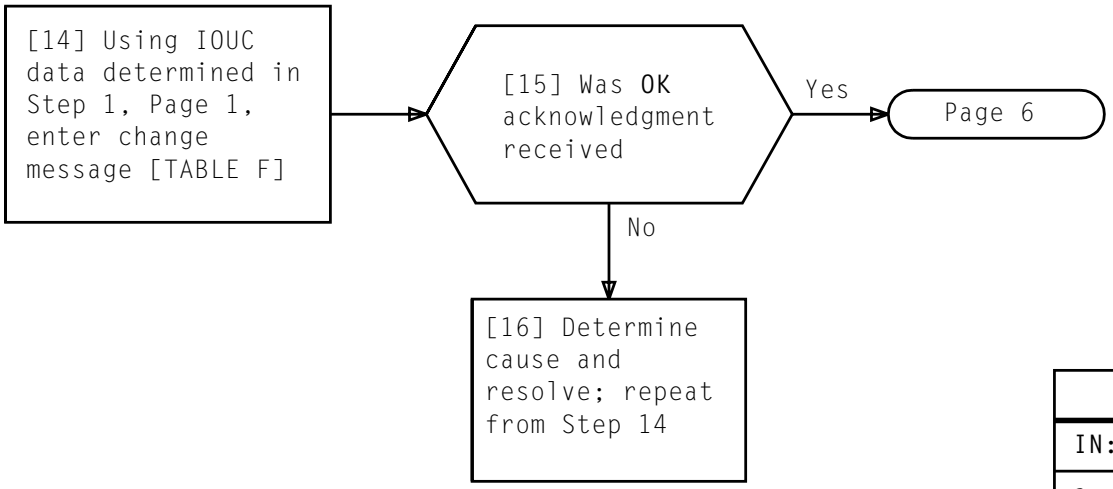


TABLE F

IN:XLBUF:IOUS a,IOUC b,BKUP c!

a = Member number of growth associated IOUS (0-7)

b = Submember number of growth IOUC (10,11,14, or 15)

c = Backup channel name of growth channel —

BACKUP CHANNEL NAME*
ASTN0
ASTN1
ASTN2
ASTN3
ASTN4
ASTN5
ASTN6
ASTN7

* The ASTN backup channel name has the same name as the ASTN channel name. For example, ASTN0 is the backup channel name for the ASTN0 channel assigned in TABLE D.

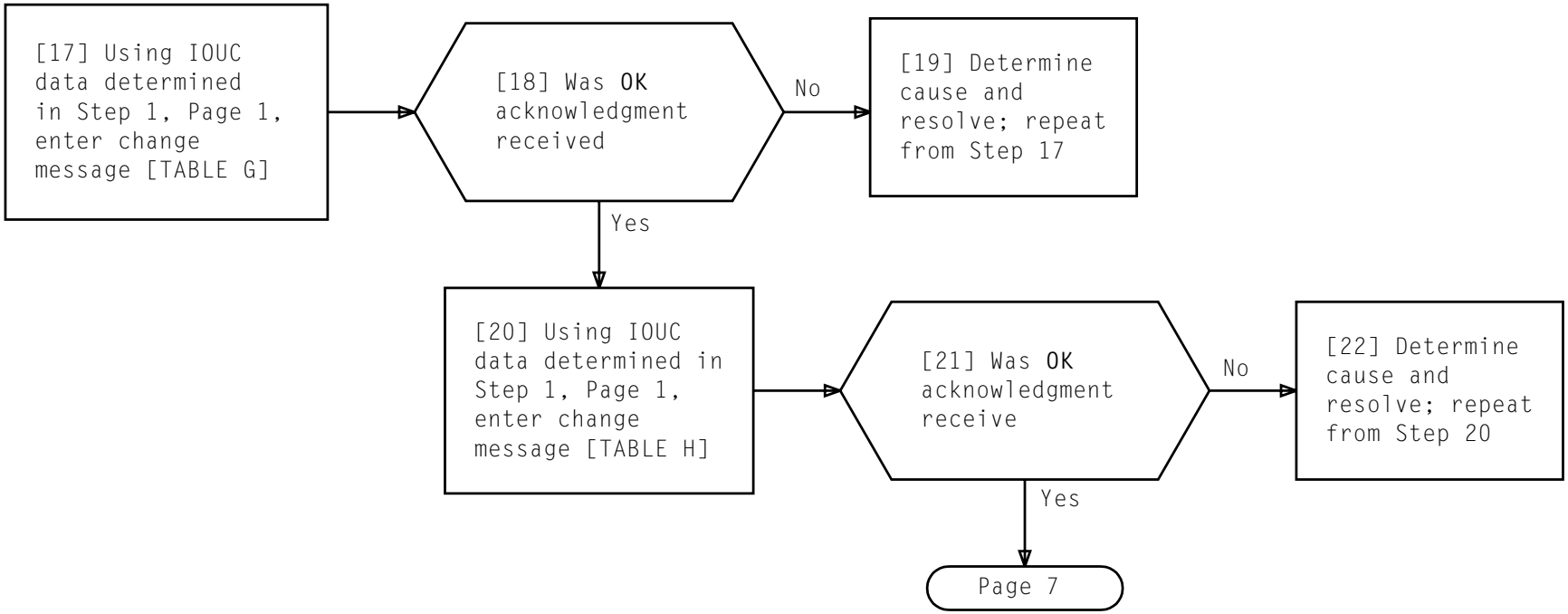


TABLE G
IN:XLBUF:IOUS a,IOUC b,SPD 56000!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE H
IN:XLBUF:IOUS a,IOUC b,MODE FLLDPX!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

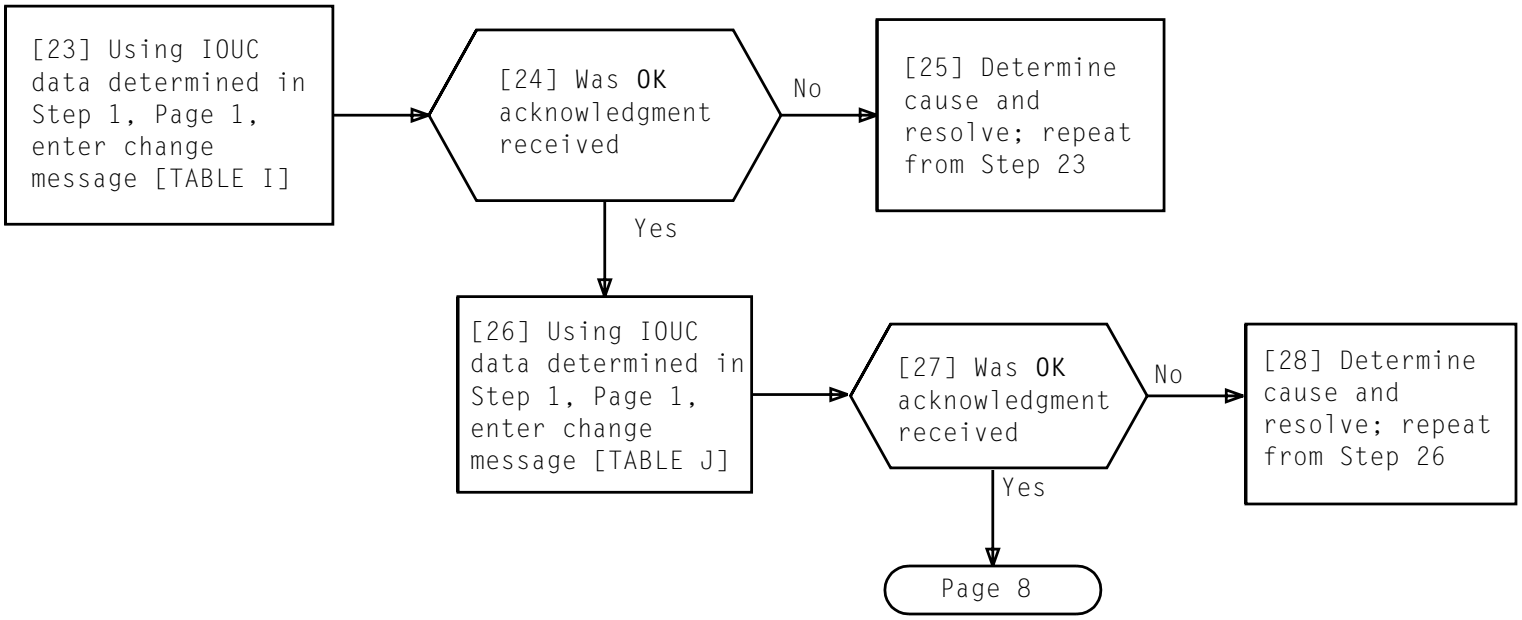


TABLE I
IN:XLBUF:IOUS a,IOUC b,DIALUP N!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE J
IN:XLBUF:IOUS a,IOUC b,TRMTYP NONE!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

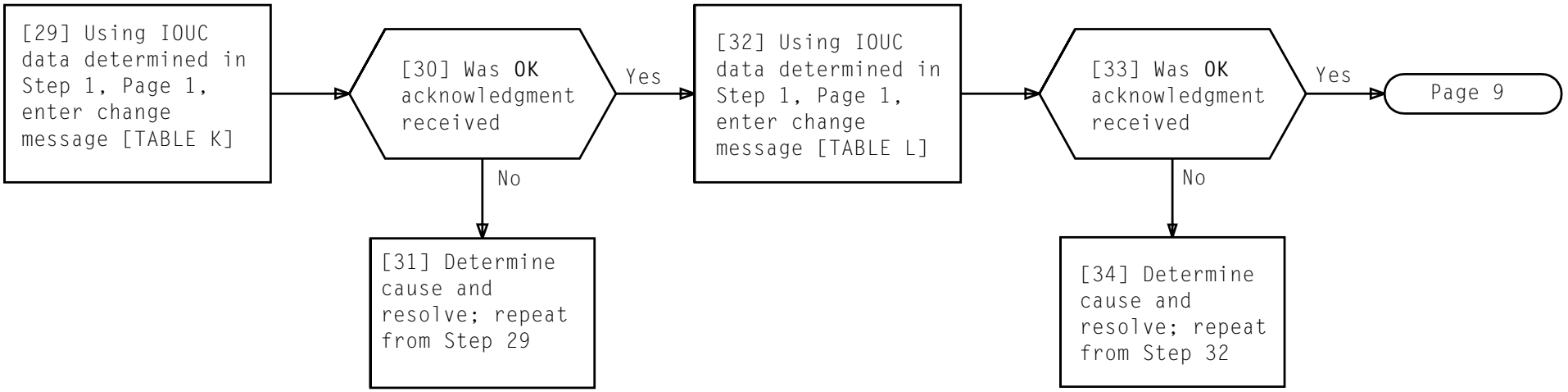


TABLE K
IN:XLBUF:IOUS a,IOUC b,TAPE N!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE L
IN:XLBUF:IOUS a,IOUC b,CHTYP 0!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

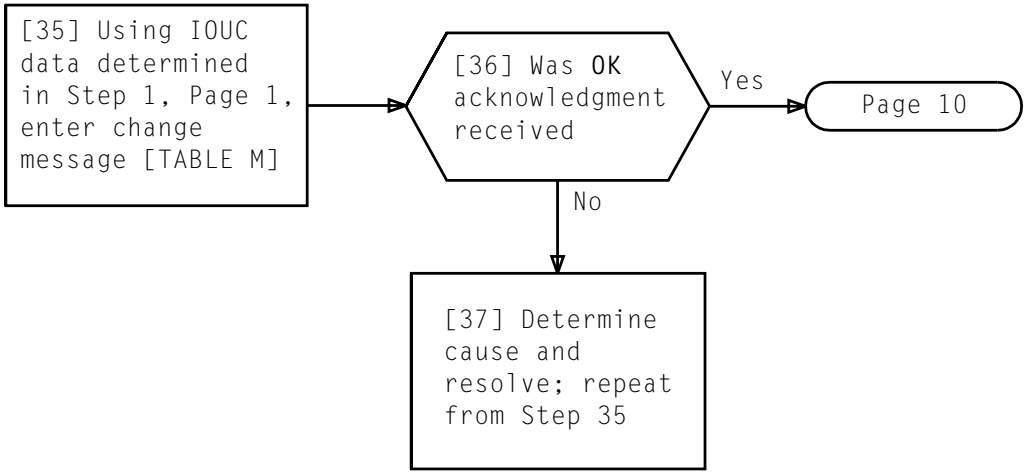


TABLE M
IN:XLBUF:IOUS a,IOUC b,PHAPPLID 0!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11 14, or 15)

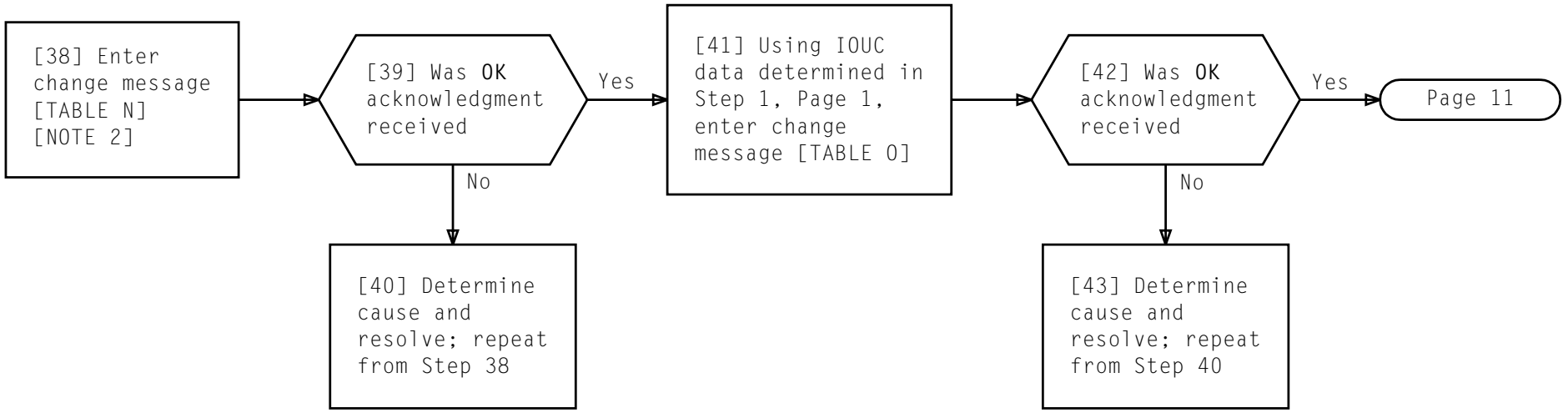


TABLE N
IN:XLBUF:IOUS a,IOUC b,STATYP c!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15) c = DTE or DCE. See NOTE 2.

TABLE O
IN:XLBUF:IOUS a,IOUC b,ACU N!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

NOTE 2

The station type identifies if an ASTN channel is considered Data Terminal Equipment (DTE) or Data Communication Equipment (DCE). This is determined by comparing the Network Switch Number (NSN) of the *4ESS* switches on either end of the link. The switch with the lower NSN will specify DCE and the switch with the higher NSN will specify DTE

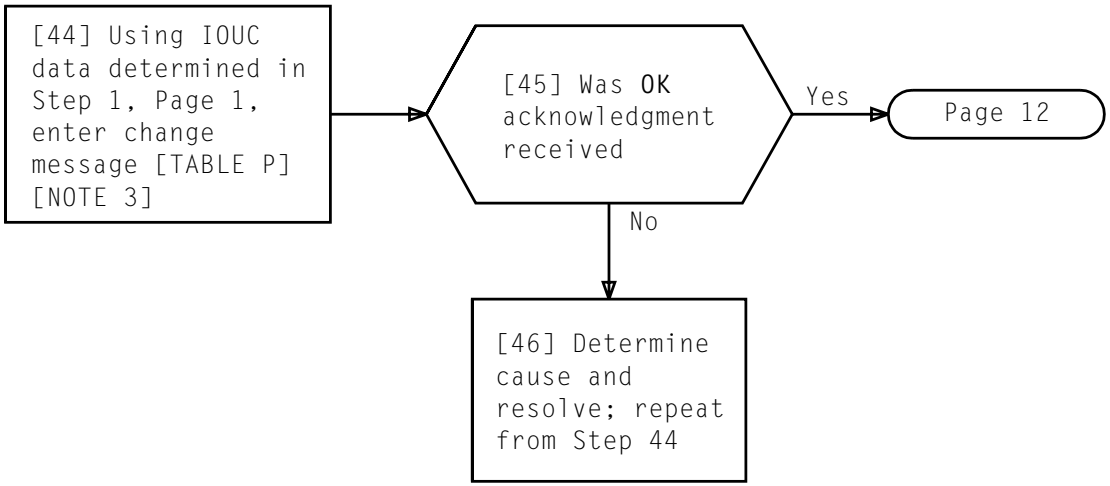


TABLE P
IN:XLBUF1:IOUS a,IOUC b,SCHAN Y!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

NOTE 3
Be sure to enter a 1 when entering this command (XLBUF1). This command is different from the other XLBUF commands

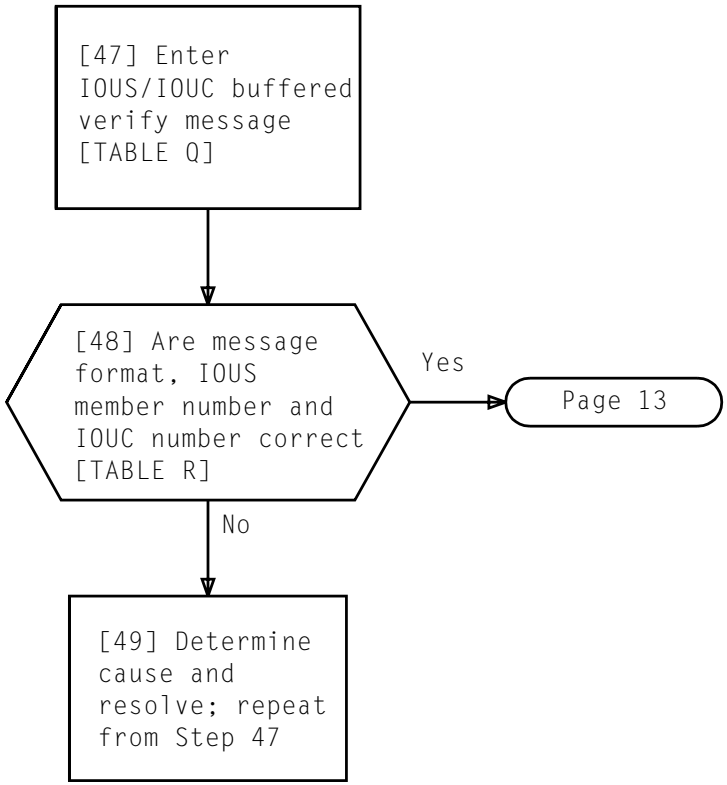
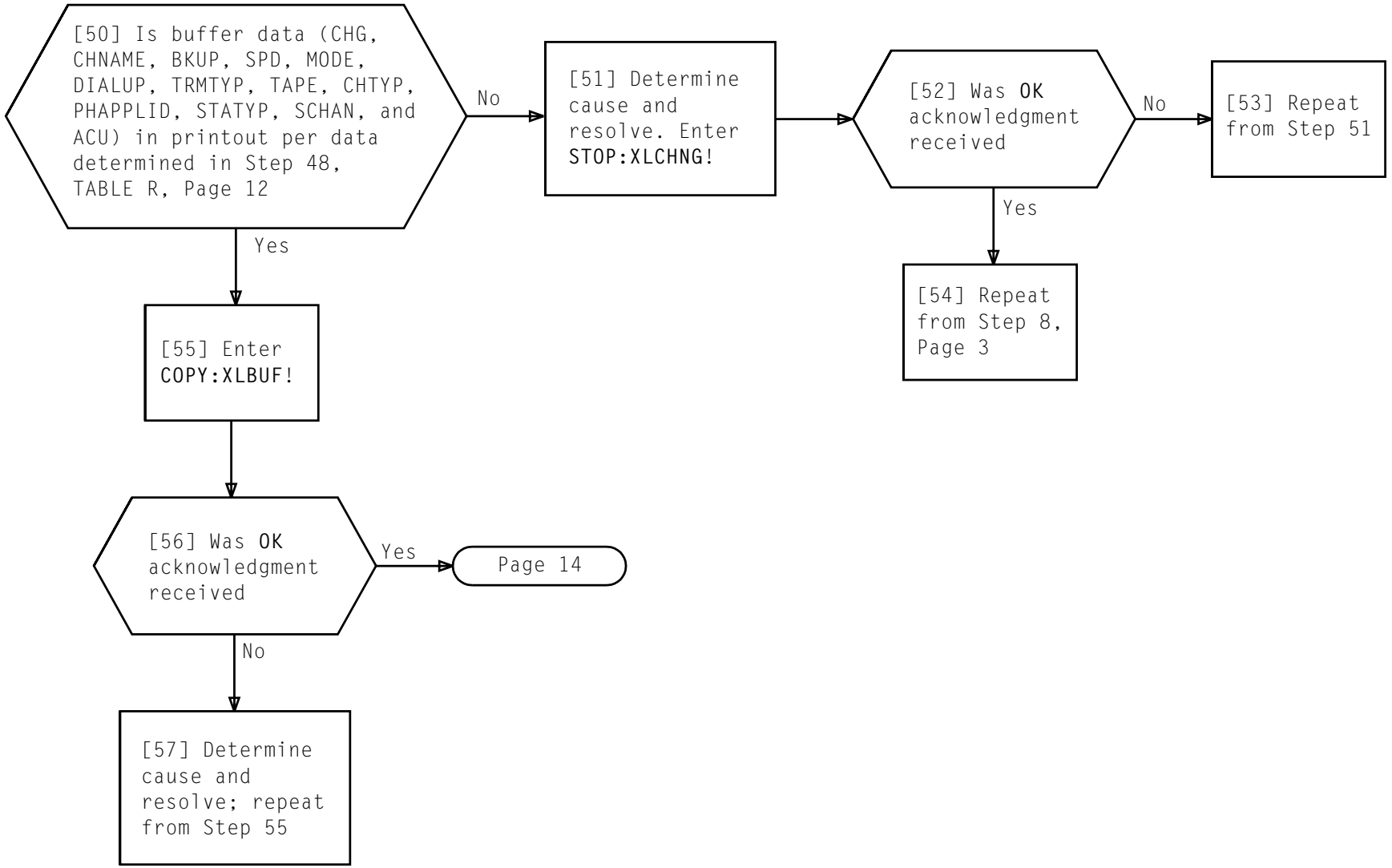


TABLE Q

VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE R

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=UNEQ CHG=c CHNAME=d BKUP=e SPD=f MODE=g DIALUP=h TRMTYP=i TAPE=j CHTYP=k PHAPPLID=l STATYP=m ACU=n SCHAN=o . .	a = Member number (0-7) b = Submember number (10,11,14, or 15) c = Channel hardware generation (7) d = Channel name (TABLE D) e = Backup channel name (TABLE F) f = Channel speed (56000 kbps) g = FLLDPX h = N i = NONE j = N k = Channel type (00) l = Protocol handler application ID (0) m = Station type (DCE) or (DTE) n = Automatic calling unit (N) o = Signaling channel (Y)


[50] Is buffer data (CHG, CHNAME, BKUP, SPD, MODE, DIALUP, TRMTYP, TAPE, CHTYP, PHAPPLID, STATYP, SCHAN, and ACU) in printout per data determined in Step 48, TABLE R, Page 12
No
[51] Determine cause and resolve. Enter STOP:XLCHNG!
[52] Was OK acknowledgment received
No
[53] Repeat from Step 51
Yes
[54] Repeat from Step 8, Page 3
Yes
[55] Enter COPY:XLBUF!
[56] Was OK acknowledgment received
Yes
Page 14
No
[57] Determine cause and resolve; repeat from Step 55

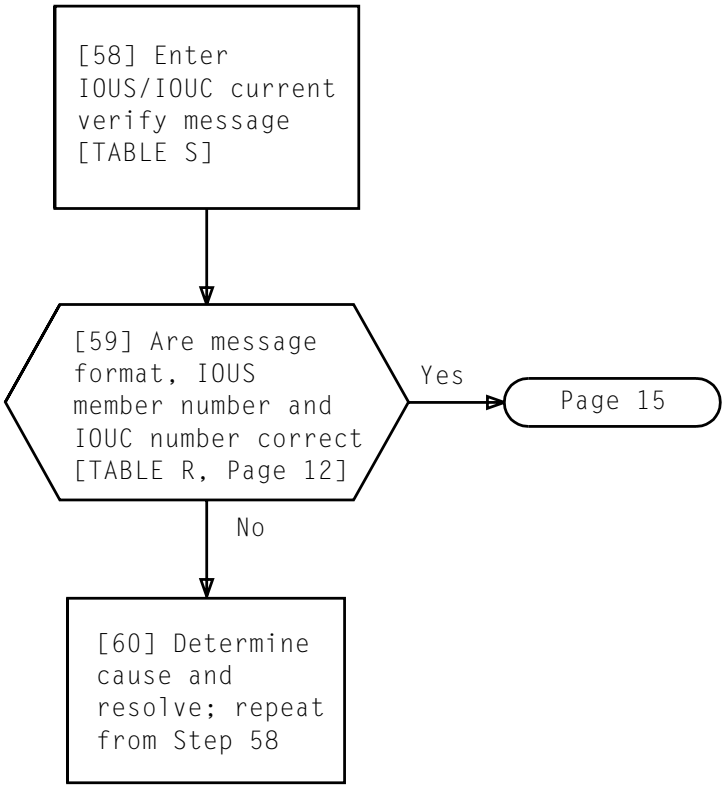
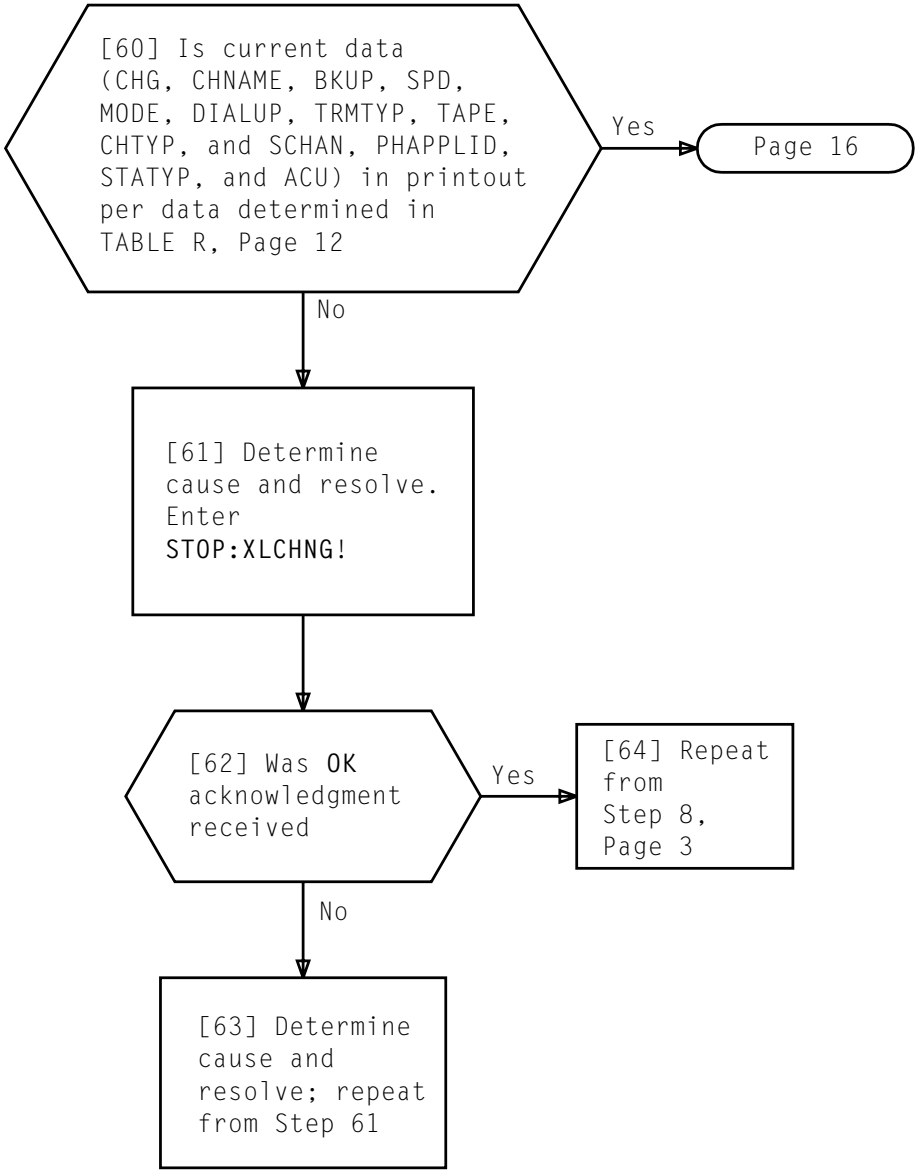
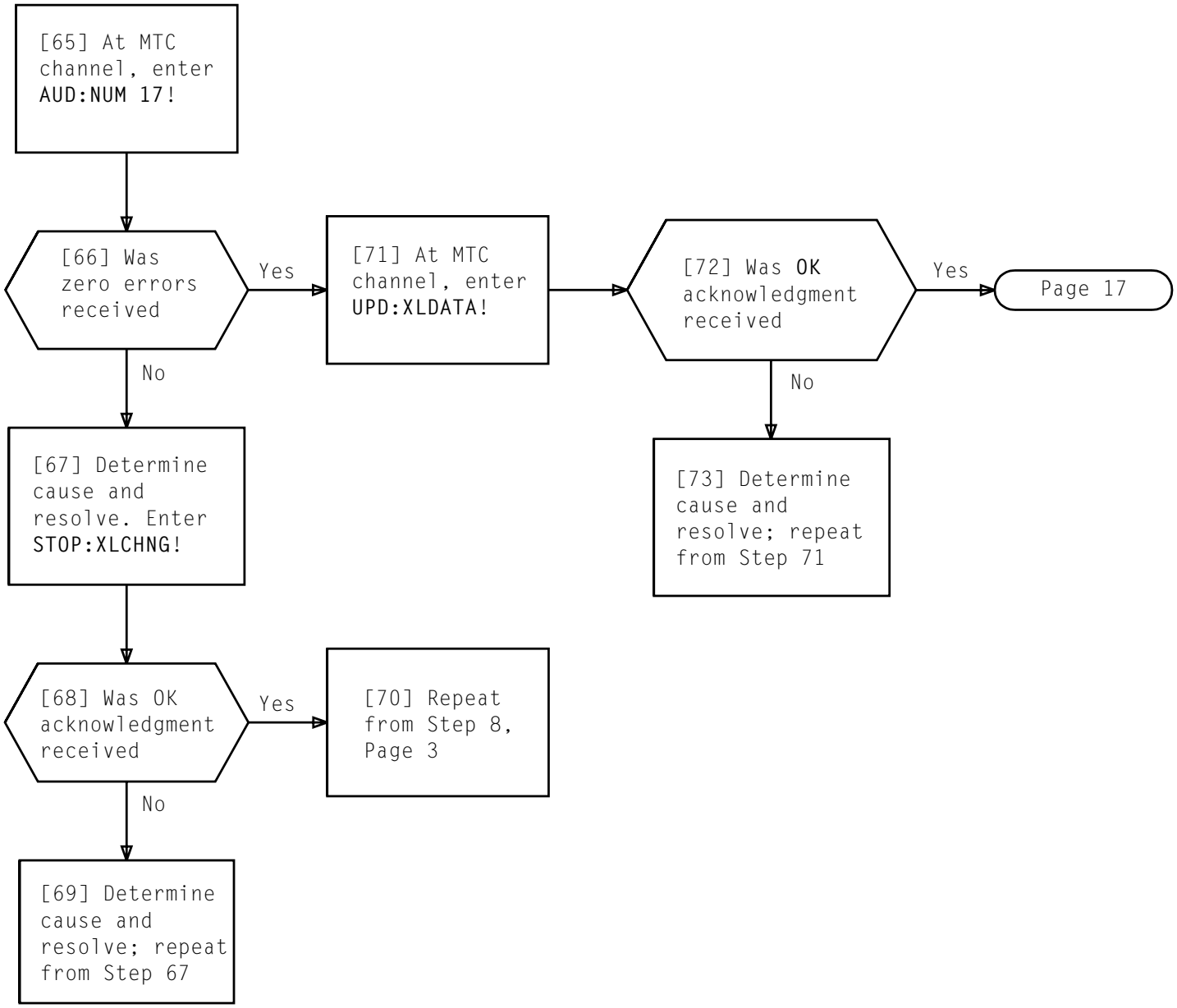


TABLE S

VER:UTMN:IOUS a,IOUC b!

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC
(10,11,14, or 15)


[60] Is current data (CHG, CHNAME, BKUP, SPD, MODE, DIALUP, TRMTYP, TAPE, CHTYP, and SCHAN, PHAPPLID, STATYP, and ACU) in printout per data determined in TABLE R, Page 12
Yes
Page 16
No
[61] Determine cause and resolve. Enter STOP:XLCHNG!
[62] Was OK acknowledgment received
Yes
[64] Repeat from Step 8, Page 3
No
[63] Determine cause and resolve; repeat from Step 61


[65] At MTC channel, enter AUD:NUM 17!
[66] Was zero errors received
Yes
No
[71] At MTC channel, enter UPD:XLDATA!
[72] Was OK acknowledgment received
Yes
Page 17
No
[73] Determine cause and resolve; repeat from Step 71
[67] Determine cause and resolve. Enter STOP:XLCHNG!
[68] Was OK acknowledgment received
Yes
[70] Repeat from Step 8, Page 3
No
[69] Determine cause and resolve; repeat from Step 67

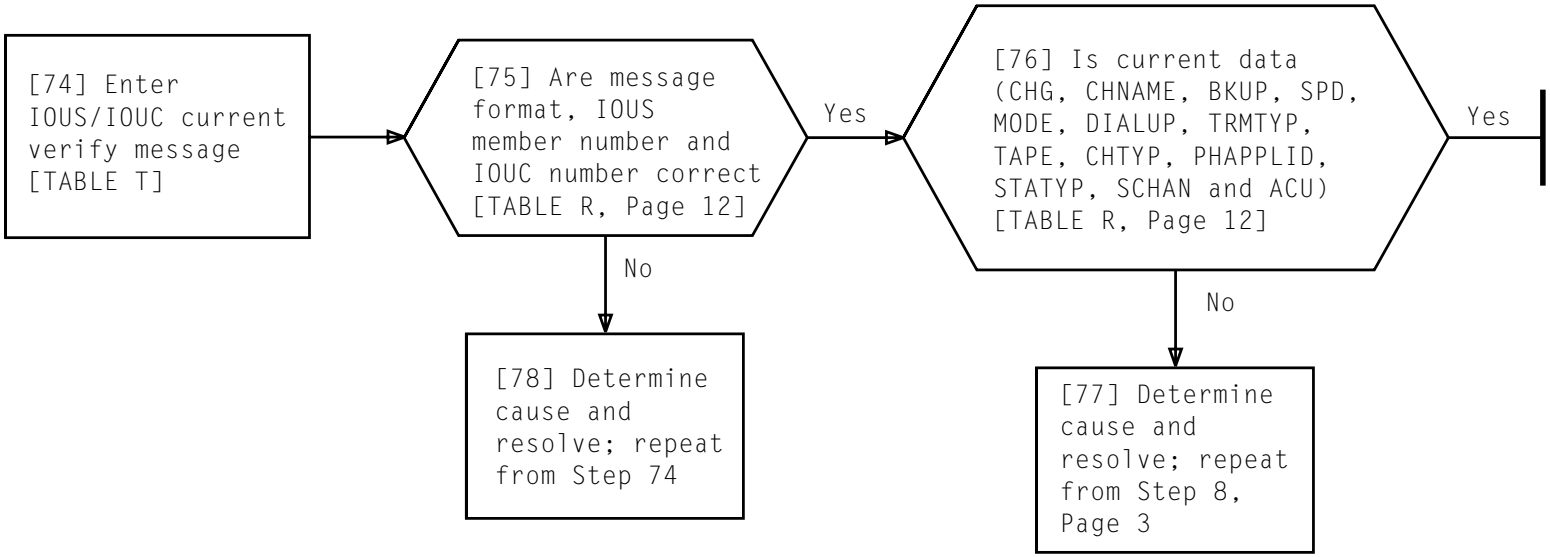


TABLE T
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

SUMMARY

Enter change message to grow channel equipage (CE) from UNEQ to GROW. Verify buffered CE, enter copy message, then verify current CE. If after each verify CE is in error, enter stop message and start change from beginning. If CE is correct after current verify, enter update message and verify that data is correct in translator

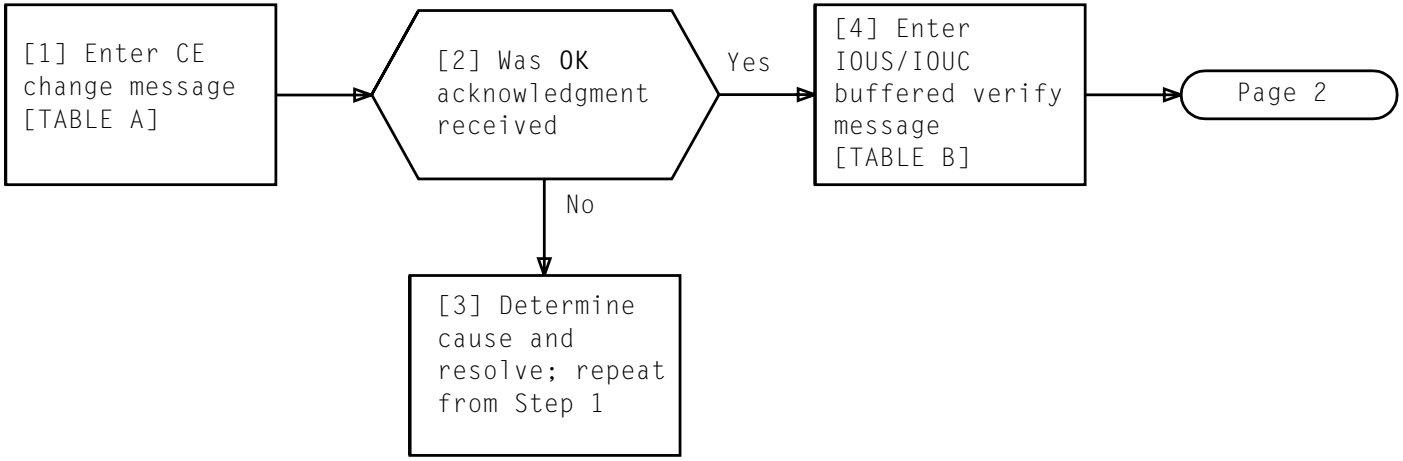


TABLE A
IN:XLBUF:IOUS a,IOUC b,CE (UNEQ,GROW)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY CHANNEL EQUIPAGE UNEQUIPPED TO GROW

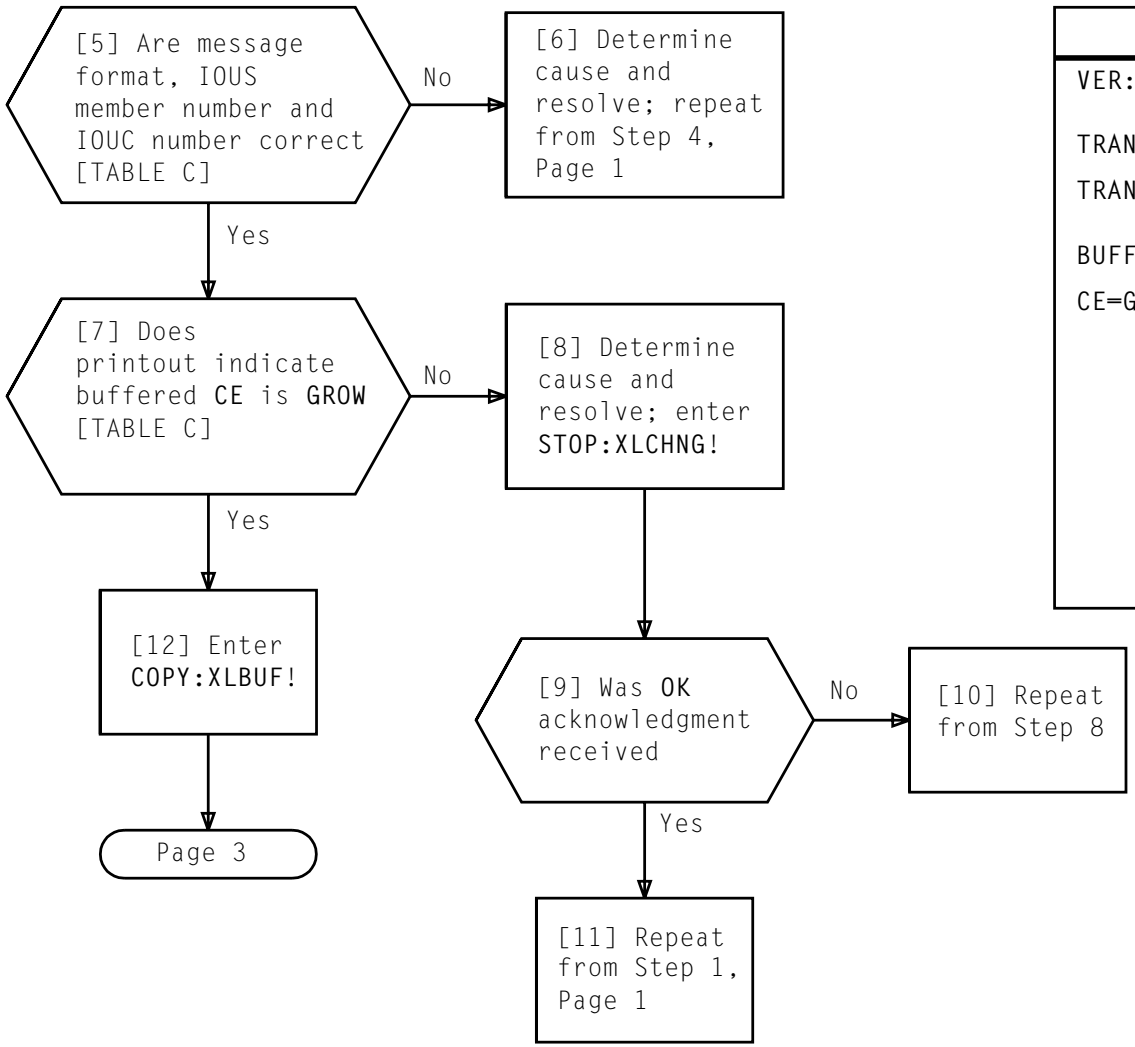


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=GROW	a = Member number b = Submember number

CHANGE AND VERIFY CHANNEL EQUIPAGE UNEQUIPPED TO GROW

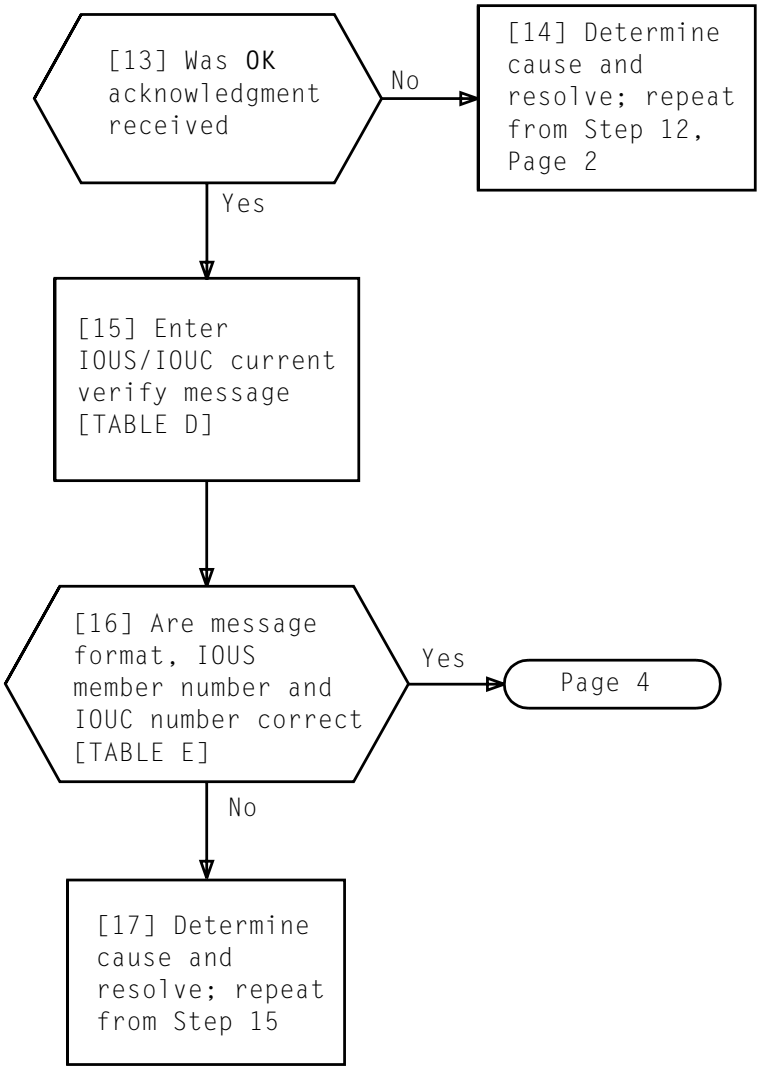


TABLE D
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E	
VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=GROW	a = Member number b = Submember number

CHANGE AND VERIFY CHANNEL EQUIPAGE UNEQUIPPED TO GROW

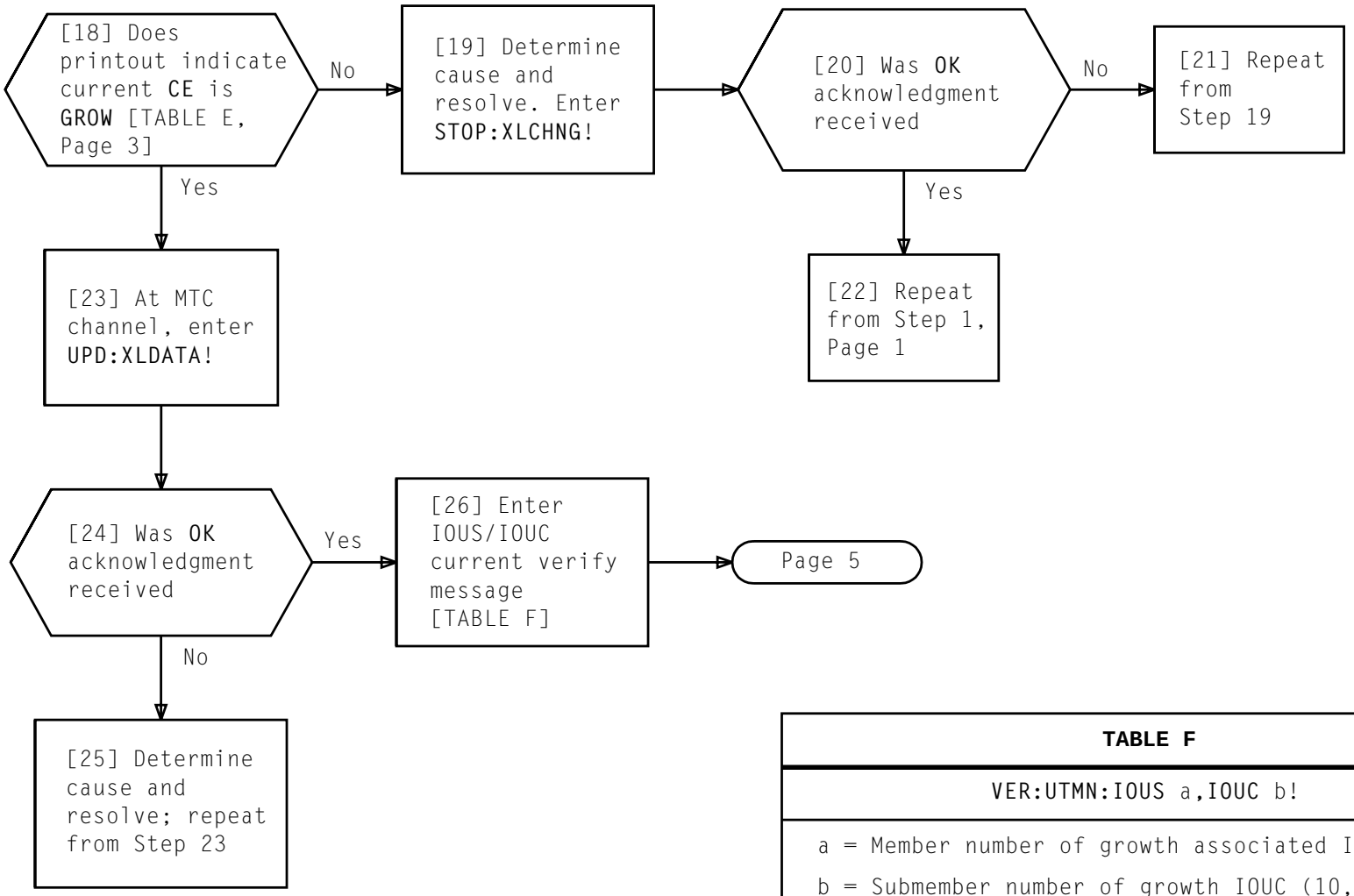
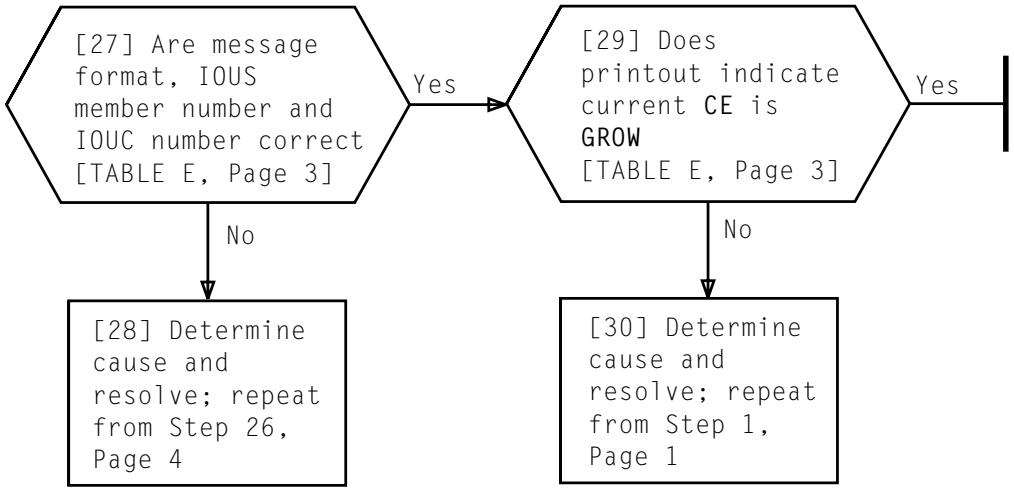


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY CHANNEL EQUIPAGE UNEQUIPPED TO GROW


[27] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[29] Does printout indicate current CE is GROW [TABLE E, Page 3]
Yes
No
No
[28] Determine cause and resolve; repeat from Step 26, Page 4
[30] Determine cause and resolve; repeat from Step 1, Page 1

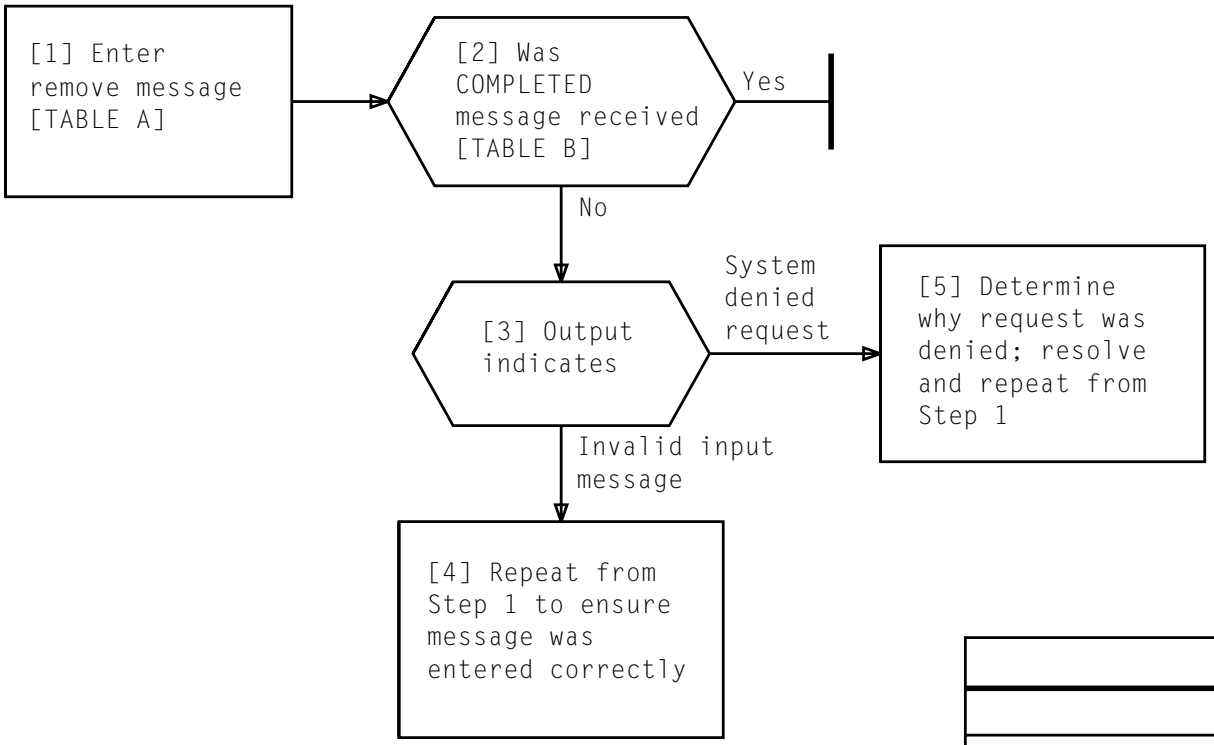


TABLE A
RMV:IOUS a,IOMP b!
a = Member number of growth associated unit type (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE B
RMV:IOUS a IOMP b COMPLETED
a = Member number of growth associated unit type (0-7)
b = Submember number of growth IOMP — 0 or 1

REMOVE INPUT/OUTPUT MICROPROCESSOR FROM SERVICE

[1] Turn power supply switch to **OFF** on both 136H, 136N converter(s) in growth associated IOMP [FIG. 1]

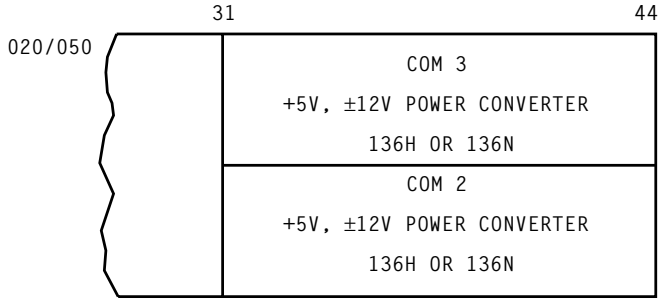


FIG. 1

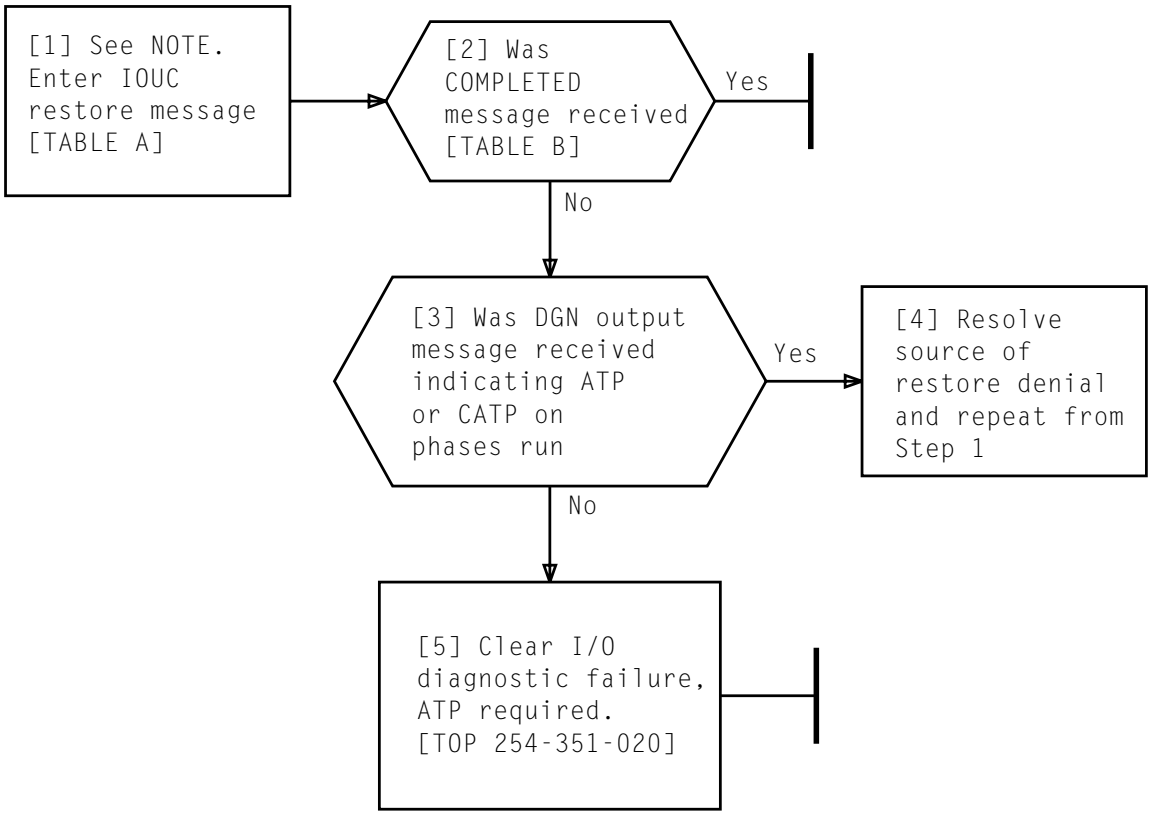


TABLE A
RST:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE B
RST:IOUS a,IOUC b COMPLETED
a = Member number (0-7) b = Submember number (10,11,14, or 15)

NOTE
Restore message will cause I/O diagnostic to be run

RESTORE IOUC TO SERVICE

[1] Turn power supply switch to **ON** on both 136H, 136N converter(s) in growth associated IOMP [FIG. 1]

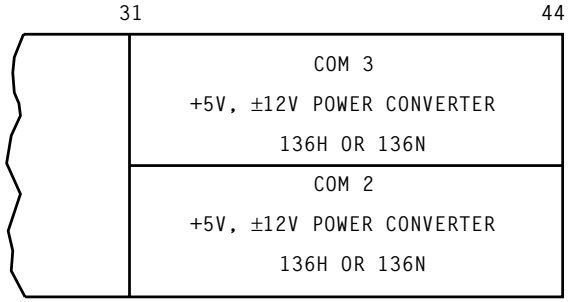


FIG. 1

RESTORE POWER TO INPUT/OUTPUT MICROPROCESSOR COMMUNITY (SD-4C049)

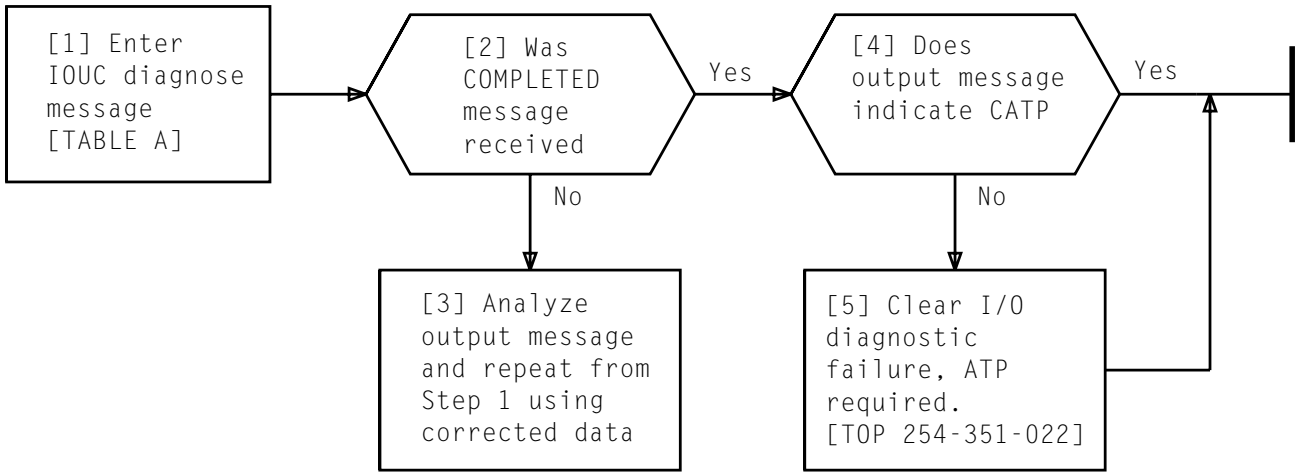


TABLE A
DGN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

DIAGNOSE GROWTH IOUC

SUMMARY

Enter change message to grow channel equipage (CE) from GROW to SGRO. Verify buffered CE, enter copy message, then verify current CE. If after each verify, CE is in error, enter stop message and start change from beginning. If CE is correct after current verify, enter update message and verify that data is correct in translator

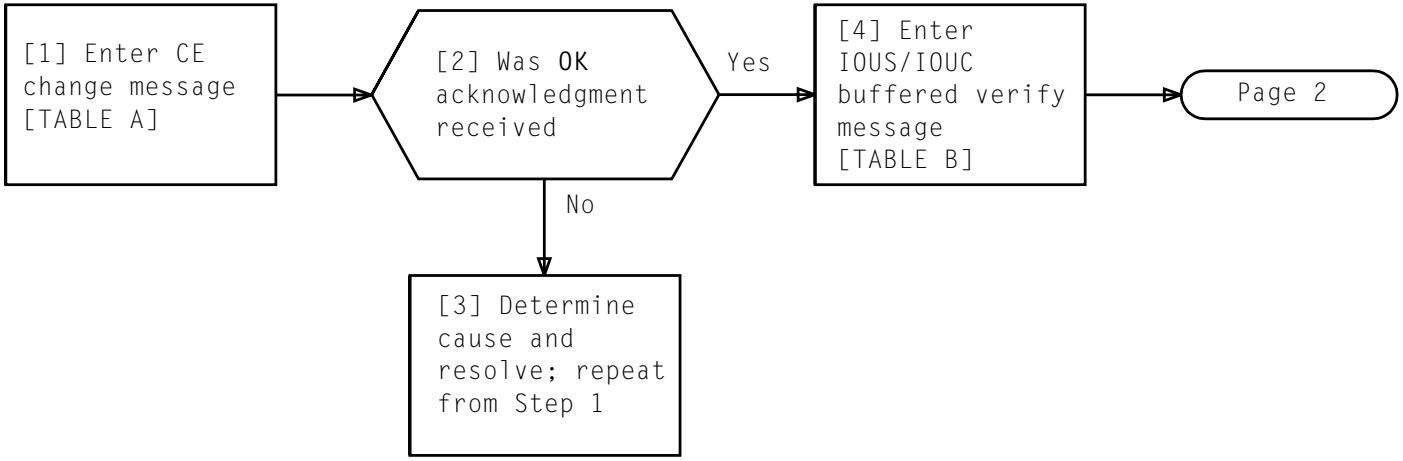


TABLE A
IN:XLBUF:IOUS a,IOUC b,CE (GROW,SGRO)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY CHANNEL EQUIPAGE GROW TO SPECIAL GROWTH

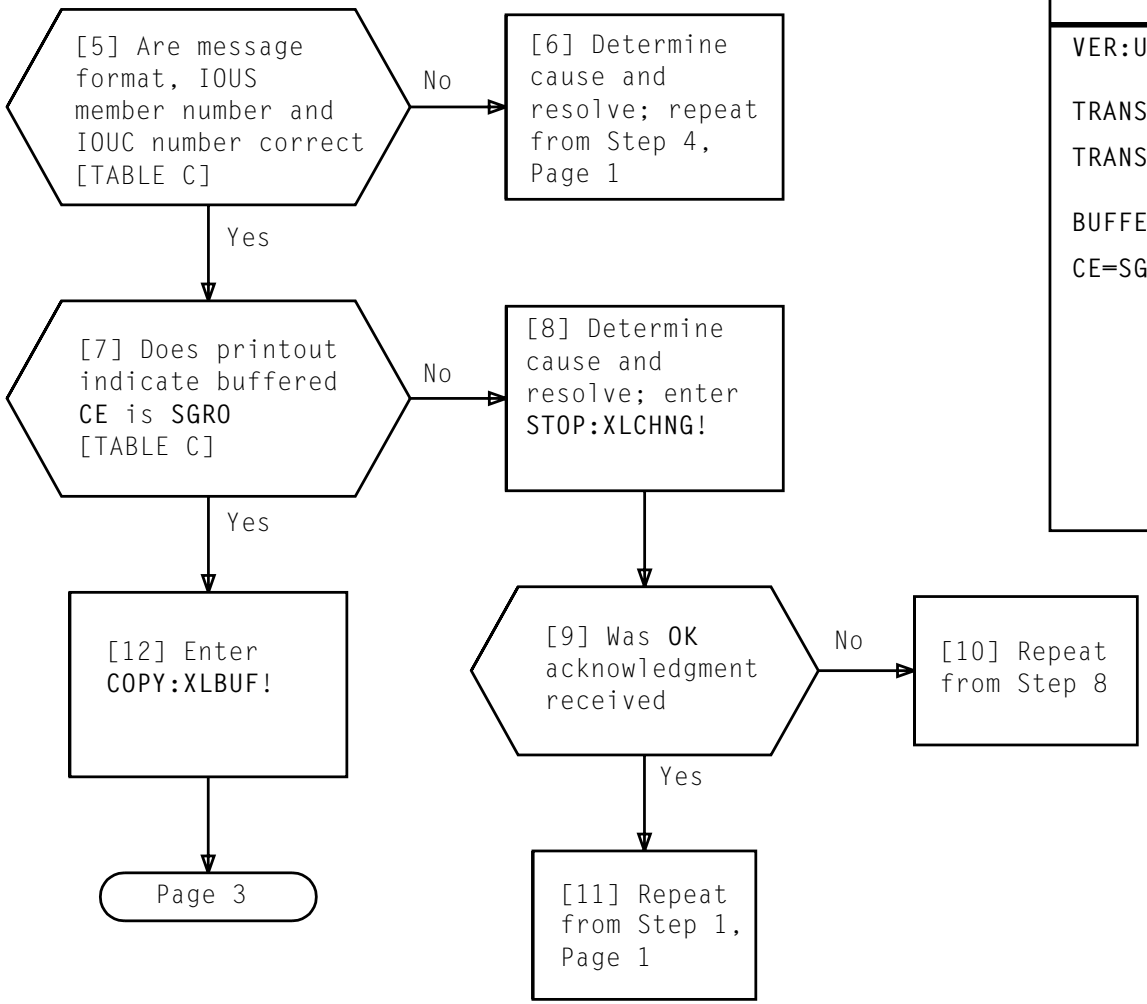


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=SGRO	a = Member number b = Submember number

CHANGE AND VERIFY CHANNEL EQUIPAGE
GROW TO SPECIAL GROWTH

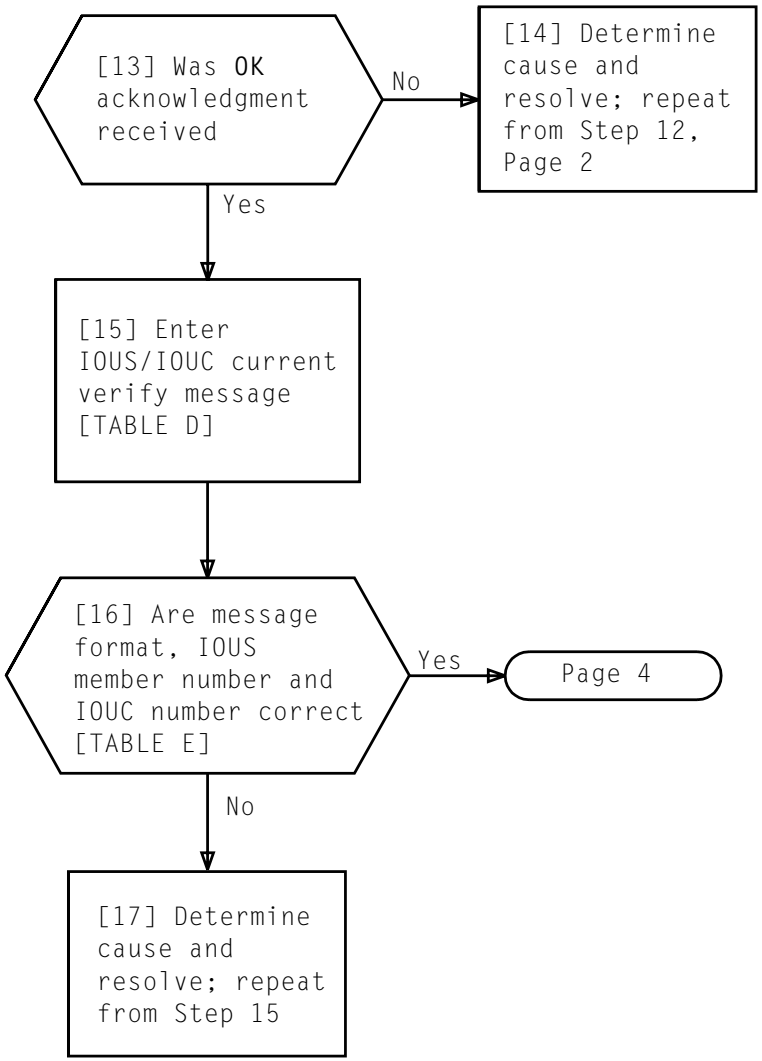


TABLE D
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E	
VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=SGRO	a = Member number b = Submember number

CHANGE AND VERIFY CHANNEL EQUIPAGE GROW TO SPECIAL GROWTH

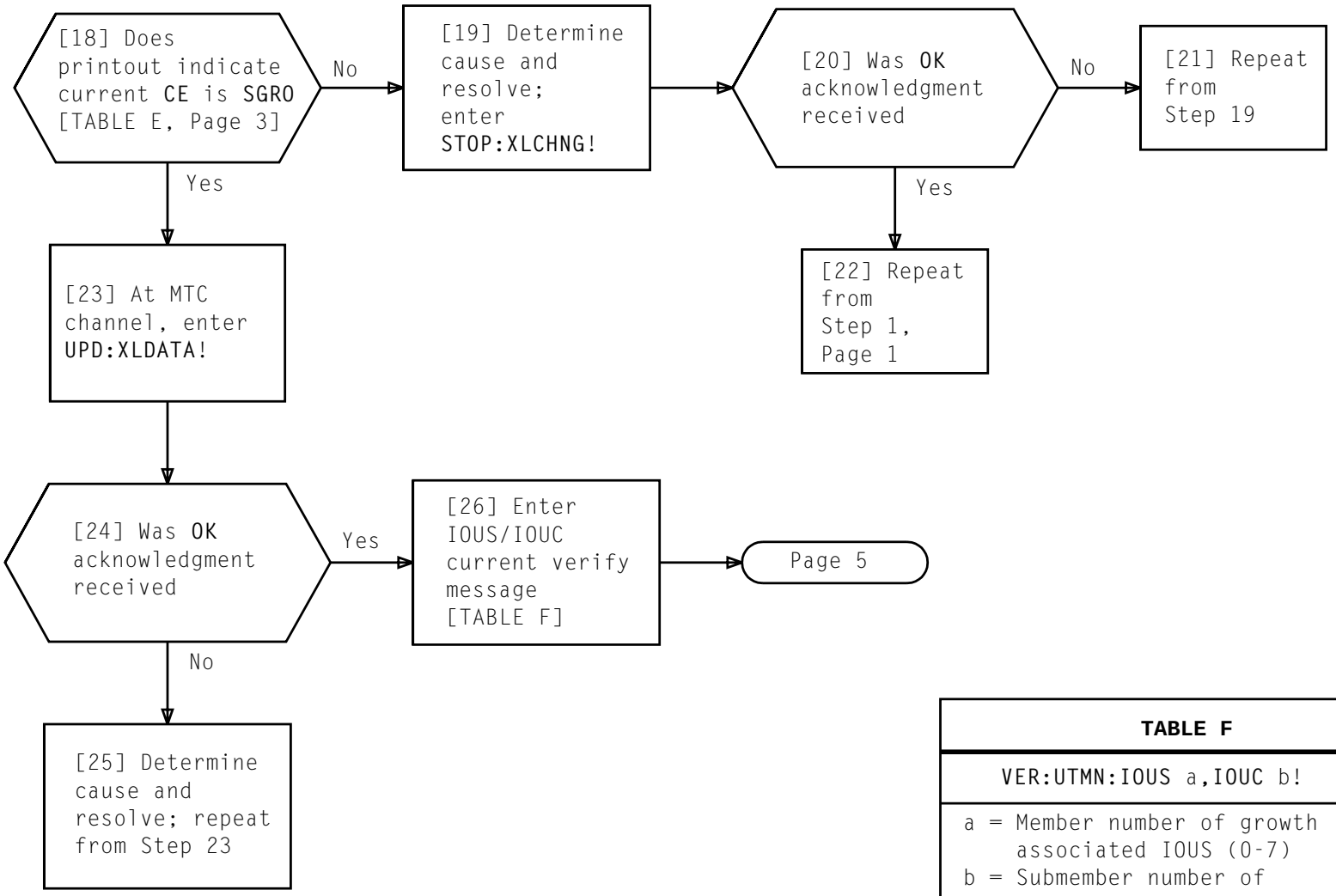
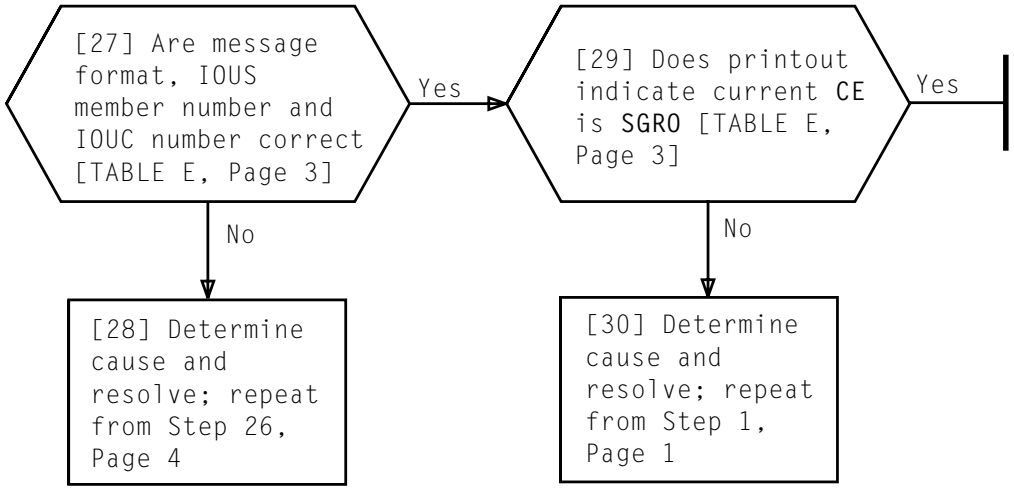


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY CHANNEL EQUIPAGE
GROW TO SPECIAL GROWTH



SUMMARY

Enter change message to grow channel equipage (CE) from SGRO to OPER. Verify buffered CE, enter copy message, then verify current CE. If after each verify CE is in error, enter stop message and start change from beginning. If CE is correct after current verify, enter update message and verify that data is correct in translator

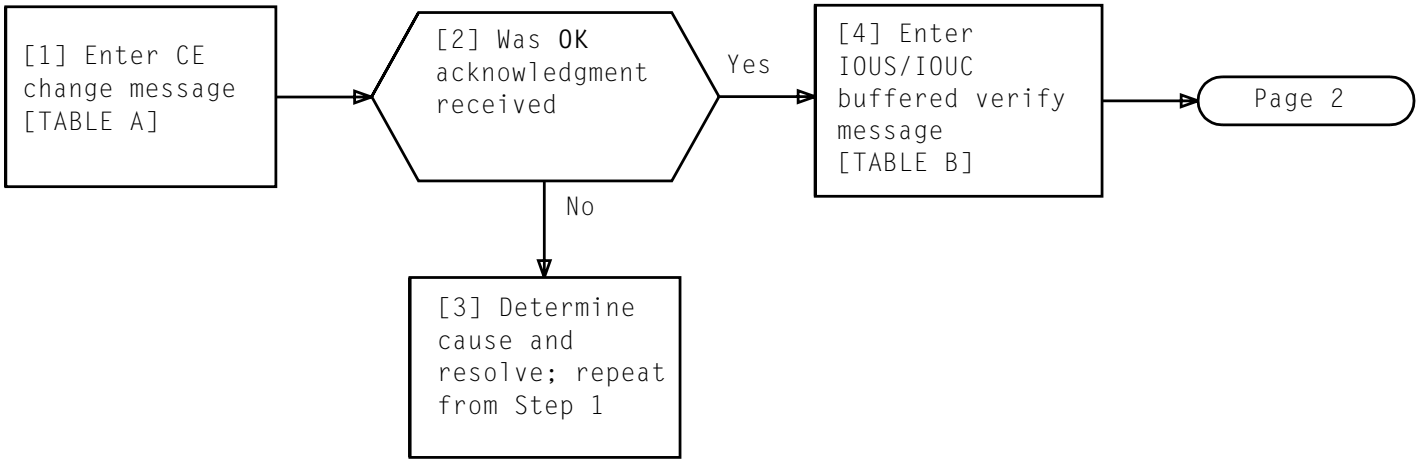


TABLE A
IN:XLBUF:IOUS a,IOUC b,CE (SGRO,OPER)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY CHANNEL EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

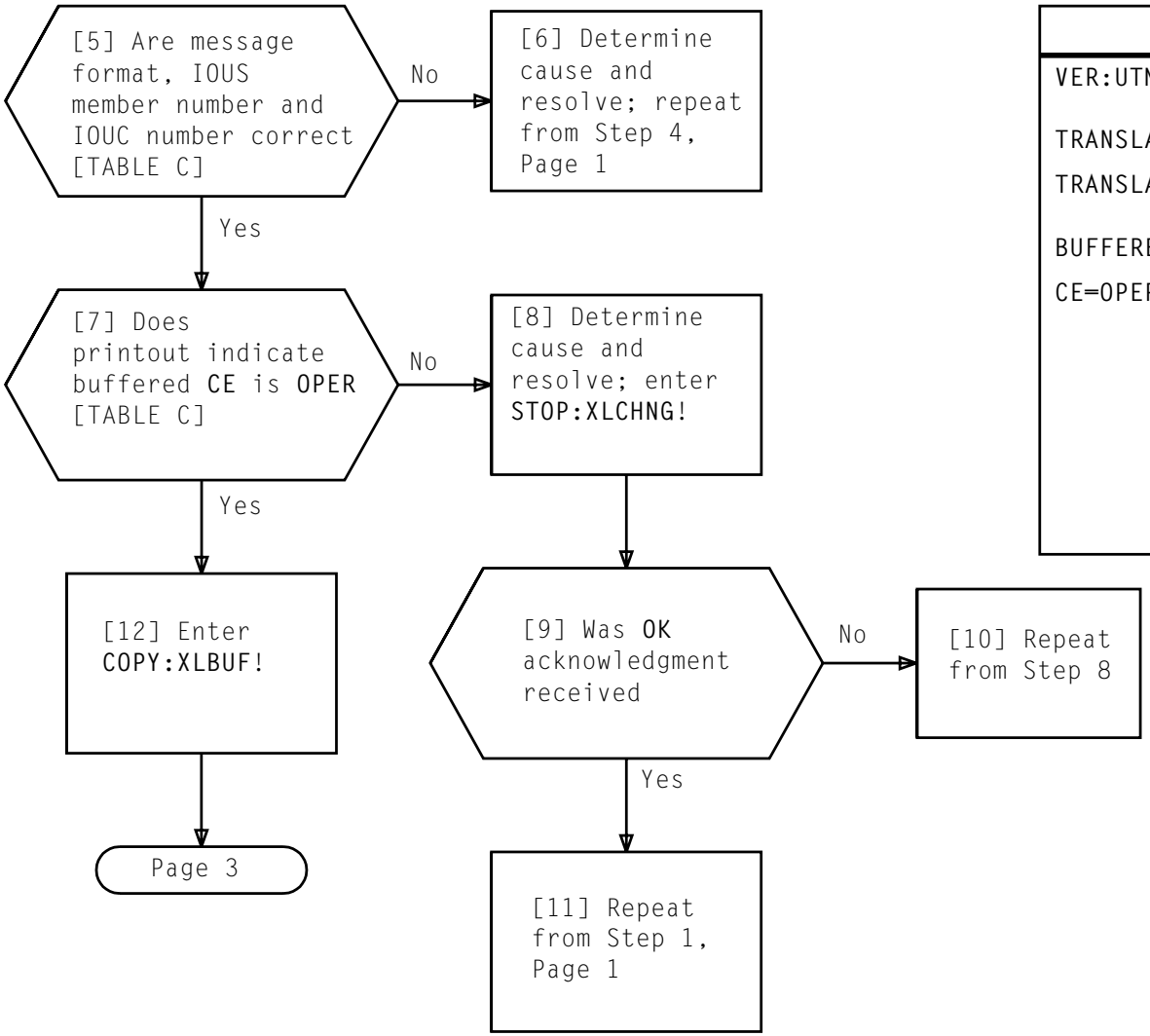


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: CE=OPER	a = Member number (0-7) b = Submember number (8-15)

CHANGE AND VERIFY CHANNEL EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

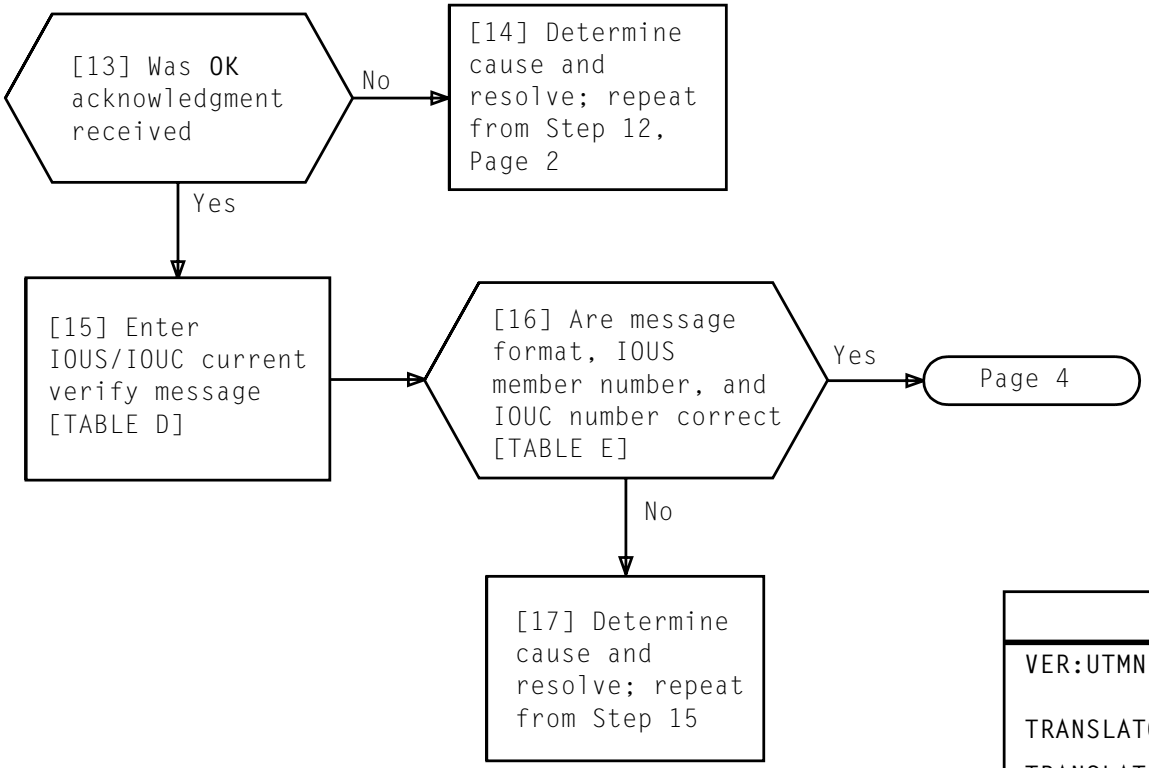


TABLE D
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E	
VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=OPER	a = Member number b = Submember number

CHANGE AND VERIFY CHANNEL EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

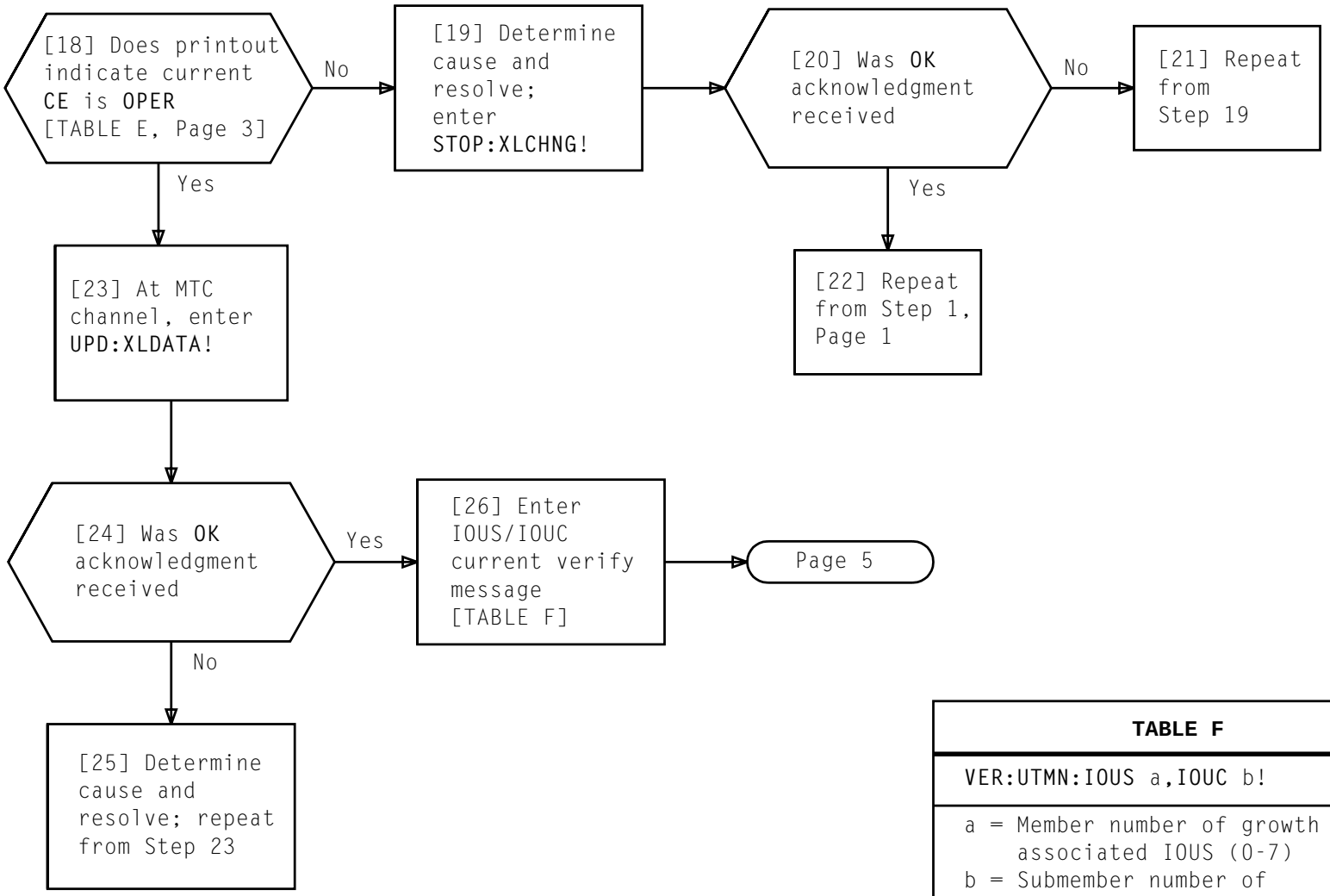
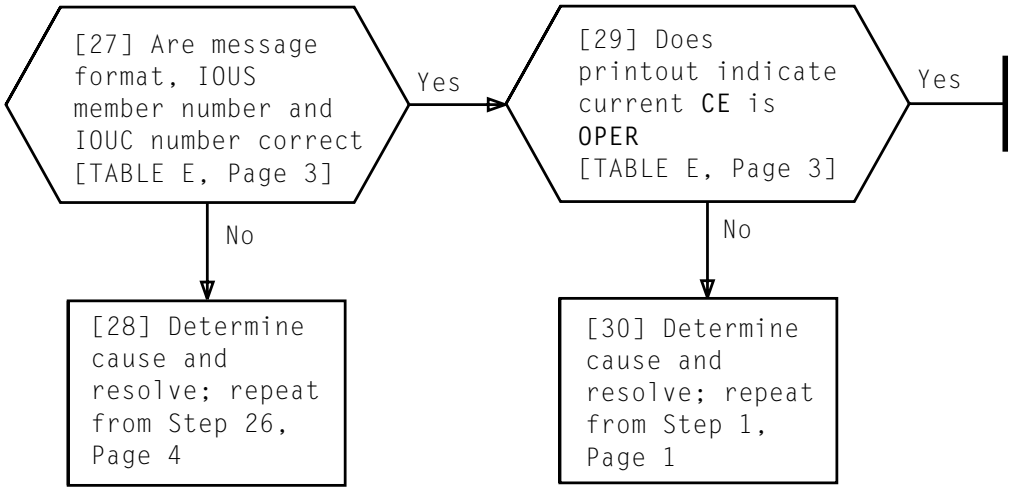


TABLE F

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY CHANNEL EQUIPAGE SPECIAL GROWTH TO OPERATIONAL


[27] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[29] Does printout indicate current CE is OPER [TABLE E, Page 3]
Yes
No
No
[28] Determine cause and resolve; repeat from Step 26, Page 4
[30] Determine cause and resolve; repeat from Step 1, Page 1

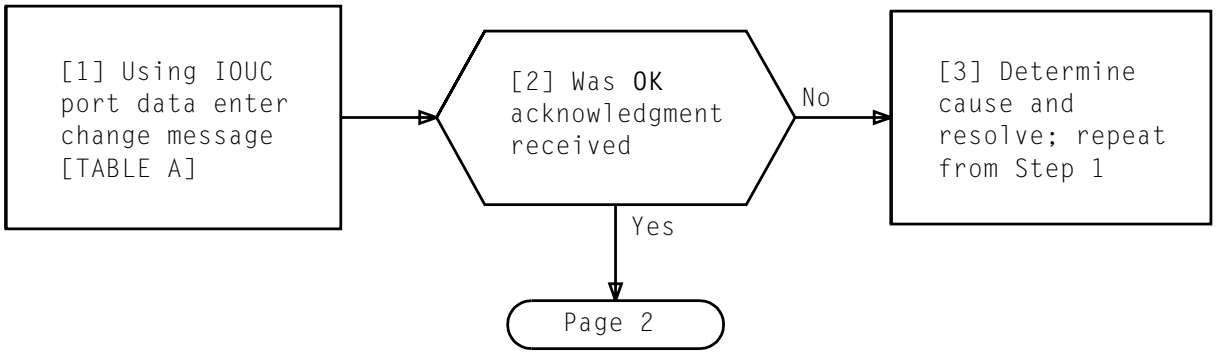


TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT 1,PTC PLDS!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

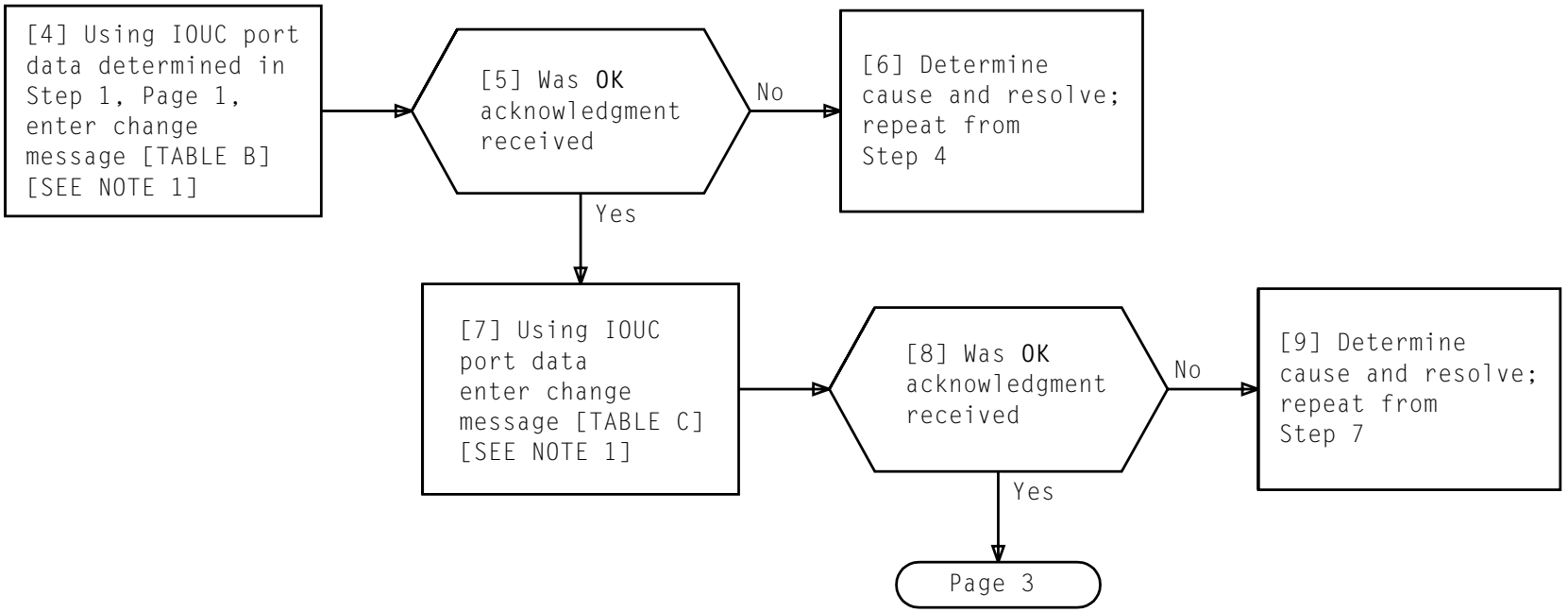


TABLE B
IN:XLBUF:IOUS a,IOUC b,PORT 0,DSTYPE 500A!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE C
IN:XLBUF:IOUS a,IOUC b,PORT 0,SWC N!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

NOTE 1
TN82 presents multiple port assignments. For ASTN growth these assignments are 0(zero) in TABLES B and C

CHANGE AND VERIFY PORT DATA

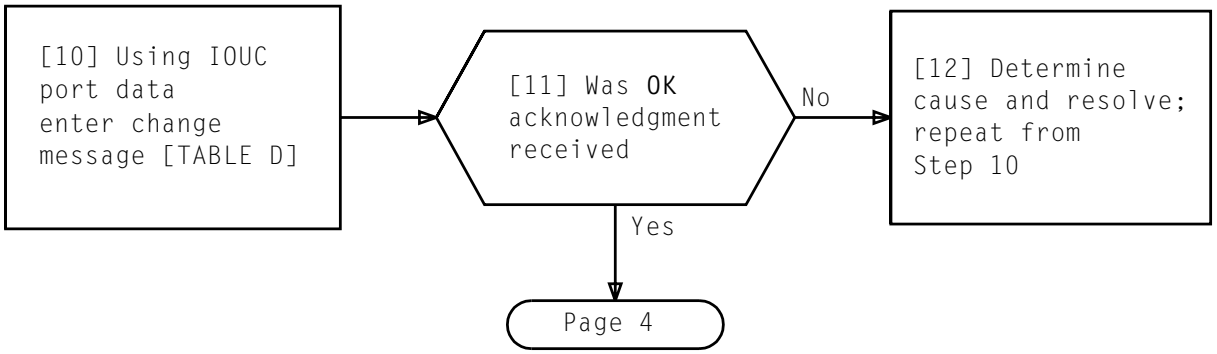


TABLE D
IN:XLBUF:IOUS a,IOUC b,PORT 1,AB N!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

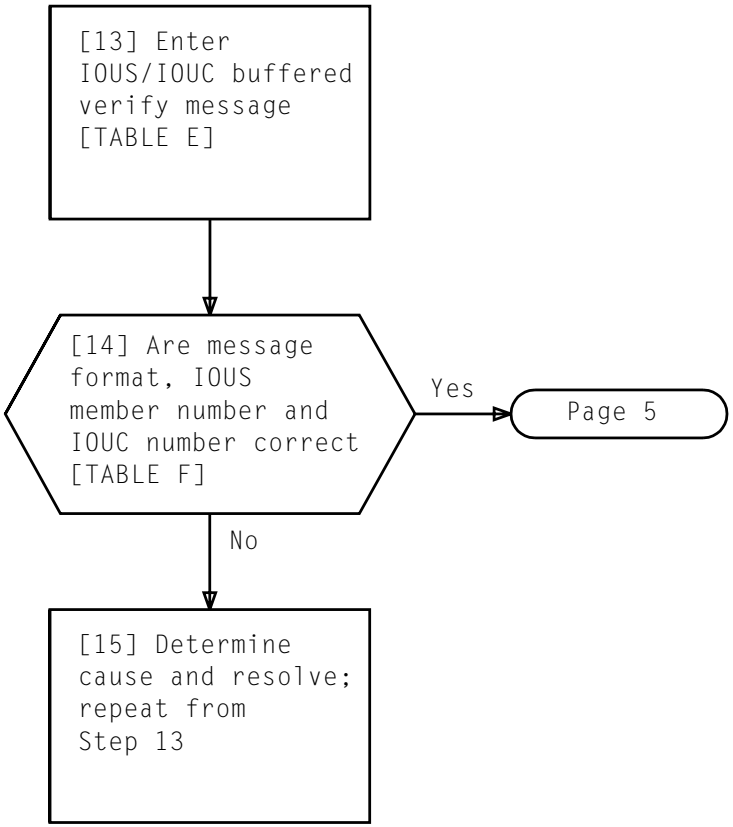
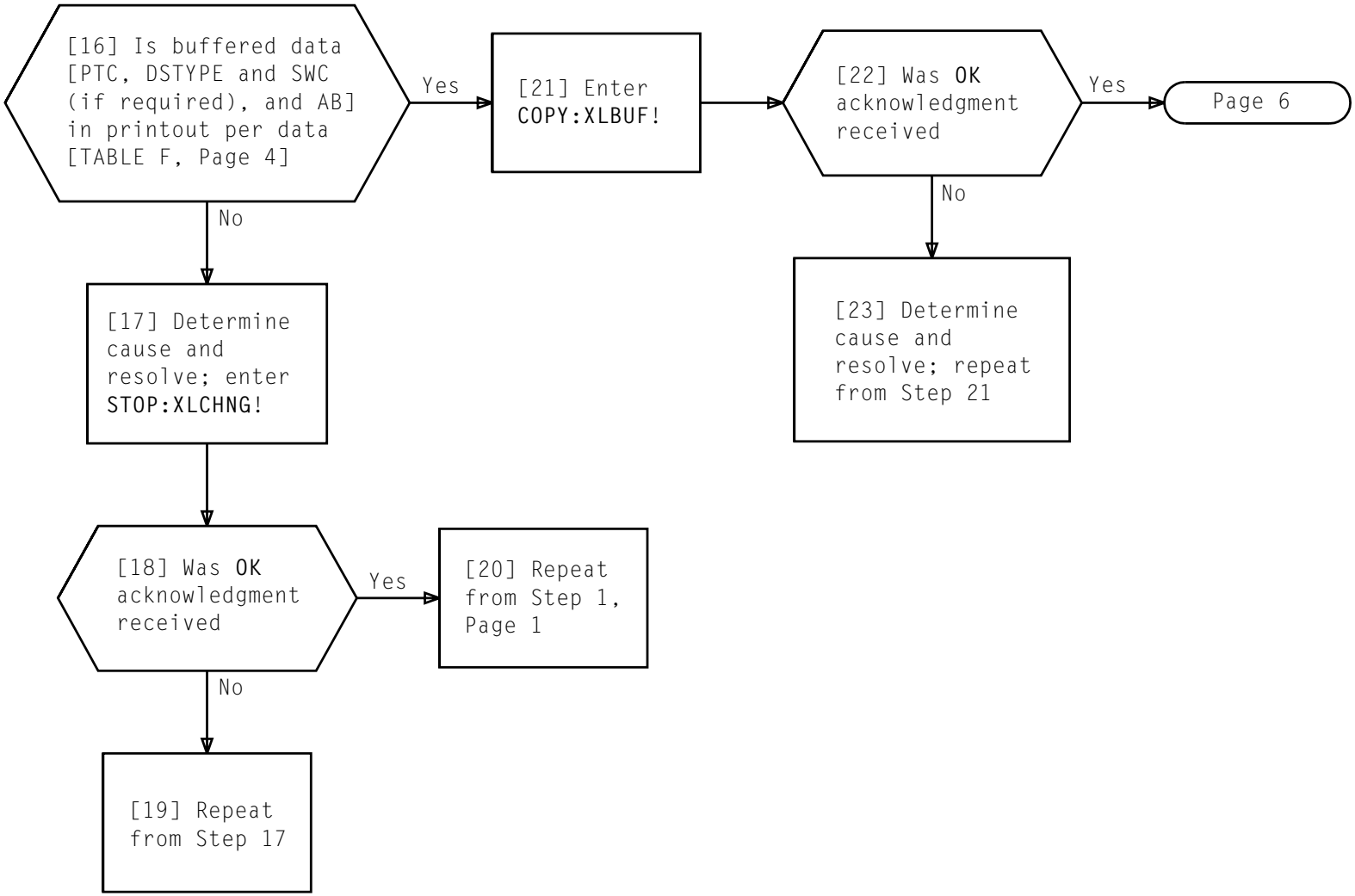


TABLE E

VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE F

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . PORT 0,PRTE=UNEQ PTC=DC DSTYPE=500A SWC=N AB=N PORT 1,PRTE=UNEQ PTC=PLDS AB=N PORT 2,PRTE=UNEQ PTC=DC AB=N	a = Member number b = Submember number PTC = Port connection arrangement — DSTYPE = Data Service Unit type SWC = Switched carrier — AB = Answer back feature —


[16] Is buffered data [PTC, DSTYPE and SWC (if required), and AB] in printout per data [TABLE F, Page 4]
Yes
[21] Enter COPY:XLBUF!
[22] Was OK acknowledgment received
Yes
Page 6
No
[23] Determine cause and resolve; repeat from Step 21
No
[17] Determine cause and resolve; enter STOP:XLCHNG!
[18] Was OK acknowledgment received
Yes
[20] Repeat from Step 1, Page 1
No
[19] Repeat from Step 17

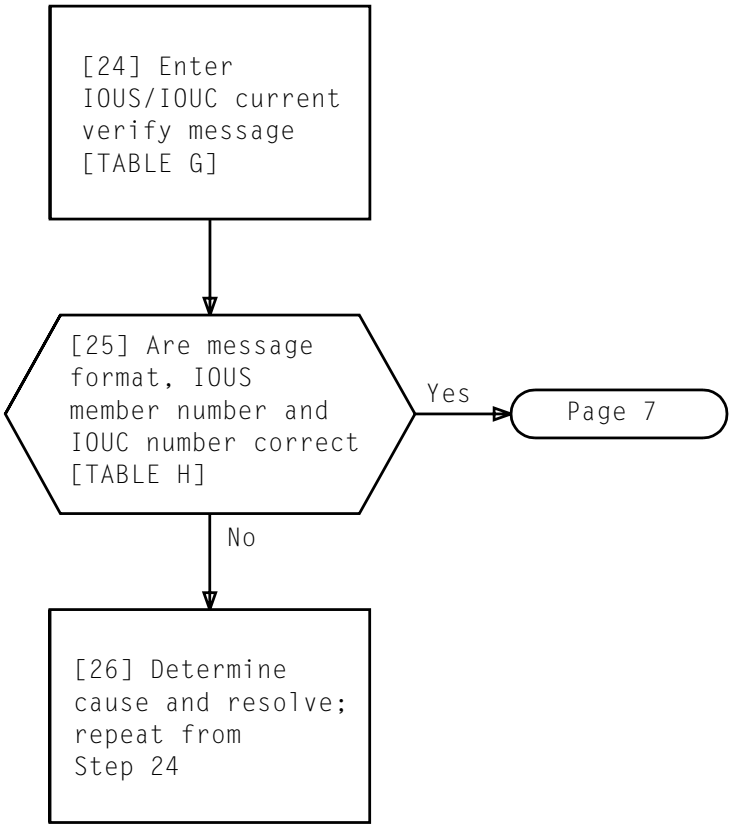
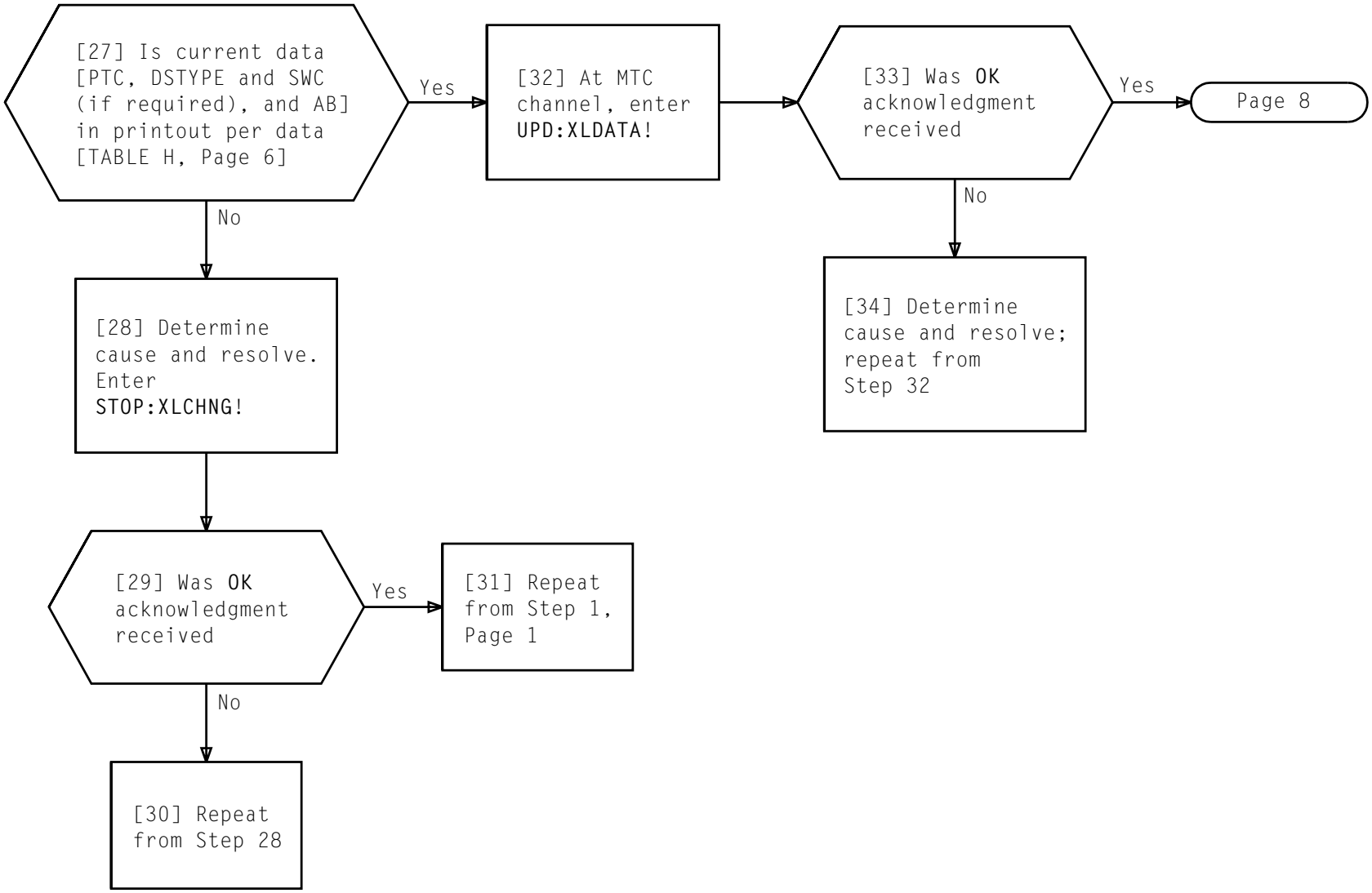


TABLE G

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

TABLE H

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . . PORT 0, PRTE=UNEQ PTC=DC DSTYPE=500A SWC=N AB=N PORT 1, PRTE=UNEQ PTC=PLDS AB=N PORT 2, PRTE=UNEQ PTC=DC AB=N	a = Member number b = Submember number PTC = Port connection arrangement — DSTYPE = Data Service Unit SWC = Switched carrier — AB = Answer back feature —


[27] Is current data [PTC, DSTYPE and SWC (if required), and AB] in printout per data [TABLE H, Page 6]
Yes
[32] At MTC channel, enter UPD:XLDATA!
[33] Was OK acknowledgment received
Yes
Page 8
No
[34] Determine cause and resolve; repeat from Step 32
No
[28] Determine cause and resolve. Enter STOP:XLCHNG!
[29] Was OK acknowledgment received
Yes
[31] Repeat from Step 1, Page 1
No
[30] Repeat from Step 28

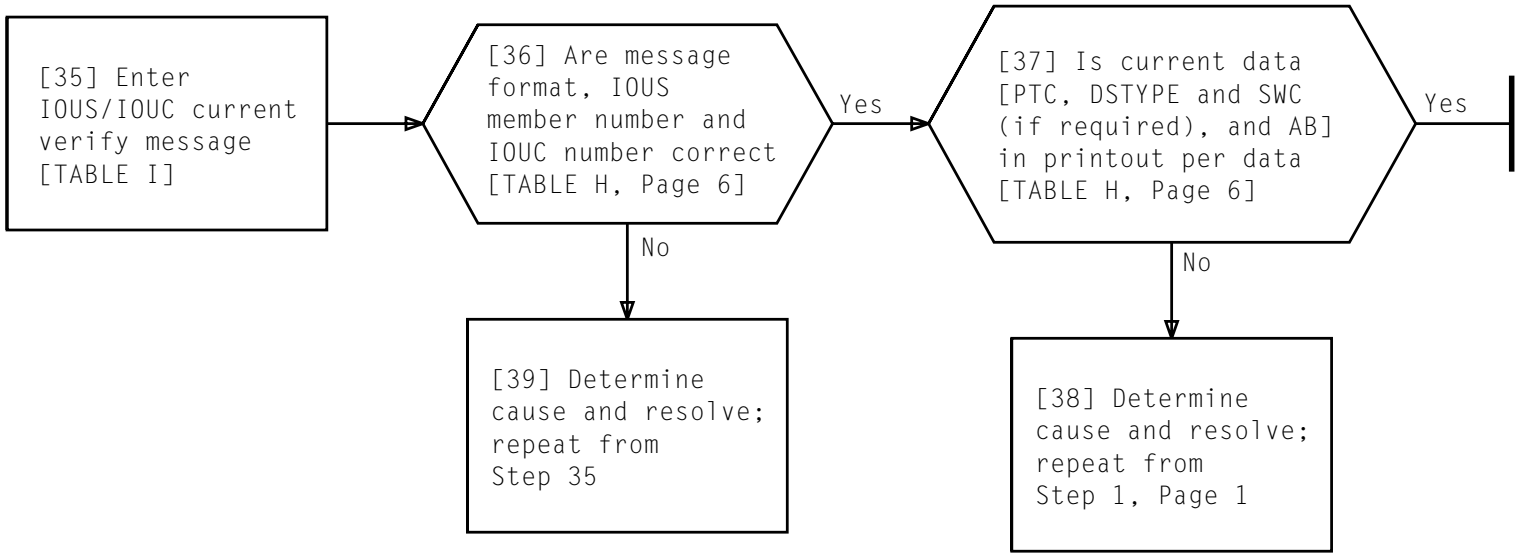


TABLE I

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (10,11,14, or 15)

SUMMARY

Enter change message to grow port equipage (PRTE) from UNEQ to GROW. Verify buffered PRTE, enter copy message, then verify current PRTE. If after each verify the PRTE is in error, enter stop message and start change from beginning. If PRTE is correct after current verify, enter update message and verify that data is correct in translator

TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT 1,PRTE (UNEQ,GROW)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

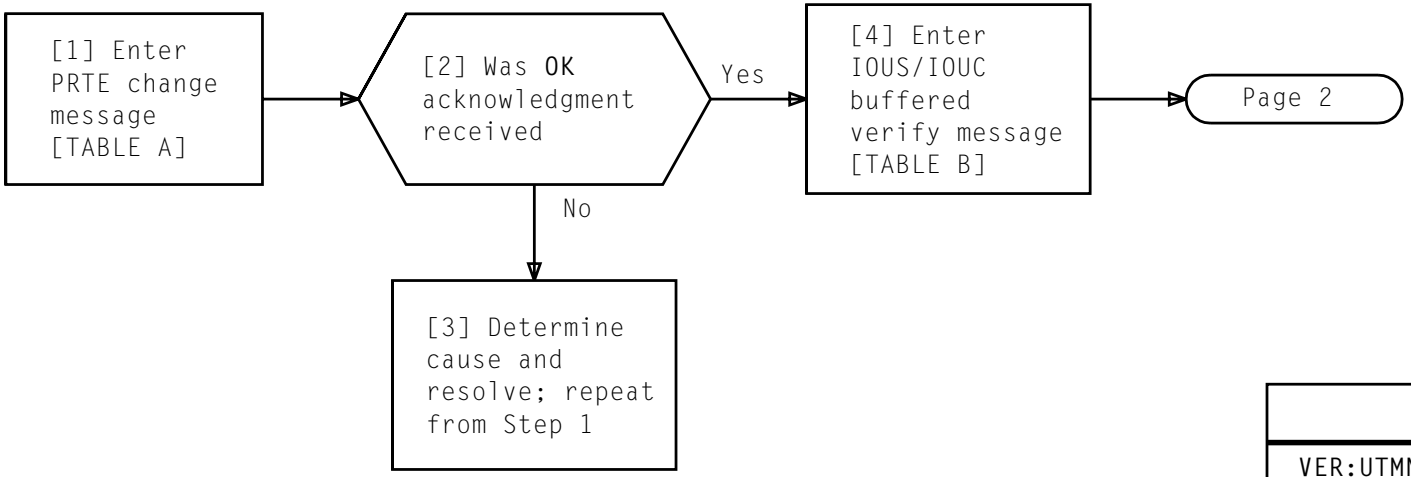


TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY PORT EQUIPAGE UNEQUIPPED TO GROW

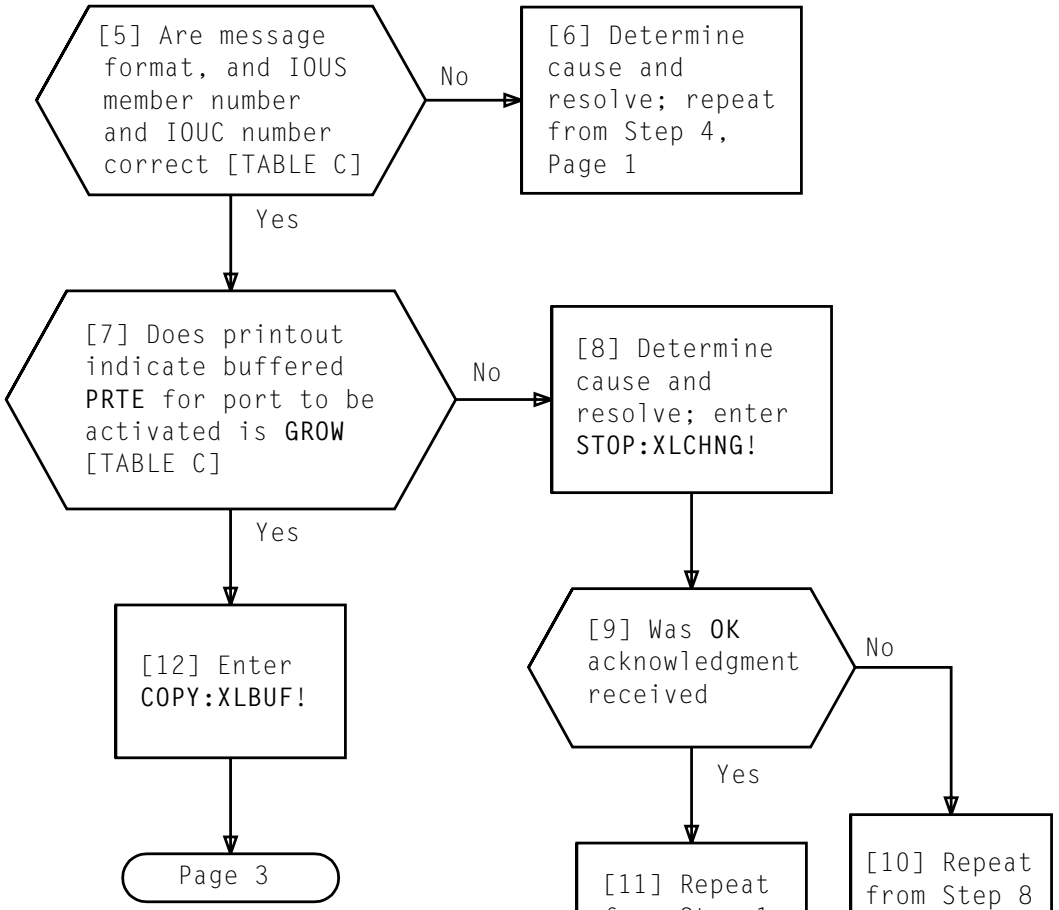


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . . . PORT 0,PRTE=UNEQ . . . PORT 1,PRTE=GROW . . PORT 2,PRTE=UNEQ . .	a = Member number b = Submember number

CHANGE AND VERIFY PORT EQUIPAGE UNEQUIPPED TO GROW

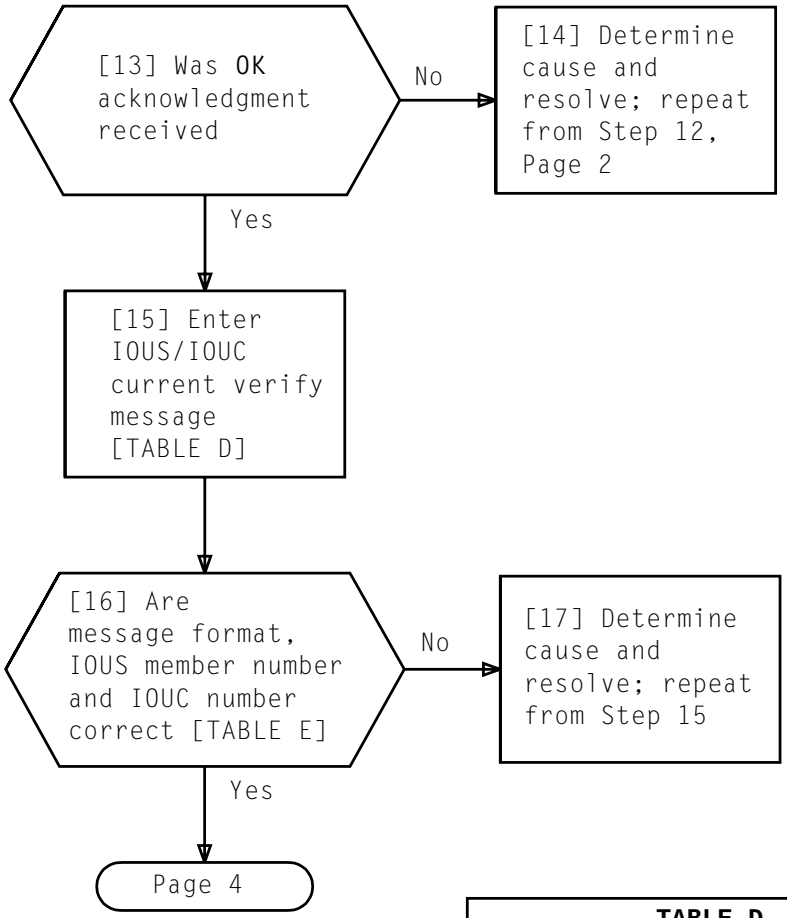
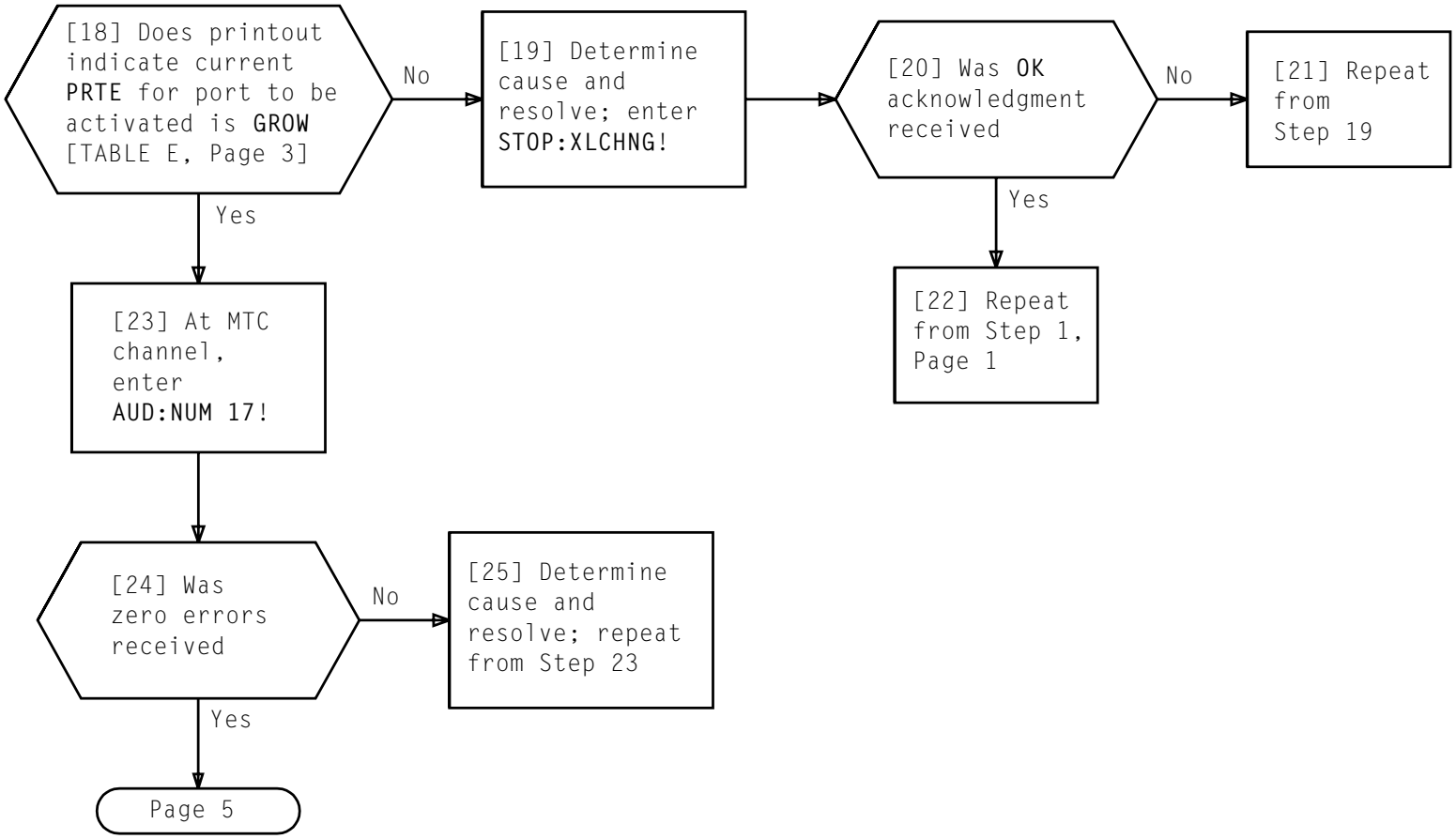


TABLE D

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . PORT 0,PRTE=UNEQ . . . PORT 1,PRTE=GROW . . PORT 2,PRTE=UNEQ . .	a = Member number b = Submember number


[18] Does printout indicate current PRTE for port to be activated is GROW [TABLE E, Page 3]
No
[19] Determine cause and resolve; enter STOP:XLCHNG!
[20] Was OK acknowledgment received
No
[21] Repeat from Step 19
Yes
[22] Repeat from Step 1, Page 1
Yes
[23] At MTC channel, enter AUD:NUM 17!
[24] Was zero errors received
No
[25] Determine cause and resolve; repeat from Step 23
Yes
Page 5

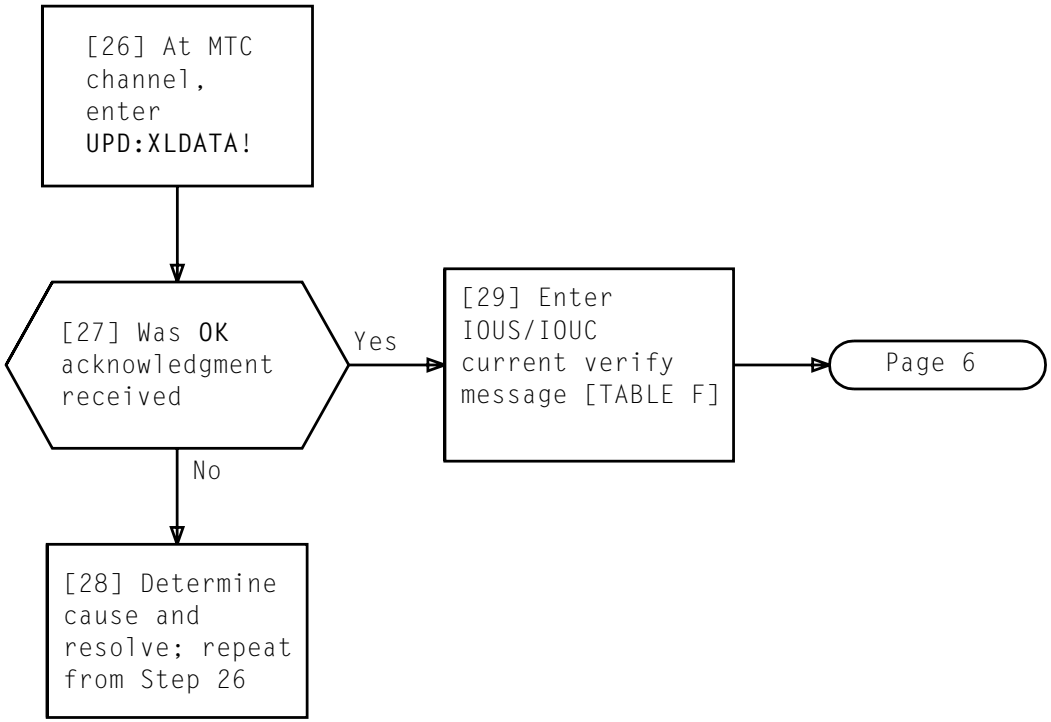
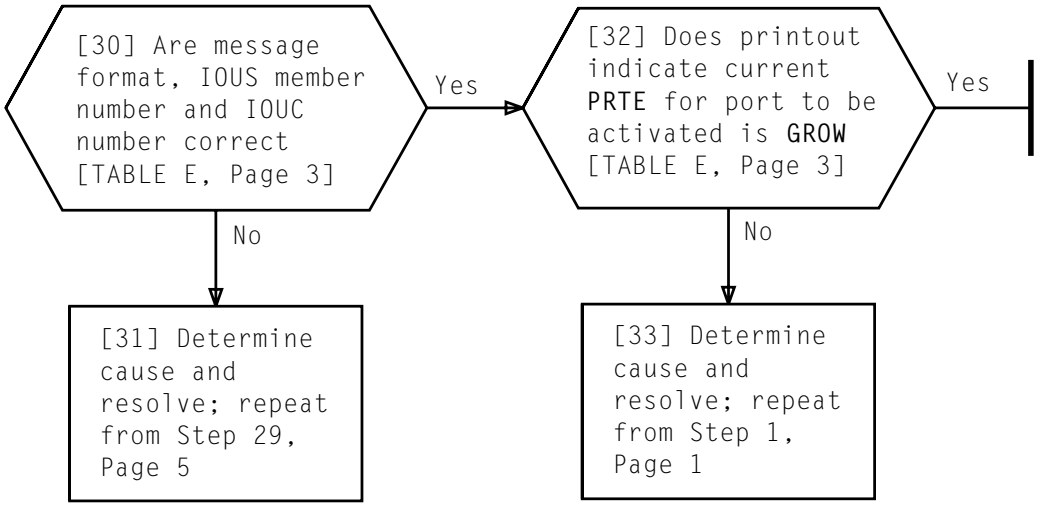


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)


[30] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[32] Does printout indicate current PRTE for port to be activated is GROW [TABLE E, Page 3]
Yes
No
No
[31] Determine cause and resolve; repeat from Step 29, Page 5
[33] Determine cause and resolve; repeat from Step 1, Page 1

SUMMARY

Enter change message to grow port equipage (PRTE) from GROW to SGRO. Verify buffered PRTE, enter copy message, then verify current PRTE. If after each verify the PRTE is in error, enter stop message and start change from beginning. If PRTE is correct after current verify, enter update message and verify that data is correct in translator.

TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT 1,PRTE (GROW,SGRO)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

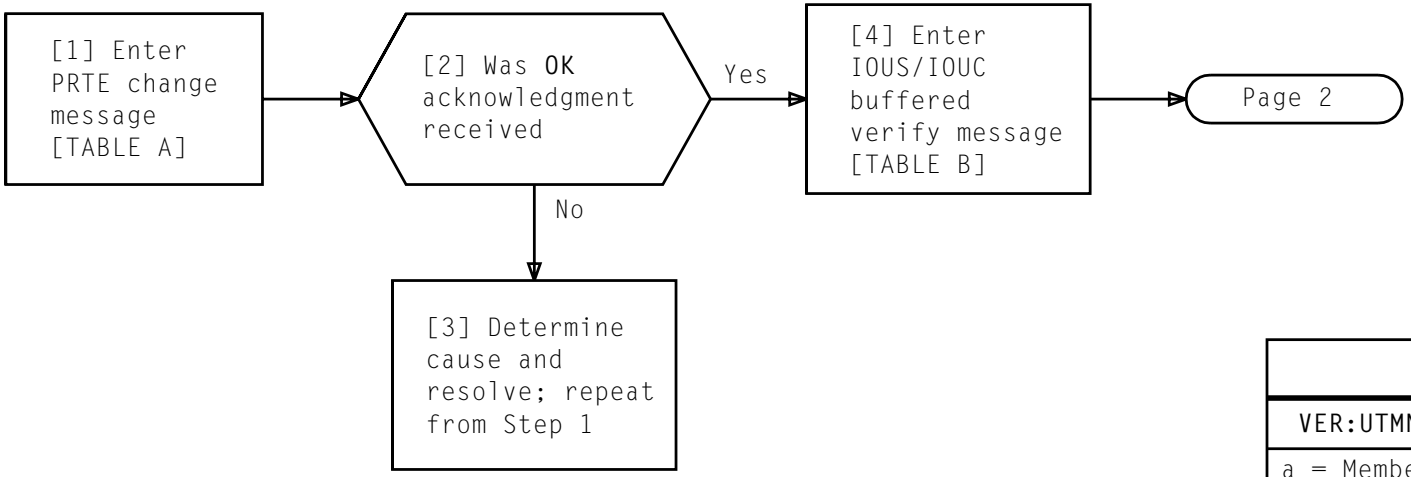


TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY PORT EQUIPAGE GROW TO SPECIAL GROWTH

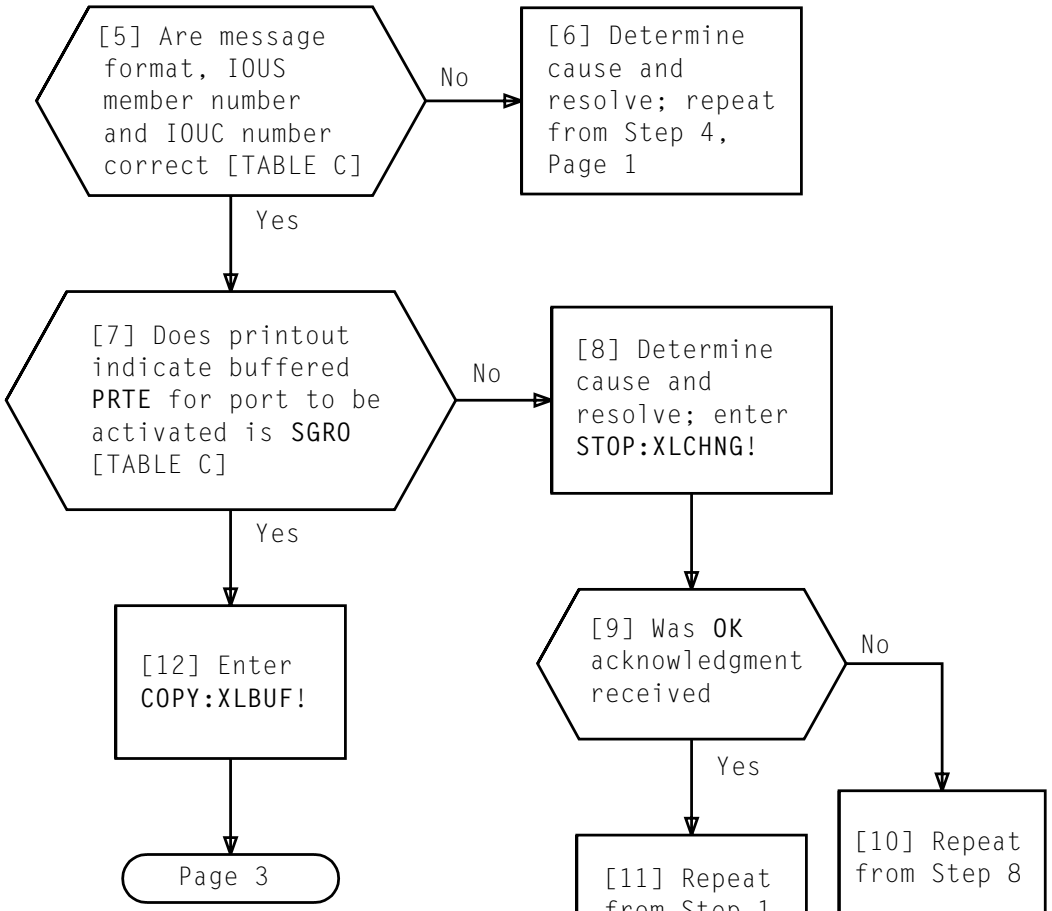


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . PORT 0,PRTE=UNEQ . . . PORT 1,PRTE=SGRO . . PORT 2,PRTE=UNEQ . .	a = Member number b = Submember number

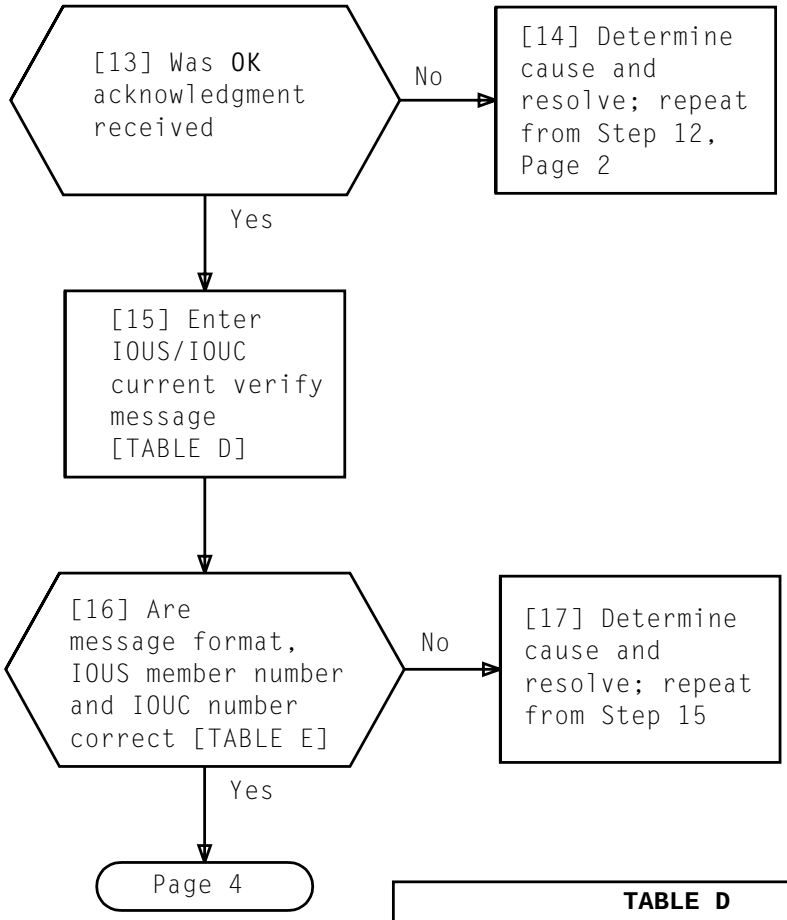


TABLE D

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . PORT 0,PRTE=UNEQ . . . PORT 1,PRTE=SGRO . . PORT 2,PRTE=UNEQ . .	a = Member number b = Submember number

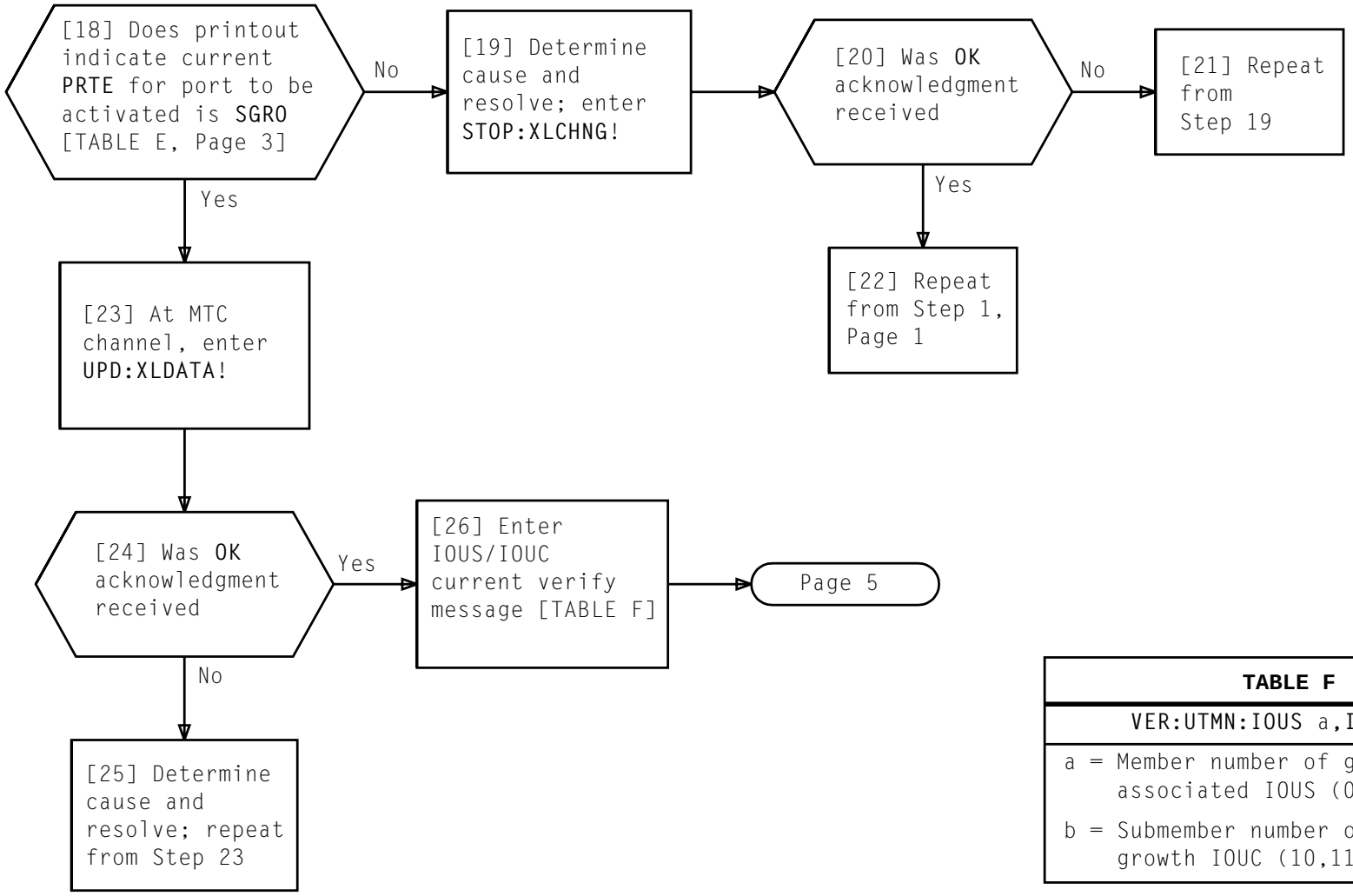
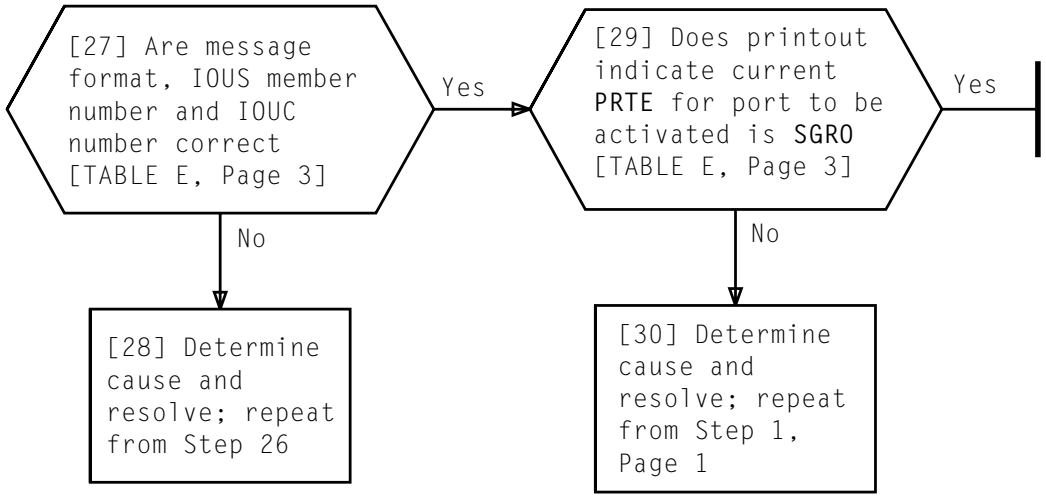


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)


[27] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[29] Does printout indicate current PRTE for port to be activated is SGRO [TABLE E, Page 3]
Yes
No
No
[28] Determine cause and resolve; repeat from Step 26
[30] Determine cause and resolve; repeat from Step 1, Page 1

SUMMARY

Enter change message to grow port equipage (PRTE) from SGRO to OPER. Verify buffered PRTE, enter copy message, then verify current PRTE. If after each verify PRTE is in error, enter stop message and start change from beginning. If PRTE is correct after current verify, enter update message and verify that data is correct in translator

TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT 1,PRTE (SGRO,OPER)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

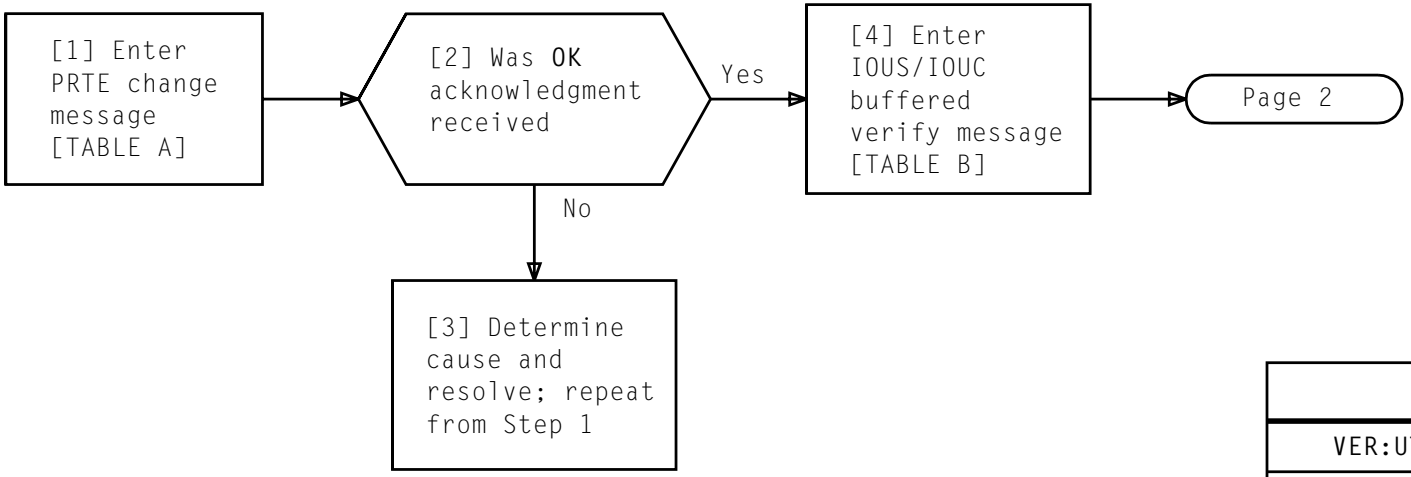


TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

CHANGE AND VERIFY PORT EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

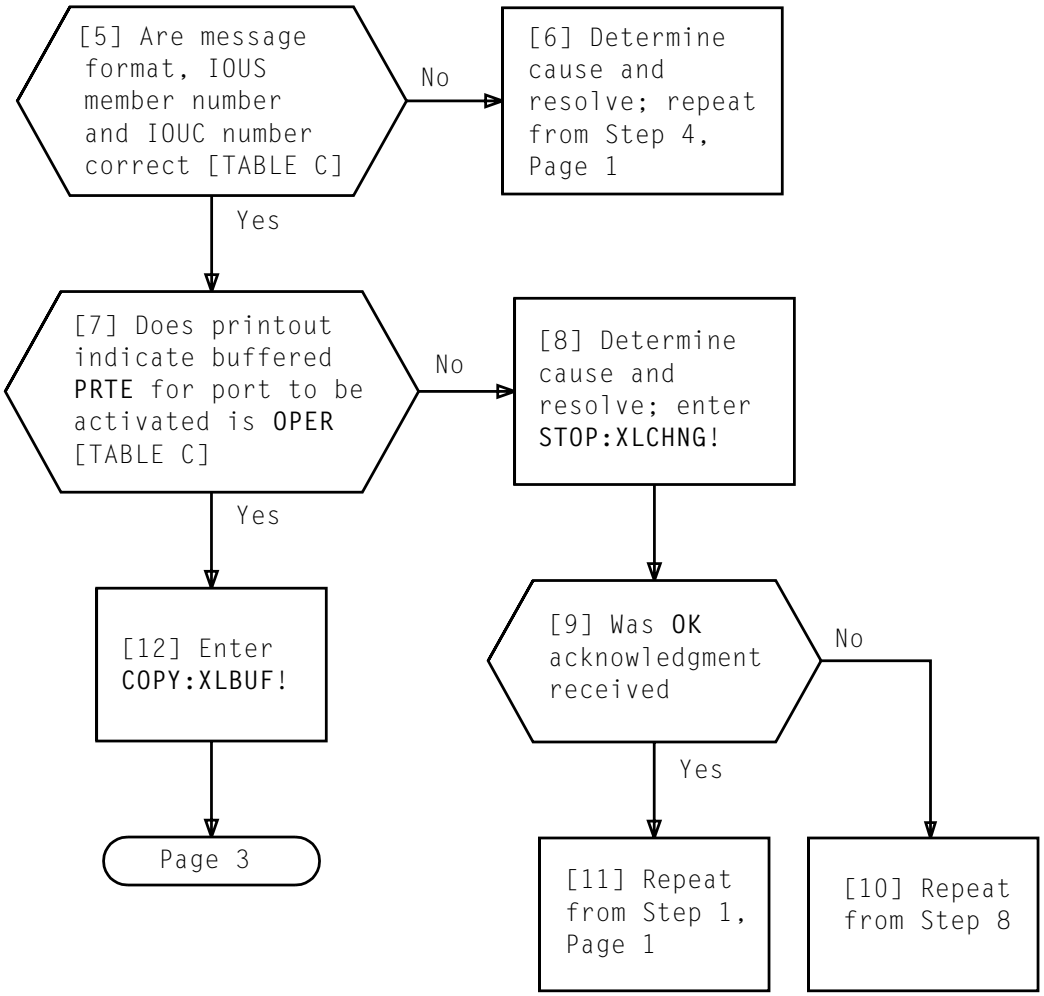


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . . PORT 0,PRTE=UNEQ . . . PORT 1,PRTE=OPER . . PORT 2,PRTE=UNEQ . . .	a = Member number b = Submember number

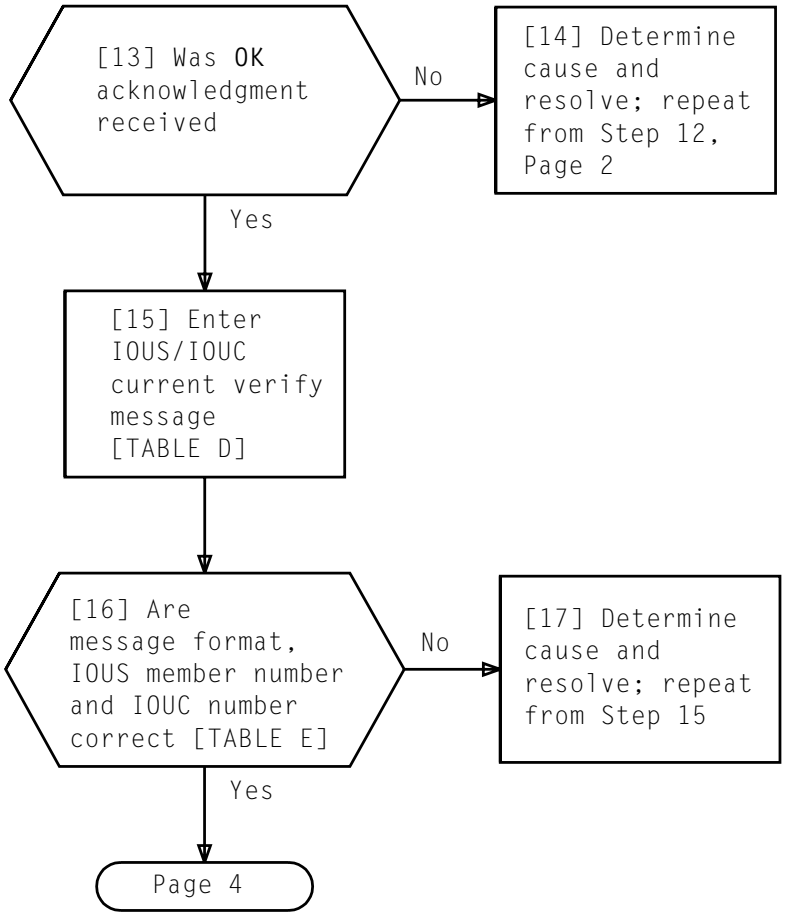


TABLE D

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . . . PORT 0,PRTE=UNEQ . . . PORT 1,PRTE=OPER . . PORT 2,PRTE=UNEQ . .	a = Member number b = Submember number

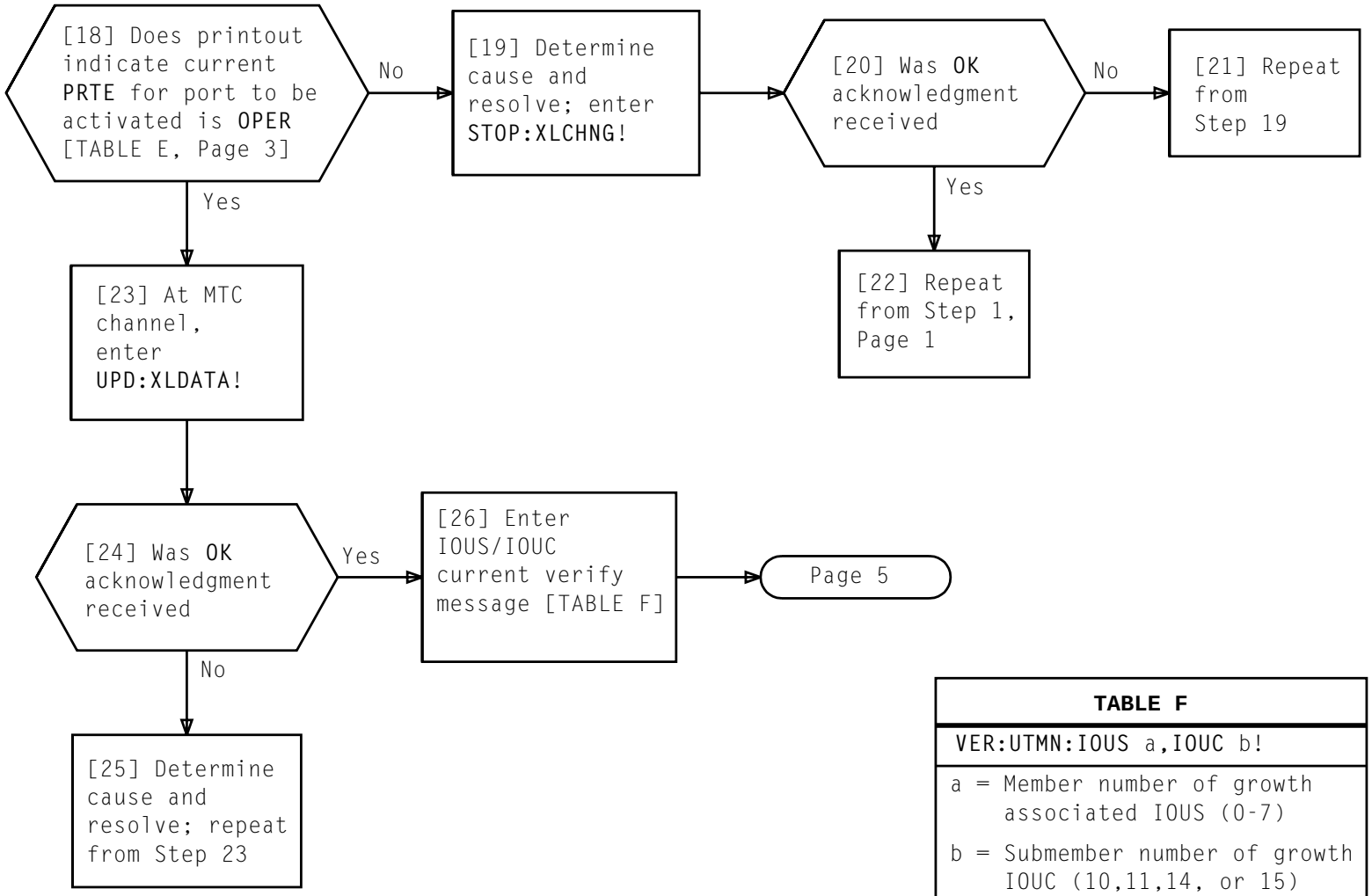
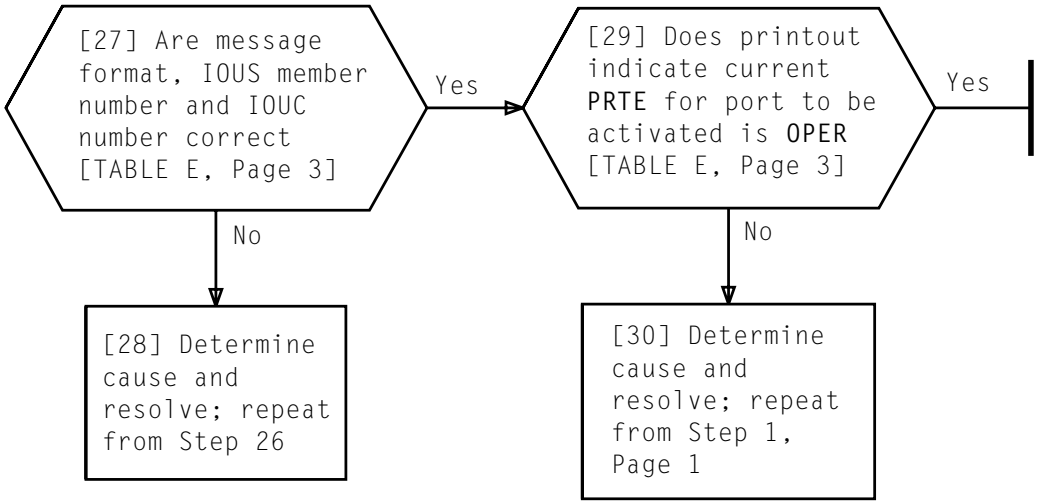


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)


[27] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[29] Does printout indicate current PRTE for port to be activated is OPER [TABLE E, Page 3]
Yes
No
No
[28] Determine cause and resolve; repeat from Step 26
[30] Determine cause and resolve; repeat from Step 1, Page 1

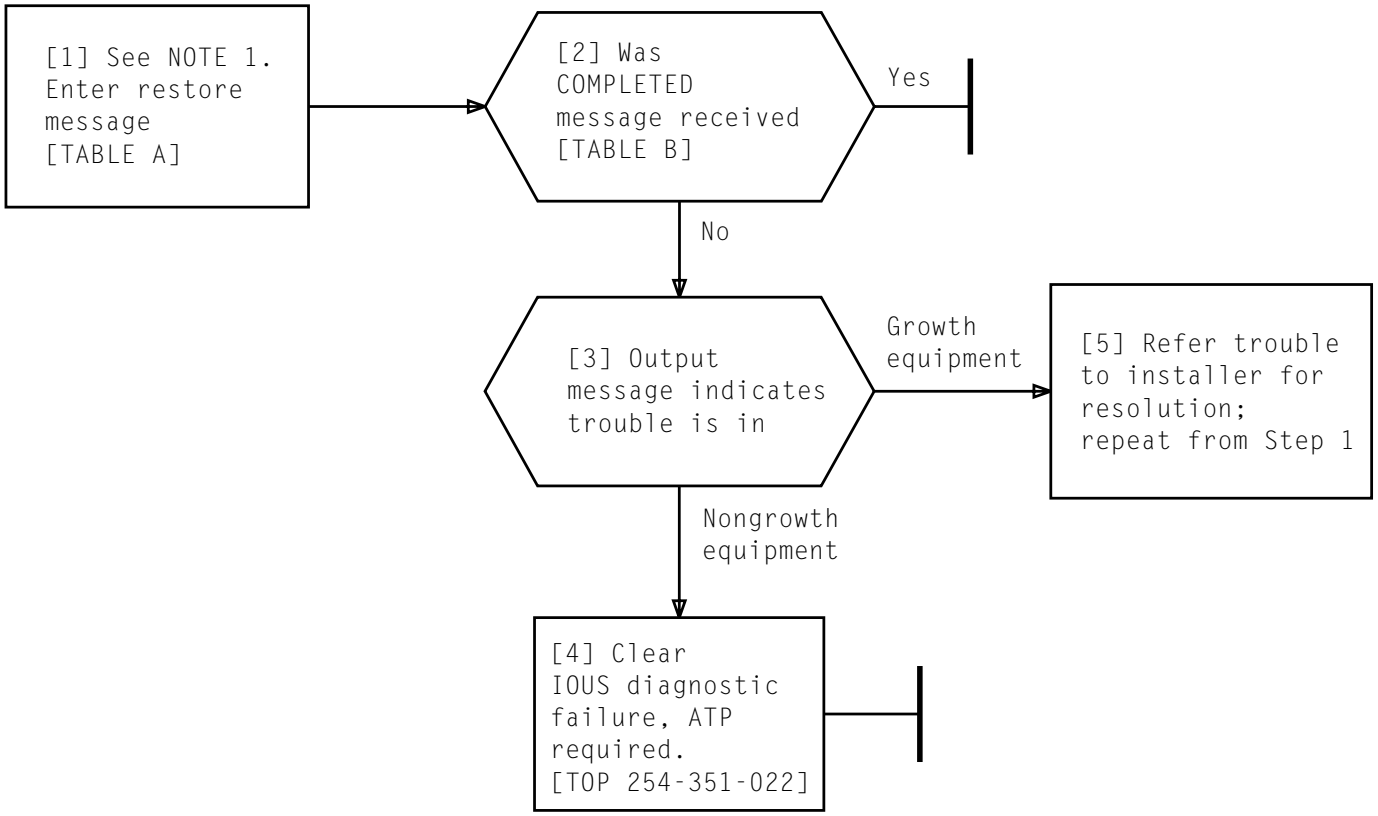


TABLE A
RST:IOUS a,IOMP b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE B
RST:IOUS a,IOMP b COMPLETED
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

NOTE 1
Restore message will cause IOUS diagnostic to be run. IOMP will be restored, if ATP

RESTORE INPUT/OUTPUT MICROPROCESSOR TO SERVICE

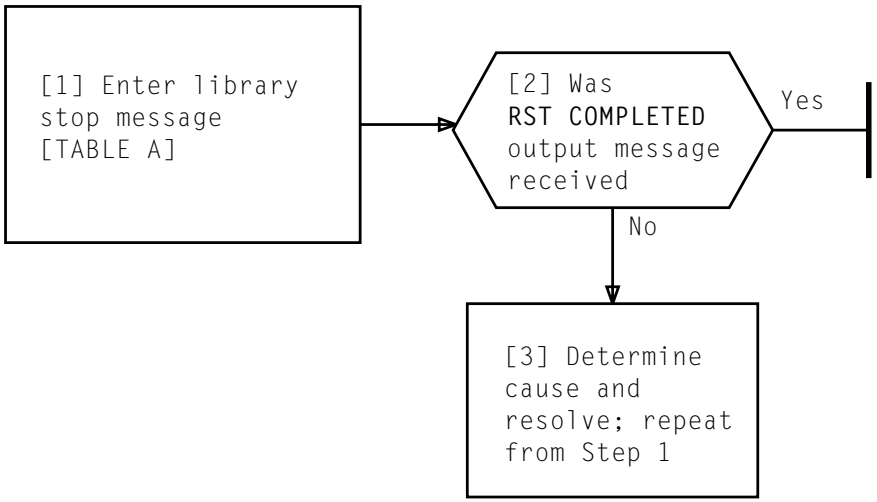
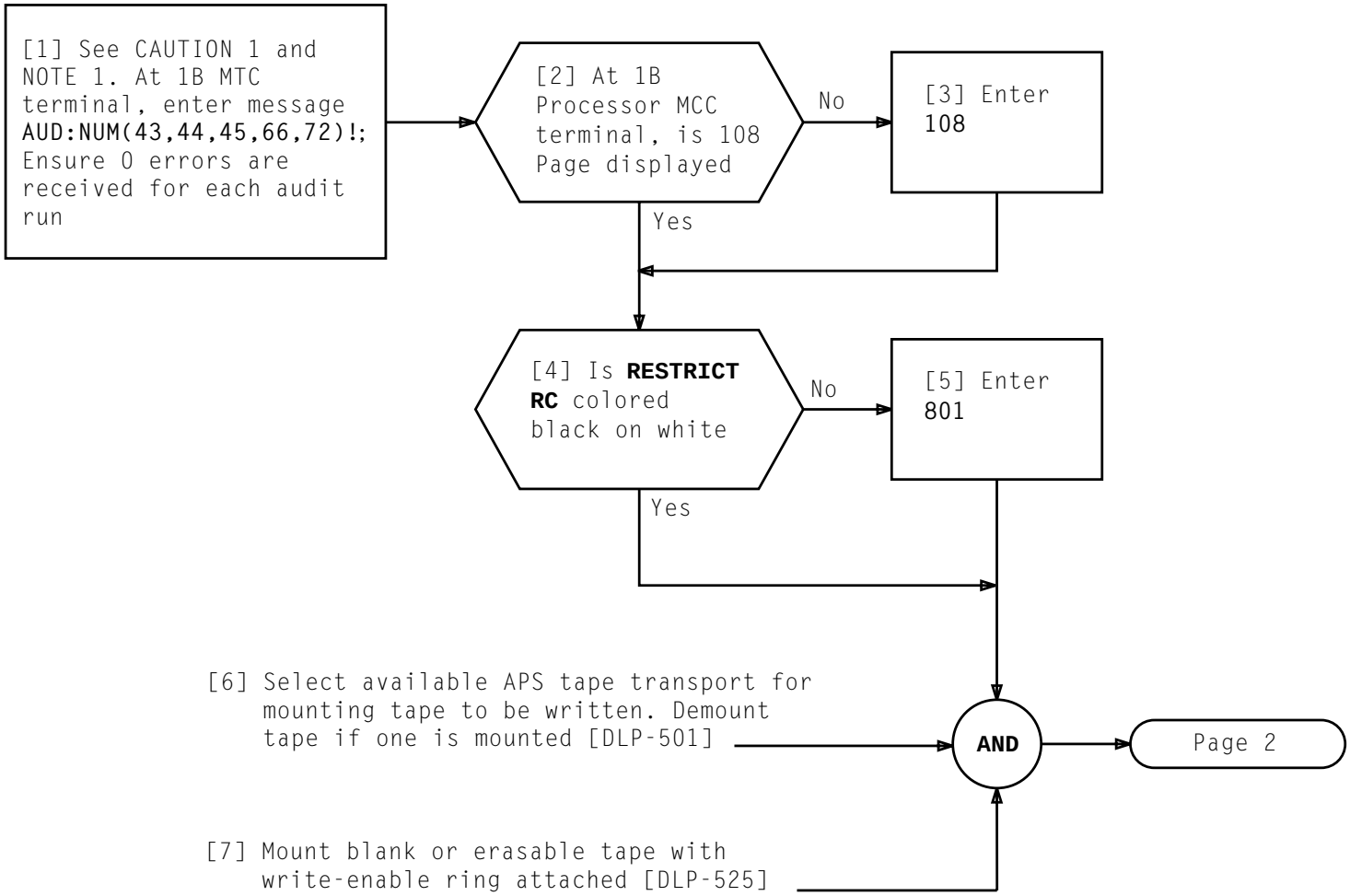


TABLE A
STOP:LIBSYS:PKG LGaPGRO,PGM XAPP,TASK 0,CLIENT 0!
a = Office generic number

TERMINATE EXECUTION OF LIBRARY PROGRAM



NOTE 1

It will take approximately 20-40 minutes for audits to run

CAUTION 1

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

COPY RESIDENT ODA DATA TO TAPE (TWRP WRITE)

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

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

No → [10] Contact next higher technical support group and inform personnel of actions performed and results obtained

Yes ↓

[11] Demount tape on tape unit [DLP-584] and label per local procedure

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

No → [14] Store tapes per local procedure

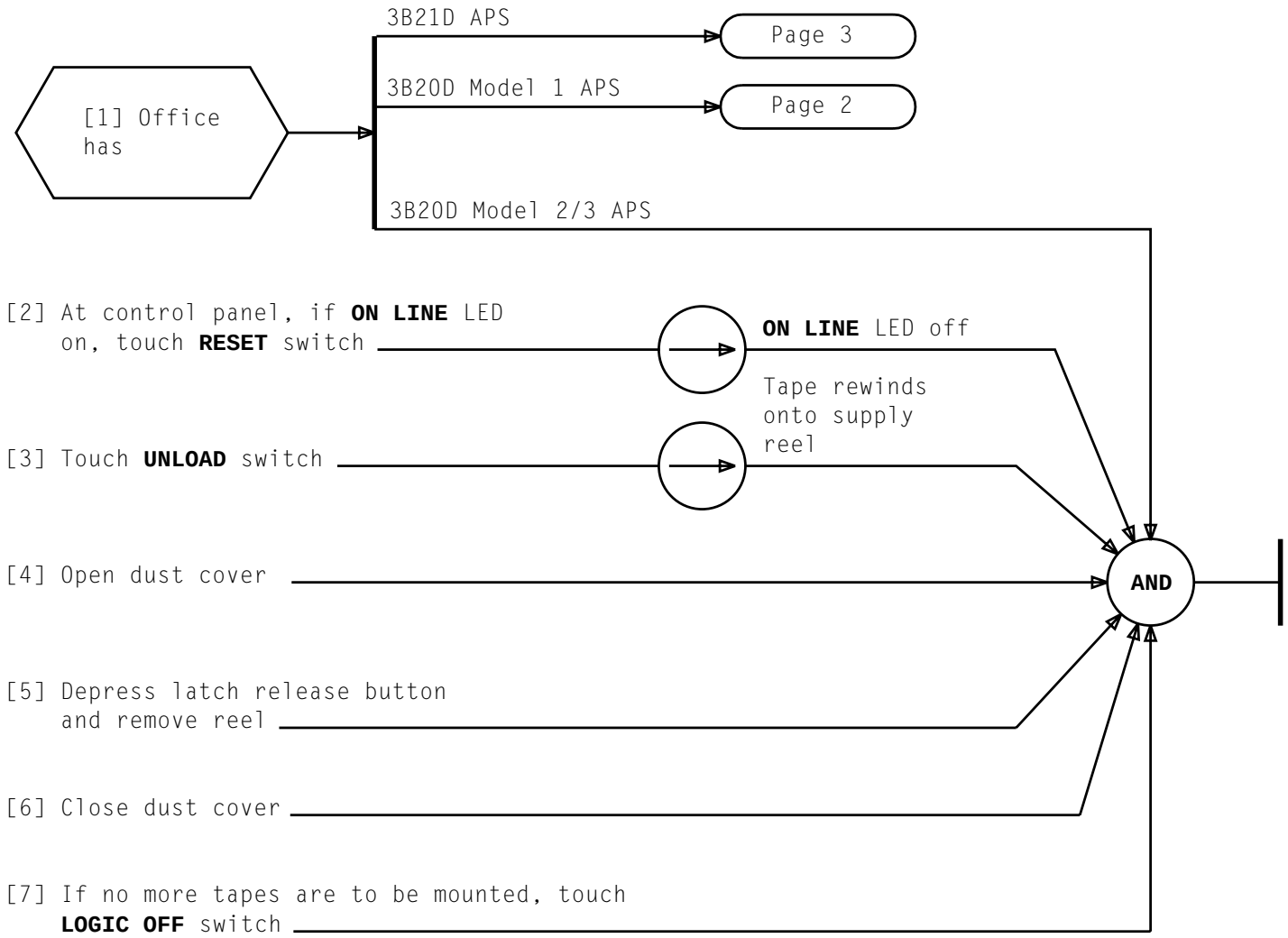
Yes ↓

[13] Repeat from Step 7, Page 1

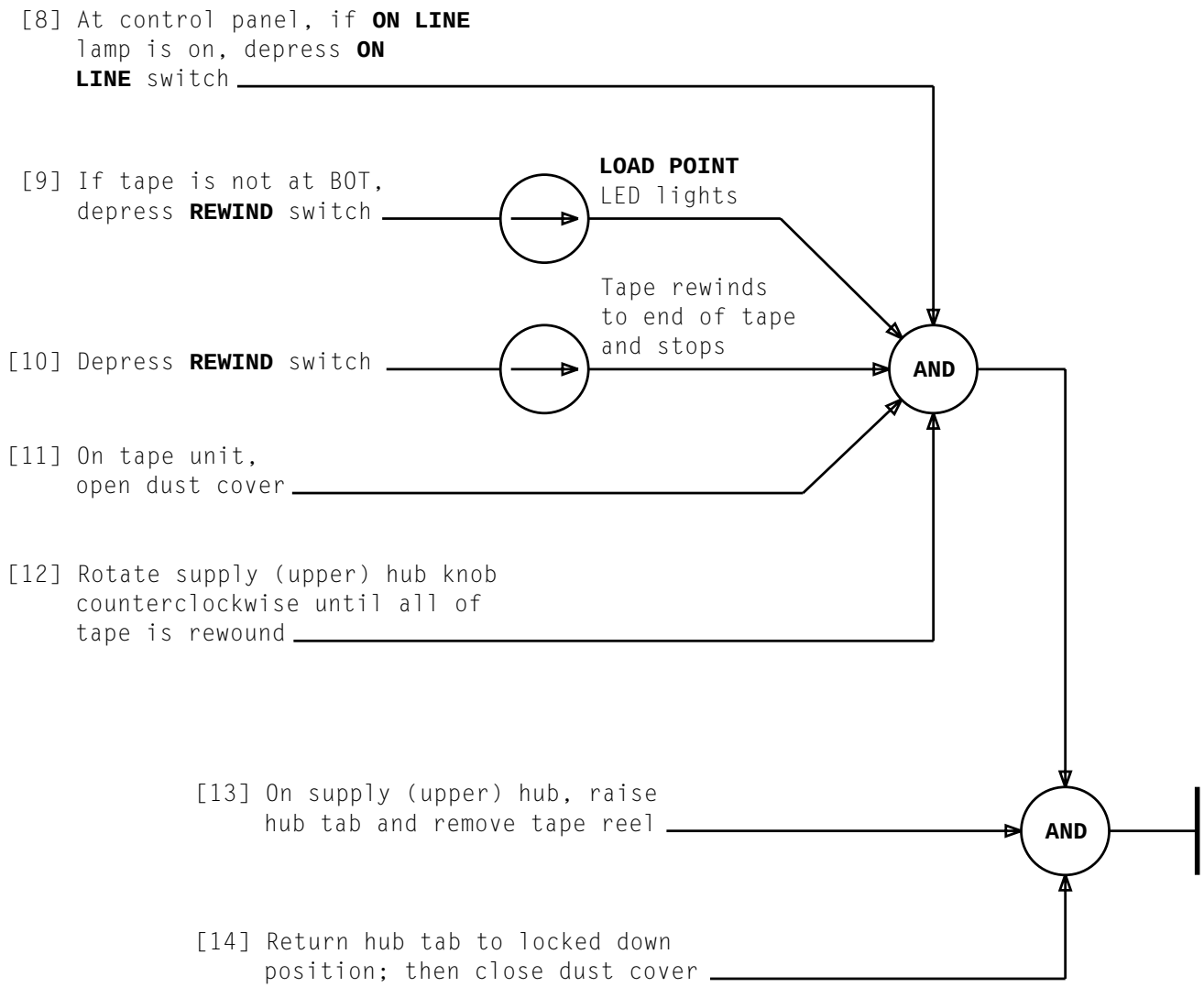
[15] At 1B Processor MCC terminal, enter 801 **(RESTRICT RC** colored white on black)

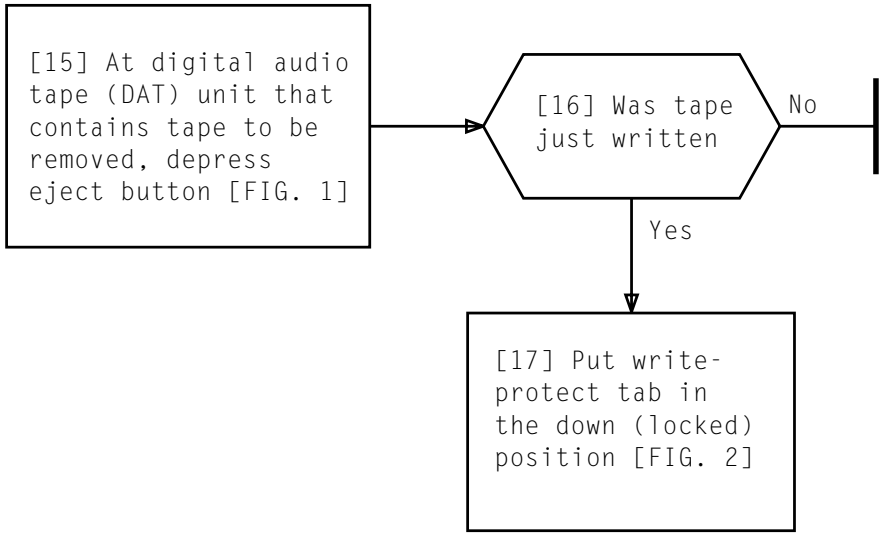
```
COPY ODA FROM NORM FILE
10 TAPE FILES WRITTEN
20 TAPE FILES WRITTEN
      •
      •
 n TAPE FILES WRITTEN
ODA TAPE WRITTEN
```

FIG. 1 — Sample Printout of ODA Backup Tape Write



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





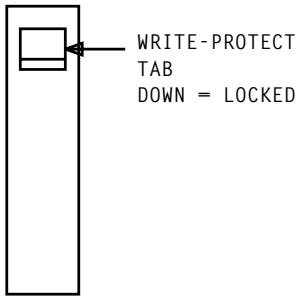


FIG. 2 – 4-mm Tape

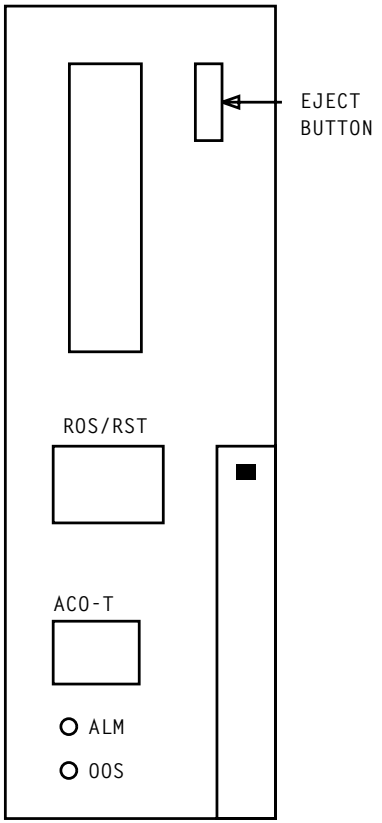


FIG. 1 – DAT Unit

SUMMARY

Enter SMHG current verify and verify for proper value. If SMHG is in error, enter SMHG change message for growth unit type. Verify buffered data, enter copy message, verify current data, and then enter update message. If after each verify, SMHG value is not per appropriate drawing, enter stop message and start change from beginning

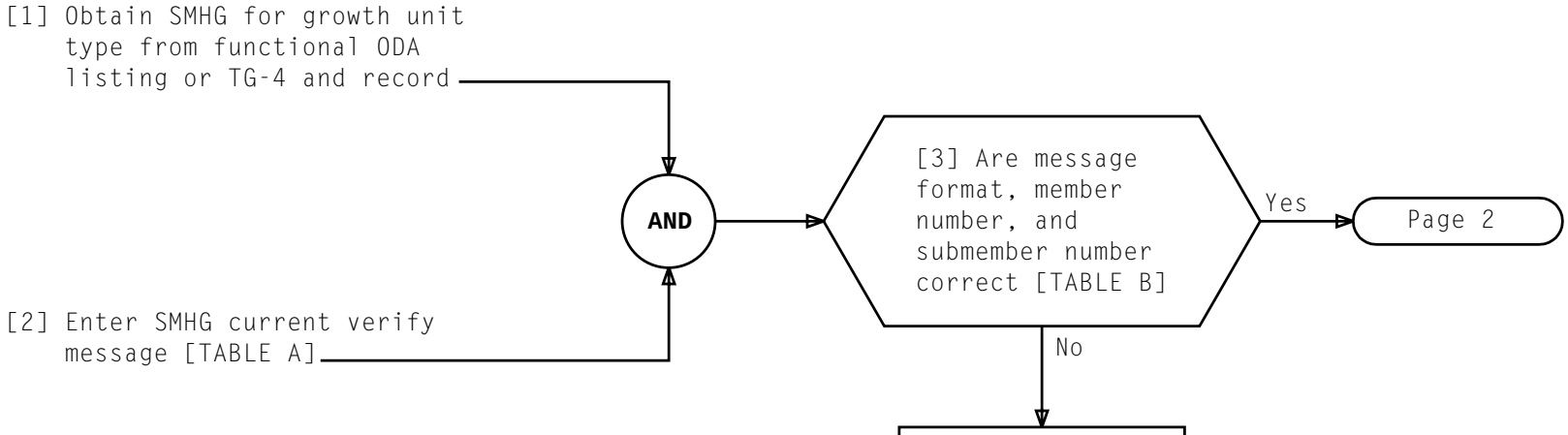


TABLE A
VER:UTMN:IOUS a,SUBMEM b,SMHG!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE B
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE= CURRENT DATA SMHG 2
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER HARDWARE GENERATION FOR GROWTH IOMP

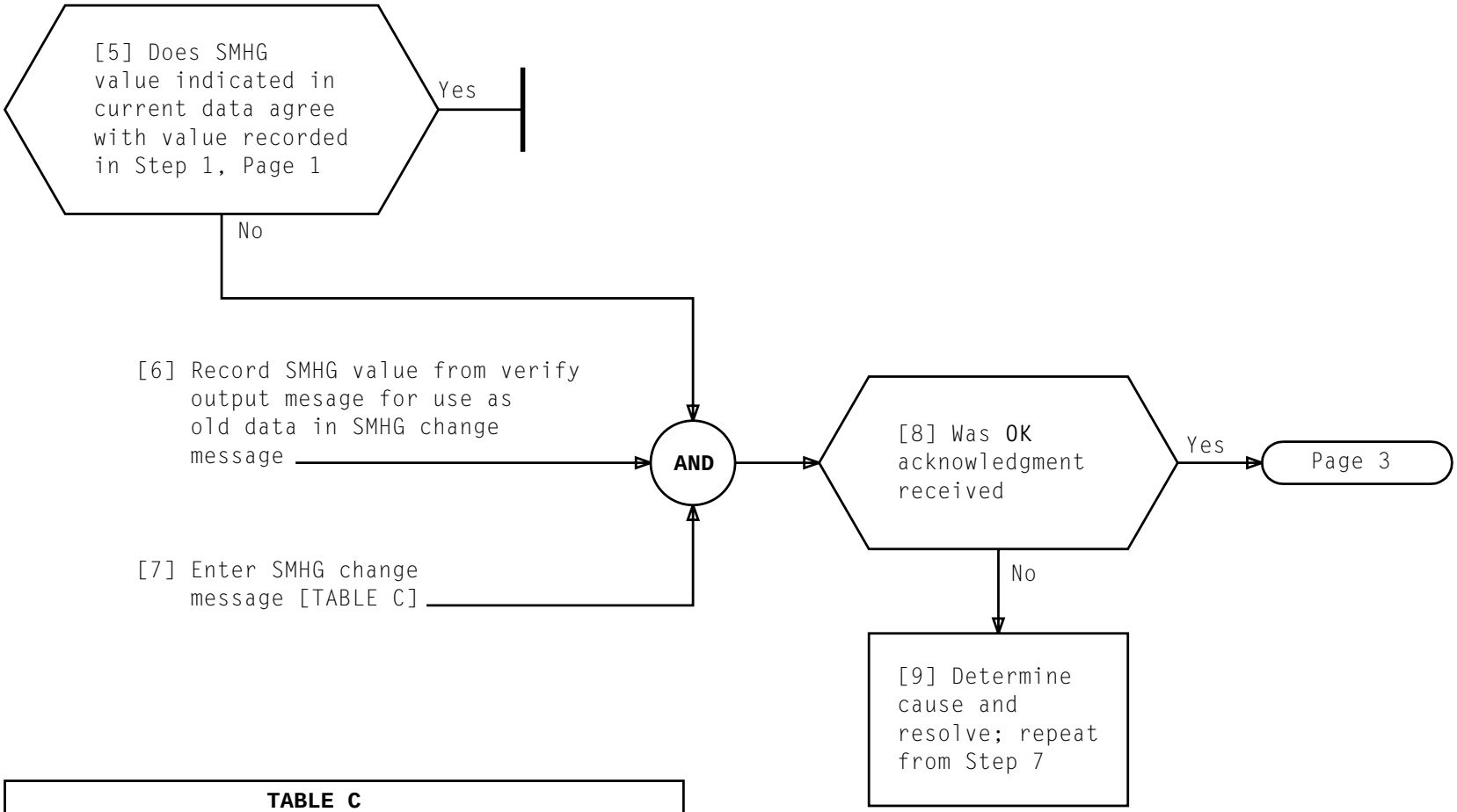


TABLE C
IN:XLBUF:IOUS a,SUBMEM b,SMHG (c,d)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1 c = Old data recorded from SMHG current verify d = New data recorded from office record drawing

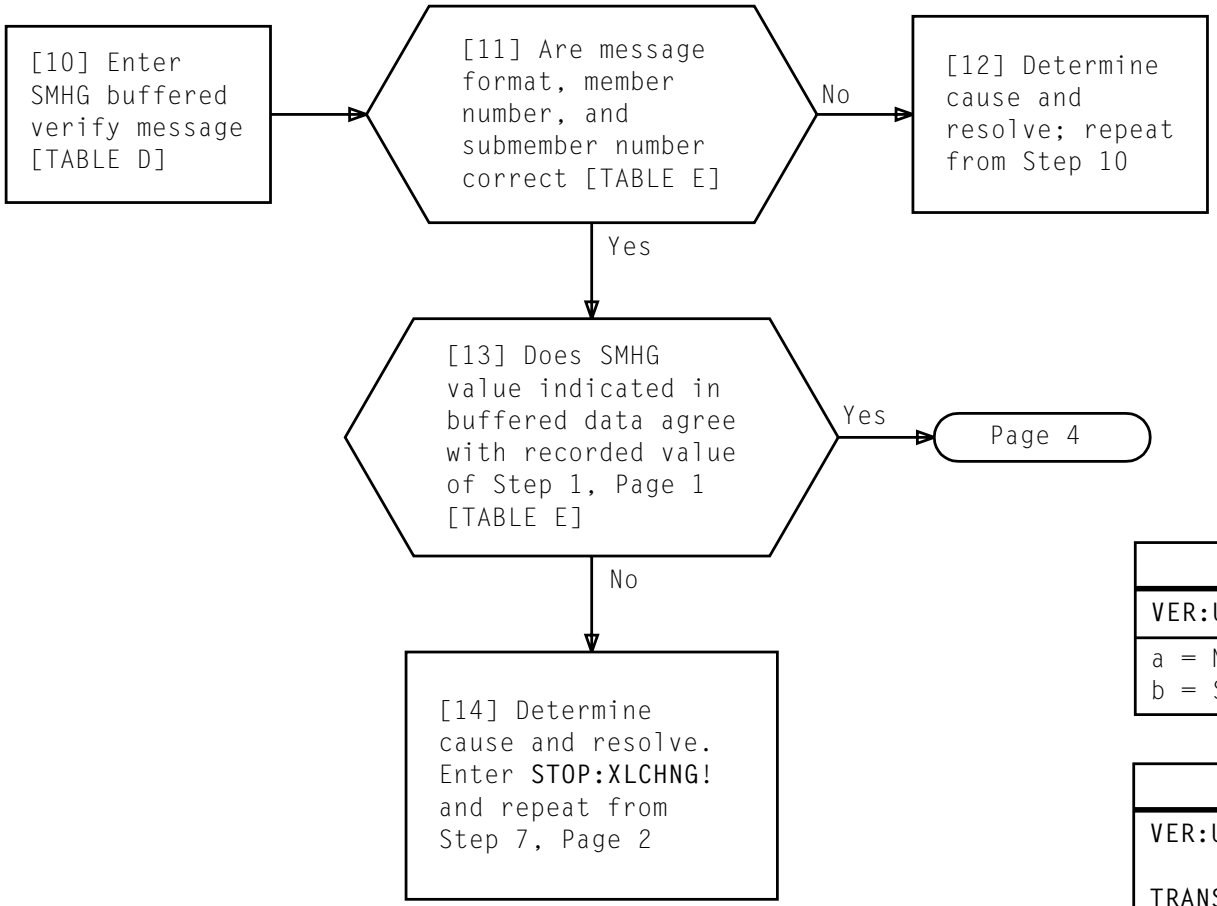


TABLE D
VER:UTMN;BUF:IOUS a,SUBMEM b,SMHG!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE E
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE= BUFFERED DATA SMHG c
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1 c = SMHG value of growth IOMP

CHANGE AND VERIFY SUBMEMBER HARDWARE GENERATION FOR GROWTH IOMP

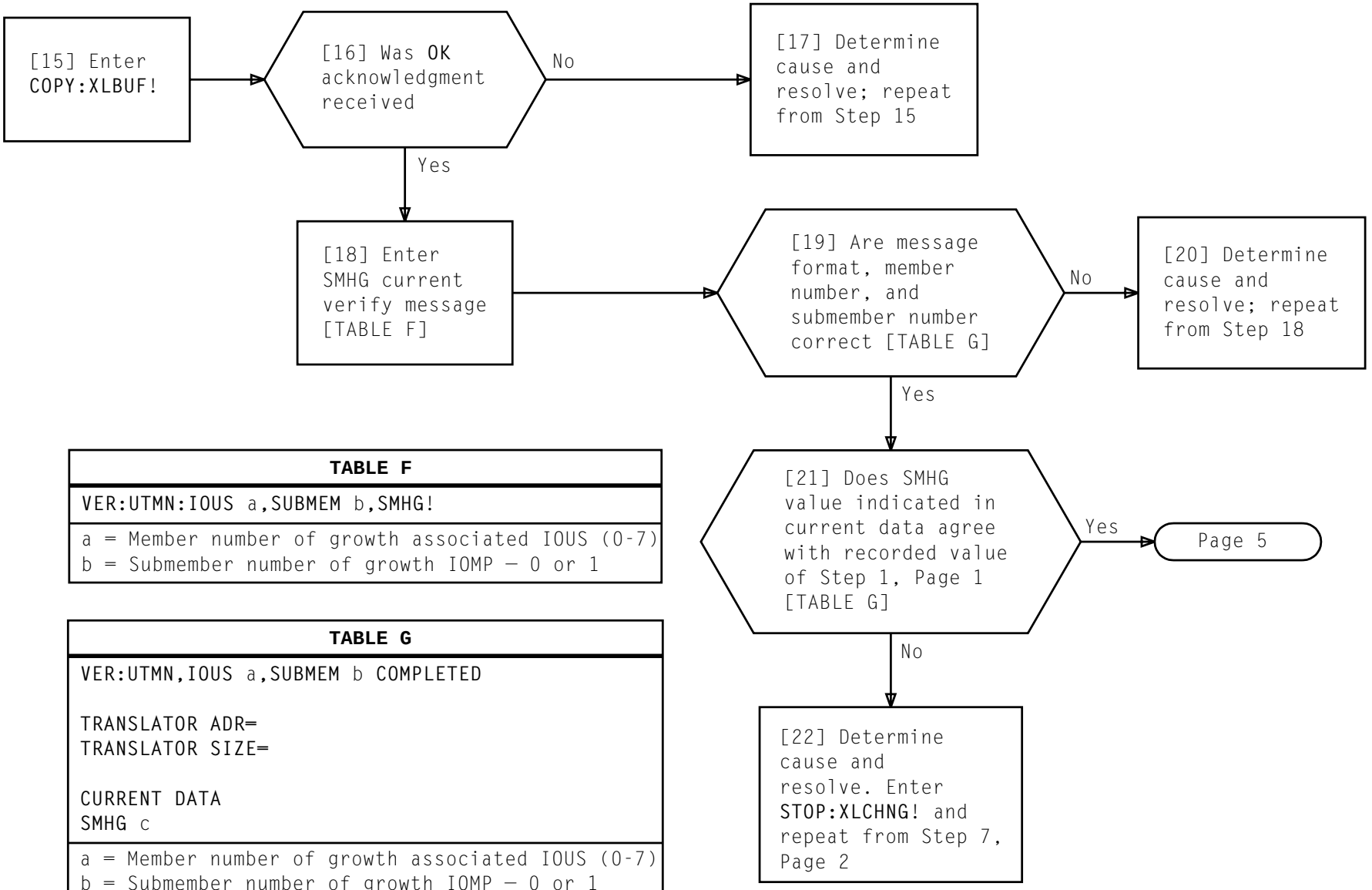


TABLE F
VER:UTMN:IOUS a,SUBMEM b,SMHG!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE G
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE= CURRENT DATA SMHG c
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1 c = SMHG value of growth IOMP

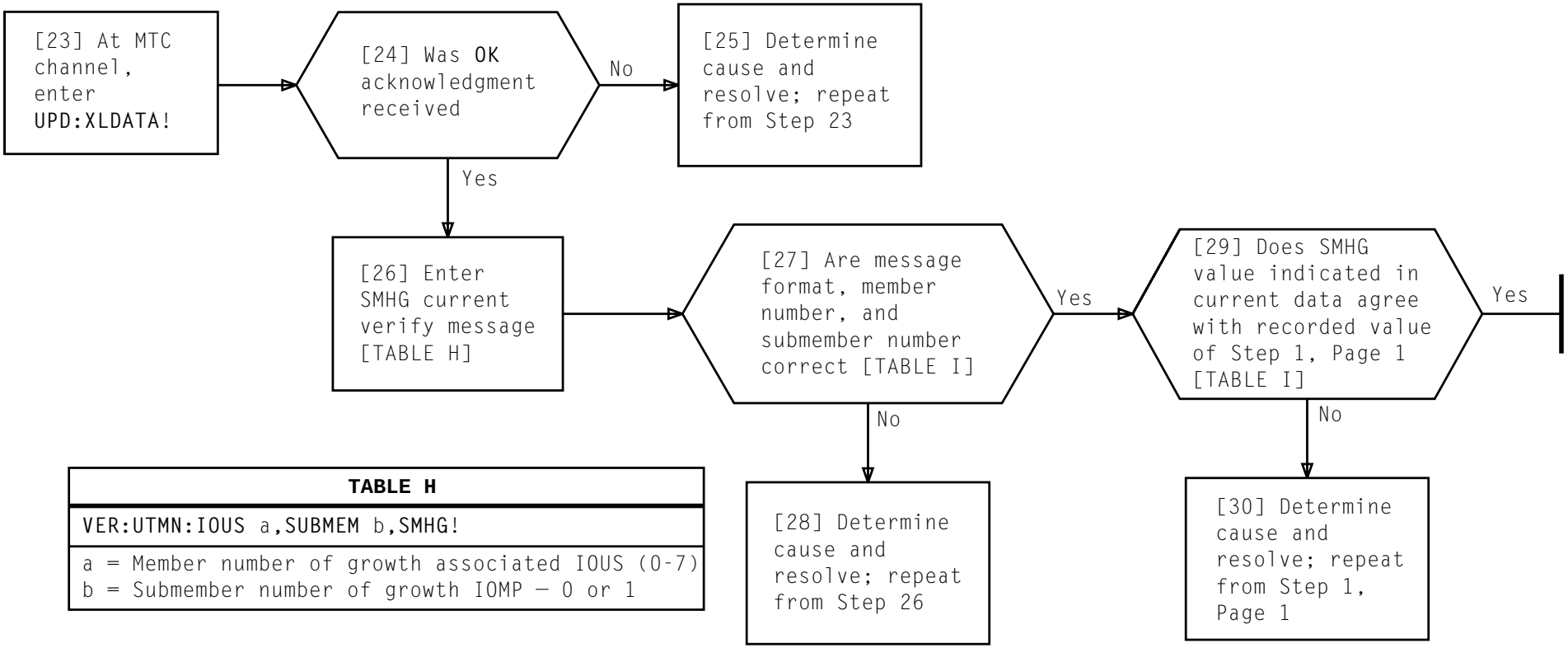


TABLE H
VER:UTMN:IOUS a,SUBMEM b,SMHG!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE I
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE= CURRENT DATA SMHG c
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1 c = SMHG value of growth IOMP

CHANGE AND VERIFY SUBMEMBER HARDWARE GENERATION FOR GROWTH IOMP

SUMMARY

Enter change message to grow submember equipage (SME) from UNEQ to GROW. Verify buffered SME, enter copy message, verify current SME, then enter update message. If after each verify, SME is not in right state, enter stop message and start change from beginning

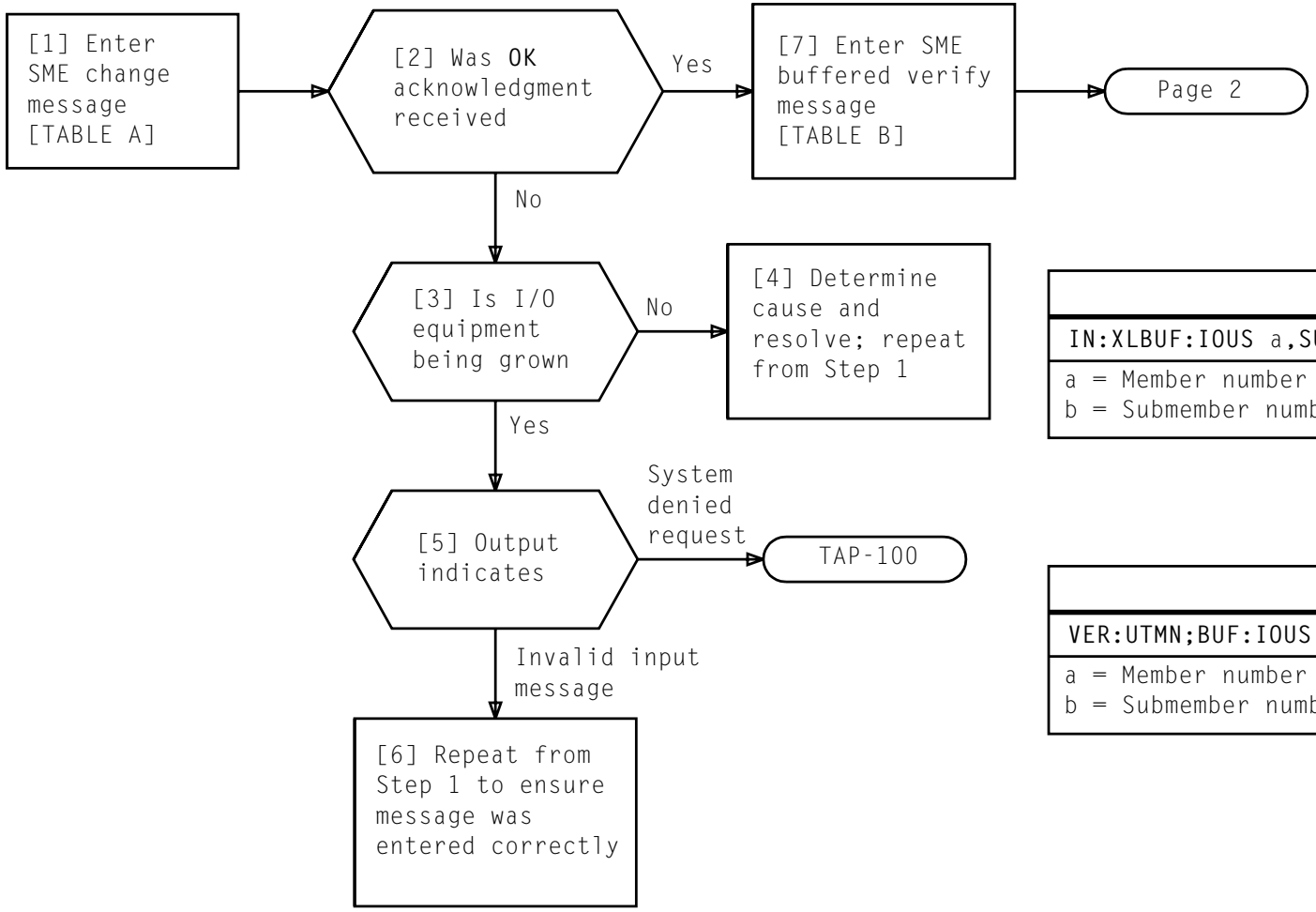


TABLE A
IN:XLBUF:IOUS a,SUBMEM b,SME (UNEQ,GROW)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE B
VER:UTMN;BUF:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE UNEQUIPPED TO GROW

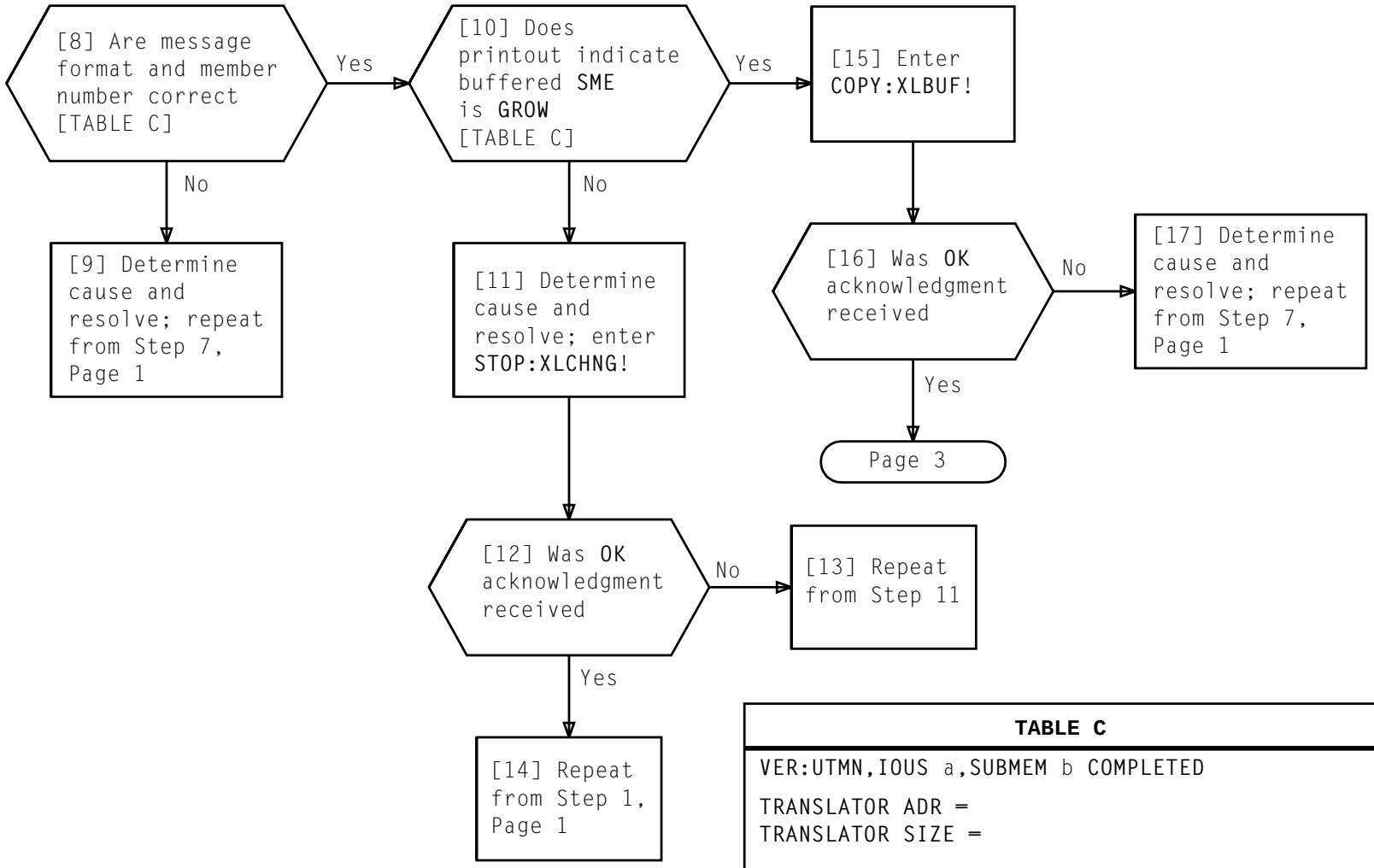


TABLE C

VER:UTMN,IOUS a,SUBMEM b COMPLETED

TRANSLATOR ADR =
TRANSLATOR SIZE =

BUFFERED DATA:
SME=GROW

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

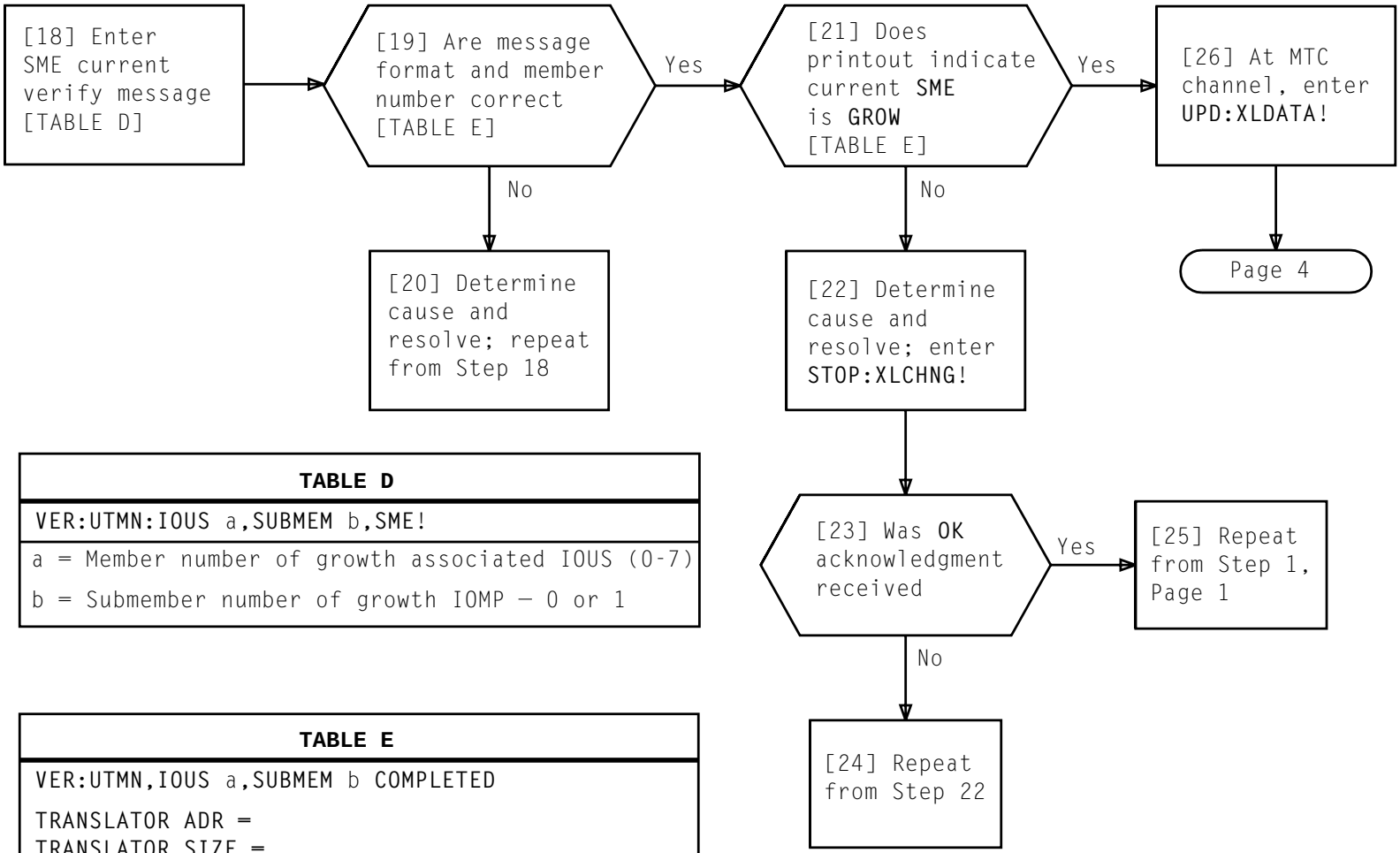


TABLE D

VER:UTMN:IOUS a,SUBMEM b,SME!

a = Member number of growth associated IOUS (0-7)

b = Submember number of growth IOMP — 0 or 1

TABLE E

VER:UTMN,IOUS a,SUBMEM b COMPLETED

TRANSLATOR ADR =
TRANSLATOR SIZE =

CURRENT DATA:
SME=GROW

a = Member number of growth associated IOUS (0-7)

b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE UNEQUIPPED TO GROW

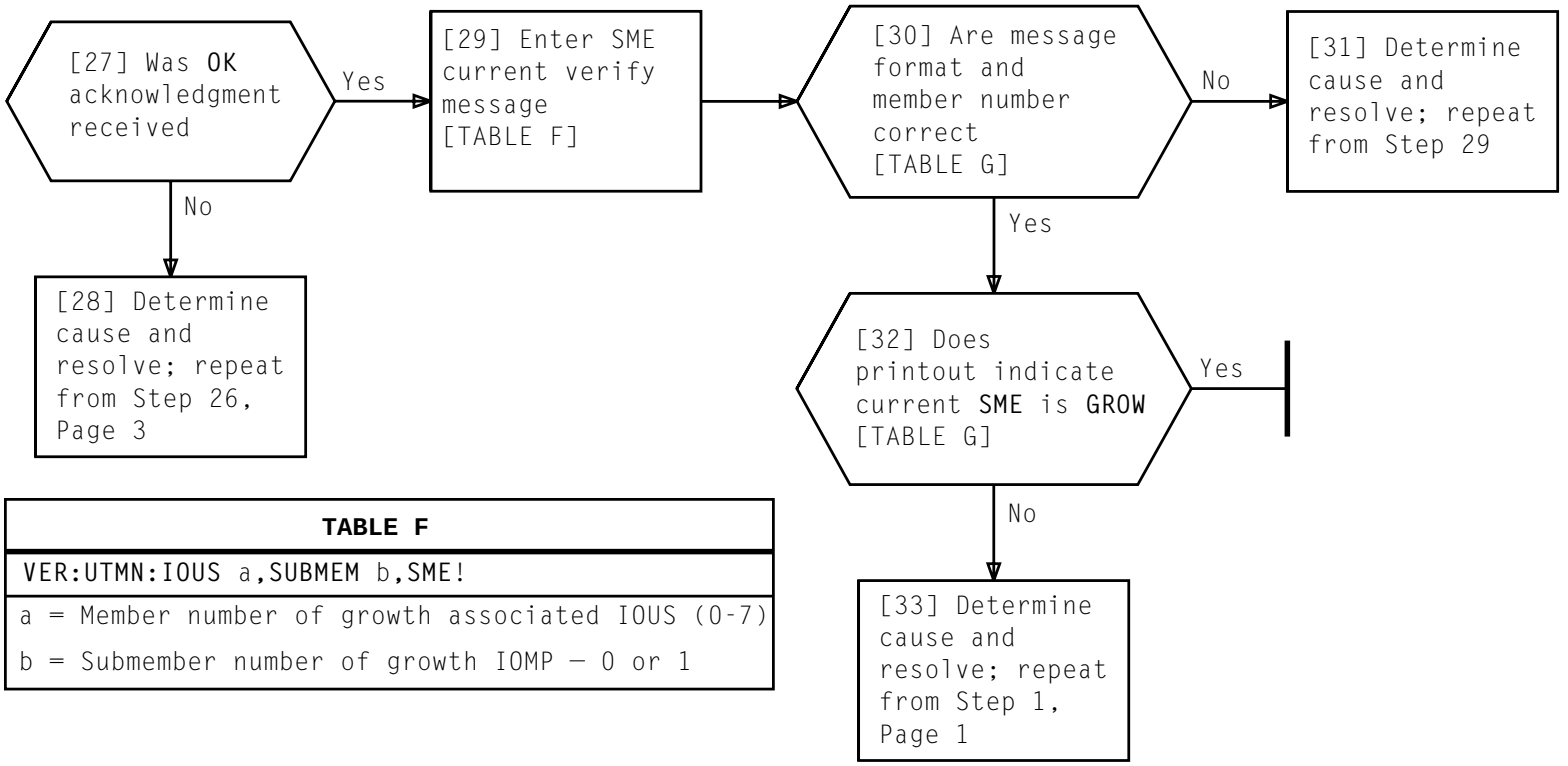


TABLE F
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE G
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA: SME=GROW
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

SUMMARY

Enter change message to grow submember equipage (SME) from GROW to SGRO. Verify buffered SME, enter copy message, verify current SME, then enter update message. If after each verify, SME is not in right state, enter stop message and start from beginning

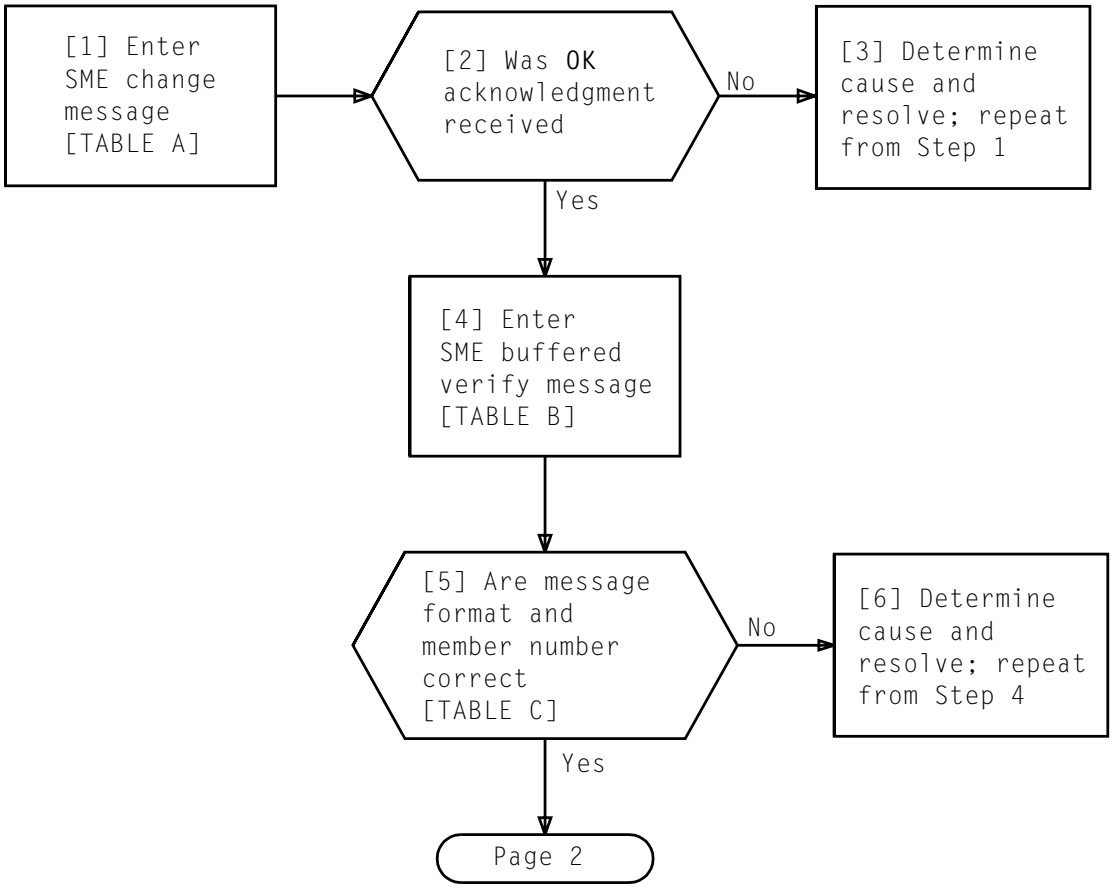


TABLE A

IN:XLBUF:IOUS a,SUBMEM b,SME (GROW,SGRO)!

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE B

VER:UTMN;BUF:IOUS a,SUBMEM b,SME!

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE C

VER:UTMN,IOUS a,SUBMEM b COMPLETED

TRANSLATOR ADR =
TRANSLATOR SIZE =

BUFFERED DATA:
SME=SGRO

a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE GROW TO SPECIAL GROWTH

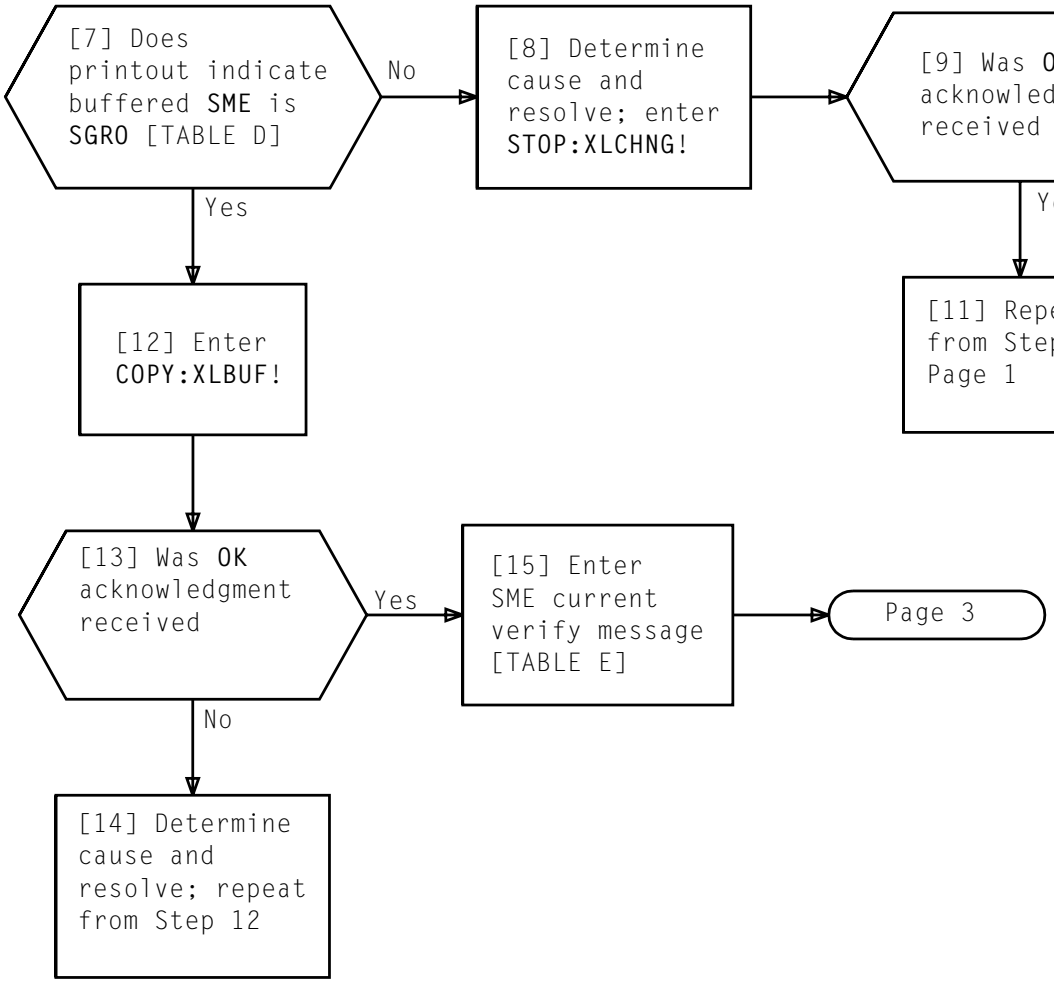


TABLE D
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = BUFFERED DATA: SME=SGRO
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE E
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE GROW TO SPECIAL GROWTH

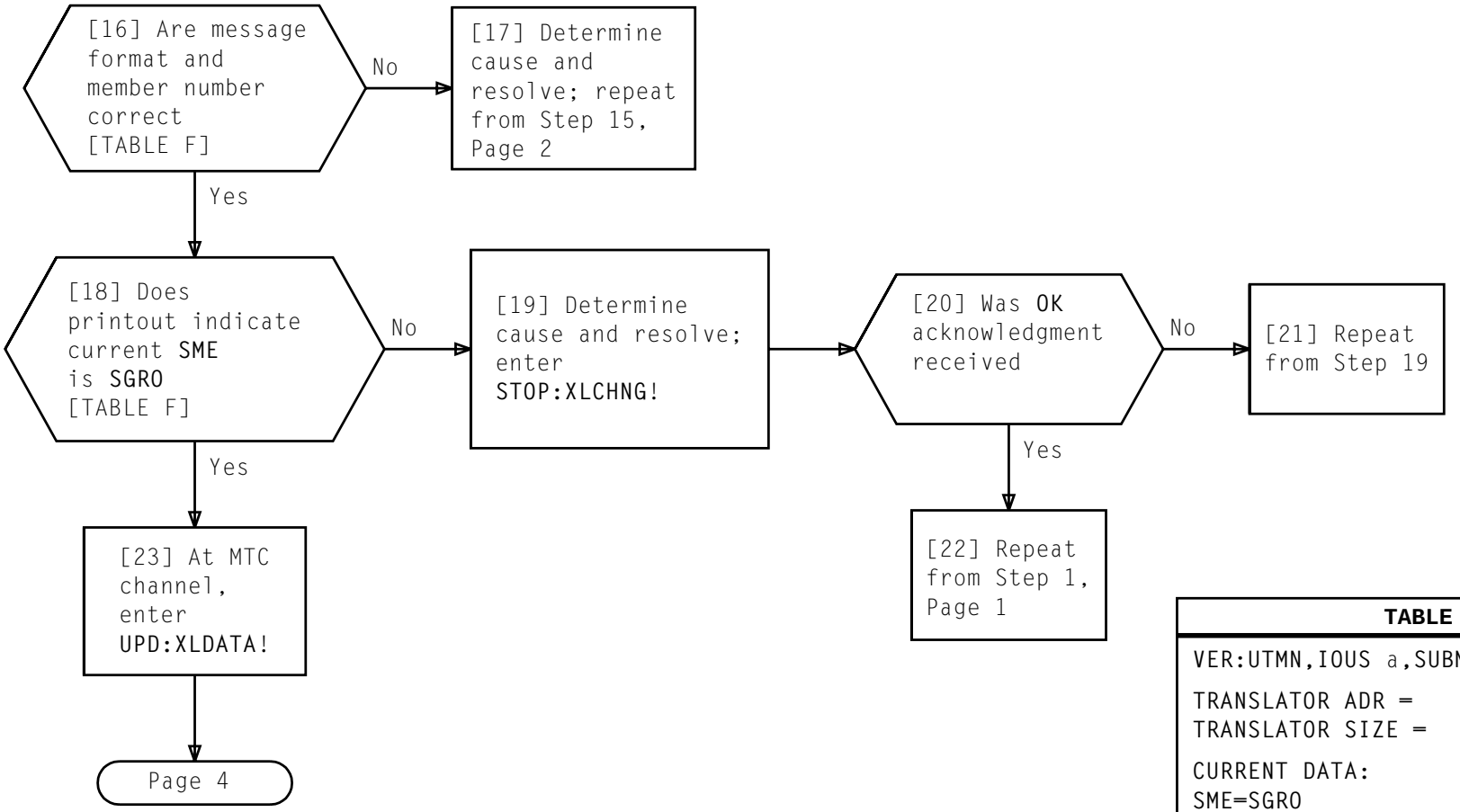


TABLE F
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA: SME=SGRO
a = Member number of associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE
GROW TO SPECIAL GROWTH

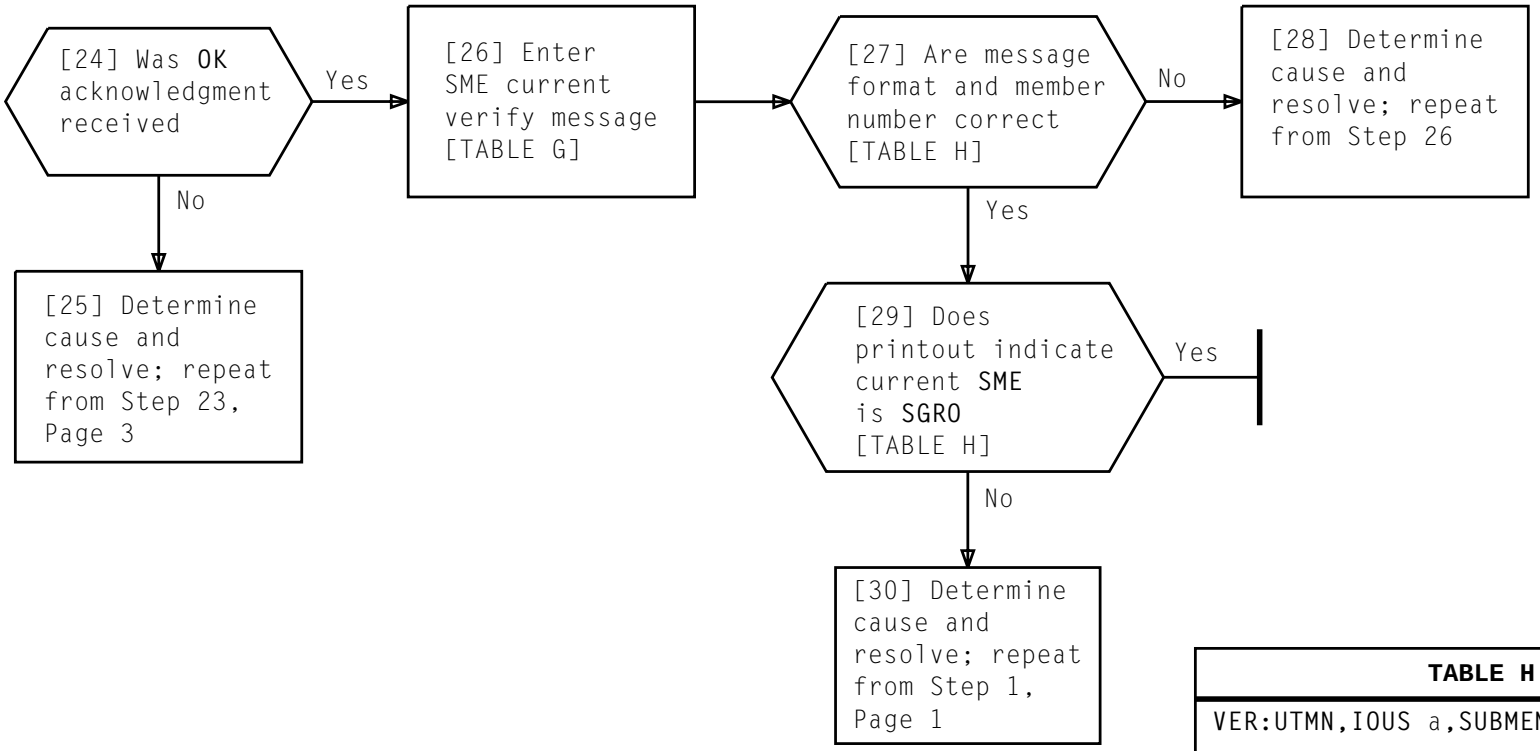


TABLE G
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE H
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA: SME=SGRO
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE GROW TO SPECIAL GROWTH

SUMMARY

Enter change message to grow submember equipage (SME) from SGRO to OPER. Verify buffered SME, enter copy message, verify current SME, then enter update message. If after each verify, the SME is not in the right state, enter stop message and start change from beginning

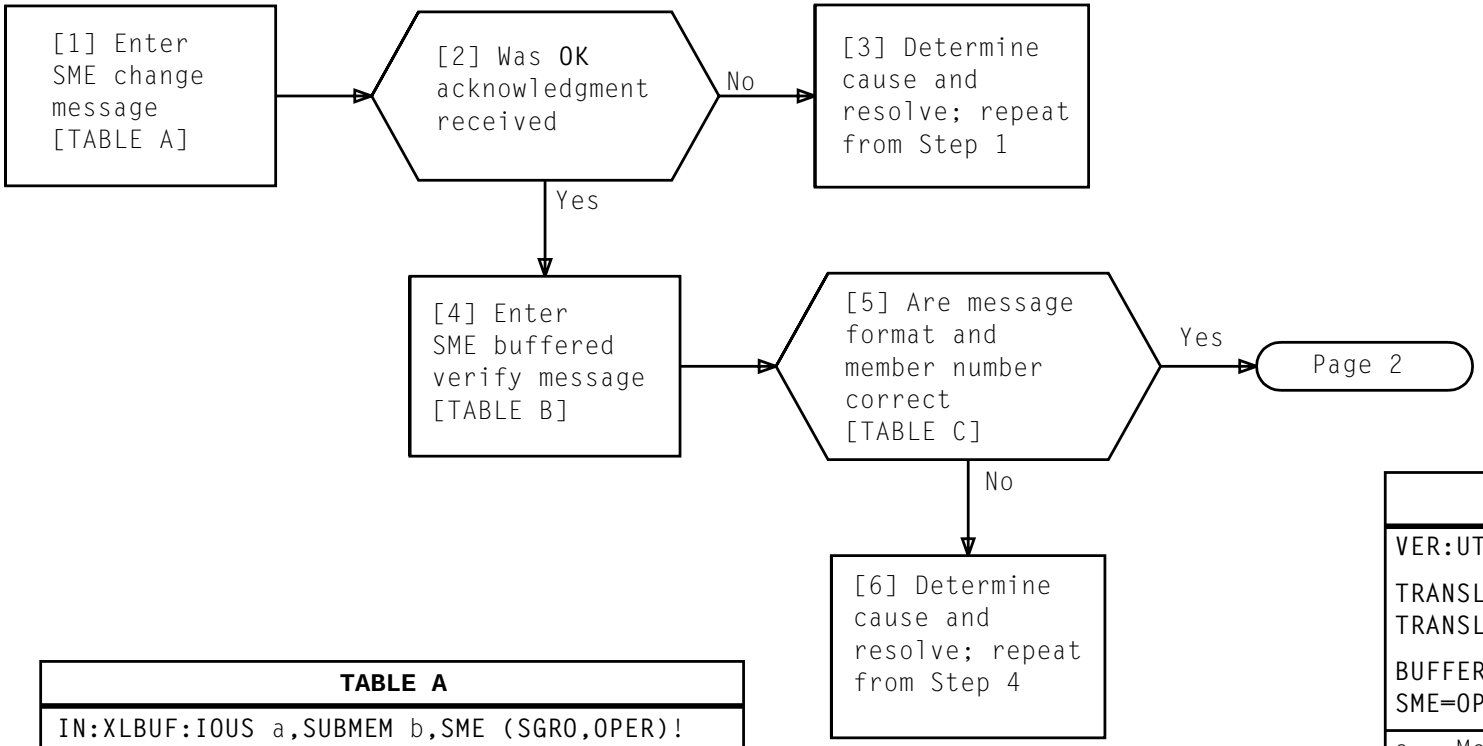


TABLE A

IN:XLBUF:IOUS a,SUBMEM b,SME (SGRO,OPER)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE B

VER:UTMN;BUF:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE C

VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = BUFFERED DATA: SME=OPER
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

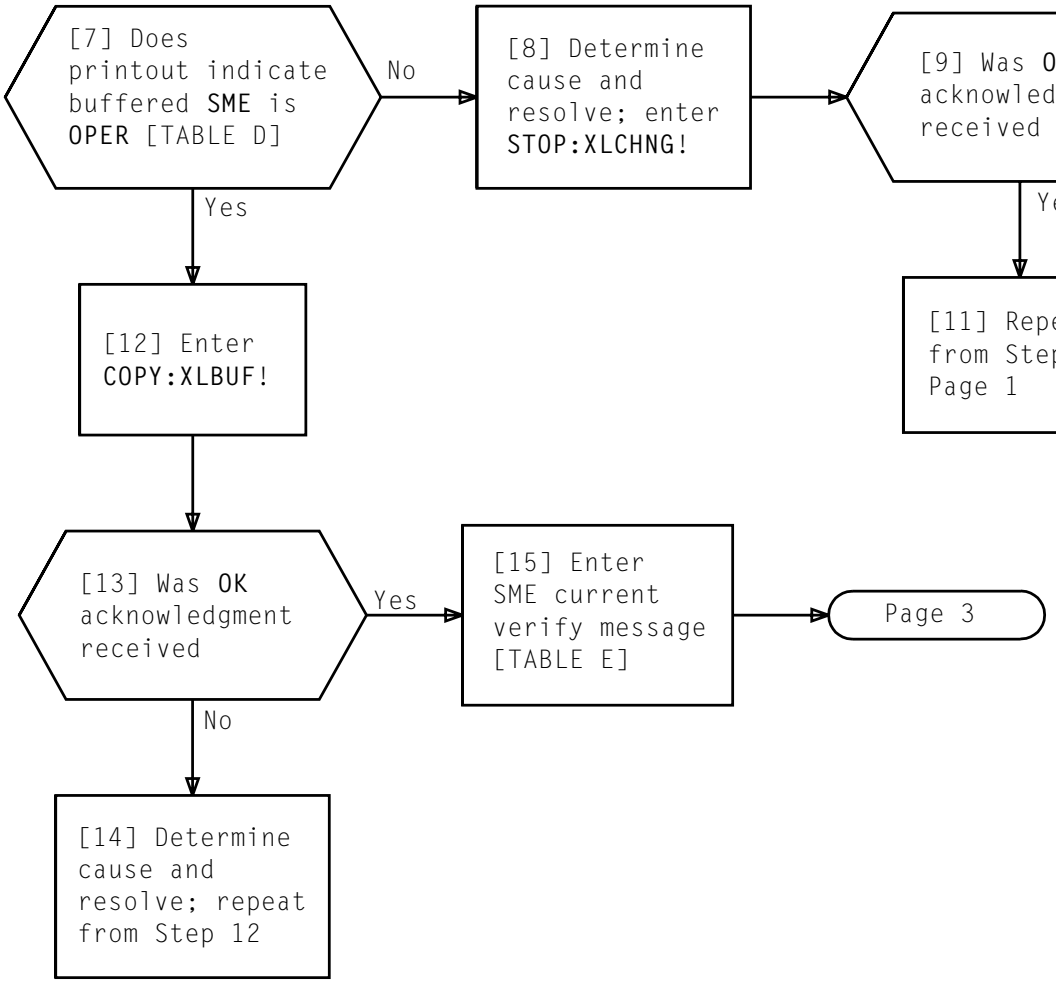


TABLE D
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = BUFFERED DATA: SME=OPER
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE E
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

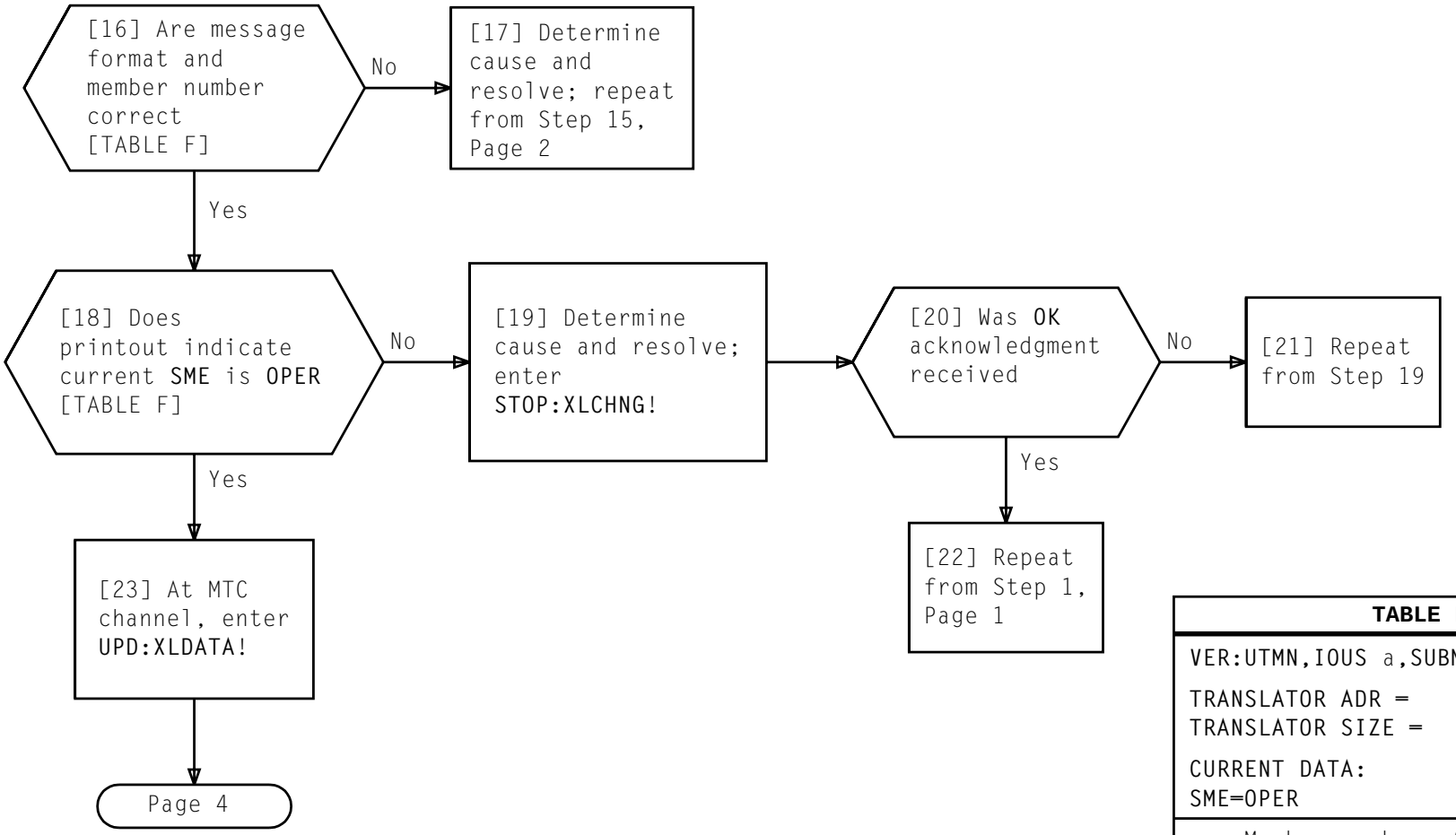


TABLE F
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA: SME=OPER
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

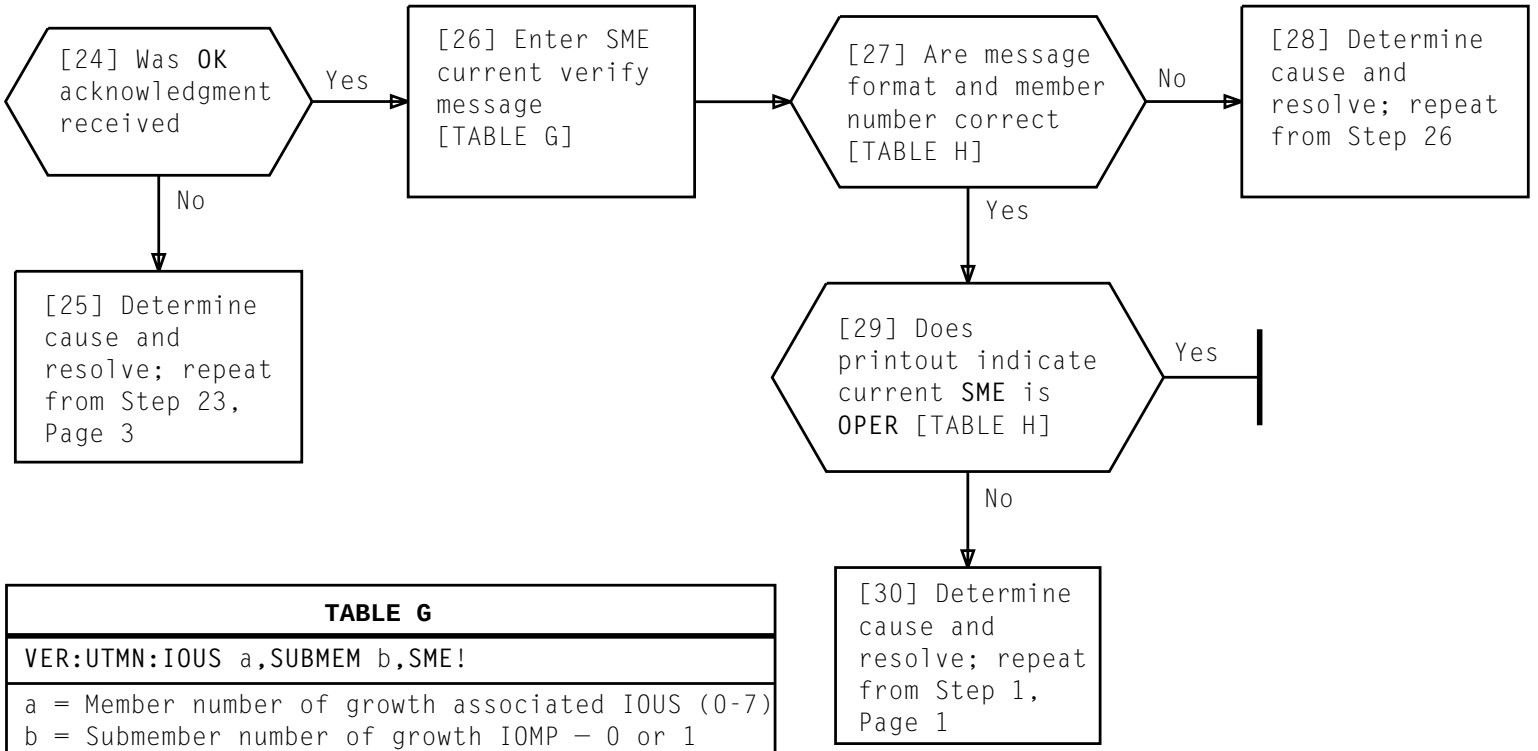


TABLE G
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE H
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA: SME=OPER
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

CHANGE AND VERIFY SUBMEMBER EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

SUMMARY

Using verify input message, verify that submember equipage (SME) for growth unit type is UNEQ. If equipage is in error, change SME to UNEQ

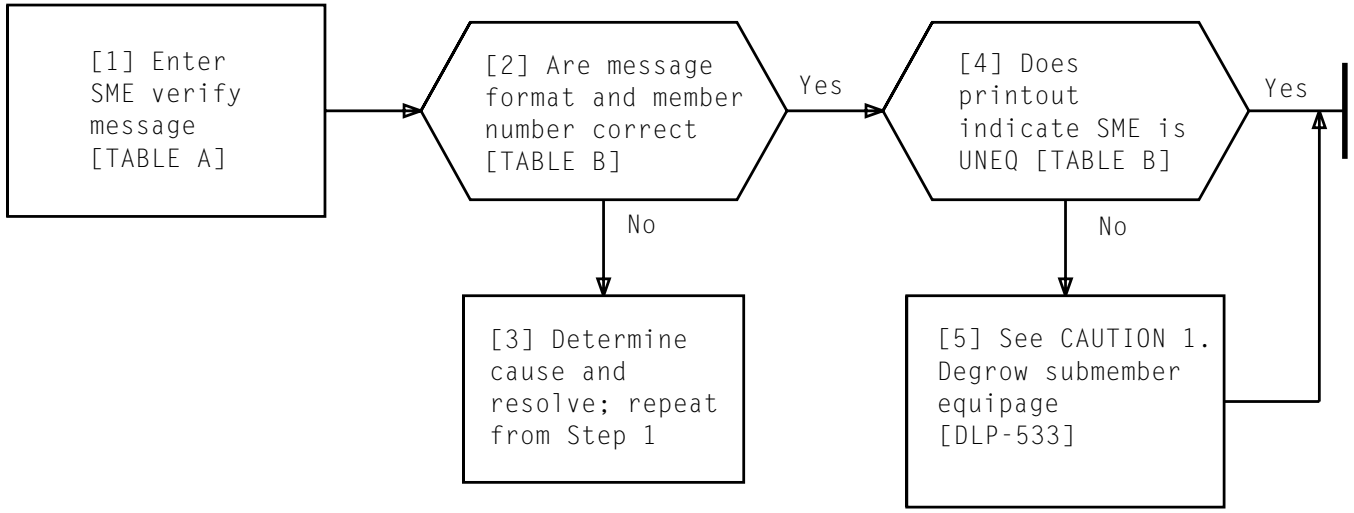


TABLE A
VER:UTMN:IOUS a,SUBMEM 1,SME!
a = Member number of growth associated IOUS (0-7)

TABLE B
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA SME UNEQ
a = Member number of growth associated IOUS (0-7) b = Submember number of growth unit

CAUTION 1
Depending on local procedures, supervisory or TELCO engineering approval must be obtained prior to performing any data changes

VERIFY SUBMEMBER EQUIPAGE UNEQ

SUMMARY

Enter change message to degrow SME from OPER to SGRO and/or from SGRO to GROW and/or from GROW to UNEQ. Verify buffered SME, enter copy message, and verify current SME for each change in state. If after each verify, SME is not in right state, enter stop message and start change from beginning. After all required changes in equipage are in copy state, enter update message and verify current SME

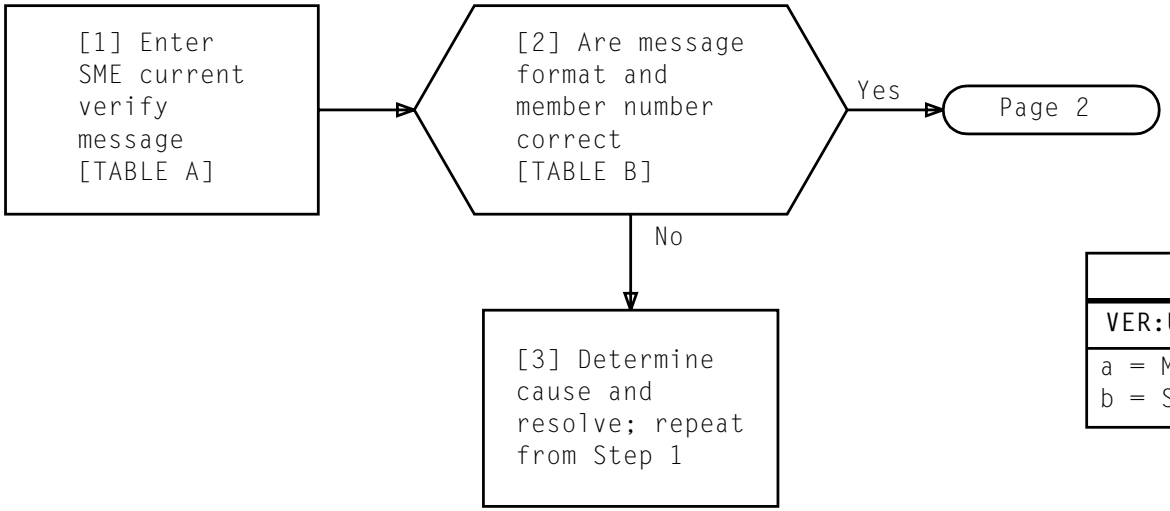


TABLE A
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE B
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA SME=c
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1 c = Submember equipage

DEGROW SUBMEMBER EQUIPAGE

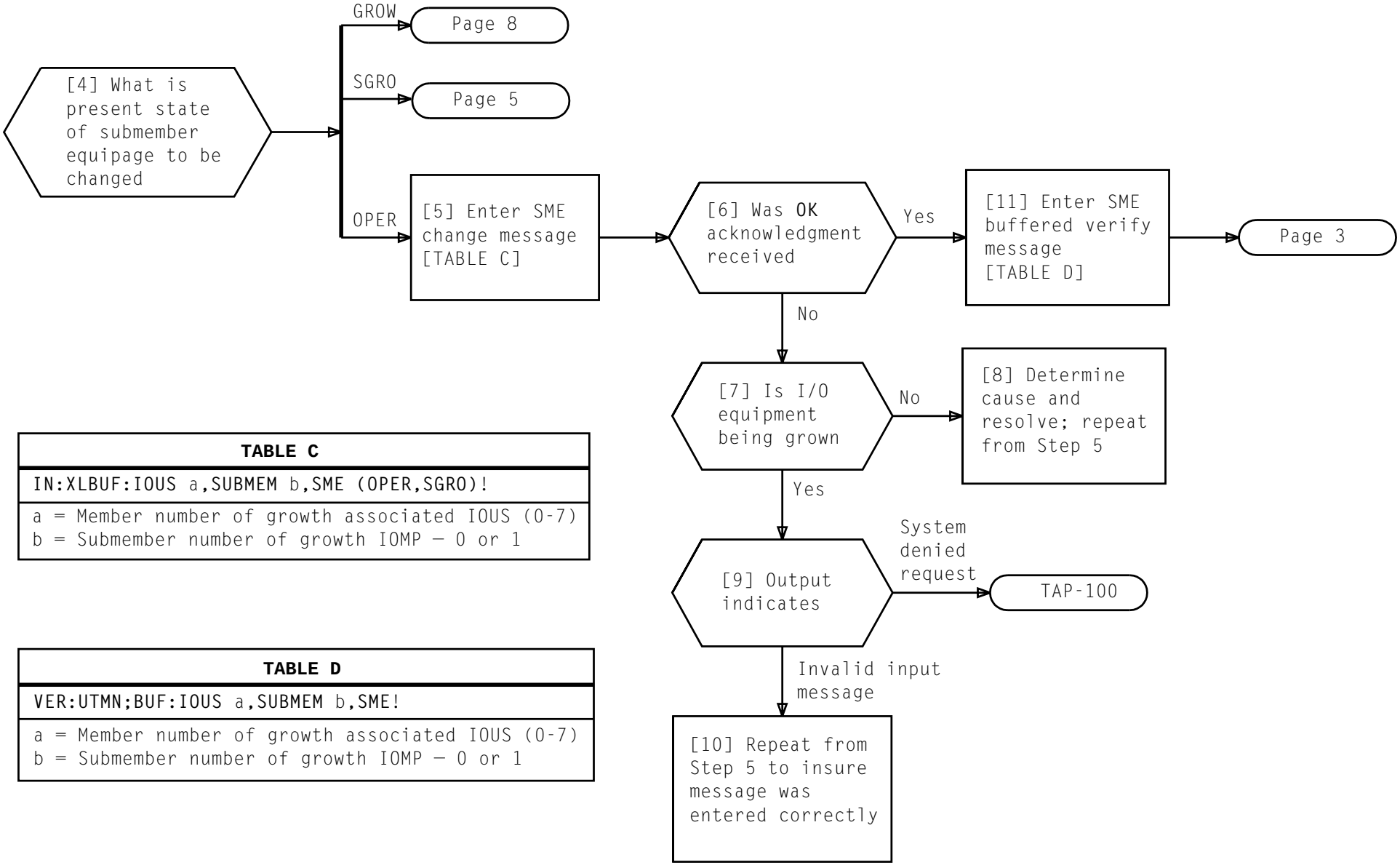


TABLE C
IN:XLBUF:IOUS a,SUBMEM b,SME (OPER,SGRO)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE D
VER:UTMN;BUF:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

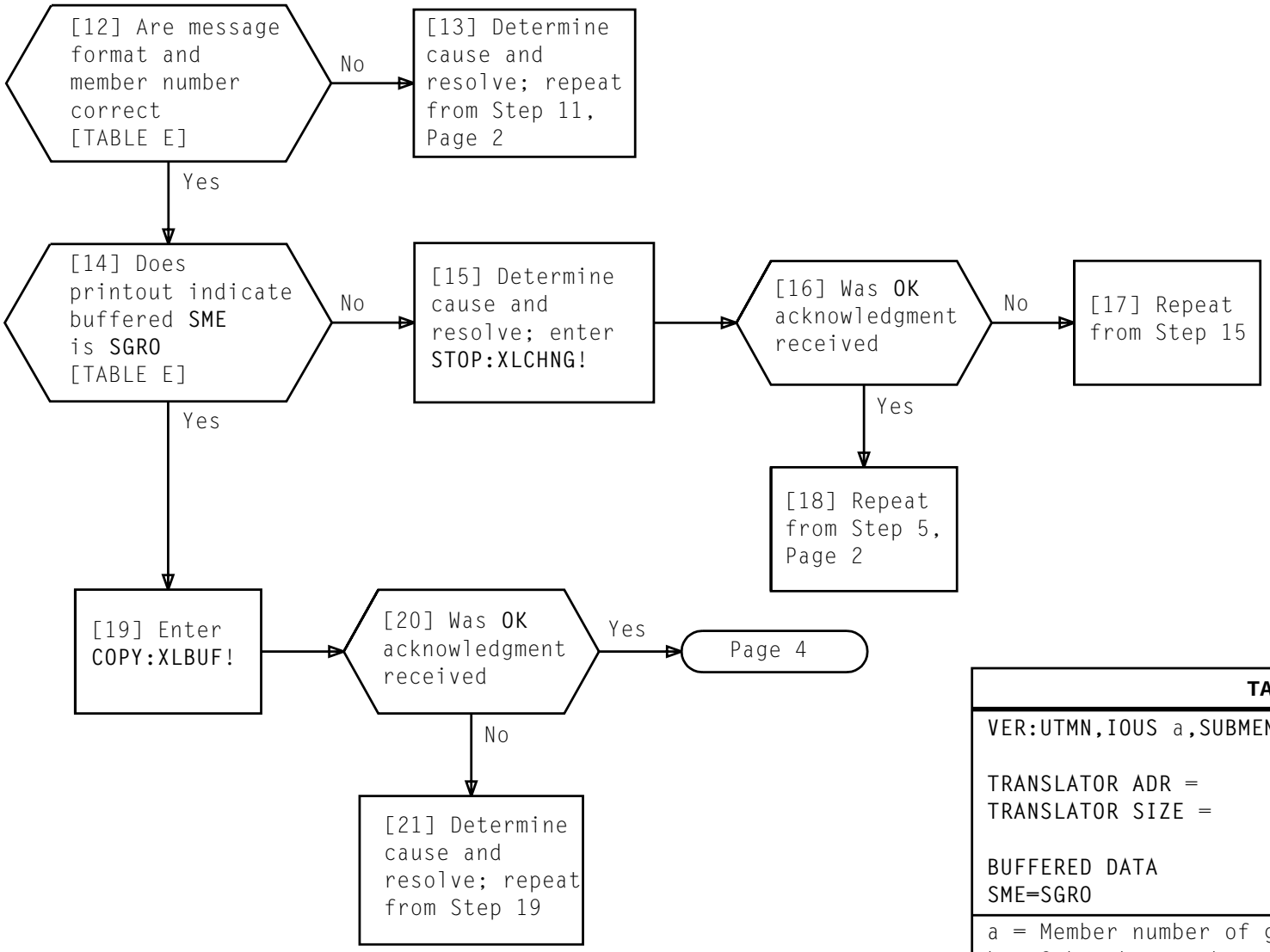


TABLE E
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = BUFFERED DATA SME=SGRO
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

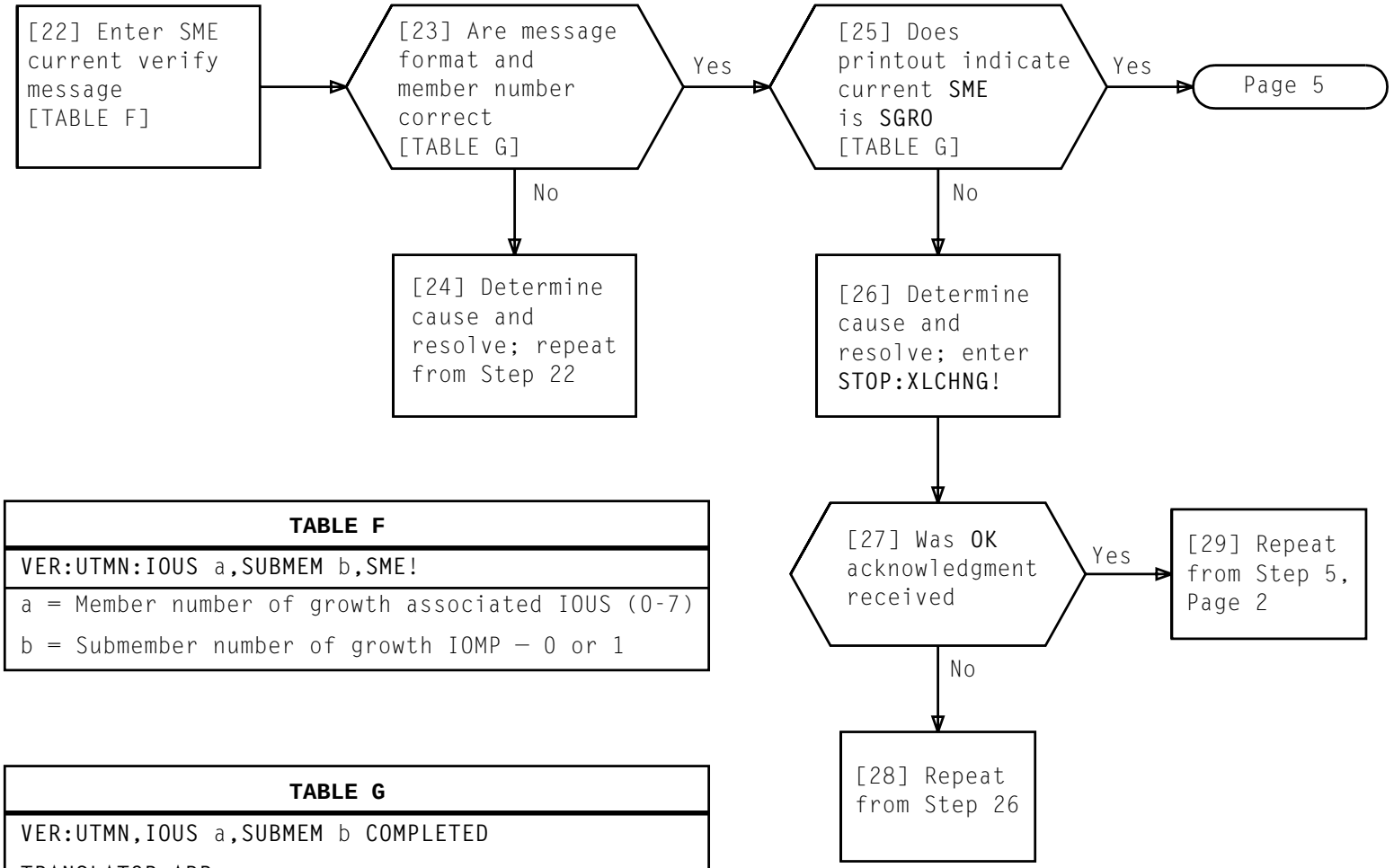


TABLE F
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE G
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA SME=SGRO
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

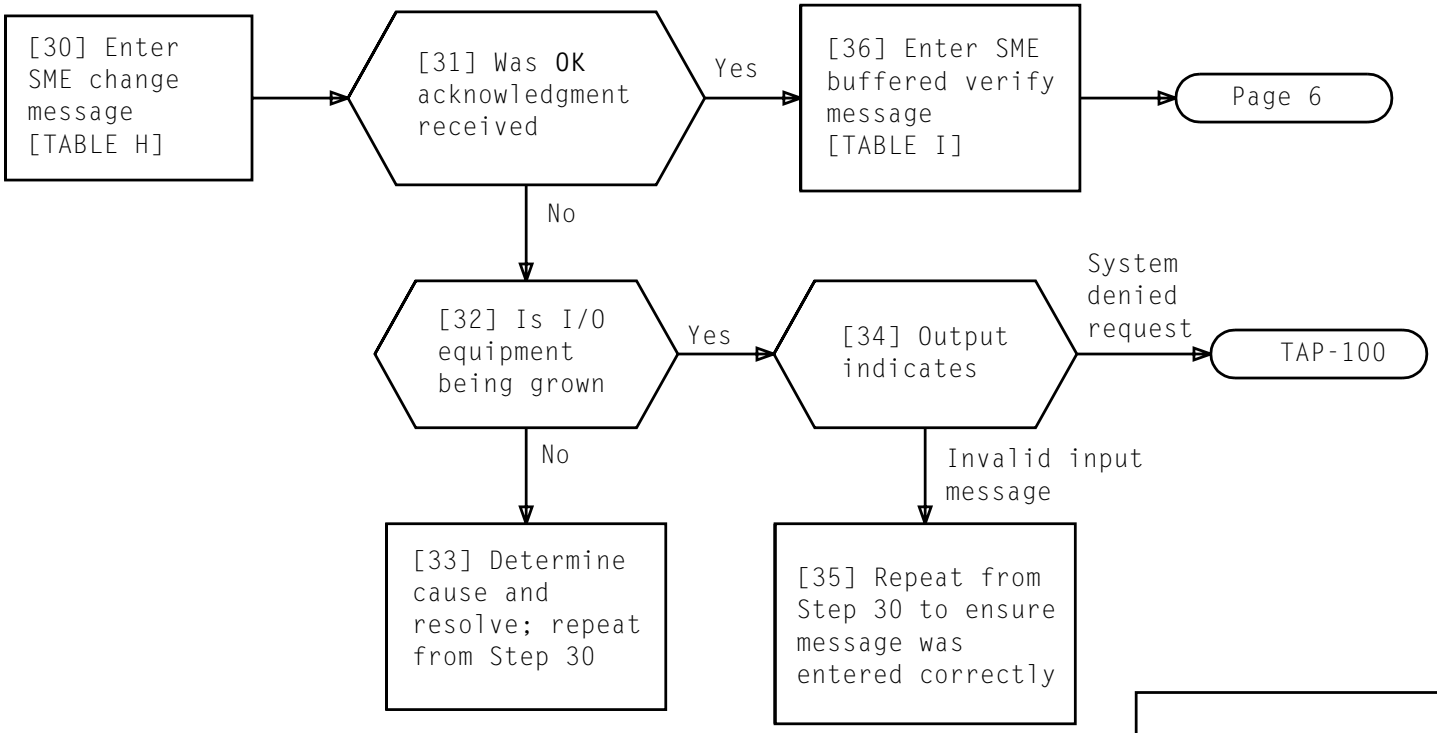


TABLE H
IN:XLBUF:IOUS a,SUBMEM b,SME (SGRO,GROW)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE I
VER:UTMN;BUF:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

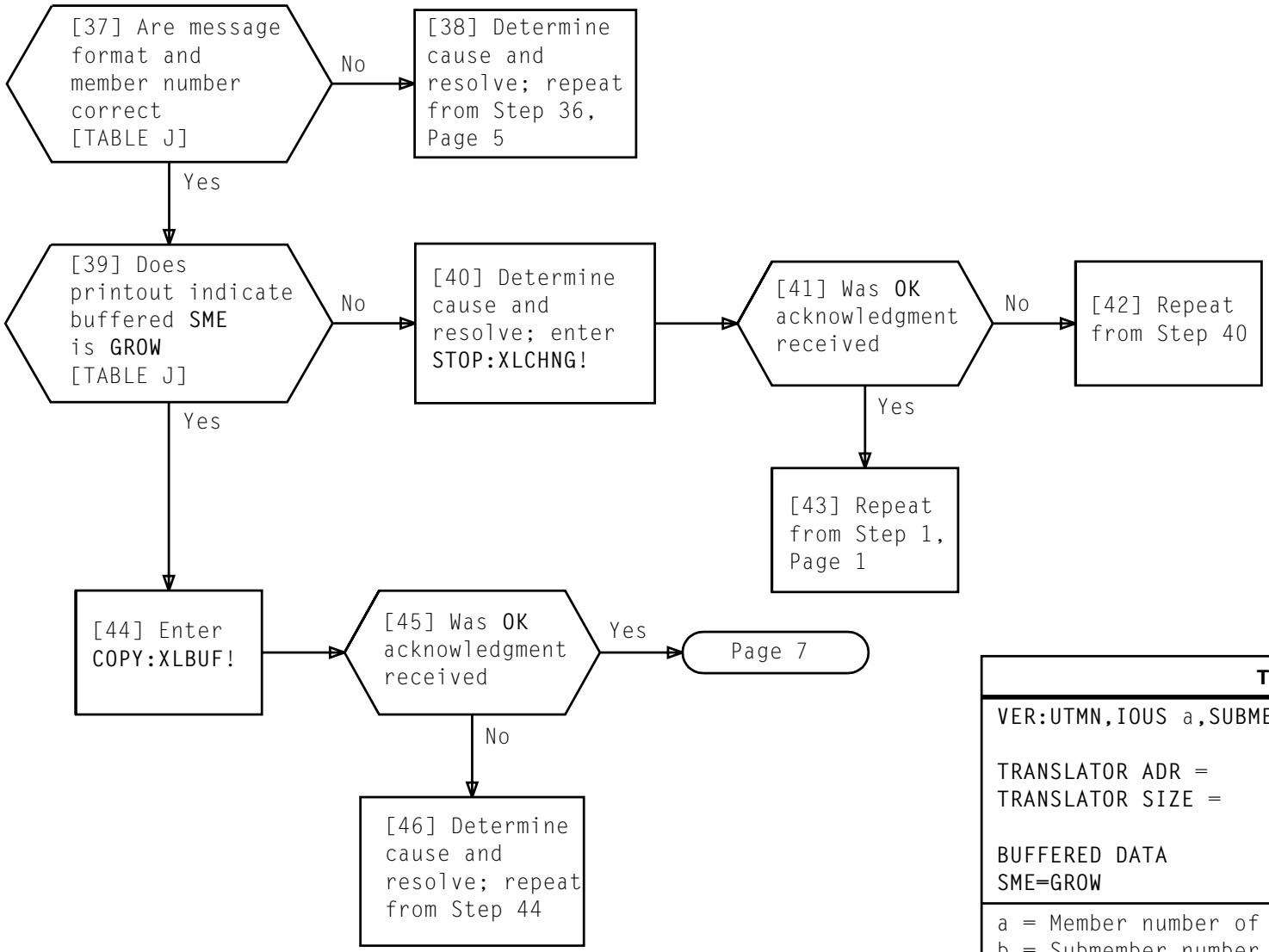


TABLE J
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = BUFFERED DATA SME=GROW
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

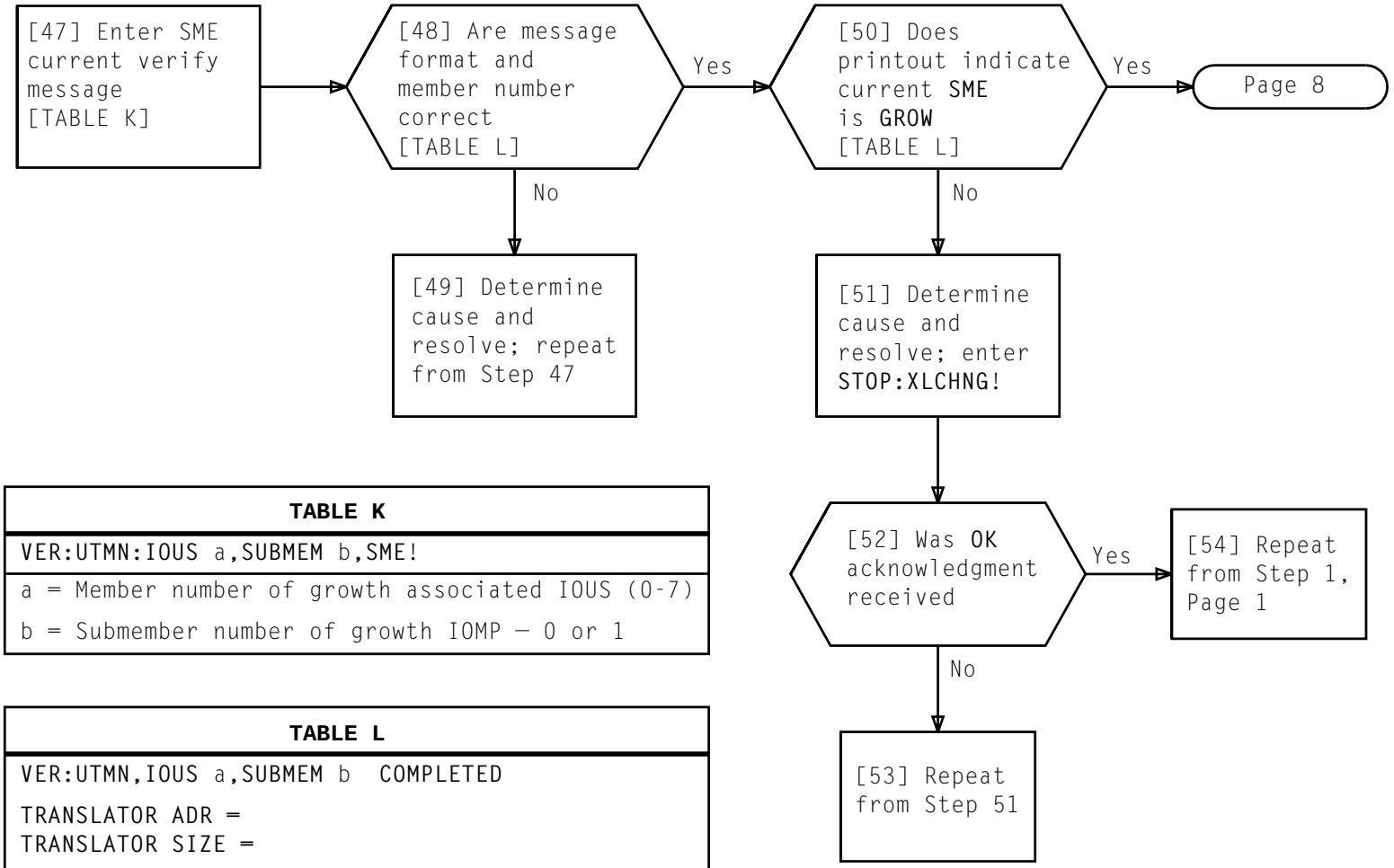


TABLE K
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE L
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA SME=GROW
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

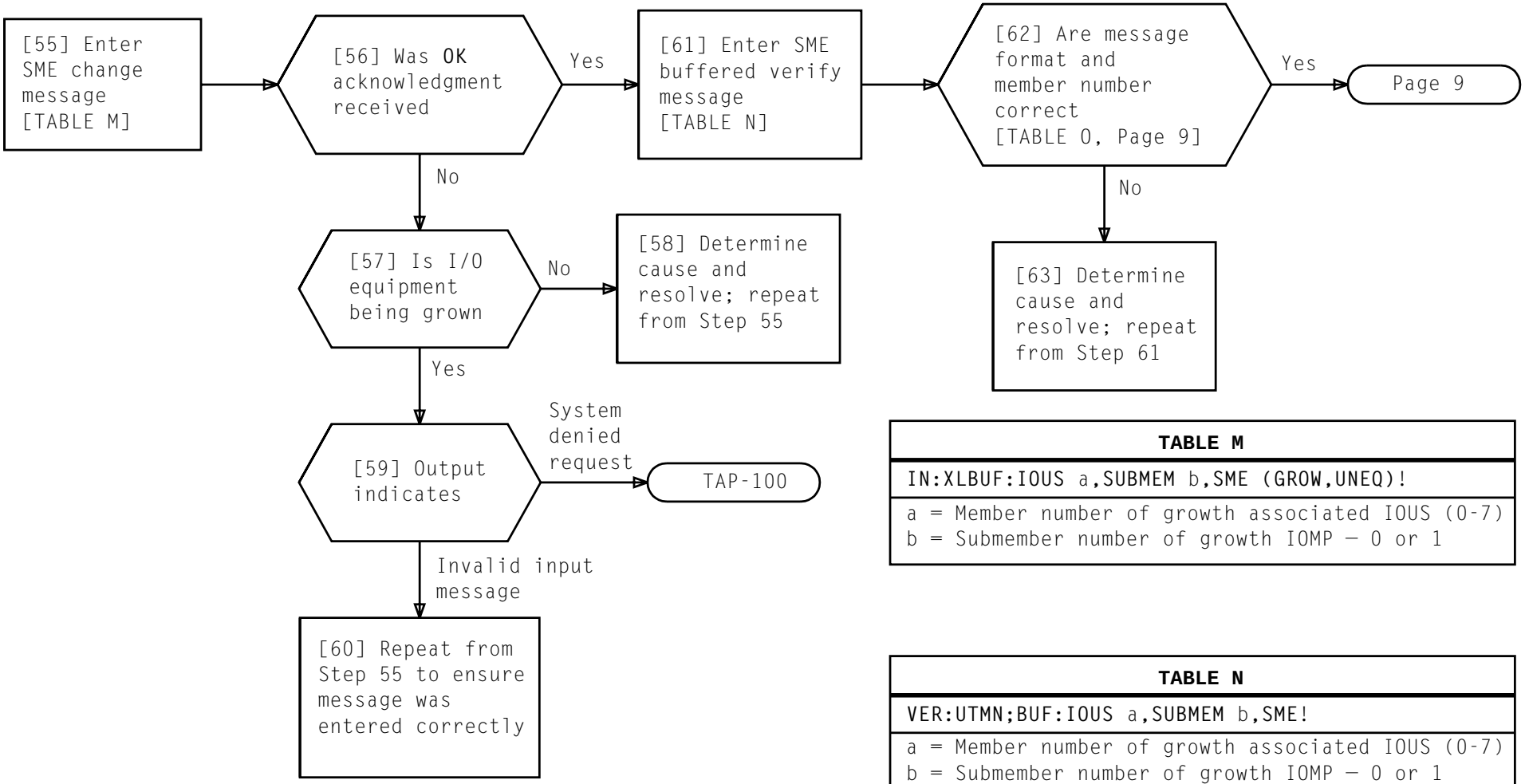


TABLE M
IN:XLBUF:IOUS a,SUBMEM b,SME (GROW,UNEQ)!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

TABLE N
VER:UTMN;BUF:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

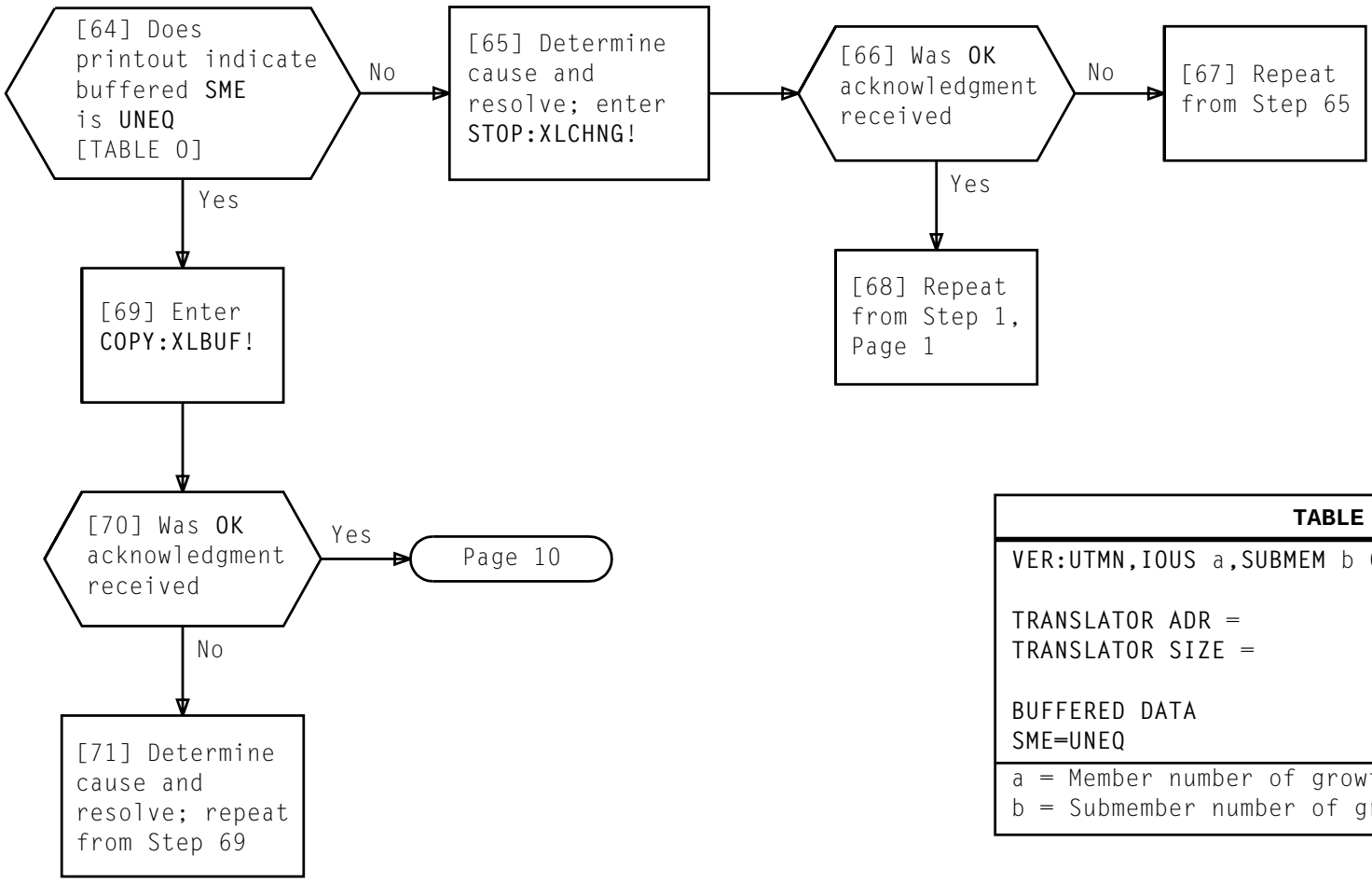


TABLE O
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = BUFFERED DATA SME=UNEQ
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP — 0 or 1

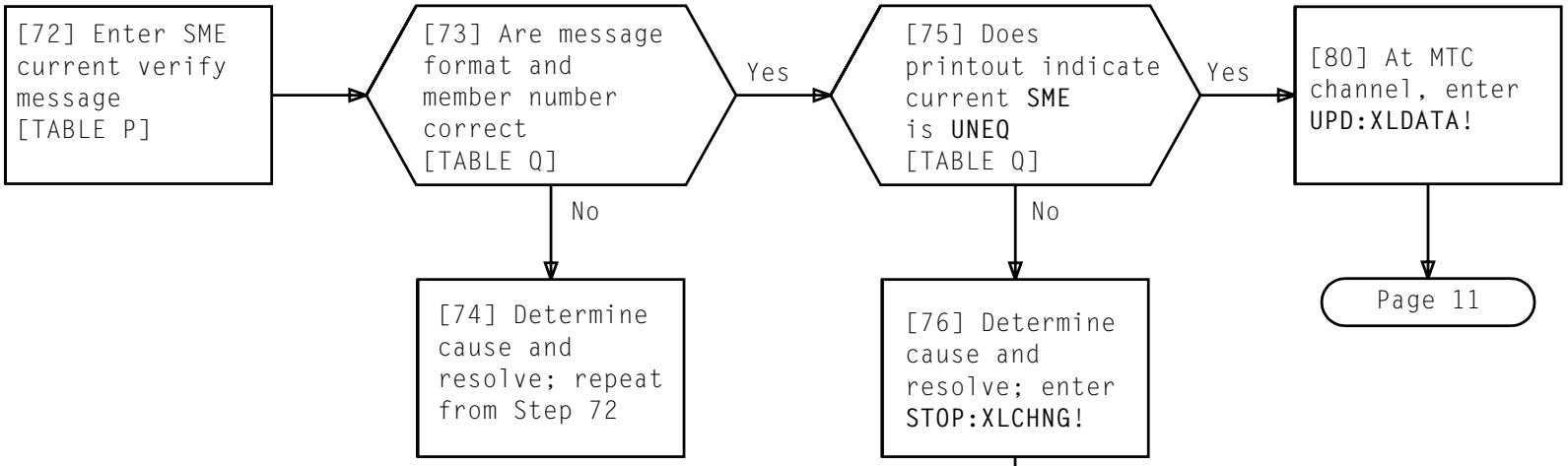


TABLE P
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE Q
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA SME=UNEQ
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

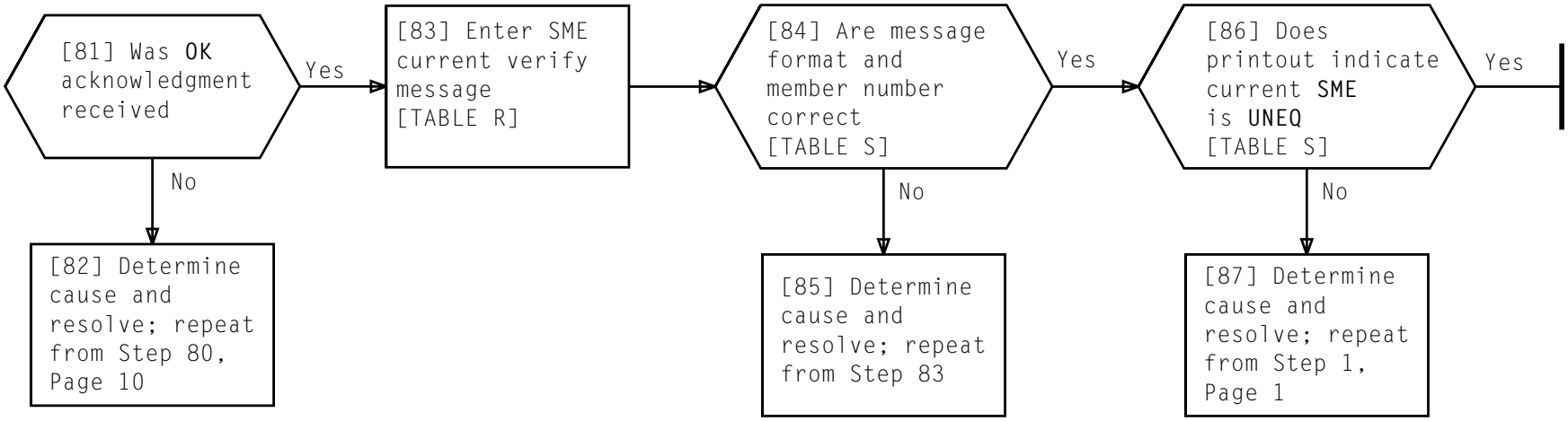
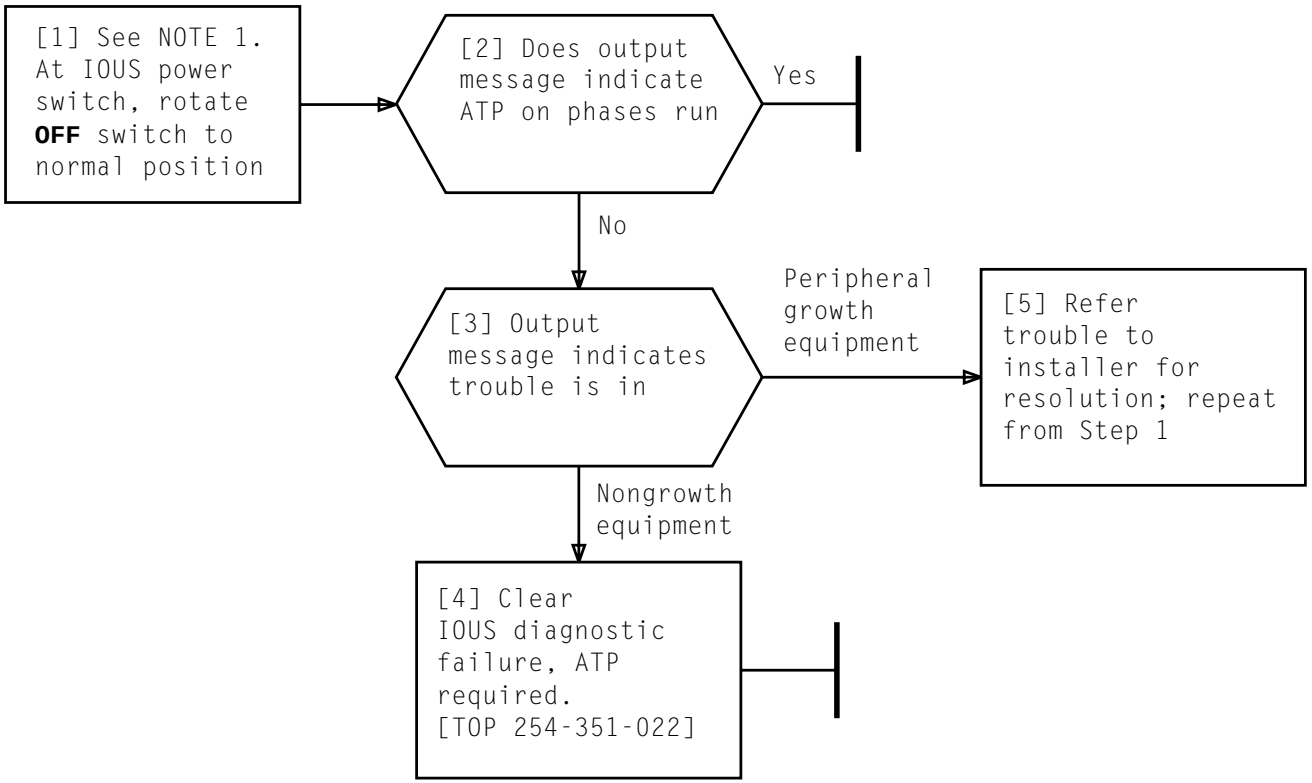


TABLE R
VER:UTMN:IOUS a,SUBMEM b,SME!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1

TABLE S
VER:UTMN,IOUS a,SUBMEM b COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA SME=UNEQ
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOMP — 0 or 1



NOTE 1
Operation of the **OFF** switch will cause a diagnostic to be run

RESTORE IOUS POWER SWITCH TO NORMAL

TABLE A	
ERROR CODE	**EXPLANATION**
11	ERROR IN OR INVALID MSG FLG. (ADDED TO ABORT PREFIX)
12	TIMEOUT. NO MSG INPUT
201	UPD:XLDATA MESSAGE INPUT ON ILLEGAL CHANNEL The UPD:XLDATA message may be inputted only from the maintenance channel. If it is out-of-service, then the message will be accepted from the maintenance backup channel. This restriction is to assist user to avoid making permanent translation changes if those changes are causing interrupts and/or audits (which will be reported on the maintenance channel)
202	ATTEMPT MADE TO CHANGE EQUIPAGE STATE MORE THAN ONE STEP To avoid masking problems by skipping equipage states, only the following equipage state changes are allowed: UNEQ to GROW GROW to SGRO SGRO to OPER OPER to SGRO SGRO to GROW GROW to UNEQ
203	EQUIPAGE STATE INPUT AS CURRENT SYSTEM VALUE DOES NOT MATCH CURRENT SYSTEM VALUE Use VER:UTMN to determine current system value
204	INVALID EQUIPAGE MNEMONIC INPUT Valid mnemonics for equipage are: UNEQ GROW SGRO OPER
205	INVALID MESSAGE SEQUENCE No **COPY:XLBUF** message has been received. This must precede the **UPD:XLDATA** message
206	Unused
207	Unused
208	VALUE INPUT FOR GIVEN MNEMONIC EXCEEDS MAXIMUM VALUE ALLOWED FOR THAT FIELD Recheck input message section for limit on item size

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
209	Unused
210	Unused
211	MEMBER NUMBER INPUT IS GREATER THAN MAXIMUM ALLOWED FOR GIVEN UNIT TYPE Designated unit does not exist. Recheck message
212	Unused
213	MAIN MEMORY ADDRESS HAS NO FILE STORE BACKUP NOTE: Internal error. May indicate memory mutilation. Run SAWS audit. Seek aid
214	Unused
215	Unused
216	NO NEW EQUIPAGE DETECTED IN INPUT MESSAGE Recheck message and reenter
217	NO NEW VALUE DETECTED IN INPUT MESSAGE Recheck message and reenter
218	NO CURRENT EQUIPAGE DETECTED IN INPUT MESSAGE Recheck message and reenter
219	NO CURRENT VALUE DETECTED IN INPUT MESSAGE Recheck message and reenter
220	TRANSLATION CHANGE PROCEDURE NOT IN PROGRESS
221	DESIGNATED UNIT IS NOT OUT-OF-SERVICE OR IN NONOPERATIONAL EQUIPAGE STATE If translations must be changed for designated unit, use standard message to remove unit from service
222	NO UNIT TYPE, MEMBER NUMBER DETECTED IN INPUT MESSAGE Recheck message and reenter
223	VALUE INPUT AS CURRENT SYSTEM DATA DOES NOT MATCH CURRENT SYSTEM VALUE To determine current system value, use VER:UTMN
224	Unused

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
225	ILLEGAL KEYWORD COMBINATION DETECTED Recheck message and reenter
226	DESIGNATED UNIT TYPE NOT SUPPORTED BY XAPP Check unit type mnemonic for typographical error. Recheck GENERAL INFORMATION for list of unit types supported by XAPP
227	EXTRA ARGUMENTS DETECTED IN INPUT MESSAGE Recheck message and reenter
228	SYSTEM HASH SUM UPDATE FAILURE DETECTED This failure MAY cause unrecoverable SAWS errors. If so, the system backup tape covering translation data must be mounted and SAST must be run to detect and correct the hash problem NOTE: If SAST correct mode is invoked, all XAPP changes made since tape was written will be removed. Such an action may not be consistent with current hardware configuration. If in doubt, seek aid
229	MERGE LOCKOUT INPUT FAILURE DETECTED NOTE: Internal error. May indicate memory mutilation. Run SAWS audit. Seek aid
230	MERGE LOCKOUT Another merge data changing client is in progress. This may be the tape-writing program (TWRP), recent change (RC), or any client which changes merge data or requires a stable copy of merge data. Wait until client completes; then reenter message
231	PREVIOUS **COPY:XLBUF** DID NOT COMPLETE Enter **STOP:XLCHNG!** This will require all changes since last **UPD:XLDATA** to be reentered
232	PREVIOUS **UPD:XLDATA** DID NOT COMPLETE Enter **STOP:XLCHNG!** This will require all changes entered since last **UPD:XLDATA** to be reentered
233	NO ARGUMENT DETECTED FOR KEYWORD ‘IOUC’ Recheck message and reenter
234	Unused
235	IOUS EQUIPAGE IS LESS THAN ATTACHED IOUC EQUIPAGE A subordinate unit cannot be in an equipage state higher than the controlling unit. If growing, grow the controlling unit first. If degrowing, degrow the subordinate unit first

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
236	IOUC EQUIPAGE IS LESS THAN ATTACHED PORT EQUIPAGE A subordinate unit cannot be in an equipage state higher than the controlling unit. If growing, grow the controlling unit first. If degrowing, degrow the subordinate unit first
237	ONE OR MORE REQUIRED IOUC PARAMETERS HAVE NOT BEEN INPUTTED In order to build related IO tables, all channel parameters must be inputted before channel is moved from UNEQ equipage state
238	ATTEMPT TO CHANGE CHANNEL PARAMETER WHEN CHANNEL IS OPERATIONAL In order to build related IO tables, most channel parameters may be changed only if channel is not in the OPER equipage state. Degrow channel to SGRO, make change, and grow to OPER
239	INVALID ARGUMENT MNEMONIC DETECTED Acceptable arguments for this keyword are: Y (indicates YES or EQUIPPED) N (indicates NO or NOT EQUIPPED)
240	NO ARGUMENT DETECTED FOR KEYWORD ‘SPD’ Recheck message and reenter
241	INVALID CHANNEL SPEED INPUT Recheck message and reenter
242	NO ARGUMENT DETECTED FOR KEYWORD ‘TRMTYP’ Recheck message and reenter
	(Continued on Page 5)

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
243	INVALID TERMINAL TYPE INPUT Valid mnemonics are: NONE — no terminal equipment P — printer T — tape KD — keyboard, display KP — keyboard, printer PT — printer, tape KDP — keyboard, display, printer KPT — keyboard, printer, tape KDPT — keyboard, display, printer, tape KDT — keyboard, display, tape
244	DUPLICATE CHANNEL ASSIGNMENT DETECTED Given channel name (or number) is already assigned to a channel. Select another name
245	ATTEMPT DETECTED TO CHANGE CHANNEL ASSIGNMENT ILLEGALLY Channel name may be changed only when channel is in the UNEQ equipage state. Several related IO tables are indexed with channel name (number) and these tables have to be rebuilt when channel name (number) changes
246	PORT EQUIPAGE IS GREATER THAN PARENT IOUC EQUIPAGE A subordinate unit cannot be in an equipage state higher than the controlling unit. If growing, grow the controlling unit first. If degrowing, degrow the subordinate unit first
247	NO ARGUMENT DETECTED FOR KEYWORD ‘PORT’ Recheck message and reenter
248	INPUT PORT NUMBER IS INVALID Recheck message and reenter
249	UNABLE TO FIND IDLE CHANNEL MEMORY BLOCK NOTE: Seek aid
250	ONE OR MORE REQUIRED PORT PARAMETERS HAVE NOT BEEN INPUT All port parameters must be input before port equipage may be moved from UNEQ equipage state

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
251	IOUS HARDWARE GENERATION IS INVALID Recheck message and reenter
252	IOUC EQUIPAGE IS GREATER THAN PARENT IOP EQUIPAGE A subordinate unit cannot be in an equipage state higher than the controlling unit. If growing, grow the controlling unit first. If degrowing, degrow the subordinate unit first
253	SPEED CAPABILITY OF IO MICRO PROCESSOR HAS BEEN EXCEEDED Current IOP capability is 19,200 baud. Total of all attached channels may not exceed this number
254	NO ARGUMENT FOR KEYWORD 'SUBMEM' DETECTED Recheck message and reenter
255	ARGUMENT FOR 'SUBMEM' IS INVALID Recheck message and reenter
256	IOMP EQUIPAGE IS LESS THAN ATTACHED IOUC EQUIPAGE A subordinate unit cannot be in an equipage state higher than the controlling unit. If growing, grow the controlling unit first. If degrowing, degrow the subordinate unit first
257	IOMP EQUIPAGE IS GREATER THAN IOUS EQUIPAGE A subordinage unit cannot be in an equipage state higher than the controlling unit. If growing, grow the controlling unit first. If degrowing, degrow the subordinate unit first
258	ATTEMPT TO ASSIGN CHANNEL 0 TO IOUS 0, IOUC X Channel 0 must be assigned to IOUS 0, IOUC 0
259	ATTEMPT TO ASSIGN CHANNEL 0 TO IOUS X Channel 0 must be assigned to IOUS 0, IOUC 0
260	ATTEMPT TO ASSIGN CHANNEL X TO IOUS 0, IOUC 0 Channel 0 must be assigned to IOUS 0, IOUC 0
261	INVALID IOUC NUMBER DETECTED Recheck message and reenter
262	NON ZERO BUS SCAN POINT DETECTED New bus scan point must be zero (growth of semiconductor stores)
263	ILLEGAL CS SCAN POINT DETECTED New CS scan point can replace only an unequipped CS or a CSB frame

TABLE A (Contd)

ERROR CODE	EXPLANATION
264	ILLEGAL PS SCAN POINT DETECTED New PS scan point can replace only an unequipped PS or a PSB frame
265	INVALID SCAN POINT ROW DETECTED Scan point row must be greater than or equal to 48
266	INVALID SCAN POINT COLUMN DETECTED Scan point column must be less than or equal to D(22)
267	PARITY OVER SCAN POINT ROW IS INCORRECT Parity must be odd
268	SCAN POINT COLUMN IS ODD Scan point column must be even
269	ATTEMPT TO REASSIGN SCAN POINT OF EQUIPPED UNIT When reassigning scan points, only those of unequipped units may be used. Recheck message and reenter
270	MNEMONIC FOR 'CHNAME' NOT RECOGNIZED Recheck message and reenter
271	CHANNEL NUMBER IS GREATER THAN MAXIMUM (CURRENTLY 95) Recheck message and reenter
272	ATTEMPT TO CHANGE PARAMETER OF OPERATIONAL PORT Port must be in nonoperational equipage state to change parameters. Degrow port to SGRO, make parameter change, grow port to OPER
273	WORD GIVEN IS BEYOND END OF TRANSLATOR
274	Unused
279	Unused
280	ABORT CODE PREFIX
281	Unused
281	Unused

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
300	FILE STORE QUEUE FULL Reenter message
301	INPUTS TO DKAD FAILED NOTE: Internal error. Seek aid
302 | 324	Unused | Unused
325	NO HARDWARE VERSION TRANSLATOR ADR WAS FOUND. AN INVALID UNIT NUMBER OR UNIT TYPE WAS ENTERED
326	NO HVTRANS MNEMNONIC TERM WAS ENTERED
327	NO 2ND ARGUMENT WAS ENTERED FOR KEYWORD 'HVTRANS'
328	AN INVALID HVTRANS ITEM WAS ENTERED
329	Unused
330	THE CHG VALUE MUST BE 3 TO EQUIP THE CHANNEL WITH DIALUP
331	THE ARGUMENT ENTERED FOR THE KEYWORD PTC IS MISSING OR INVALID
332	Unused
333	THE 'CHNAME' KEYWORD HAS ALREADY BEEN ENTERED. TO CHANGE THE CHNAME AT THIS POINT, ENTER STOP:XLCHNG OR CHANGE THE REST OF THE CHANNEL PARAMETERS AND GROW THE CHANNEL
334	THE KEYWORD 'CHNAME' HAS TO BE ENTERED BEFORE ANY OTHER CHANNEL (IOUC) KEYWORDS CAN BE PROCESSED
335	NO MODE MNEMONIC ITEM WAS INPUT
336	AN INVALID MODE MNEMONIC WAS INPUT. VALID MNEMONICS ARE: FLLDPX – FULL DUPLEX HLFDPX – HALF DUPLEX
337	AN INVALID APPLICATION ID WAS INPUT VALID APPLICATION ID'S ARE (0 THROUGH 7) 0 MEANING 'NONE'
338	INVALID DATASET TYPE INPUT. VALID DATASET TYPES ARE: 212A,201CDD,201CPL,208A,208B,209A,201CPD,208APD,202108
339	NO ARGUMENT FOR DATASET TYPE WAS ENTERED

TABLE A (Contd)	
ERROR CODE	**EXPLANATION**
340	ITEM ENTERED IS VALID ONLY FOR A CHANNEL WITH A CHG VALUE OF 4 OR GREATER AND PORT 0
341	NO ARGUMENT FOR 'ORIGNDA' INPUT
342	NO ARGUMENT FOR 'ORIGAHP' INPUT
343	NO ARGUMENT FOR 'DESTNDA' INPUT
344	NO ARGUMENT FOR 'DESTAHP' INPUT
345	NO ARGUMENT FOR 'MXBLKSZ' INPUT
346	MAXIMUM DATA BLOCK SIZE INVALID. THE ARGUMENT FOR 'MXBLKSZ! MUST BE A MULTIPLE OF 3 AND LESS THAN OR EQUAL TO DECIMAL 510
347	INVALID ARGUMENT FOR ORIGIN NODE ADDRESS. VALID ARGUMENTS ARE HEXADECIMAL (00 THROUGH FF)
348	INVALID ARGUMENT FOR ORIGIN APPLICATION HOST PROCESSOR IDENTIFIER. VALID ARGUMENTS ARE HEXADECIMAL (0 THROUGH F)
349	INVALID ARGUMENT FOR DESTINATION APPLICATION HOST PROCESSOR IDENTIFIER. VALID ARGUMENTS ARE HEXADECIMAL (0 THROUGH F)
350	INVALID ARGUMENT FOR DESTINATION NODE ADDRESS. VALID ARGUMENTS ARE HEXADECIMAL (00 THROUGH FF)
351	INVALID KEYWORD WAS ENTERED FOR VER:UTMN; MESSAGE
352	Unused
353	DISK FILE IS MARKED ESSENTIAL AND THEREFORE CANNOT BE DEGROWN
354 | 359	Unused | Unused
360	THE IOP UNIT IS EQUIPPED WITH A **TN82** CIRCUIT PACK, WHICH IS A FULL DUPLEX BOARD IO cannot operate in the half duplex mode
361	THE IOP IS EQUIPPED WITH A **TN82** CIRCUIT PACK, WHICH ALLOWS ONLY PORT 0 TO BE EQUIPPED
362	THE IOP IS EQUIPPED WITH A **TN82** CIRCUIT PACK Port 0 Data Set Indicator can only be Private Line
363	THE IOP IS EQUIPPED WITH A **TN82** CIRCUIT PACK, WHICH DOES NOT SUPPORT THE ANSWER BACK EQUIPAGE

TABLE A (Contd)

ERROR CODE	EXPLANATION
364	THE IO UNIT MUST BE EQUIPPED WITH A **TN82** CIRCUIT PACK TO HANDLE 56K BPS SPEED CAPABILITY
365	NO ARGUMENT WAS ENTERED FOR STATION TYPE
366	INVALID STATION TYPE WAS ENTERED Valid Station Types are DCE or DTE
367 | 370	Unused | Unused
371	INVALID CHANNEL NUMBER
372	CHANNEL IS HARDWARE EQUIPPED
373	CHTYP ARGUMENT IS OUT OF RANGE
374	CHANNEL IS NOT LOGICALLY DEFINED
375	CHANNEL IS IN USE
376	MISSING ARGUMENT FOR CHANNEL PARAMETER
377	Unused
378	MISSING ARGUMENT FOR CHTYP PARAMETER
379	NO ITEMS ARE CURRENTLY DEFINED FOR API UNIT TYPE IN HVTRANS TABLE
380	Unused
381	SOAK LIST IS FULL
382 | 389	Unused | Unused
390	SCHAN ONLY VALID ON IOMP 1 PHASE 2 (SUBMEM=1 AND SMHG=2)

SUMMARY	
Enter hardware version translator (HVTRANS) current verify and verify for IOP 3B Growth and FAST DMAC For Y. If HVTRANS is in error, enter HVTRANS change message for CS or CC.	Verify buffered data, enter copy message, verify current data, and then enter update message. If after each verify, HVTRANS is not set to Y, enter stop message and start change from beginning

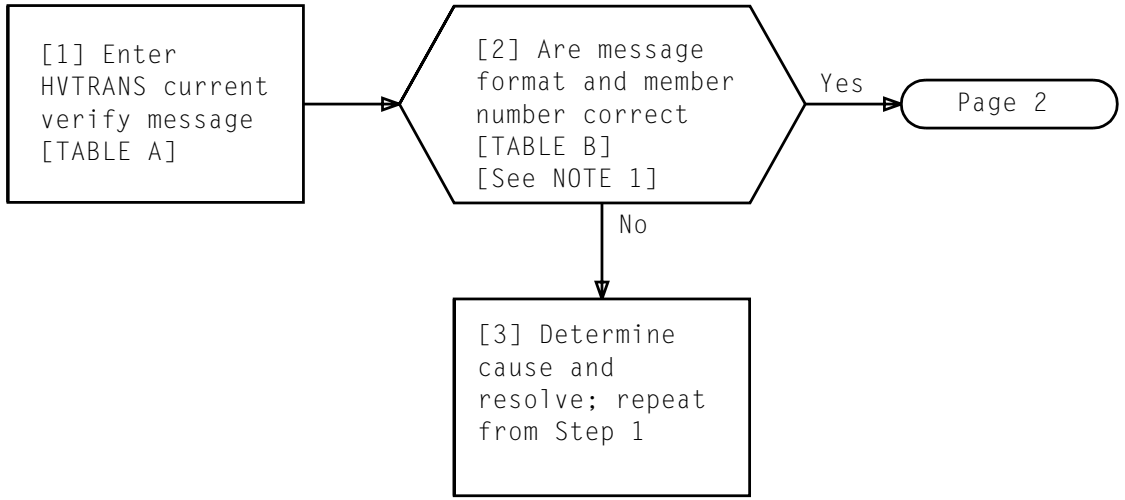


TABLE A

VER:UTMN:IOUS a,HVTRANS!

a = Member number of growth associated IOUS (0-7)

TABLE B

VER:UTMN,IOUS a,COMPLETED

TRANSLATOR ADR =
TRANSLATOR SIZE =

CURRENT DATA:
IOP 3B-GROW=Y OR N
FAST DMAC=N

a = Member number of growth associated IOUS (0-7)

NOTE 1
If 3B growth unit is already equipped IOP 3B-GROW will be set to Y

CHANGE AND VERIFY HARDWARE VERSION TRANSLATOR

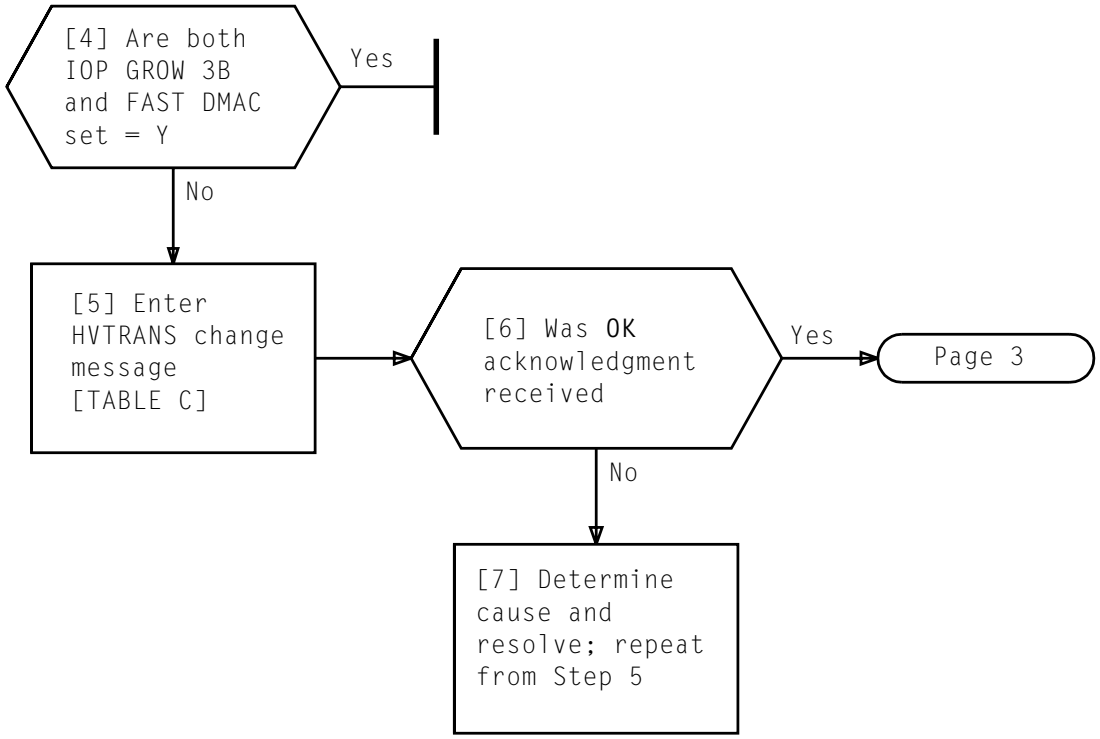


TABLE C
IN:XLBUF:IOUS a,HVTRANS (b,c)!
a = Member number of growth associated IOUS (0-7)
b = IOP 3B or DMAC
c = Y

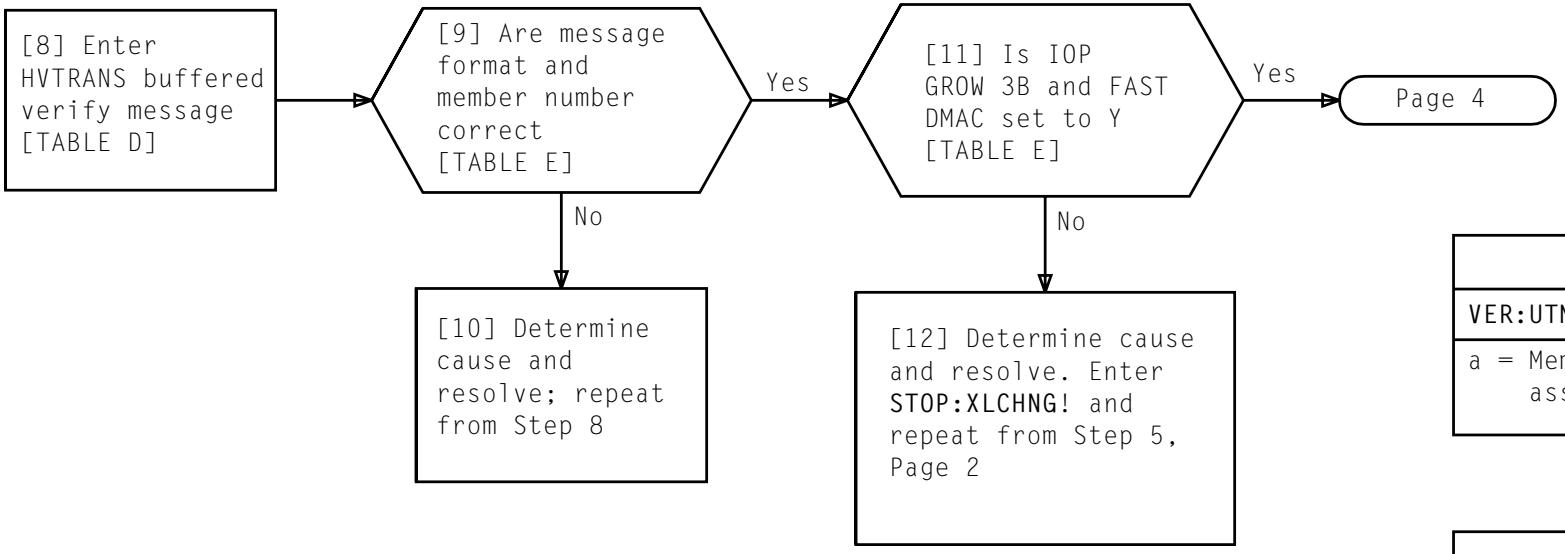


TABLE D
VER:UTMN;BUF:IOUS a,HVTRANS!
a = Member number of growth associated IOUS (0-7)

TABLE E
VER:UTMN,IOUS a COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA IOP 3B-GROW=Y FAST DMAC=Y
a = Member number of growth associated IOUS (0-7)

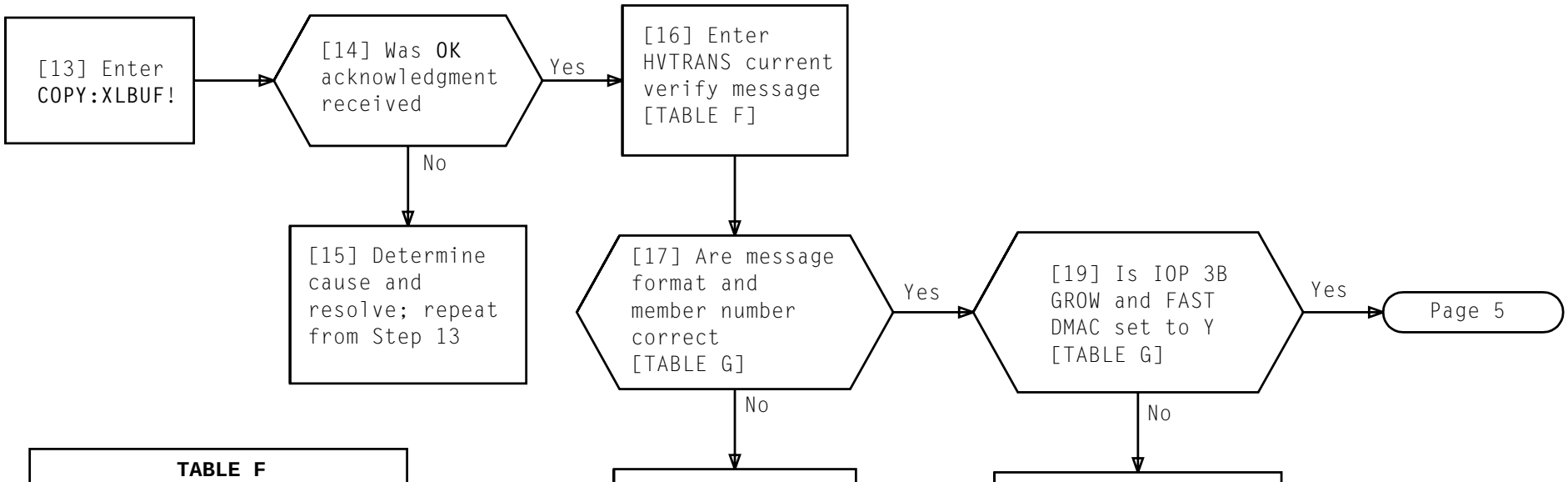


TABLE F
VER:UTMN:IOUS a,HVTRANS!
a = Member number of growth associated IOUS (0-7)

TABLE G
VER:UTMN,IOUS a COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA IOP 3B-GROW=Y FAST DMAC=Y
a = Member number of growth associated IOUS (0-7)

CHANGE AND VERIFY HARDWARE VERSION TRANSLATOR

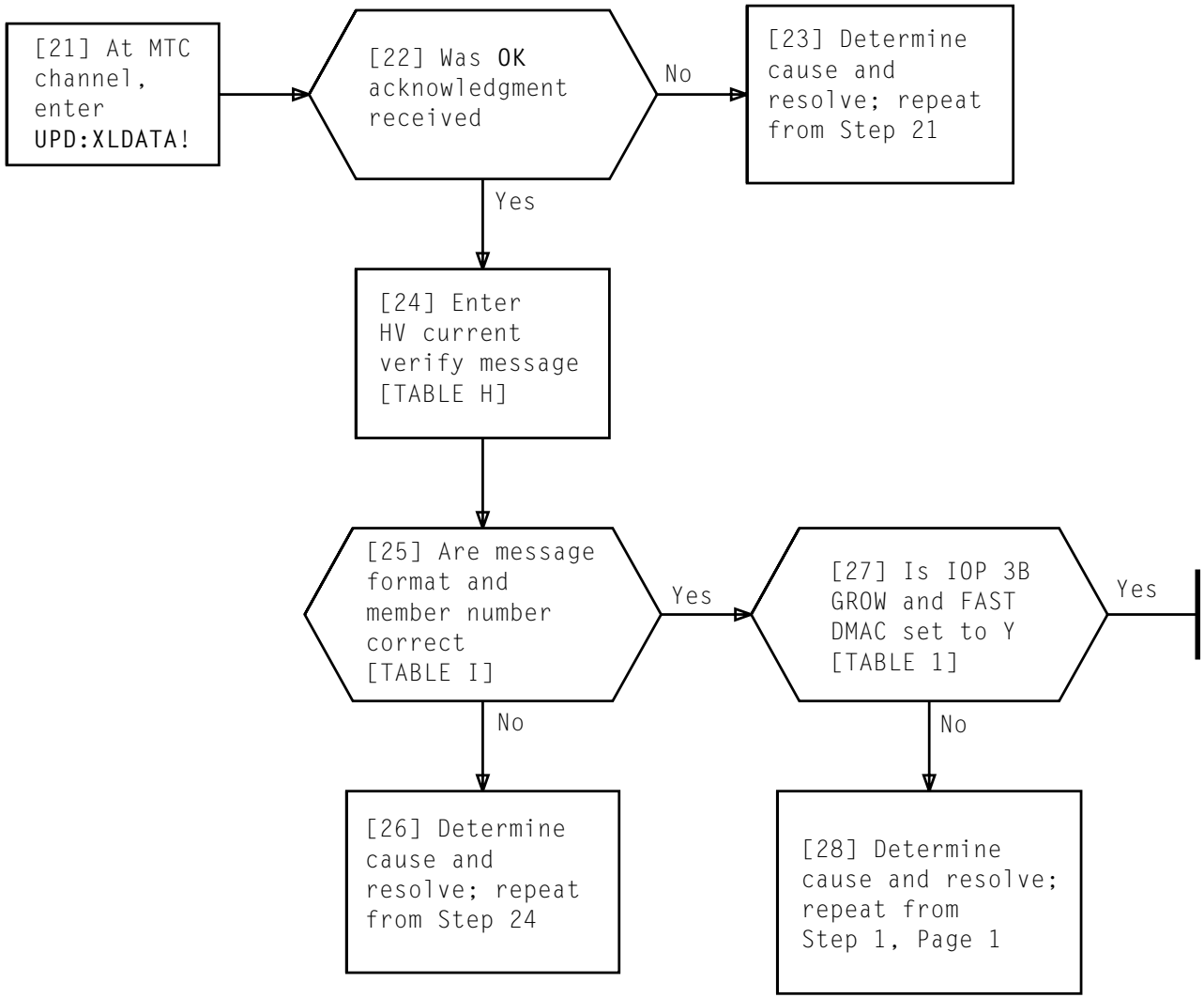
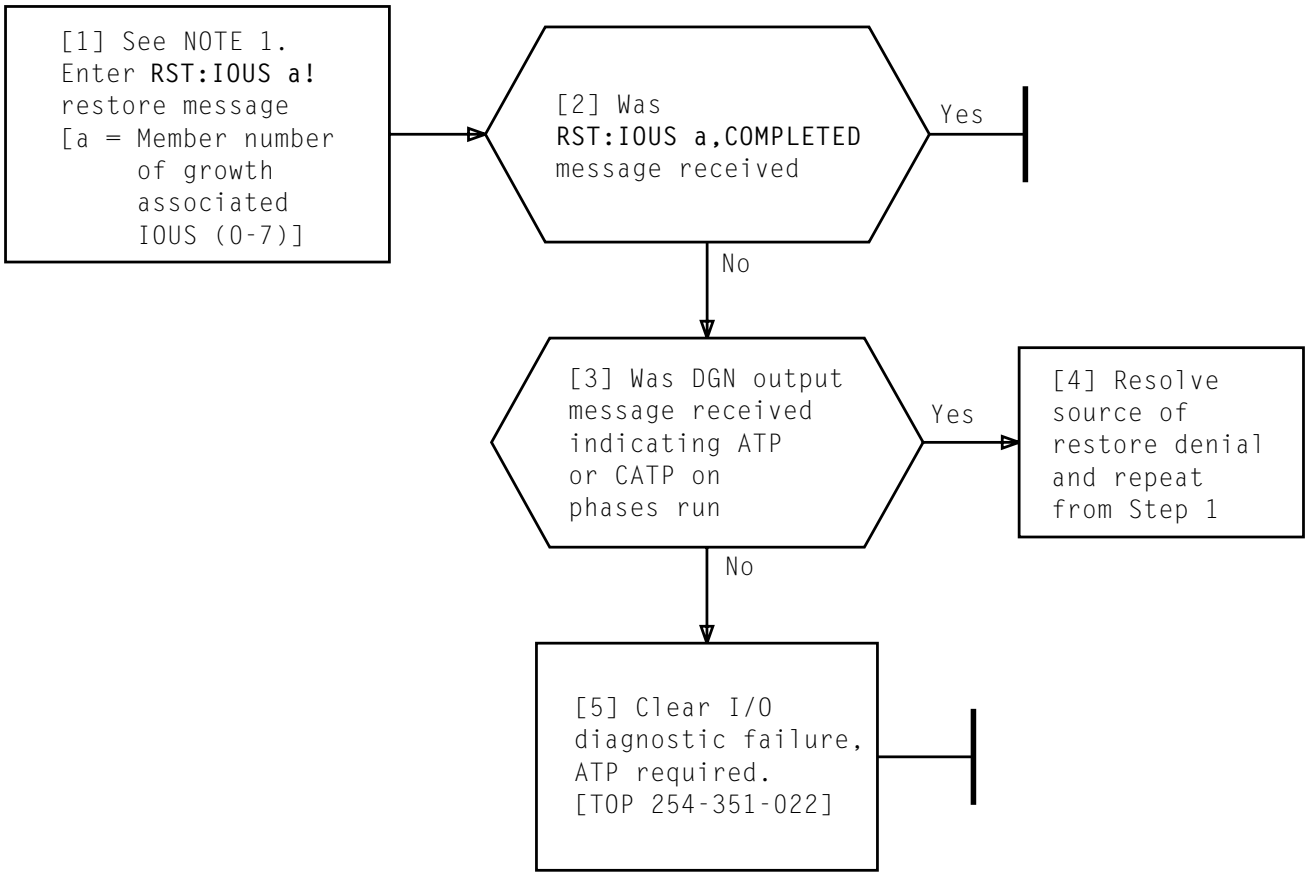


TABLE H
VER:UTMN:IOUS a,HVTRANS!
a = Member number of growth associated IOUS (0-7)

TABLE I
VER:UTMN,IOUS a COMPLETED TRANSLATOR ADR = TRANSLATOR SIZE = CURRENT DATA IOP 3B-GROW=Y FAST DMAC=Y
a = Member number of growth associated IOUS (0-7)



NOTE 1
Restore message will cause I/O diagnostic to be run

RESTORE IOUS TO SERVICE

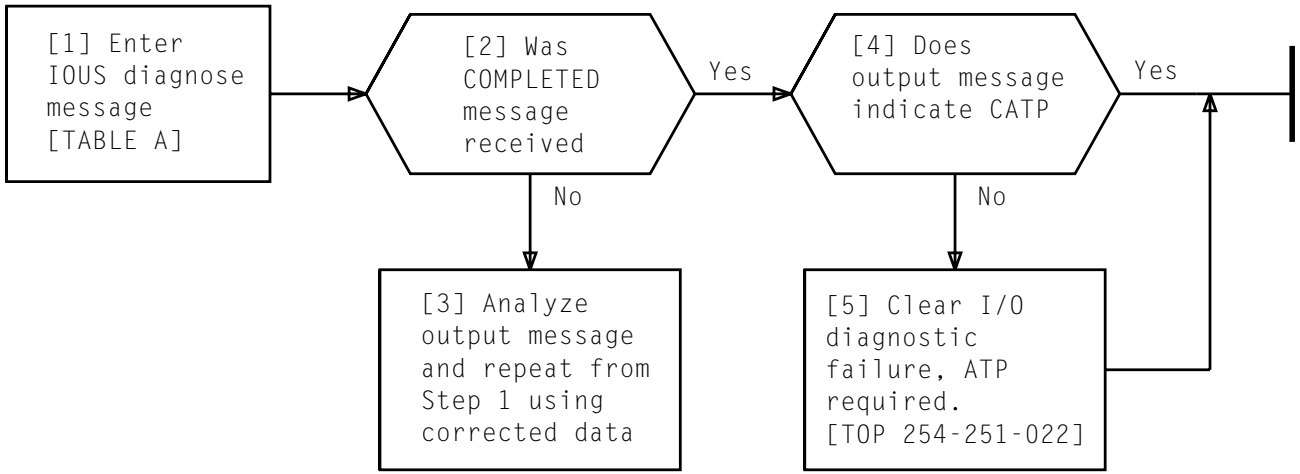


TABLE A
DGN:IOUS a, IOMP b!
a = Member number of growth associated IOUS (0-7) b = 0 or 1

DIAGNOSE GROWTH IOUS

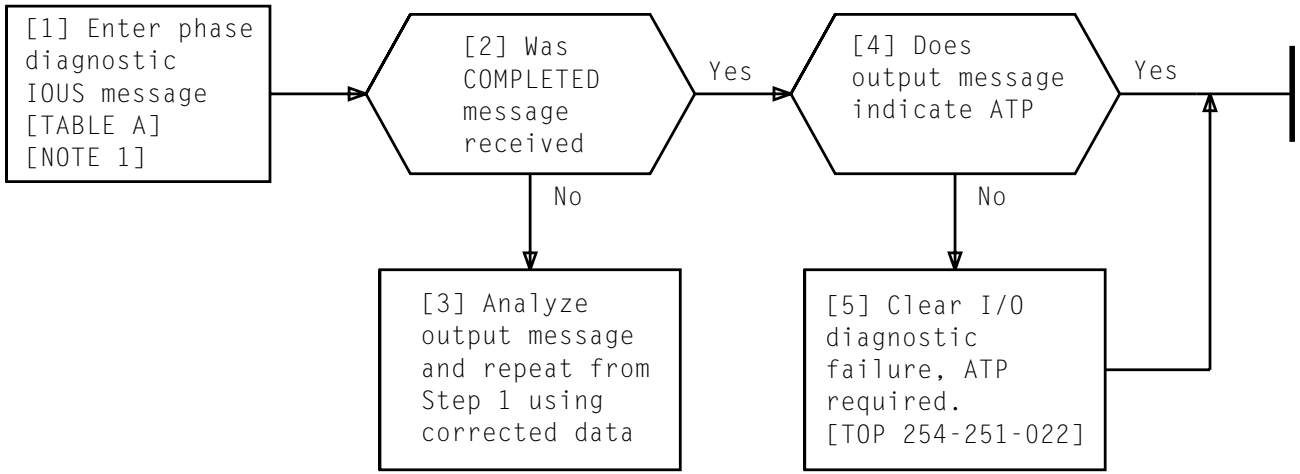


TABLE A
DGN:IOUS a,IOUC b:PH 93
a = Member number of growth associated IOUS (0-7)
b = Member number of growth associated IOUC (10,11,14, or 15)

NOTE 1

Do not press **LL** on the DSU. The diagnostic message will automatically initiate the local loop

VERIFY LOCAL LOOP FOR GROWN IOUC PORTS

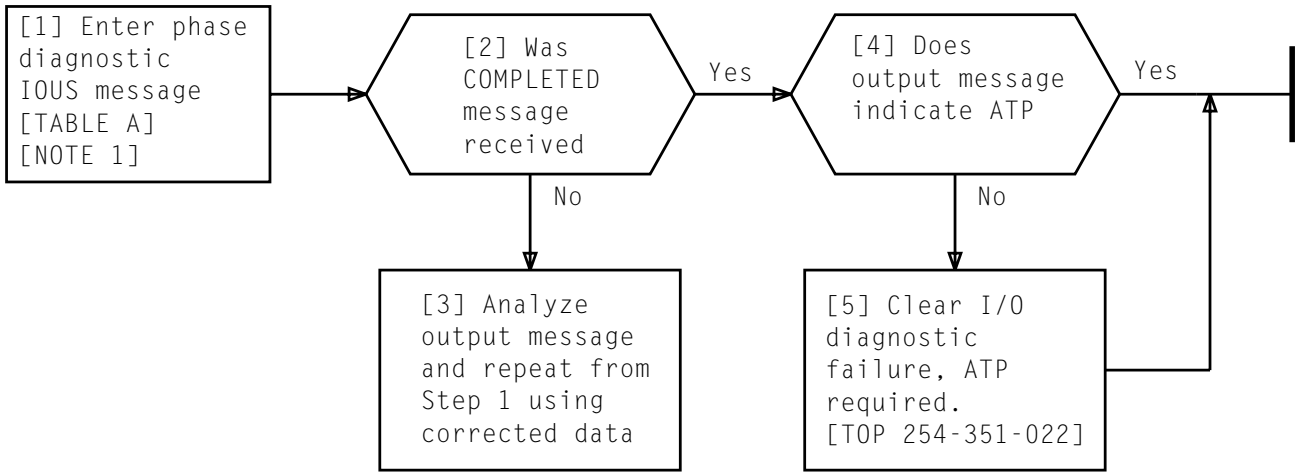


TABLE A
DGN:IOUS a,IOUC b:PH 92!
a = Member number of growth associated IOUS (0-7)
b = Member number of growth associated IOUC (10,11,14, or 15)

NOTE 1
Press the **RL** button on the local office's DSU. This will initiate a loop on the remote (far end) DSU

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VERIFY REMOTE LOOP FOR GROWN IOUC PORTS

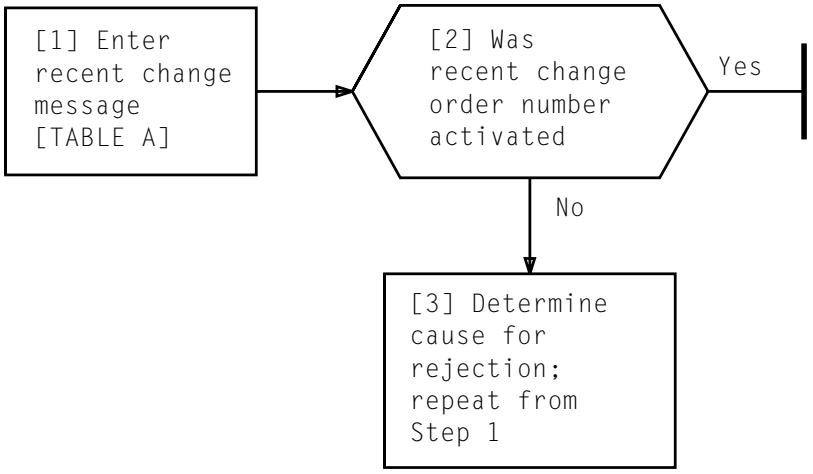


TABLE A

RC:MISC;FHT,FTA: a,b,c,d,e!

a = ASTN56LKx - identifies the link (x= 0-7)
Links are paired into the following layers:
Links 0 & 1
Links 2 & 3
Links 4 & 5
Links 6 & 7

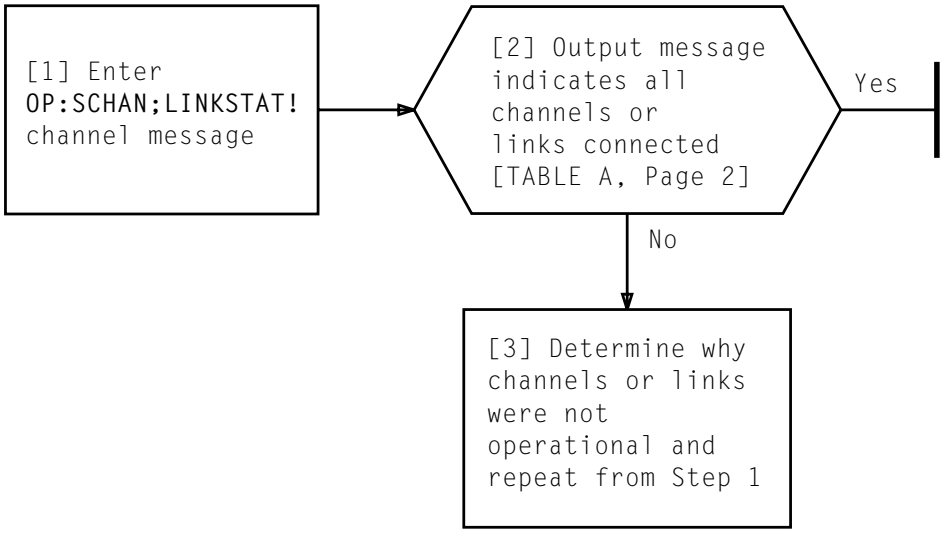
b = Assigned by office

c = Function — a (add), d (delete), and c (change) (allows only a change of the NSN). All entries in this field must be entered in lower case

d = Further identifier of action to be performed

I = individual link should be handled only
P = a link pair (layer) should be handled, assuming link layer-to-layer relationship as stated above

e = NSN of the far-end of the 56 F-Link Layer requires a six-digit field using leading zeroes



VERIFY OPERATIONAL HARDWARE STATUS ON ALL TN82 CHANNELS AND LINKS

TABLE A

OP:SCHAN;LINKSTAT

LINK	CHAN	NAME	MEMN	LINK STATE	INH	NSN	DATA
0	84	ASTN0	a,b	ccccccccc	d	e	fffffffffffffff
1	85	ASTN1	a,b	ccccccccc	d	e	fffffffffffffff
2	86	ASTN2	a,b	ccccccccc	d	e	fffffffffffffff
3	87	ASTN3	a,b	ccccccccc	d	e	fffffffffffffff
4	88	ASTN4	a,b	ccccccccc	d	e	fffffffffffffff
5	89	ASTN5	a,b	ccccccccc	d	e	fffffffffffffff
6	90	ASTN6	a,b	ccccccccc	d	e	fffffffffffffff
7	91	ASTN7	a,b	ccccccccc	d	e	fffffffffffffff

a = Hardware unit number 0-7 (member number of IOUS)
b = Hardware number 10, 11, 14 or 15 (Submember number of the growth IOUC)
c = UNEQUIPPED – Channel assigned to the link is hardware unequipped

DGN OOS – Channel assigned to the link is out of service due to hardware failure; cause of channel should be determined and the channel restored to service

MAN OOS – Channel assigned to the link has been removed from service by manual request

LINK TEST – Channel assigned to the link is in service and the link is in the test state; this state should advance to the connect state

DISCONNECT – Channel assigned to the link is in service but no communication exists with far end. Expect link to connect once the far end is restored to service

LINK RESET – Channel has experienced a protocol error and is resetting; this state should clear within thirty seconds, and the link should advance to the connected state

CONNECTED – Link is available for use

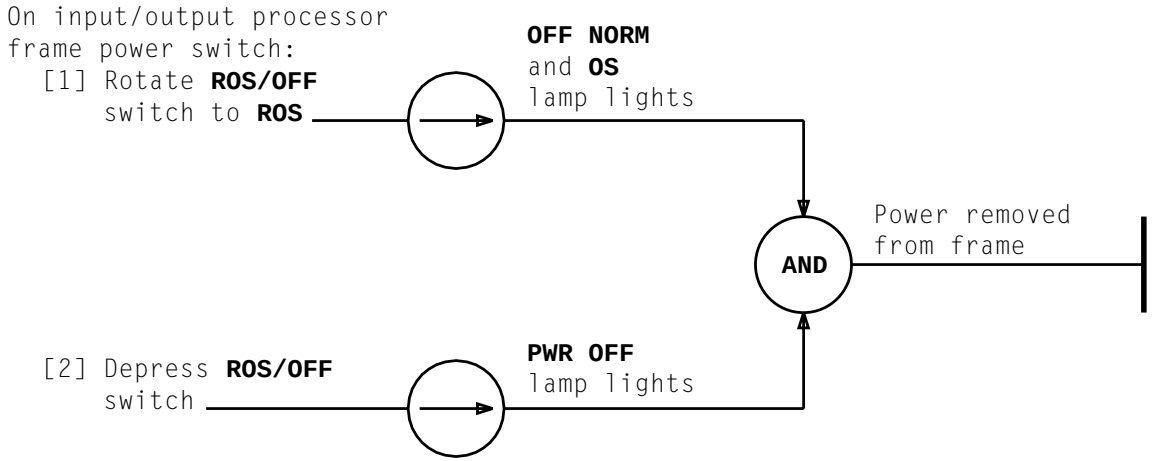
OUTPUT – Link is waiting to accept data for transmission. This is an error condition. Problem should be resolved.

INVALID – Link status is undetermined; this state should clear within one second and advance to the connected state

d = Inhibited indicator; "Y" if client is using this link is inhibited, otherwise "N"

e = If present, this is the Network Switch Number assigned as the far end of the ASTN link

f = Represnts CLLI information for the far end switch



REMOVE POWER FROM INPUT/OUTPUT PROCESSOR FRAME

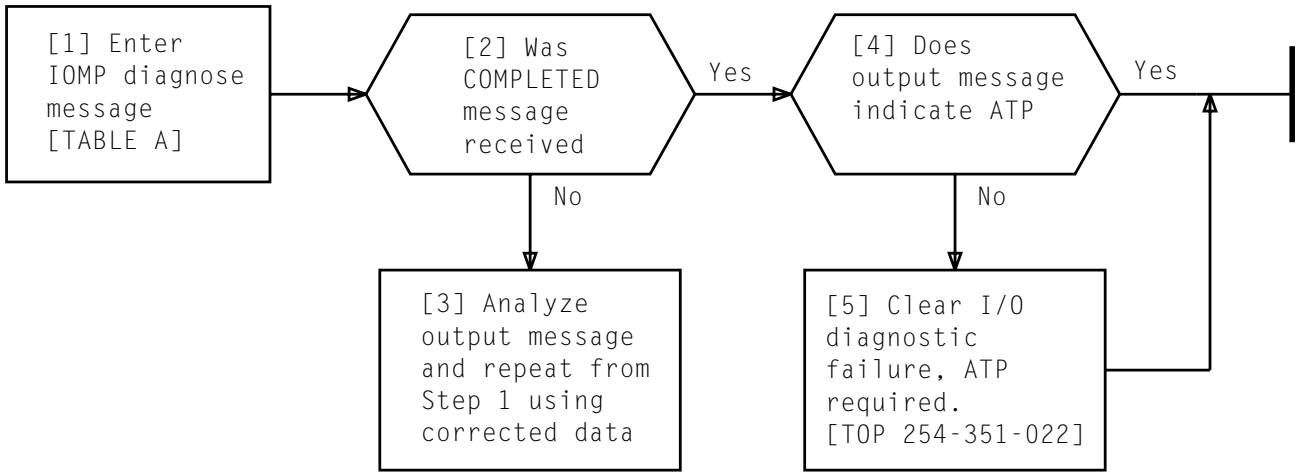


TABLE A
DGN:IOUS a,IOMP b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOMP (0 or 1)

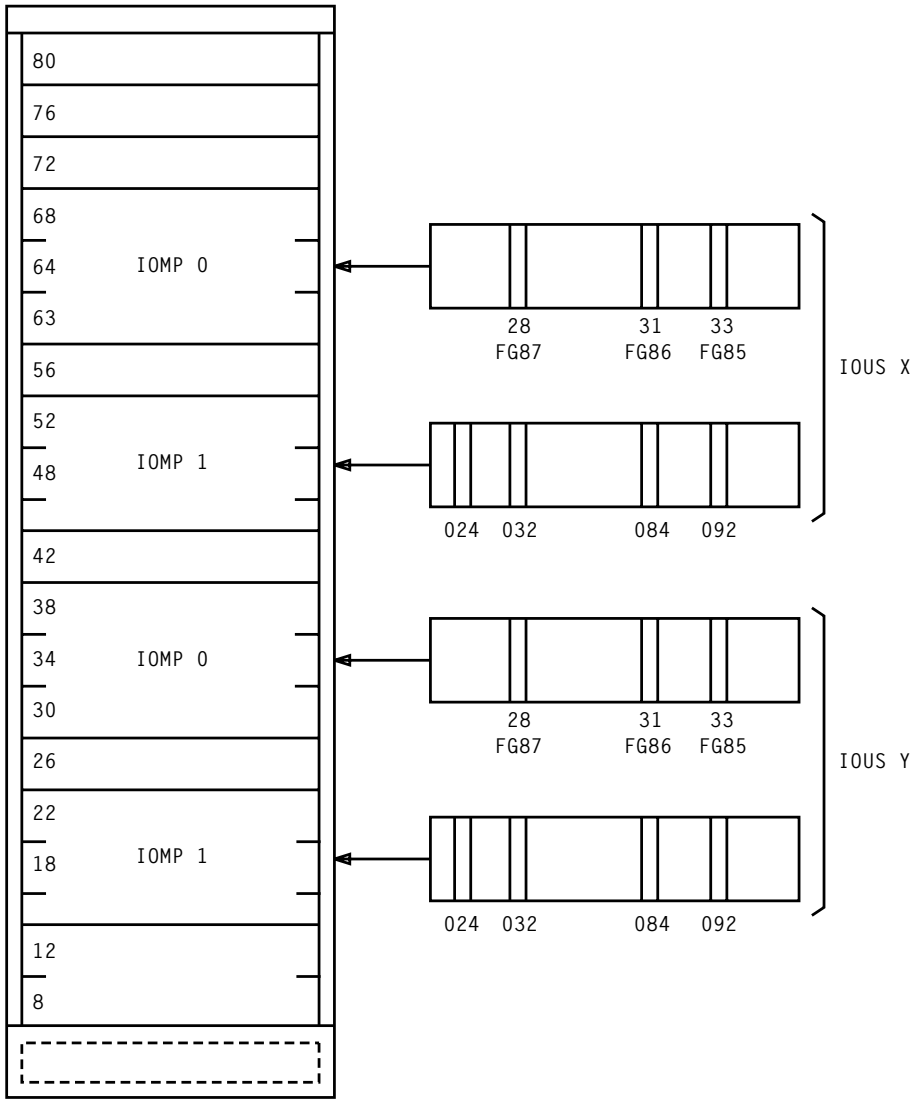


FIG. 1

TABLE A

ASTN CHANNEL NAME	ASTN CHANNEL NUMBER	IOUC MEMBER NUMBER	TN82 CIRCUIT PACK LOCATION	FG CIRCUIT PACK LOCATION	
ASTN0	84	15	024	FG85	33
ASTN1	85	15	024	FG86	31
ASTN2	86	11	084	FG87	28
ASTN3	87	11	084		
ASTN4	88	14	032		
ASTN5	89	14	032		
ASTN6	90	10	092		
ASTN7	91	10	092		

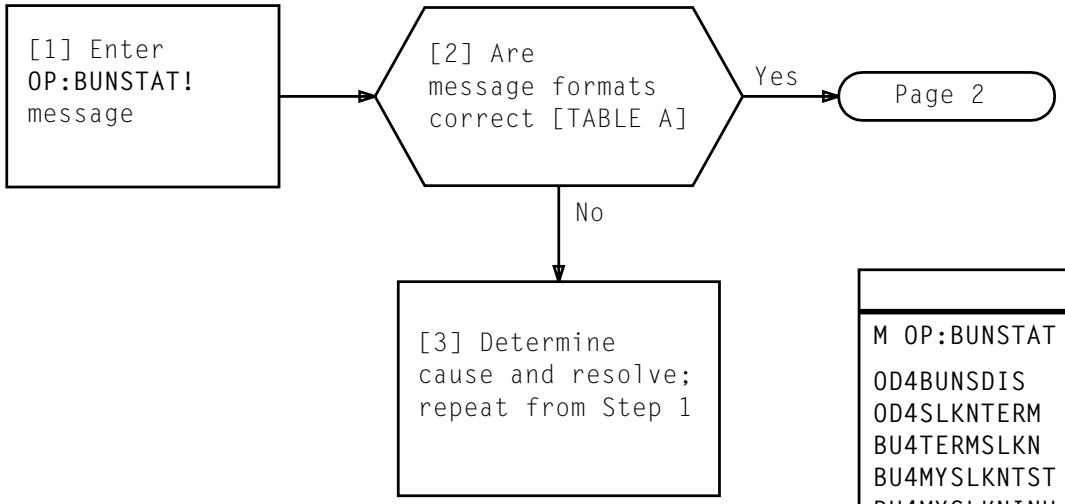
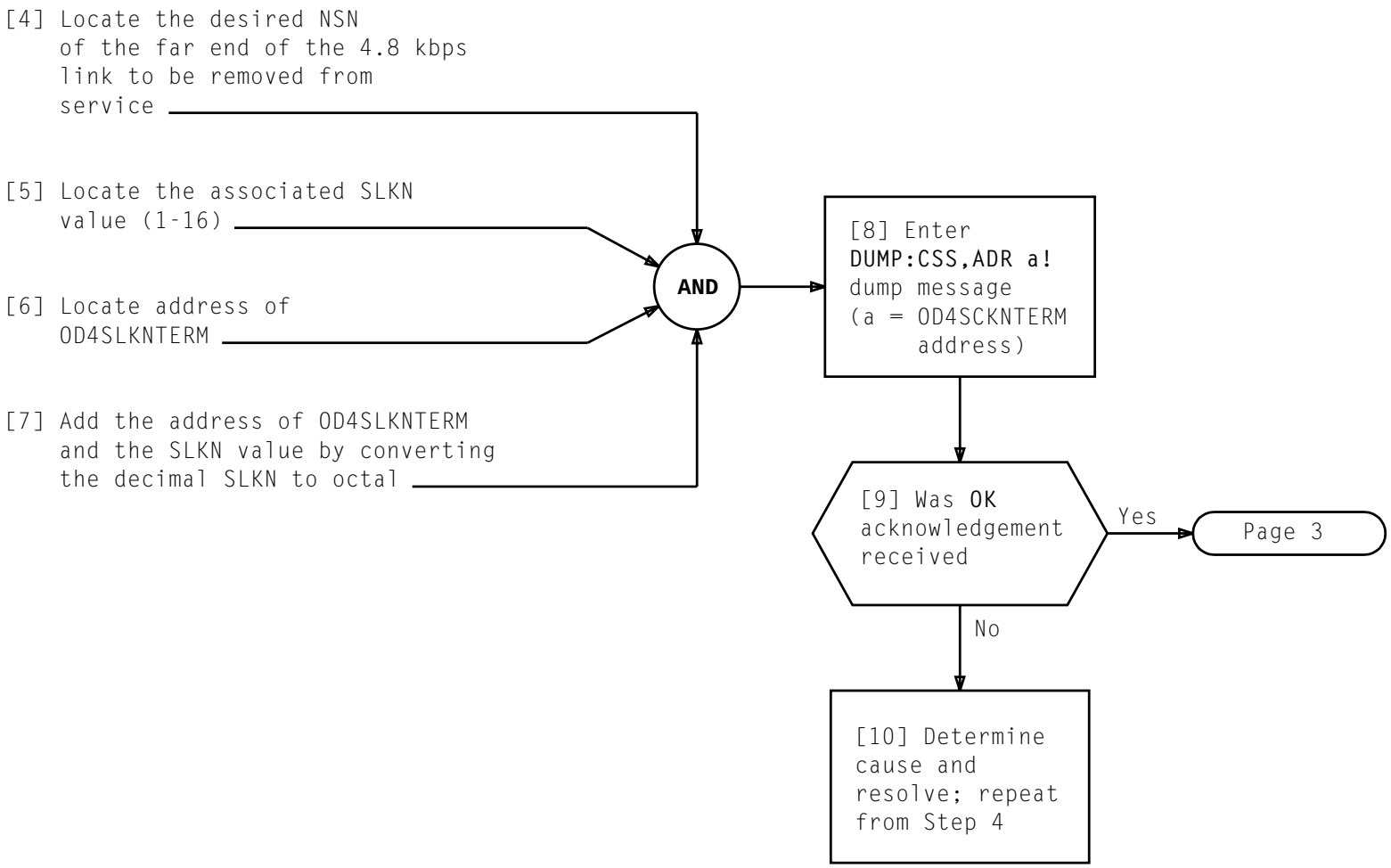
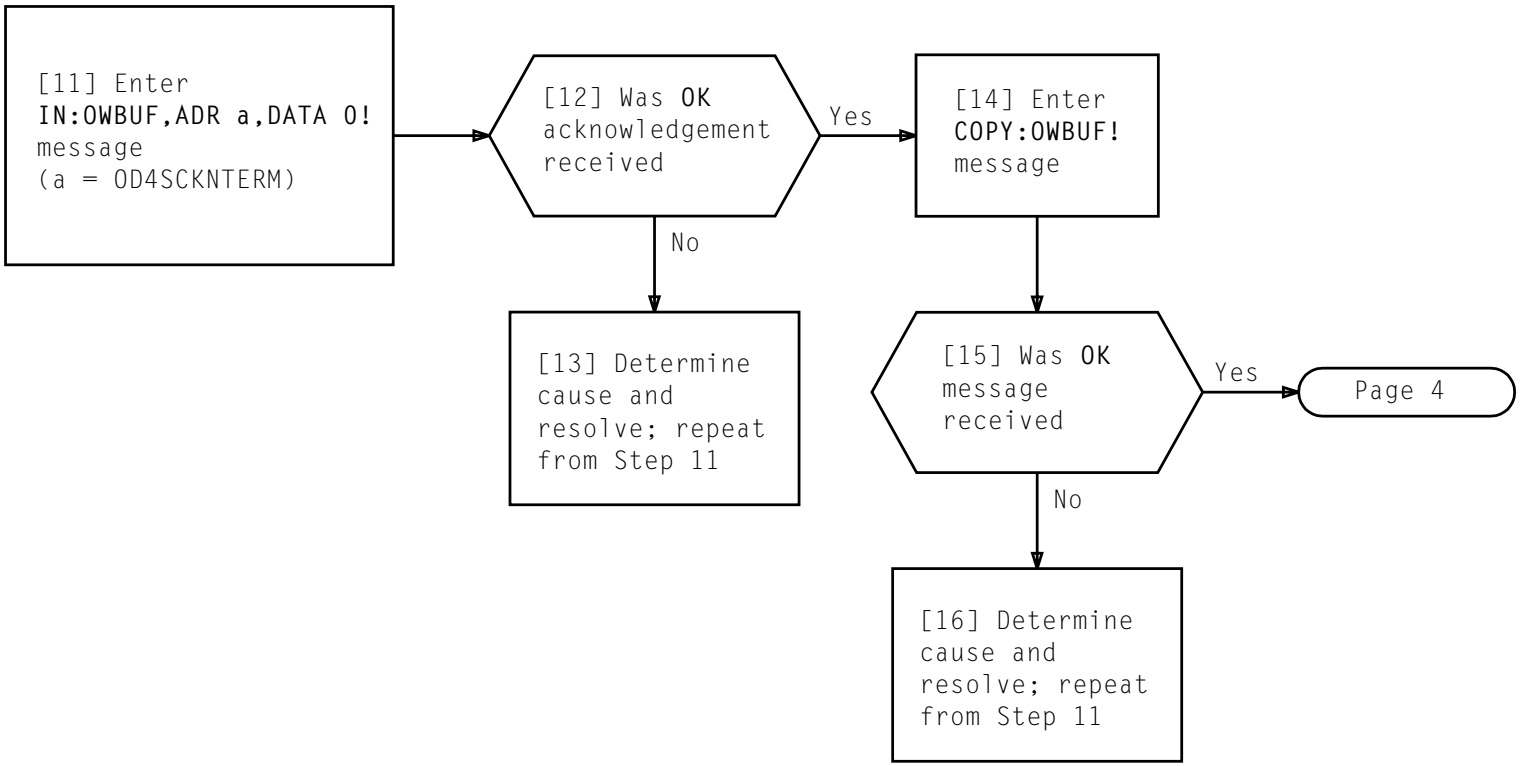
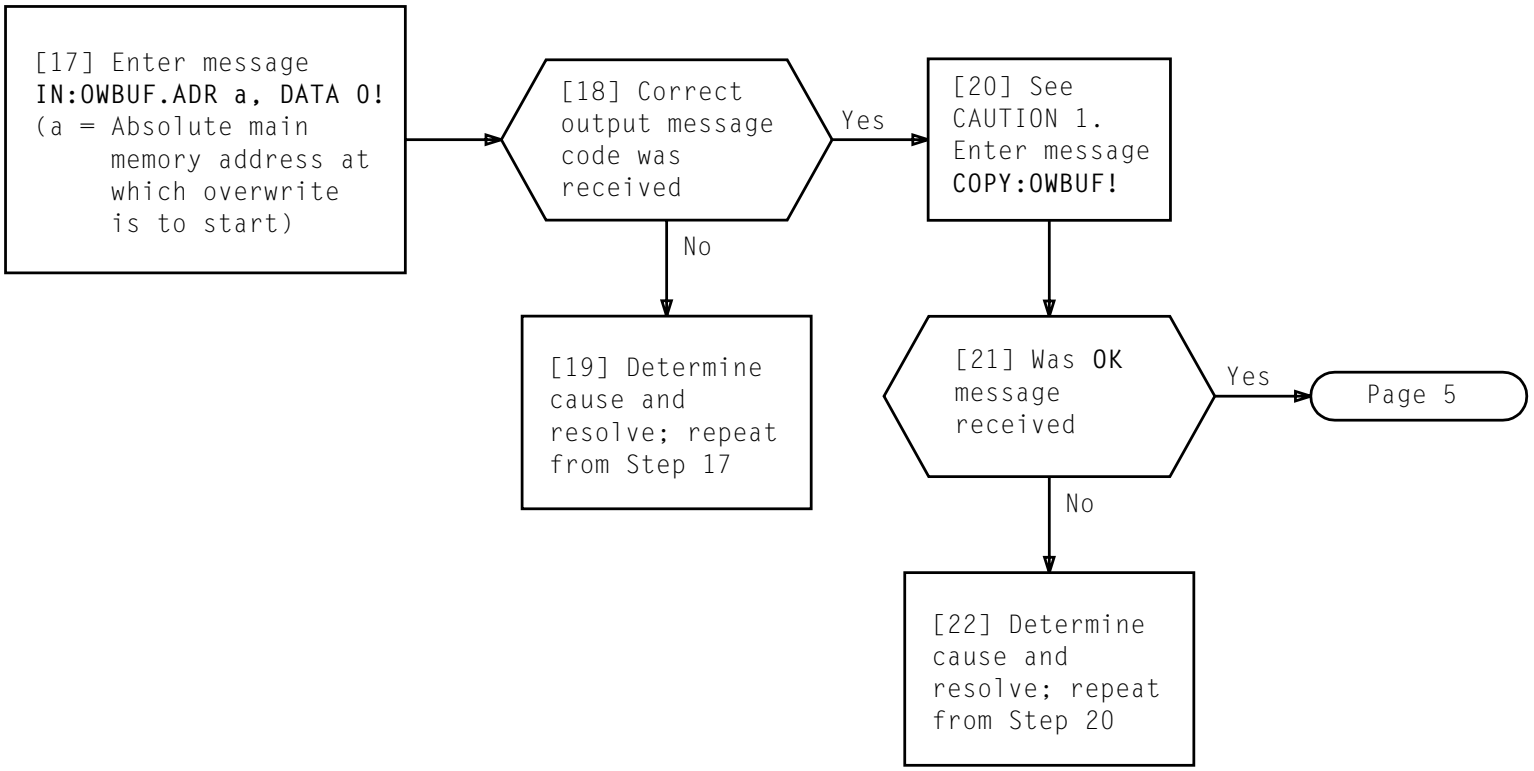


TABLE A

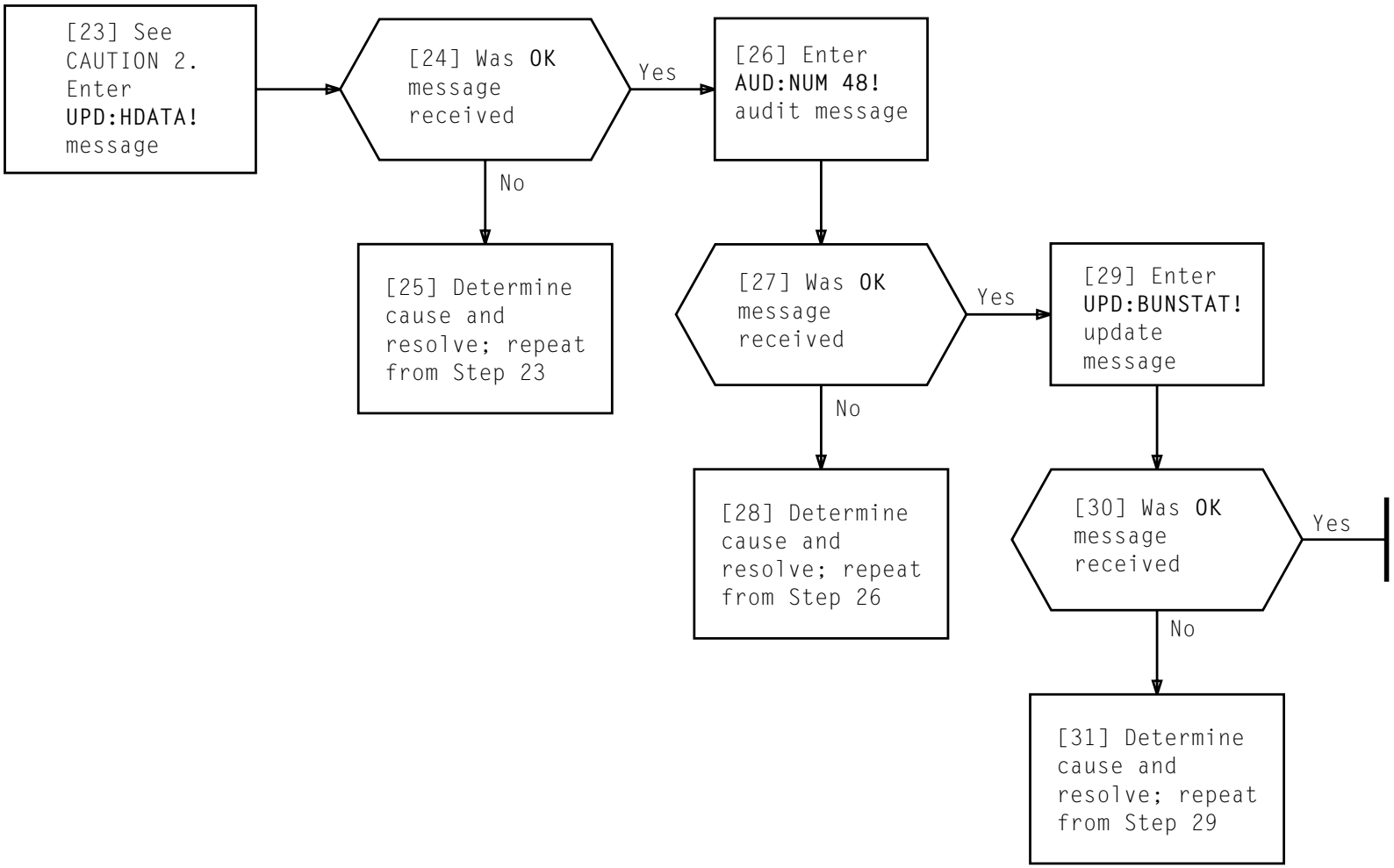
```
M OP:BUNSTAT

OD4BUNSDIS    07522567   ENABLED
OD4SLKNTERM   07400000   BU4SLKNNSN     00024006
BU4TERMSLKN   00023406   BU4NSNSLKN     00023126
BU4MYSLKNTST  00741505   BU4MYSLKNCST   00741506
BU4MYSLKNINH  01000173   BU4MYSLKNSTAT  01000616

SLKN  ID  TERM0  ID  TERM1      CLLI       TST  CST  DSIG  INH  NSN
01     1   000    1   016  NPVLILIH2MD1MD   1    0   1010   0   111
```


[4] Locate the desired NSN of the far end of the 4.8 kbps link to be removed from service
[5] Locate the associated SLKN value (1-16)
[6] Locate address of OD4SLKNTERM
[7] Add the address of OD4SLKNTERM and the SLKN value by converting the decimal SLKN to octal
AND
[8] Enter DUMP:CSS,ADR a! dump message (a = OD4SCKNTERM address)
[9] Was OK acknowledgement received
Yes
Page 3
No
[10] Determine cause and resolve; repeat from Step 4

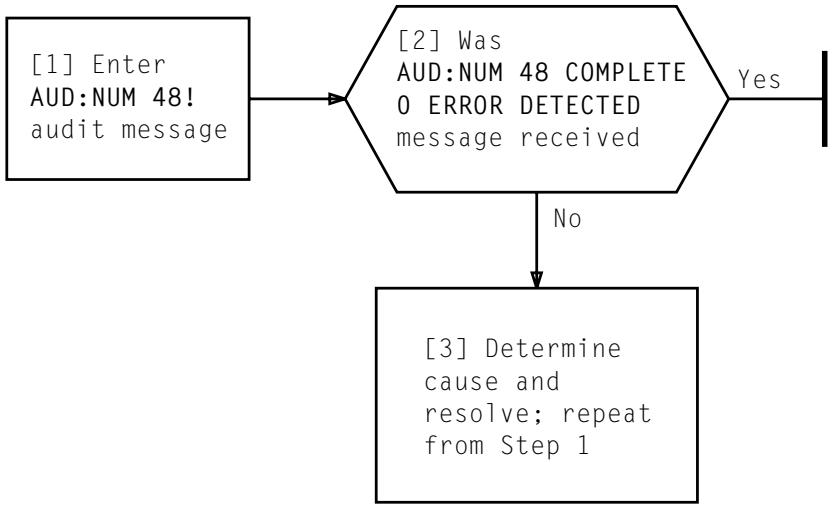




CAUTION 1
Caution should be taken when using this command so as not to permanently lose capabilities in the main memory or file store



CAUTION 2
Caution should be taken when using this command so as not to permanently lose capabilities in the main memory or file store



PERFORM AUDIT NUMBER 48

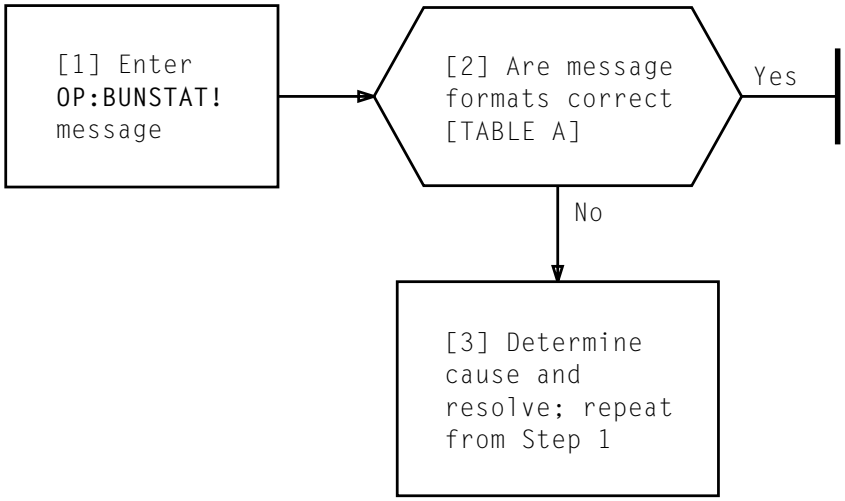


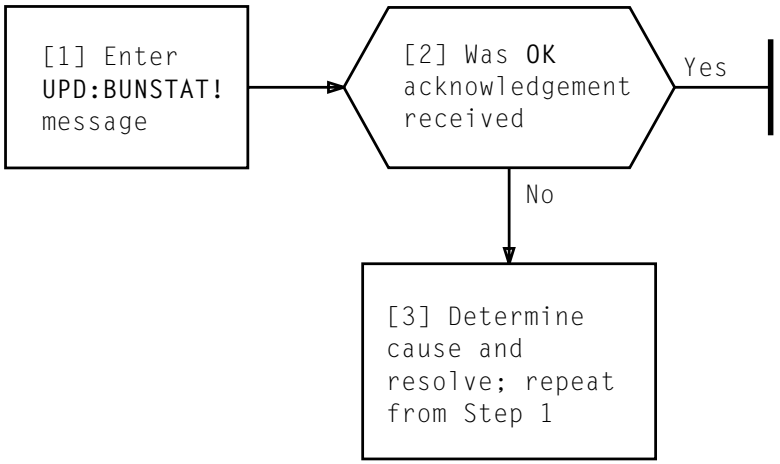
TABLE A

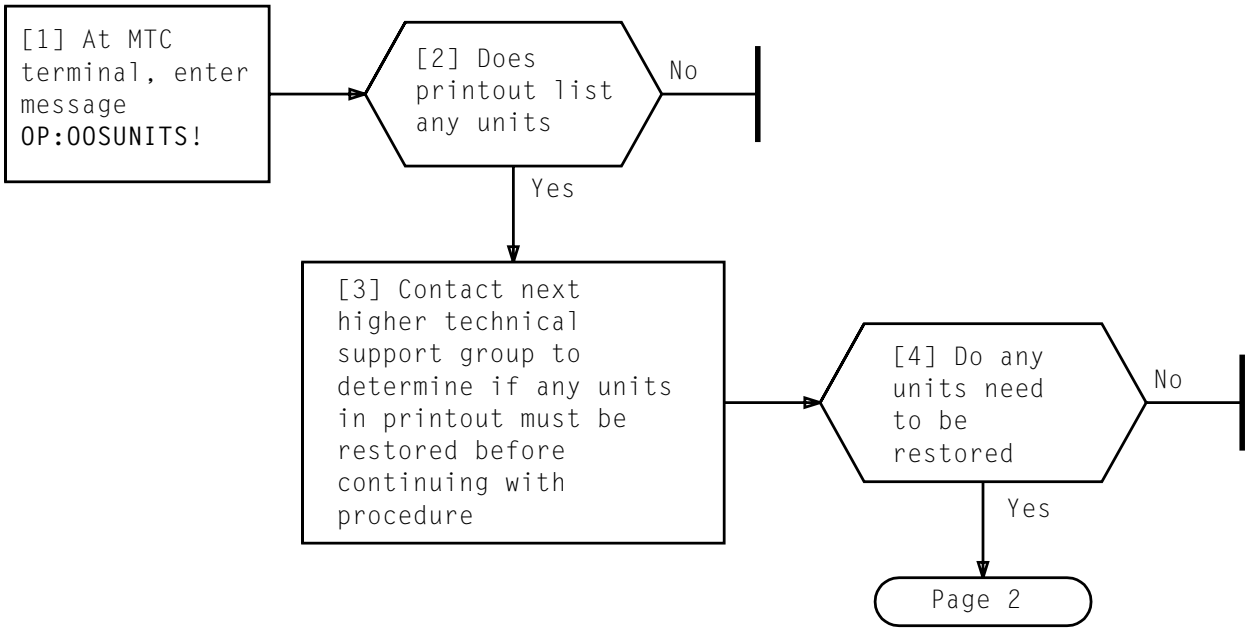
```
M OP:BUNSTAT

OD4BUNSDIS    07522567   ENABLED
OD4SLKNTERM   07400000   BU4SLKNNSN     00024006
BU4TERMSLKN   00023406   BU4NSNSLKN     00023126
BU4MYSLKNTST  00741505   BU4MYSLKNCST   00741506
BU4MYSLKNINH  01000173   BU4MYSLKNSTAT  01000616

SLKN  ID  TERM0  ID  TERM1      CLLI       TST  CST  DSIG  INH  NSN
01     1   000    1   016  NPVLILIH2MD1MD   1    0   1010   0   111
02     1   240    1   241  NPVLILIH3MD1MD   1    0   1010   0   150*
```

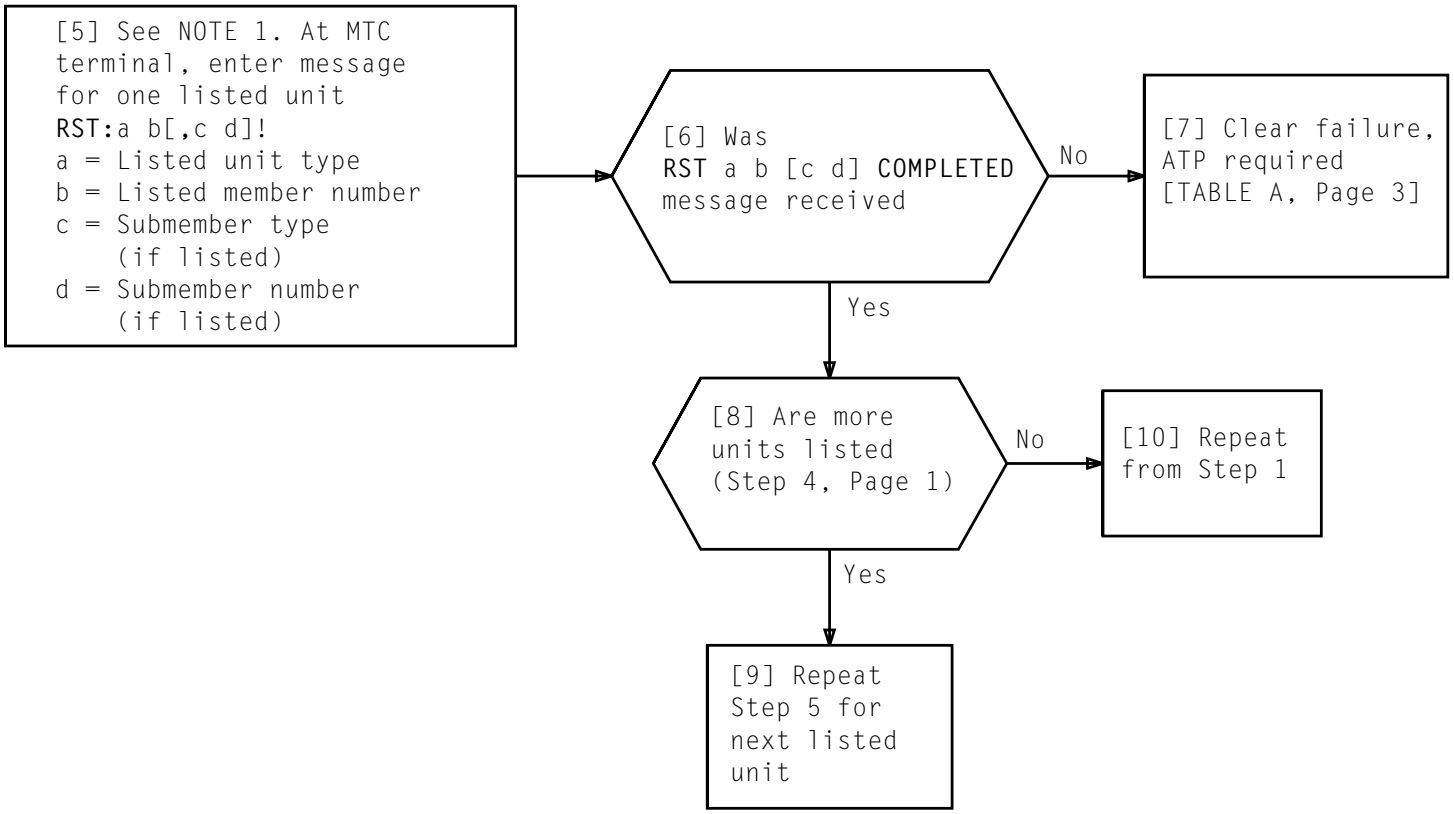
END SWITCH IDENTIFICATION

56KBS ASTN LINK

IDENTIFY ASTN LINK INFORMATION


[1] Enter
UPD:BUNSTAT!
message
[2] Was OK
acknowledgement
received
Yes
No
[3] Determine
cause and
resolve; repeat
from Step 1

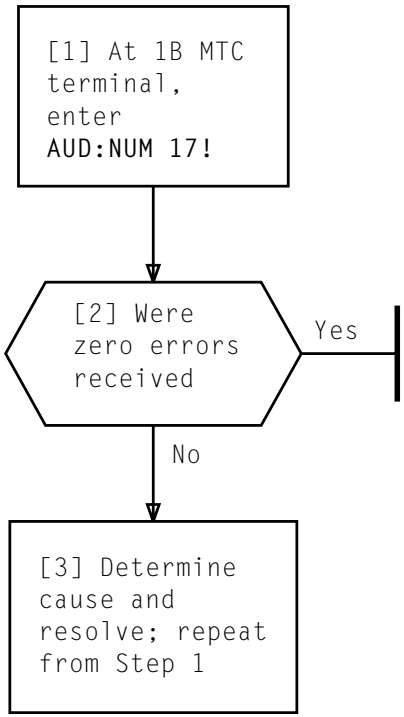

[1] At MTC terminal, enter message OP:OOSUNITS!
[2] Does printout list any units
No
Yes
[3] Contact next higher technical support group to determine if any units in printout must be restored before continuing with procedure
[4] Do any units need to be restored
No
Yes
Page 2



NOTE 1
Variables c and d are only to be used if submember is listed

TABLE A			
UNIT TYPE	**TROUBLE-CLEARING VOLUME**	**UNIT TYPE**	**TROUBLE-CLEARING VOLUME**
3B Computer Model 1	254-301-812 254-301-813	MISC A, B, C	234-151-043
		NCLK	234-151-013
3B Computer Model 2/3	254-302-812	PCDF J5A007B	234-351-025
3B21	254-303-102	PCDF J5A007C	234-351-026
API	234-351-016	PUBB	234-151-015
AUB	234-351-010	SCS	234-151-077
CNI	234-151-120	SP1	234-151-031
DIF	234-151-055	SP2	234-151-032
DT	234-151-045	TGR	234-151-033
EST	234-151-050	TMS	234-151-011
IO J5A006A	234-351-020	TSI	234-151-012
IO J5A006C	234-351-021	VIF	234-151-025
IO J5A006D	234-351-022	XTSI	234-351-011AC
MFS	234-151-041		

ENSURE ALL UNITS ARE IN-SERVICE



VERIFY INPUT/OUTPUT FRAME IS FREE OF ERRORS

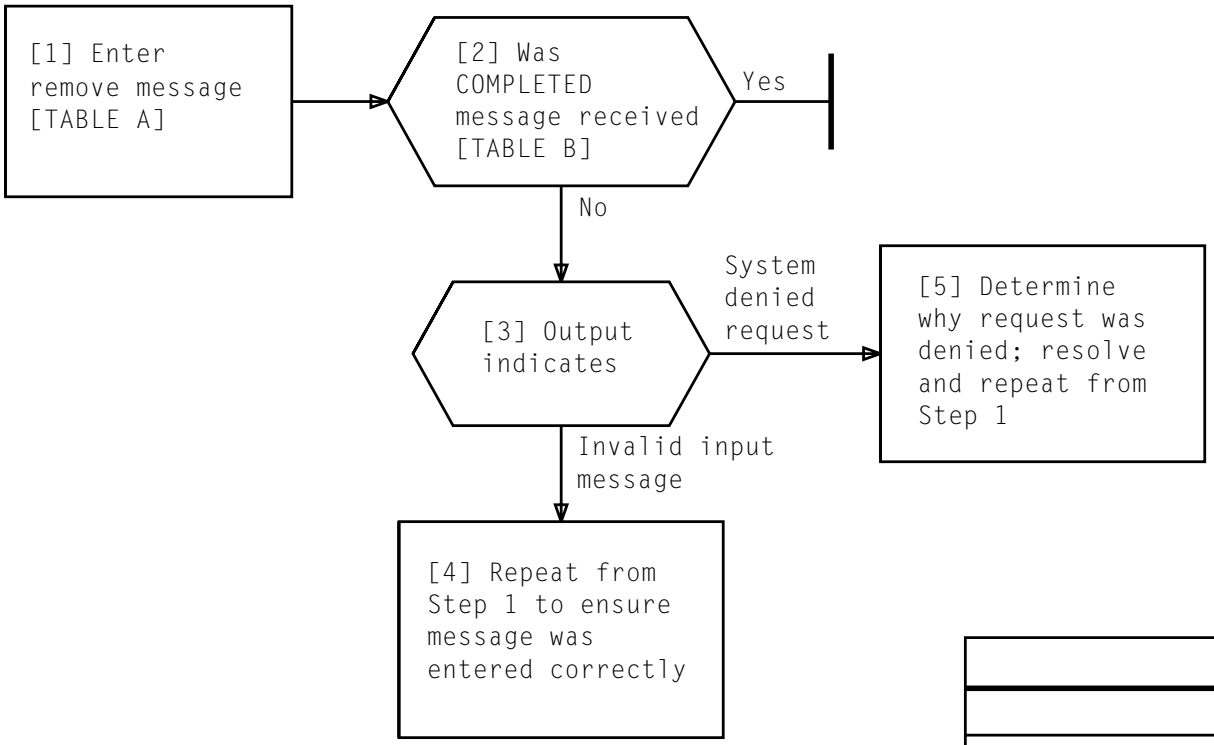


TABLE A
RMV:IOUS a!
a = Member number of growth associated unit type (0-7)

TABLE B
RMV:IOUS a COMPLETED
a = Member number of growth associated unit type (0-7)

REMOVE IOUS FROM SERVICE

[1] See TABLES A and B and Figure 1. Label each DSU and **TN82B** circuit pack with the appropriate F-link name, ASTN link number, ASTN channel (CH) number, and the IOUS and IOUC the DSU(s) are connected to

TABLE A

TN82B CIRCUIT PACK PC DESIGNATION, IOUC, AND ASTN CHANNELS (IOMP a, IOUS x)				TN82B CIRCUIT PACK LOCATION	DIGITAL FACILITY ACCESS DSU LOCATION (FRONT VIEW)	
TN82B PC DESG.	TN82B IOUC MEM NO.	ASTN CHANNEL NO.	ASTN LINK NO.		DFA 0	DFA 1
PC22	10	90	6	50/20 – 092	–	2
PC23	11	86	2	50/20 – 084	–	1
PC32	14	88	4	50/20 – 032	2	–
PC33	15	84	0	50/20 – 024	1	–

TABLE B

TN82B CIRCUIT PACK PC DESIGNATION, IOUC, AND ASTN CHANNELS (IOMP a, IOUS x)				TN82B CIRCUIT PACK LOCATION	DIGITAL FACILITY ACCESS DSU LOCATION (FRONT VIEW)	
TN82B PC DESG.	TN82B IOUC MEM NO.	ASTN CHANNEL NO.	ASTN LINK NO.		DFA 0	DFA 1
PC22	10	91	7	50/20 – 092	10	–
PC23	11	87	3	50/20 – 084	9	–
PC32	14	89	5	50/20 – 032	–	10
PC33	15	85	1	50/20 – 024	–	9

LABEL TN82B CIRCUIT PACKS AND DSU(s)

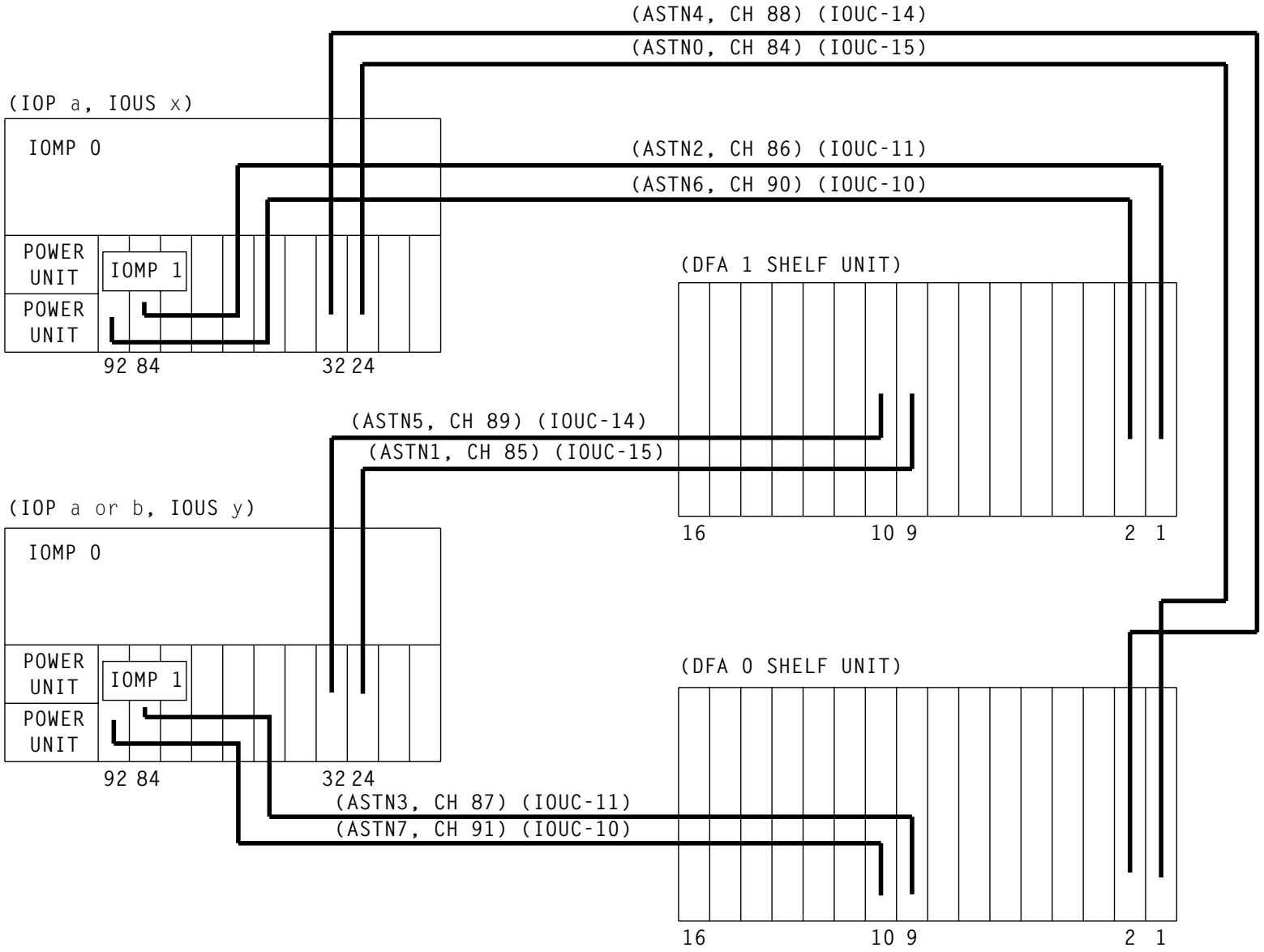


FIG. 1 – ASTN Channel Connections Assignments From IOMP To DFA (Rear View)

LABEL TN82B CIRCUIT PACKS AND DSU(s)

SUMMARY

Using verify input message, verify that channel equipage (CE) and/or port equipage (PRTE) is UNEQ. If equipage is in error and supervisor determines change is required, change CE and/or PRTE to UNEQ

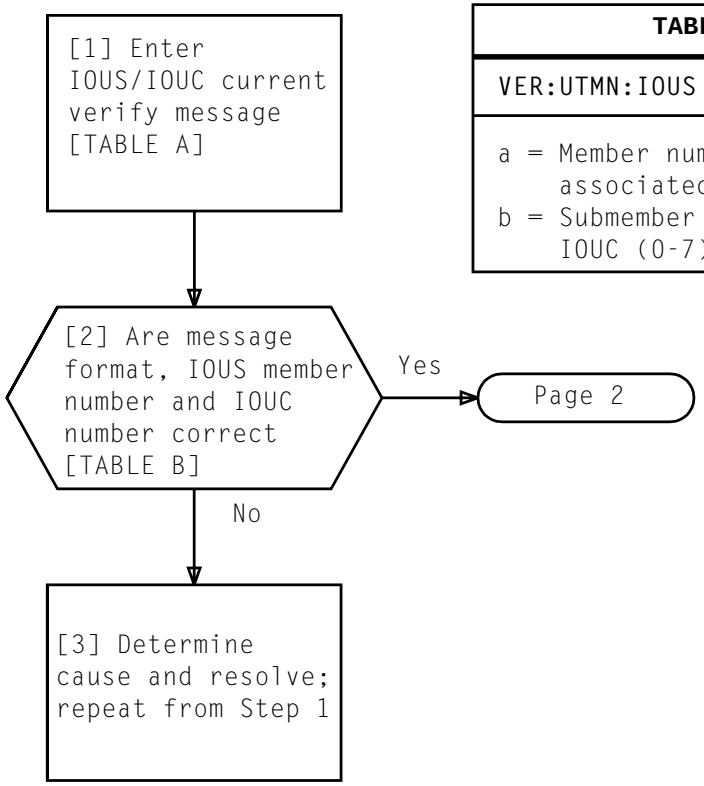


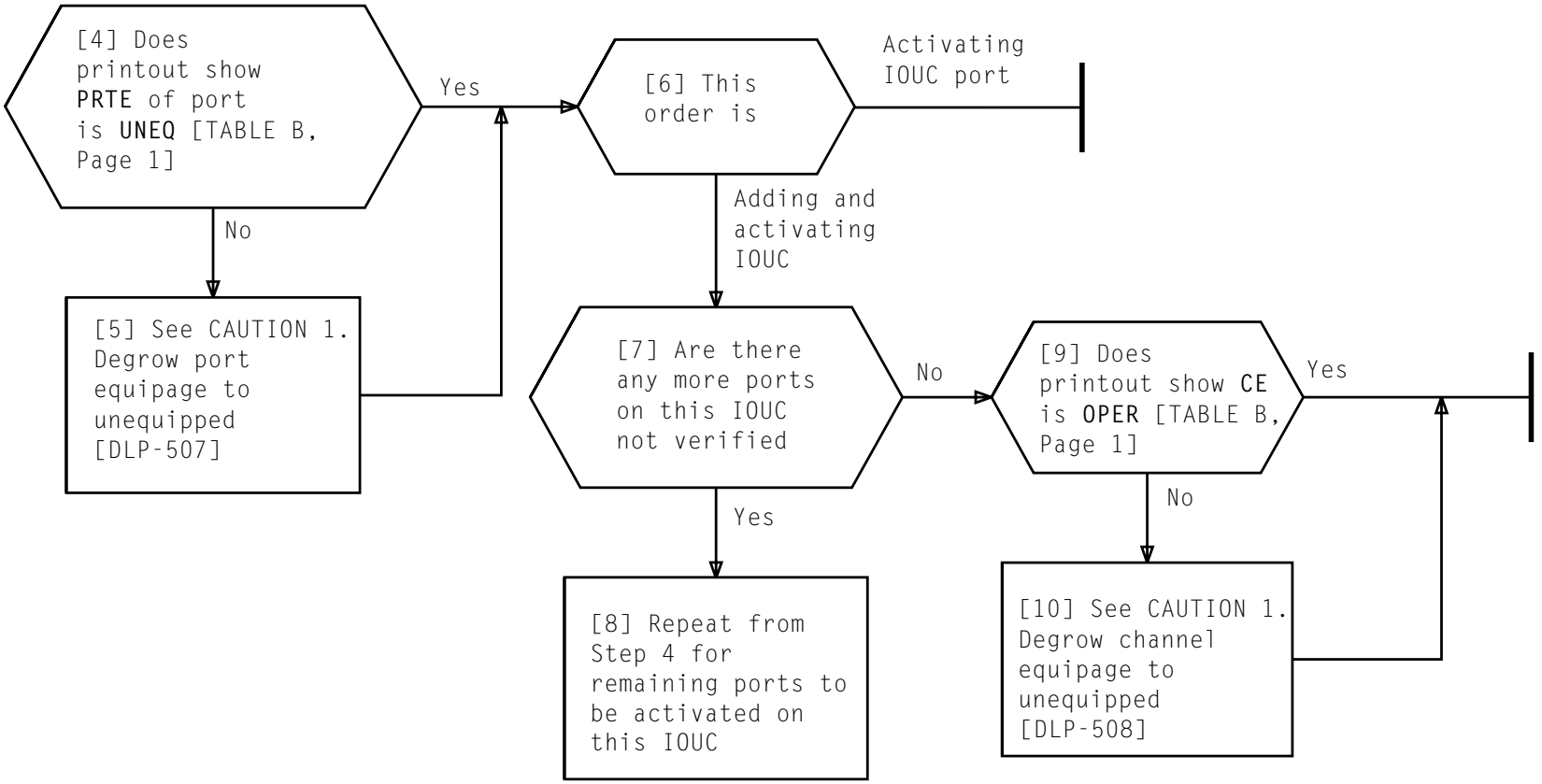
TABLE A

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7)

TABLE B

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: CE=OPER CHNAME=SCC1 . . . . . . PORT 0,OPER . . . . PORT 1,PRTE=UNEQ . . PORT 2,PRTE=UNEQ . .	a = Member number b = Submember number

VERIFY IOUC CHANNEL AND/OR PORT EQUIPAGE



CAUTION 1

Depending on local procedures supervisory or TELCO engineering approval must be obtained prior to performing any data changes

VERIFY IOUC CHANNEL AND/OR PORT EQUIPAGE

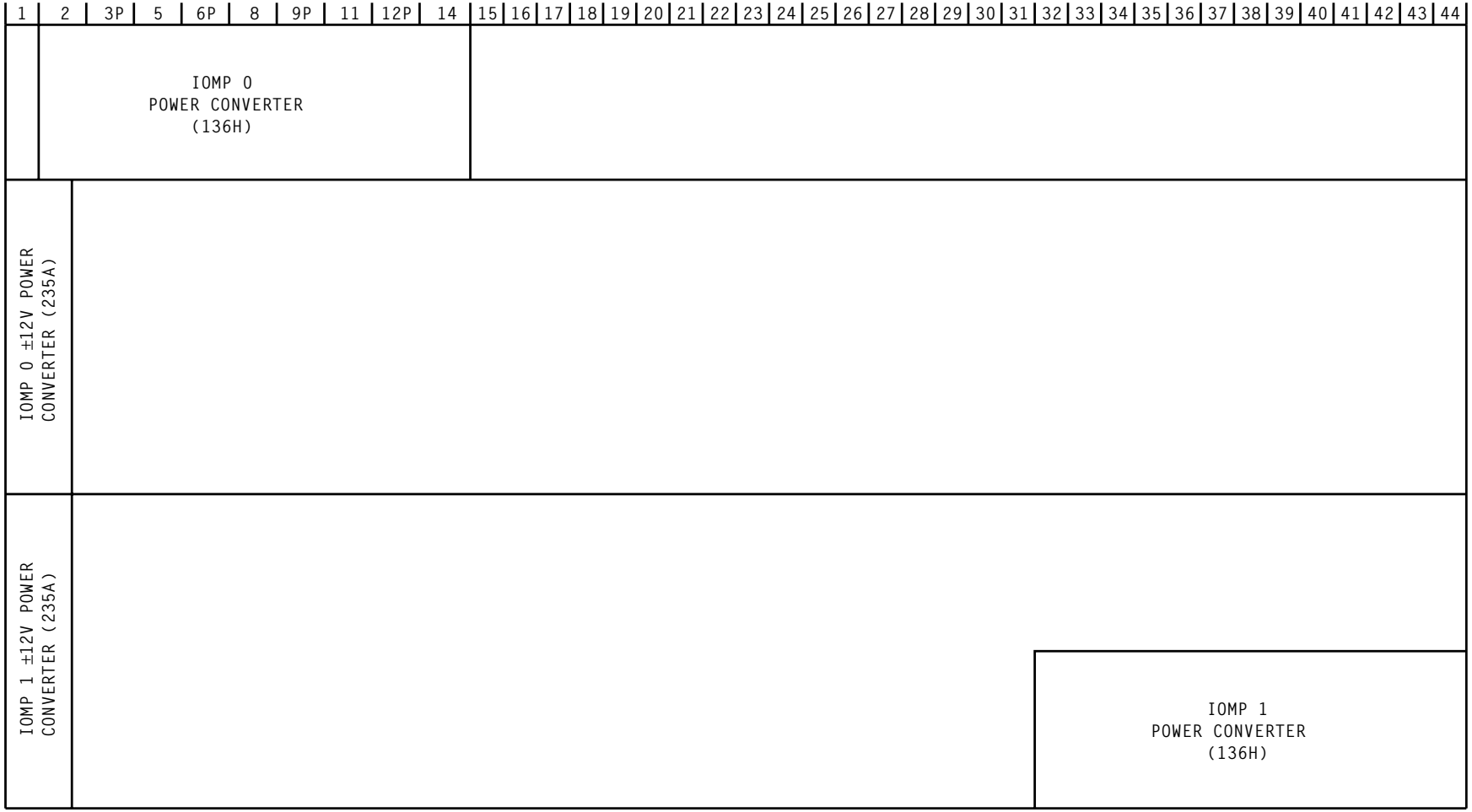
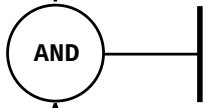


FIG. 1

[1] Turn 136H power supply switch to **OFF** for growth associated IOMP [FIG. 1]



[2] Turn 235A power supply switch to **OFF** for growth associated IOMP [FIG. 1]

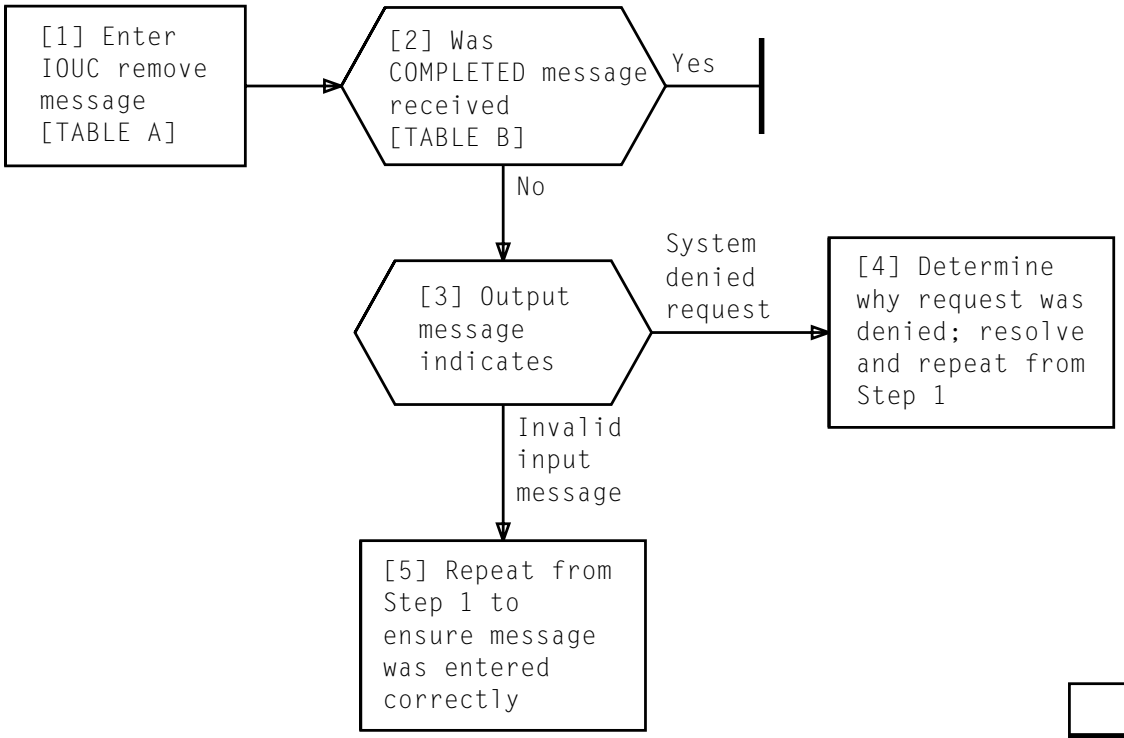


TABLE A
RMV:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7)

TABLE B
RMV:IOUS a,IOUC b COMPLETED
a = Member number (0-7) b = Submember number (0-7)

REMOVE IOUC FROM SERVICE

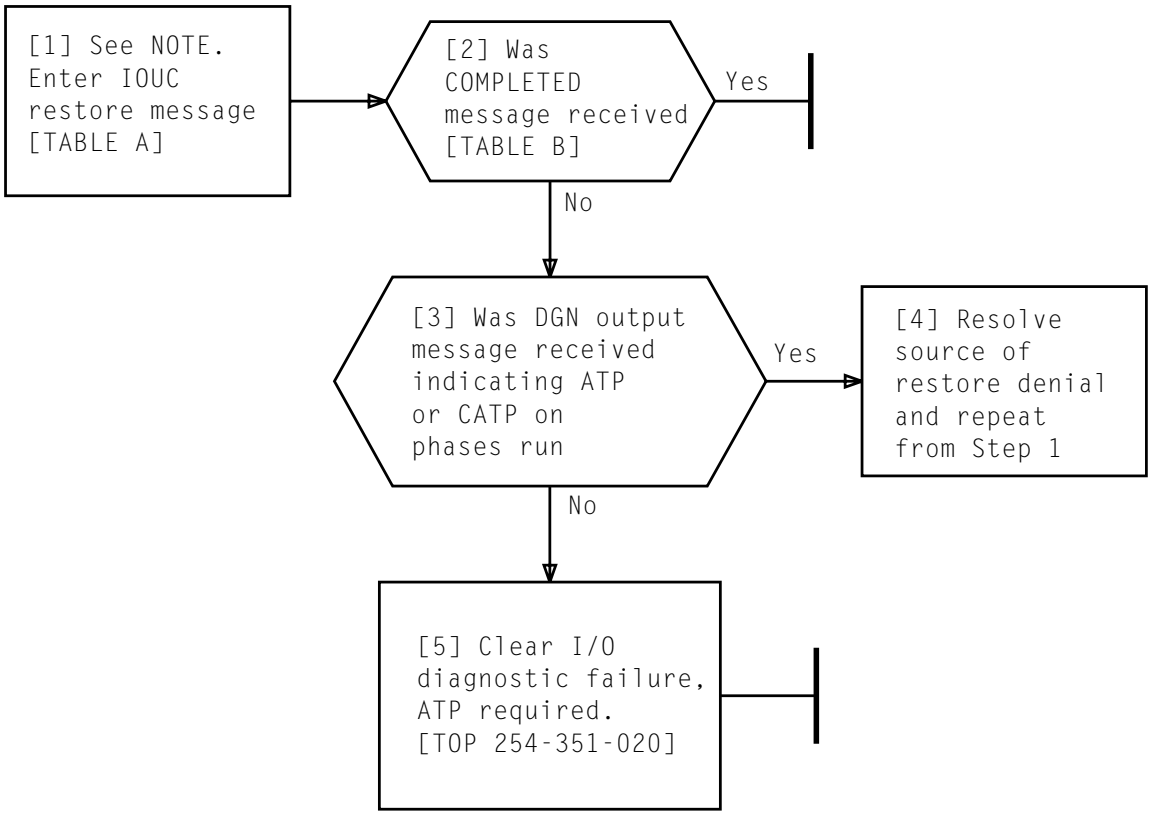


TABLE A
RST:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7)

TABLE B
RST:IOUS a,IOUC b COMPLETED
a = Member number (0-7) b = Submember number (0-7)

NOTE
Restore message will cause I/O diagnostic to be run

RESTORE IOUC TO SERVICE

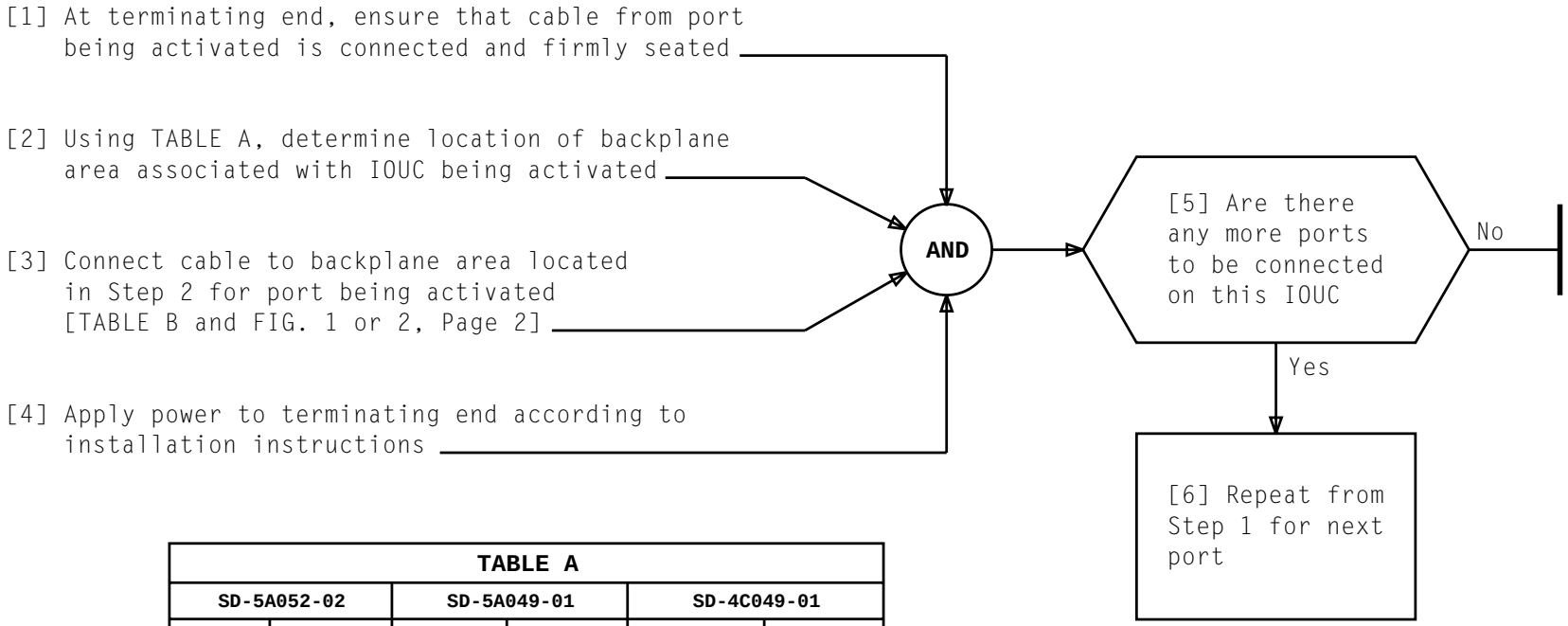


TABLE A

SD-5A052-02		SD-5A049-01		SD-4C049-01	
CHANNEL	LOCATION	CHANNEL	LOCATION	CHANNEL	LOCATION
A00	62-14	A10	54-14	PC-20A	50-108
A01	62-12P	A11	54-12P	PC-21A	50-100
A02	62-11	A12	54-11	PC-22A	50-092
A03	62-09P	A13	54-09P	PC-23A	50-084
A04	62-08	A14	54-08	PC-30A	50-048
A05	62-06P	A15	54-06P	PC-31A	50-040
A06	62-05	A16	54-05	PC-32A	50-032
A07	62-03P	A17	54-03P	PC-33A	50-024
B00	32-14	B10	24-14	PC-20B	20-108
B01	32-12P	B11	24-12P	PC-21B	20-100
B02	32-11	B12	24-11	PC-22B	20-092
B03	32-09P	B13	24-09P	PC-23B	20-084
B04	32-08	B14	24-08	PC-30B	20-048
B05	32-06P	B15	24-06P	PC-31B	20-040
B06	32-05	B16	24-05	PC-32B	20-032
B07	32-03P	B17	24-03P	PC-33B	20-024

TABLE B

PORT	FG19	FG26	FG27	TN75
0	310	310	310	145
1	110		110	
2	100			

CONNECT FPAS CABLES AT IOP FRAME (J5A006D)

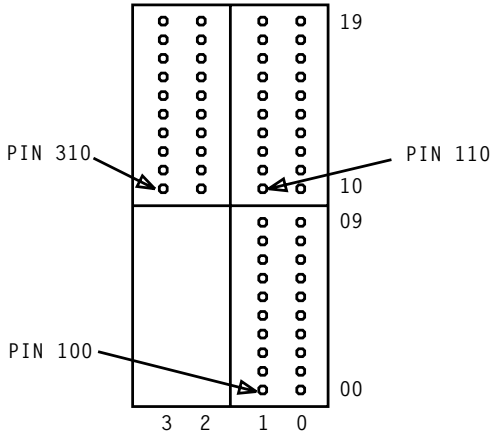


FIG. 1

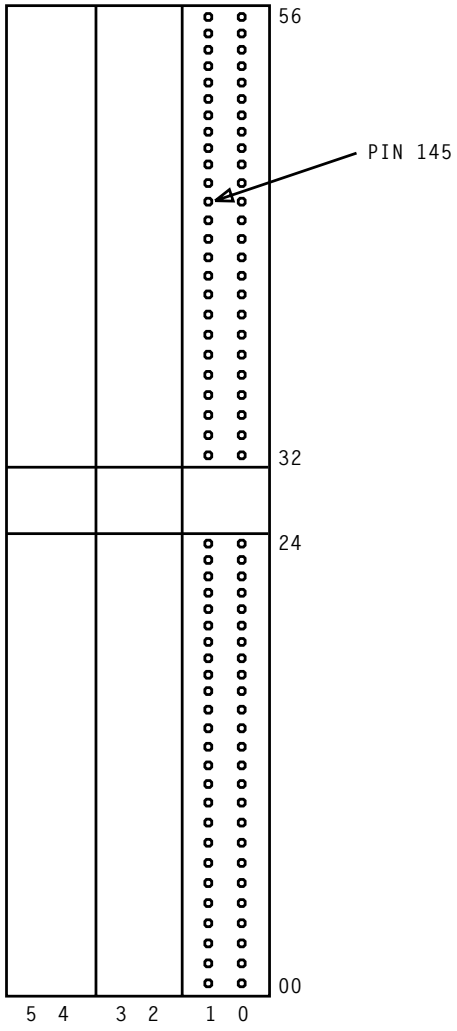


FIG. 2

CONNECT FPAS CABLES AT IOP FRAME (J5A006D)

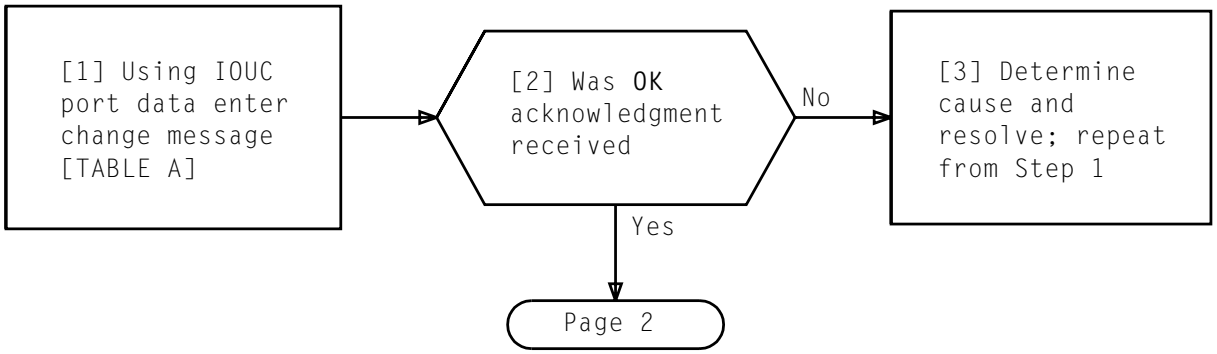


TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT c,PTC DC!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7) c = Growth Port 1, 2

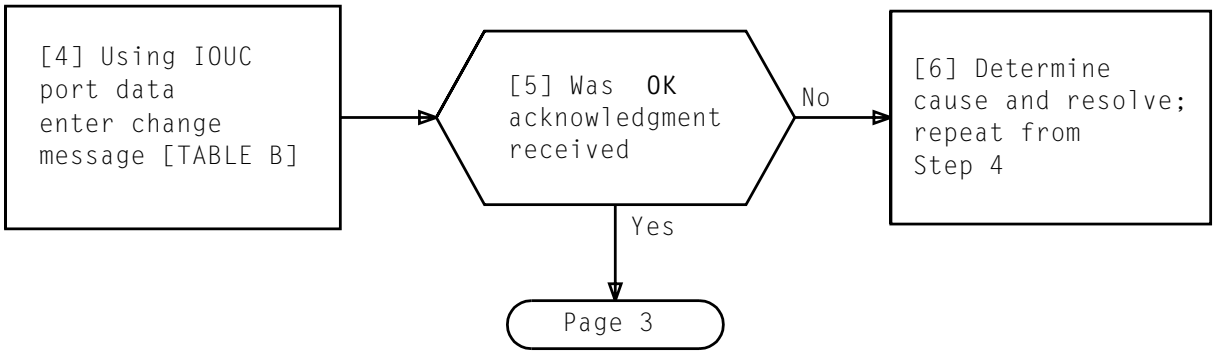


TABLE B
IN:XLBUF:IOUS a,IOUC b,PORT c,AB N
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7) c = Growth Port 1, 2

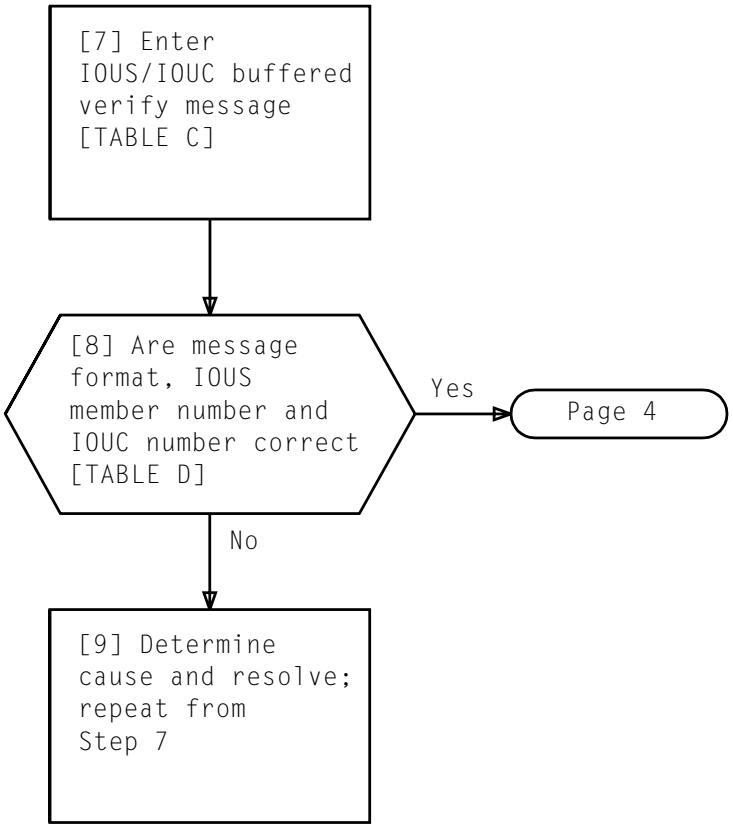


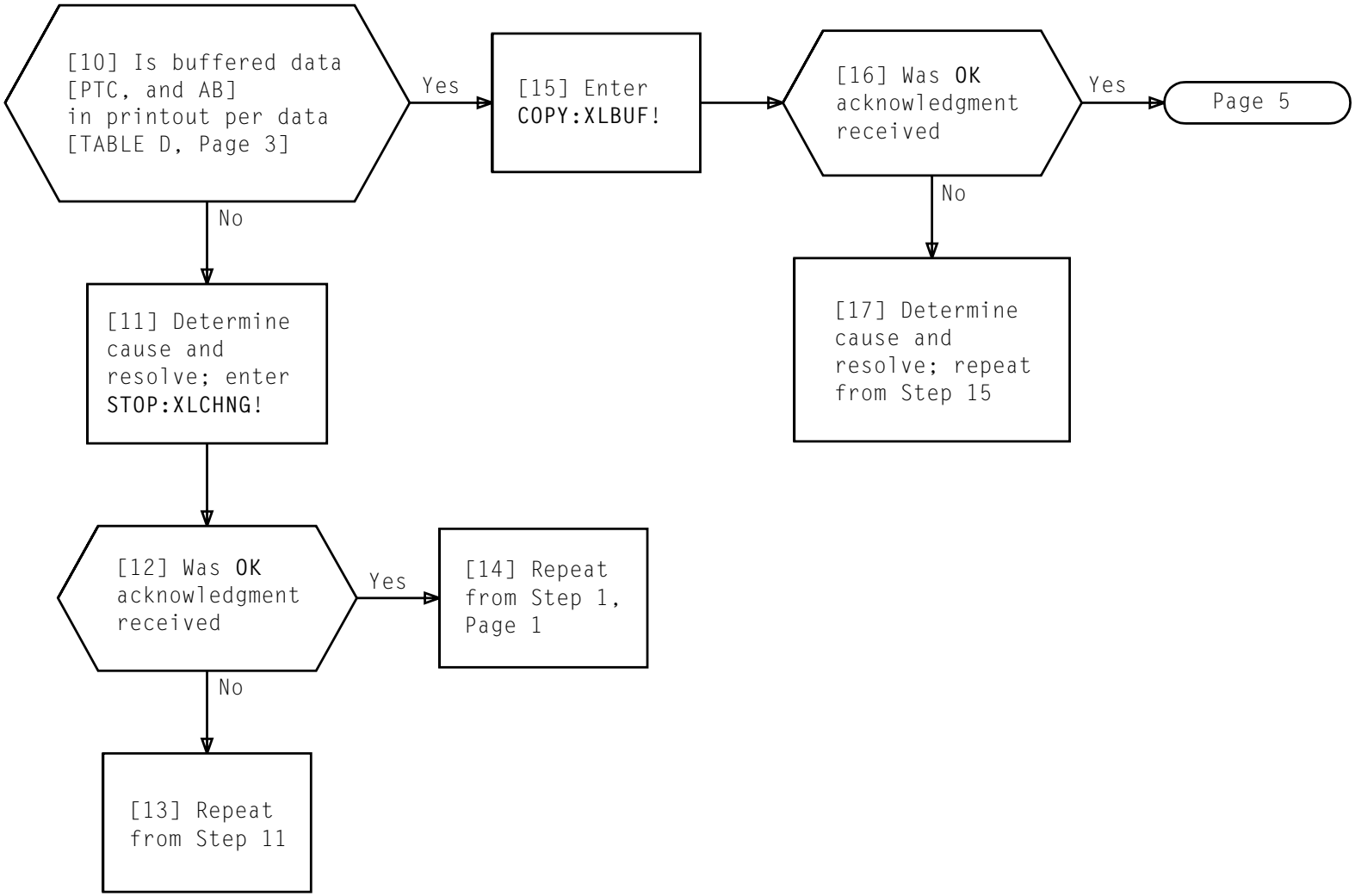
TABLE C

VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7)

TABLE D

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . PORT 0,PRTE=OPER PTC=DC DSTYPE=NODS SWC=N AB=N PORT 1,PRTE=UNEQ PTC=DC AB=N PORT 2,PRTE=UNEQ PTC=DC AB=N	a = Member number b = Submember number PTC = Port connection arrangement — DSTYPE = Data Service Unit type SWC = Switched carrier — AB = Answer back feature —

CHANGE AND VERIFY PORTS 1 AND 2 DATA


[10] Is buffered data [PTC, and AB] in printout per data [TABLE D, Page 3]
Yes
[15] Enter COPY:XLBUF!
[16] Was OK acknowledgment received
Yes
Page 5
No
[17] Determine cause and resolve; repeat from Step 15
No
[11] Determine cause and resolve; enter STOP:XLCHNG!
[12] Was OK acknowledgment received
Yes
[14] Repeat from Step 1, Page 1
No
[13] Repeat from Step 11

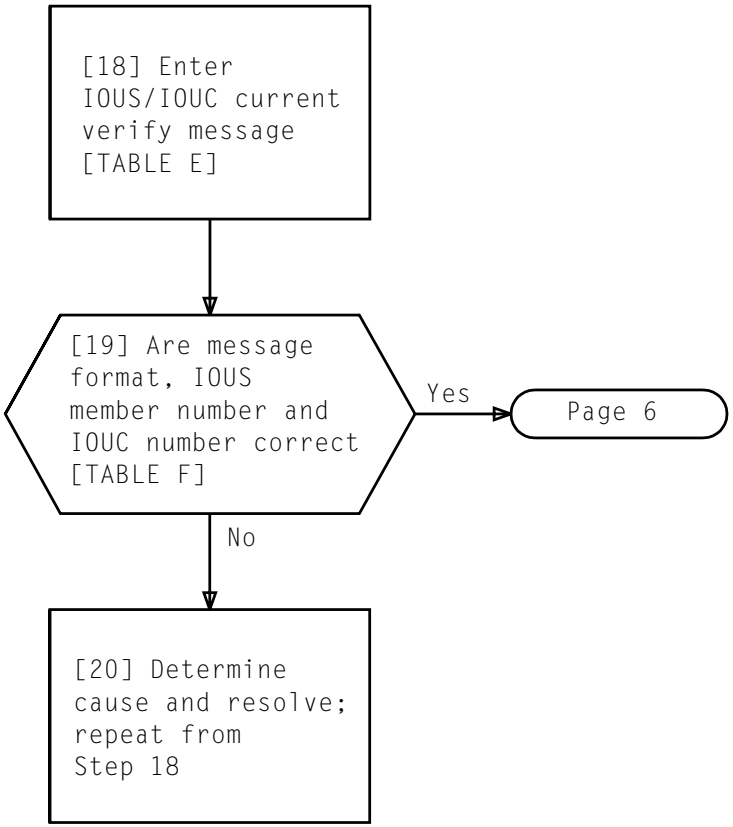


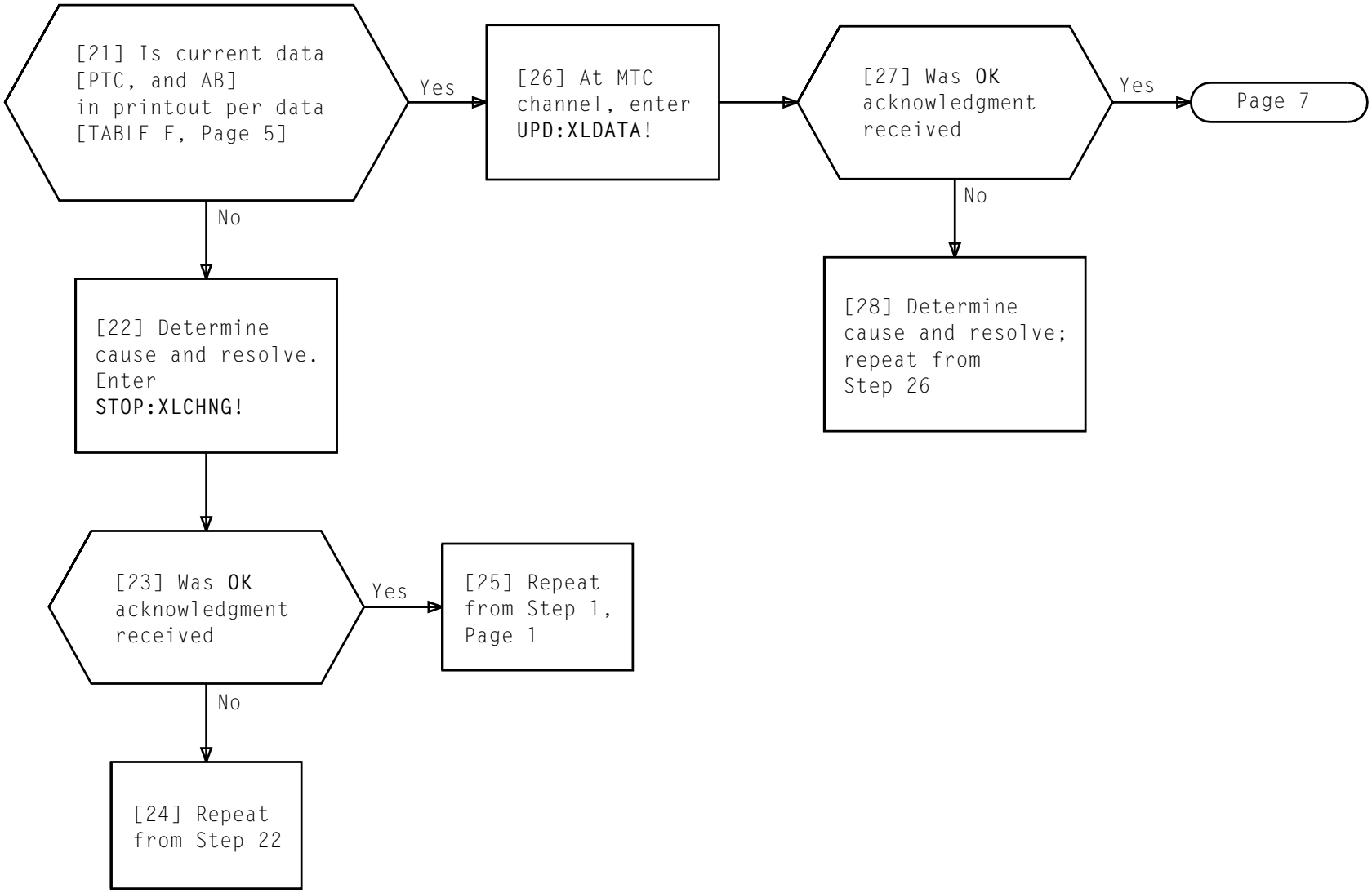
TABLE E

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7)

TABLE F

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . . PORT 0,PRTE=OPER PTC=DC DSTYPE=NODS SWC=N AB=N PORT 1,PRTE=UNEQ PTC=DC AB=N PORT 2,PRTE=UNEQ PTC=DC AB=N	a = Member number b = Submember number PTC = Port connection arrangement — DSTYPE = Data Service Unit SWC = Switched carrier — AB = Answer back feature —

CHANGE AND VERIFY PORTS 1 AND 2 DATA


[21] Is current data [PTC, and AB] in printout per data [TABLE F, Page 5]
Yes
[26] At MTC channel, enter UPD:XLDATA!
[27] Was OK acknowledgment received
Yes
Page 7
No
[28] Determine cause and resolve; repeat from Step 26
No
[22] Determine cause and resolve. Enter STOP:XLCHNG!
[23] Was OK acknowledgment received
Yes
[25] Repeat from Step 1, Page 1
No
[24] Repeat from Step 22

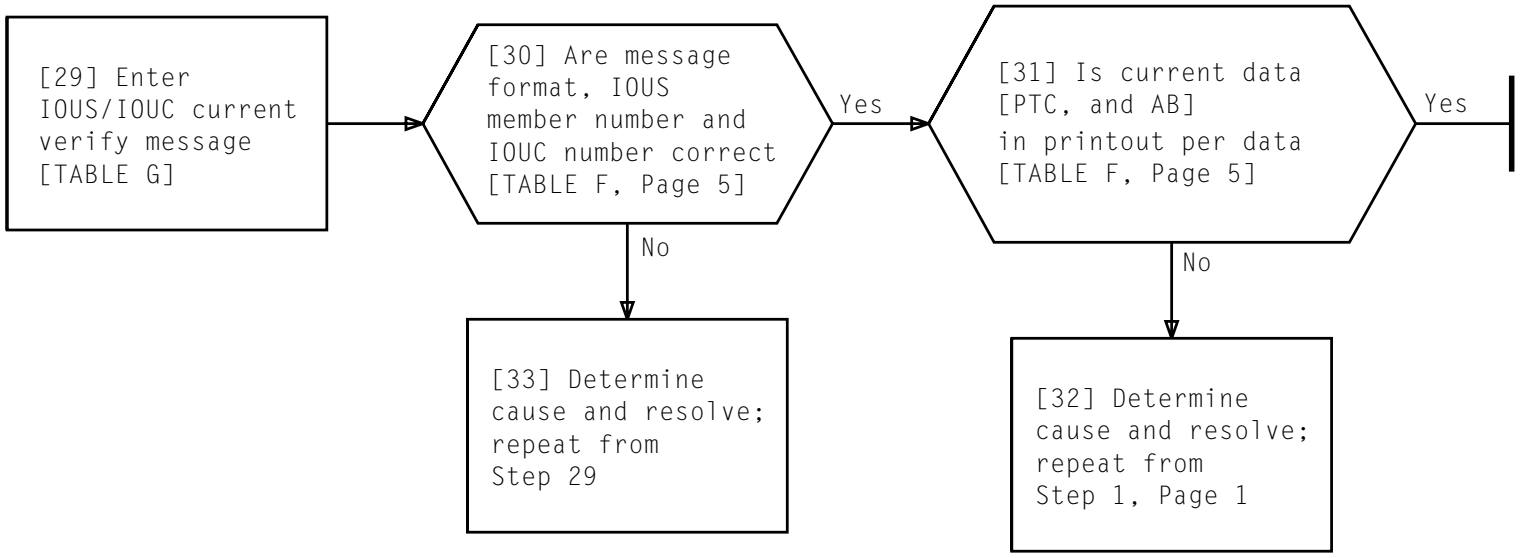


TABLE G
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7) b = Submember number of growth IOUC (0-7)

SUMMARY

Enter change message to grow port equipage (PRTE) from UNEQ to GROW. Verify buffered PRTE, enter copy message, then verify current PRTE. If after each verify the PRTE is in error, enter stop message and start change from beginning. If PRTE is correct after current verify, enter update message and verify that data is correct in translator

TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT c,PRTE (UNEQ,GROW)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)
c = Growth Port 1, 2

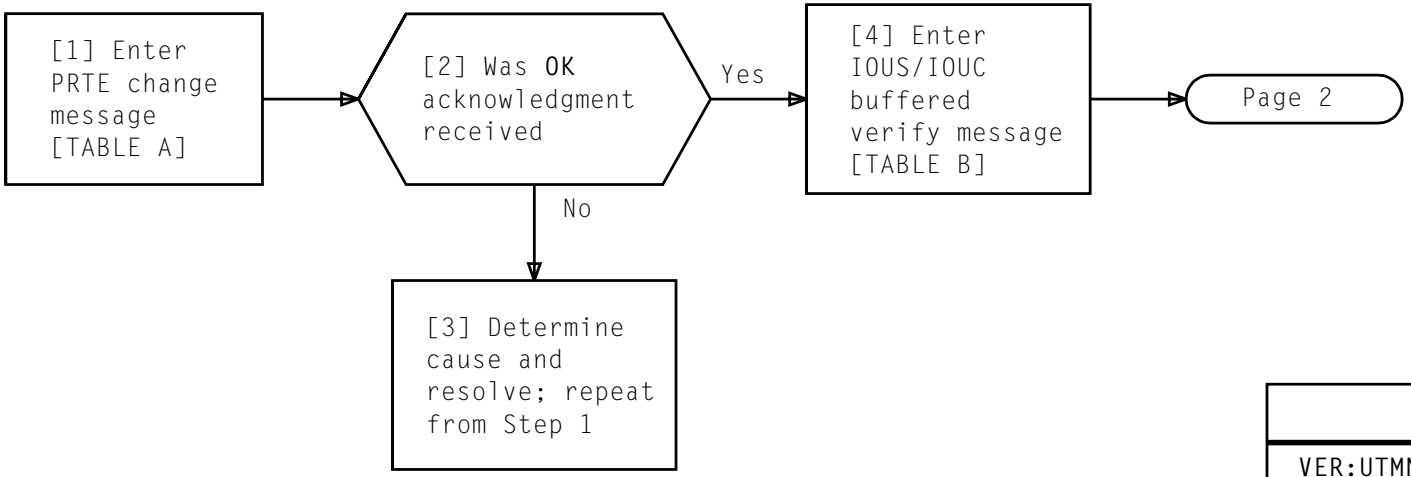


TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)

CHANGE AND VERIFY PORT EQUIPAGE UNEQUIPPED TO GROW

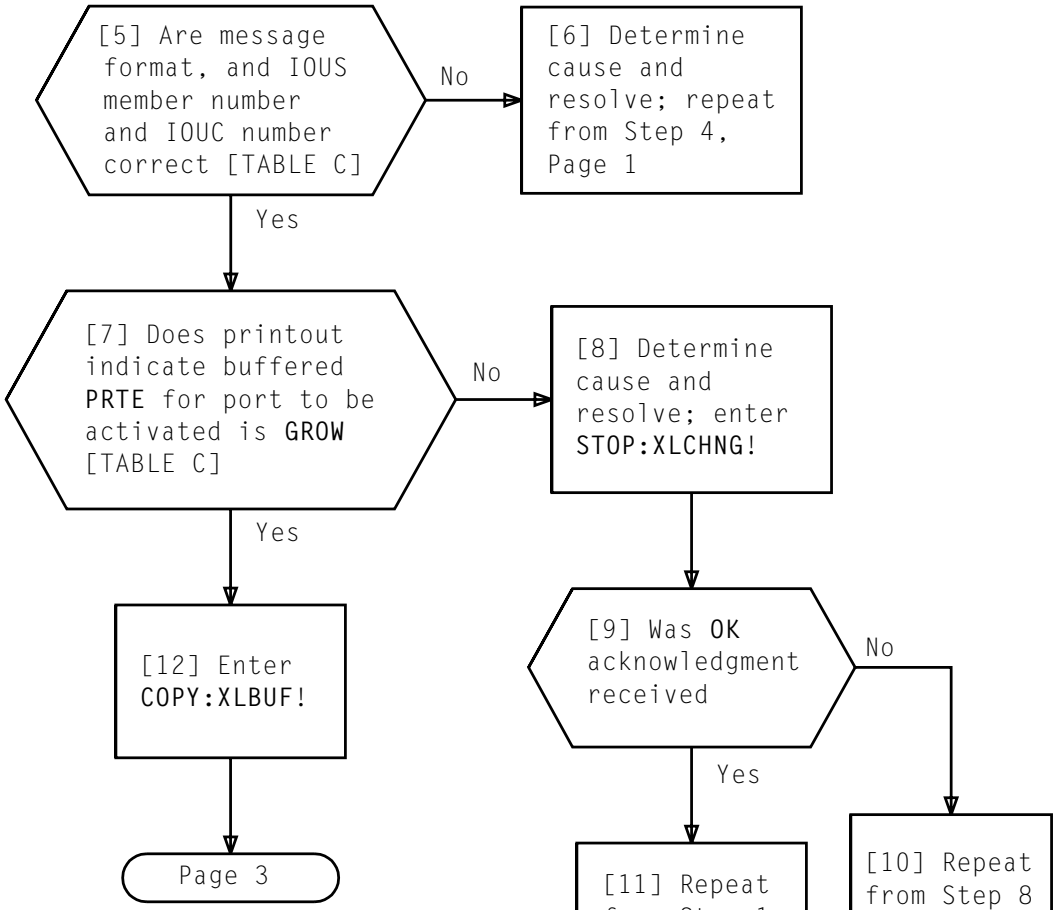


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . . . PORT 0,PRTE=OPER . . . PORT 1,PRTE=GROW . . PORT 2,PRTE=GROW . .	a = Member number b = Submember number

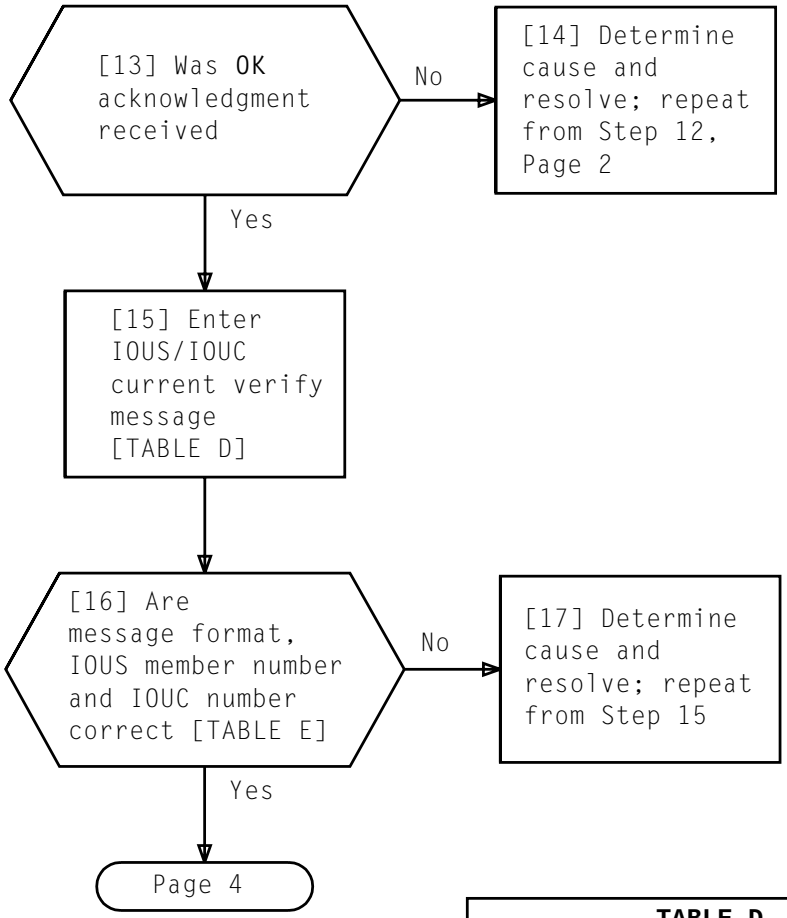
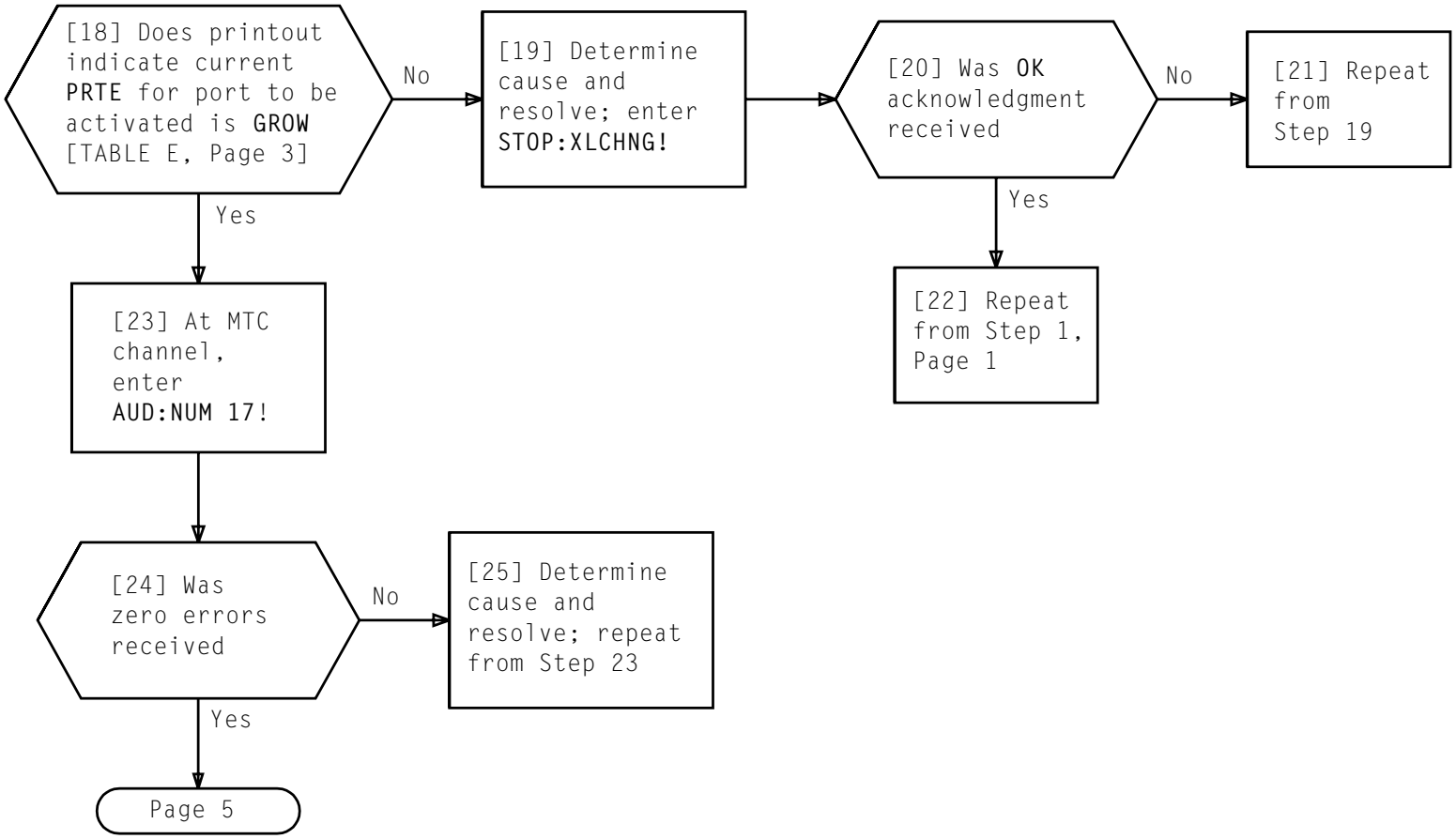


TABLE D

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)

TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . PORT 0,PRTE=OPER . . . PORT 1,PRTE=GROW . . PORT 2,PRTE=GROW . .	a = Member number b = Submember number


[18] Does printout indicate current PRTE for port to be activated is GROW [TABLE E, Page 3]
No
[19] Determine cause and resolve; enter STOP:XLCHNG!
[20] Was OK acknowledgment received
No
[21] Repeat from Step 19
Yes
[22] Repeat from Step 1, Page 1
Yes
[23] At MTC channel, enter AUD:NUM 17!
[24] Was zero errors received
No
[25] Determine cause and resolve; repeat from Step 23
Yes
Page 5

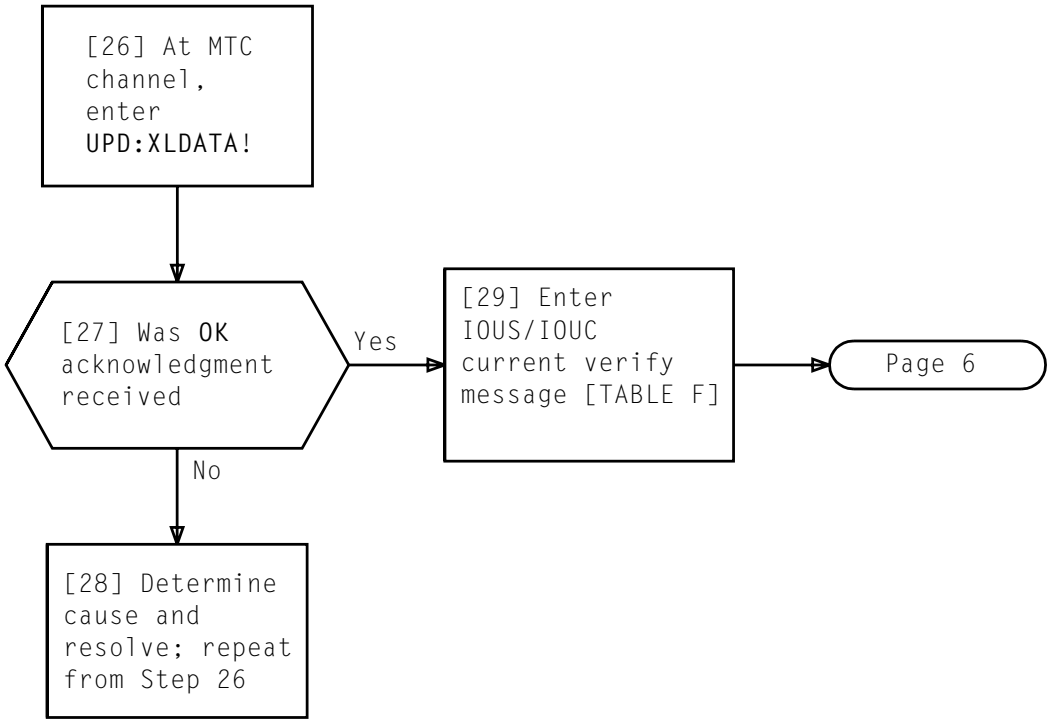
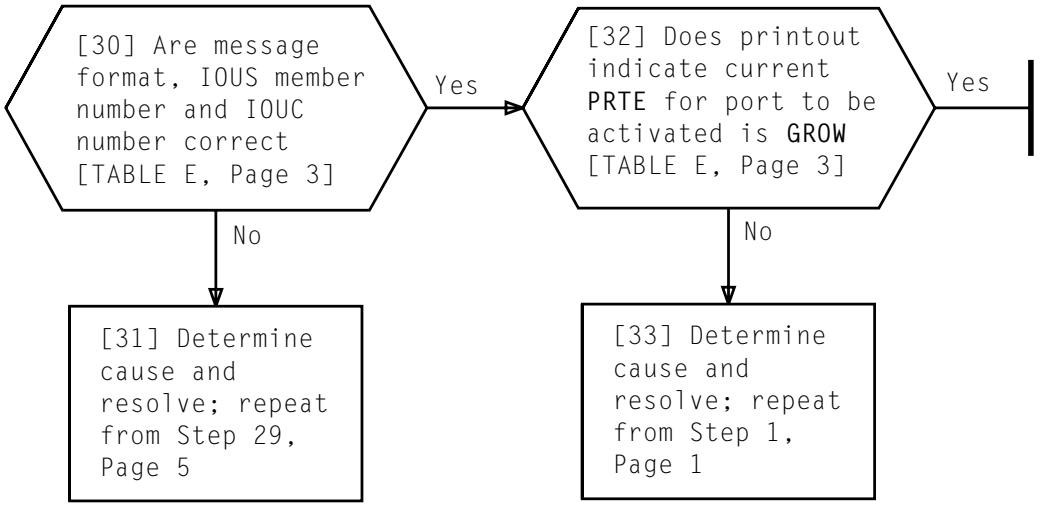


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)


[30] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[32] Does printout indicate current PRTE for port to be activated is GROW [TABLE E, Page 3]
Yes
No
No
[31] Determine cause and resolve; repeat from Step 29, Page 5
[33] Determine cause and resolve; repeat from Step 1, Page 1

SUMMARY

Enter change message to grow port equipage (PRTE) from GROW to SGRO. Verify buffered PRTE, enter copy message, then verify current PRTE. If after each verify the PRTE is in error, enter stop message and start change from beginning. If PRTE is correct after current verify, enter update message and verify that data is correct in translator.

TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT c,PRTE (GROW,SGRO)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)
c = Growth Port 1, 2

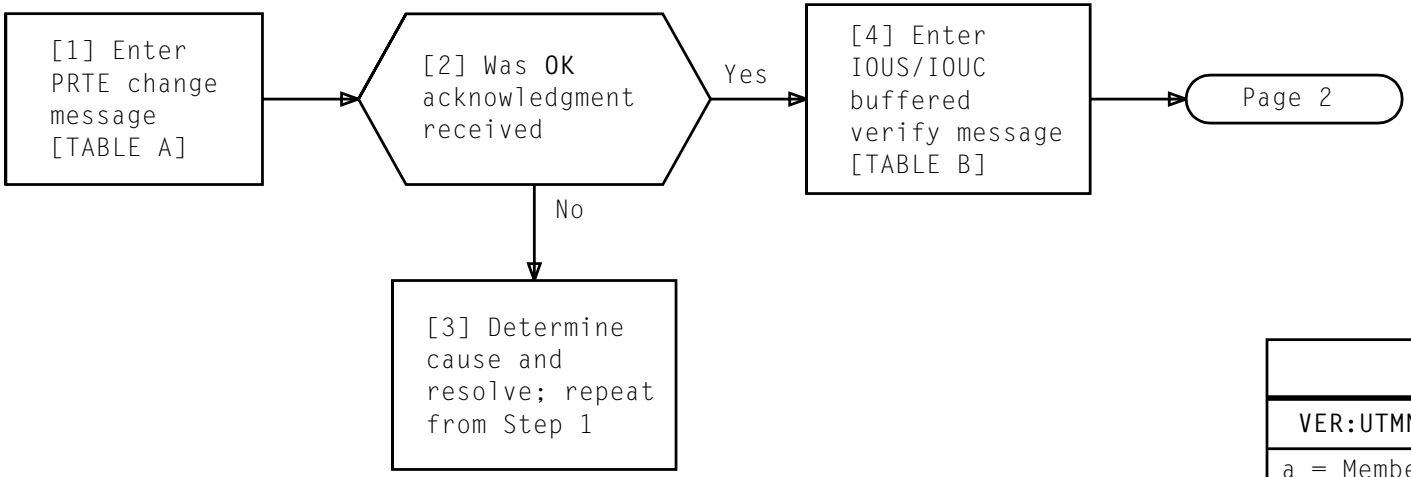


TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)

CHANGE AND VERIFY PORT EQUIPAGE GROW TO SPECIAL GROWTH

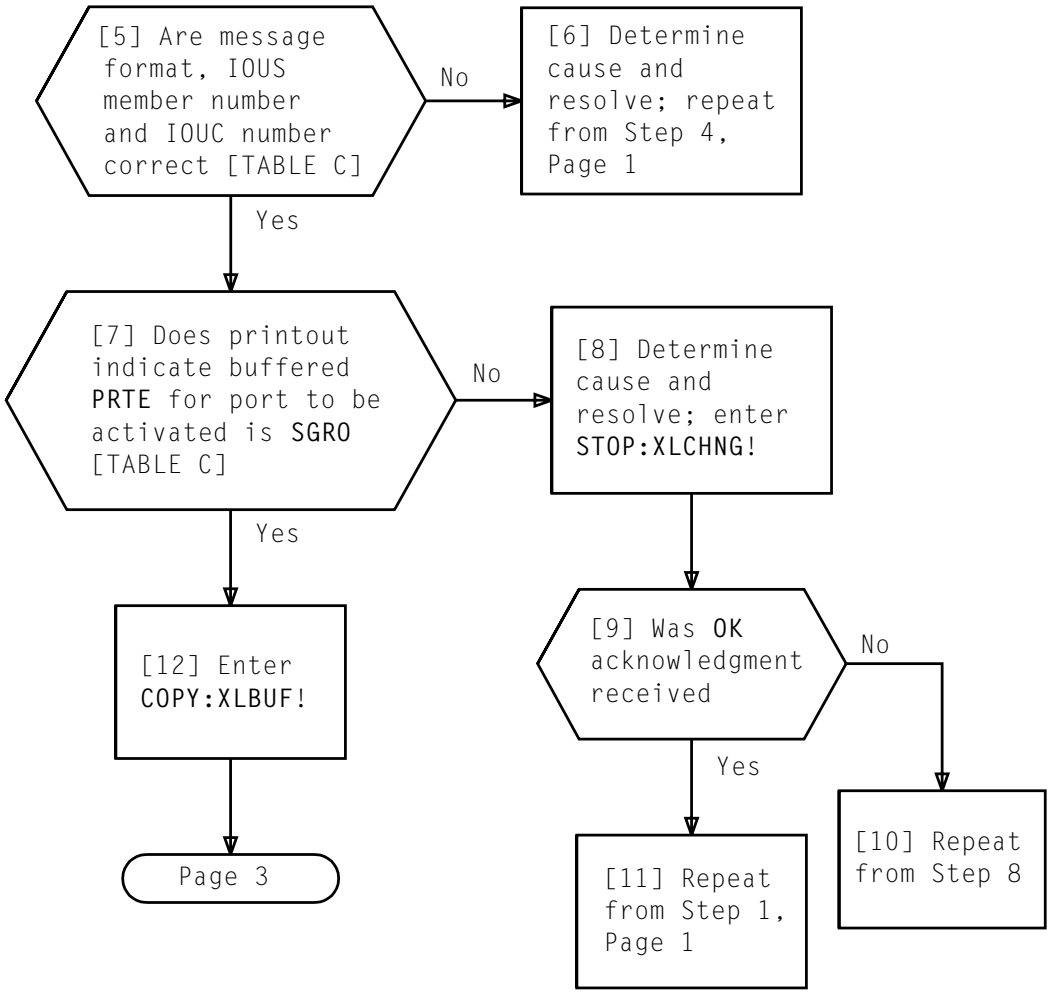


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . PORT 0,PRTE=OPER . . . PORT 1,PRTE= SGRO . . PORT 2,PRTE=SGRO . .	a = Member number b = Submember number

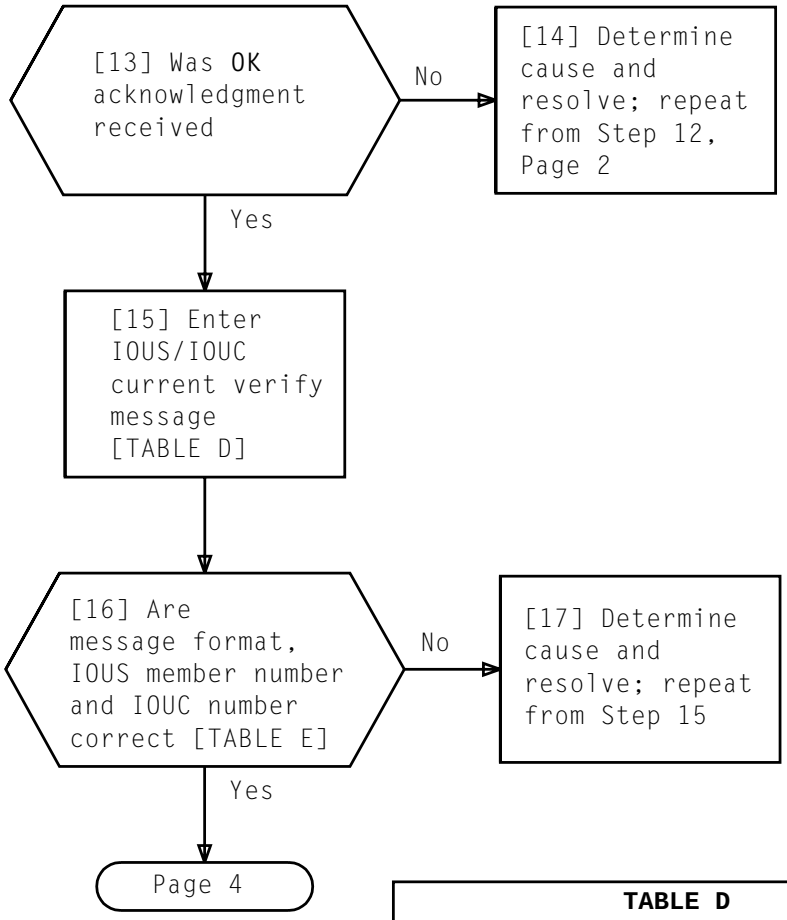


TABLE D

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (10,11,14, or 15)

TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . PORT 0,PRTE=OPER . . . PORT 1,PRTE= SGRO . . PORT 2,PRTE= SGRO . .	a = Member number b = Submember number

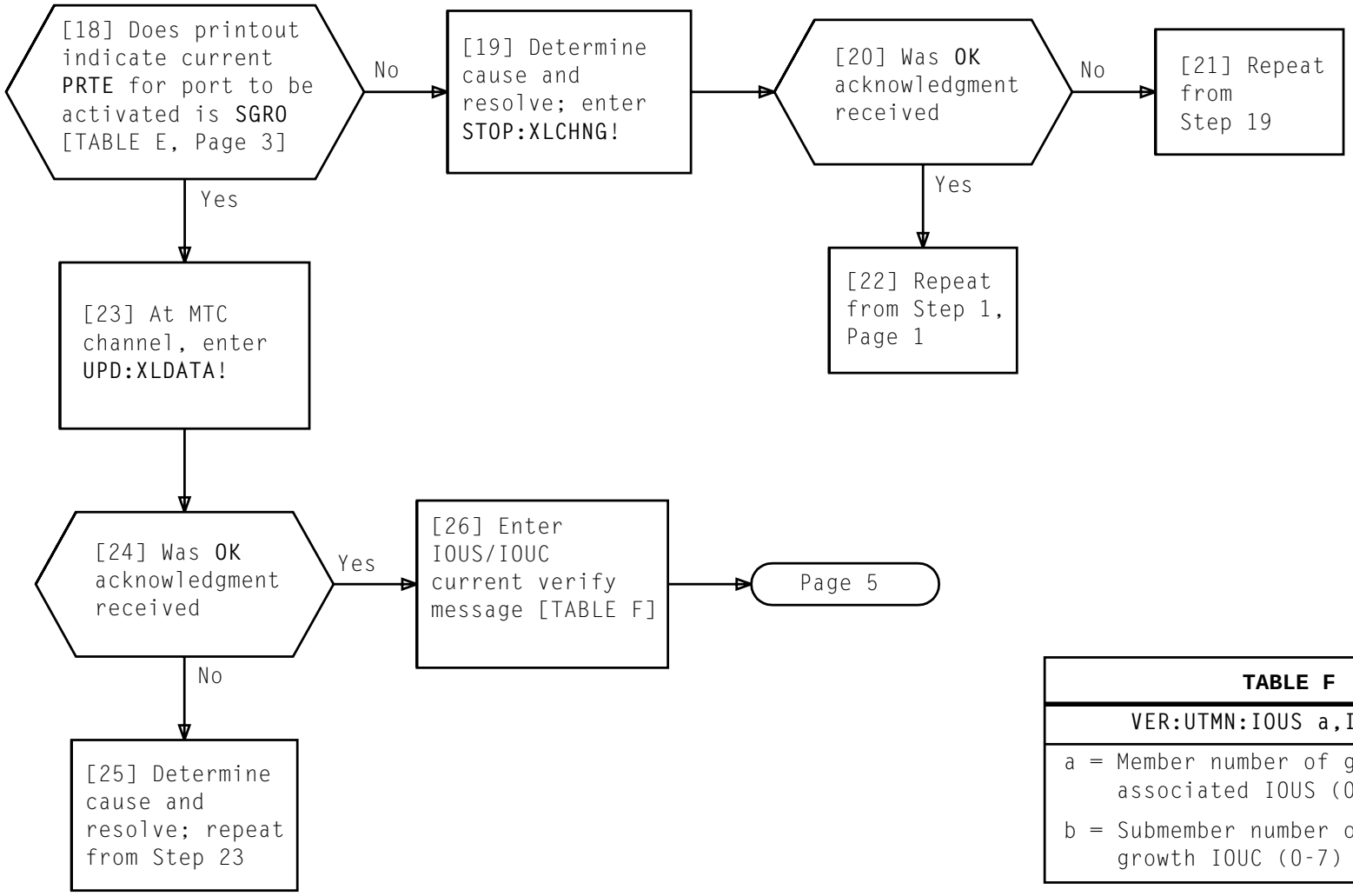
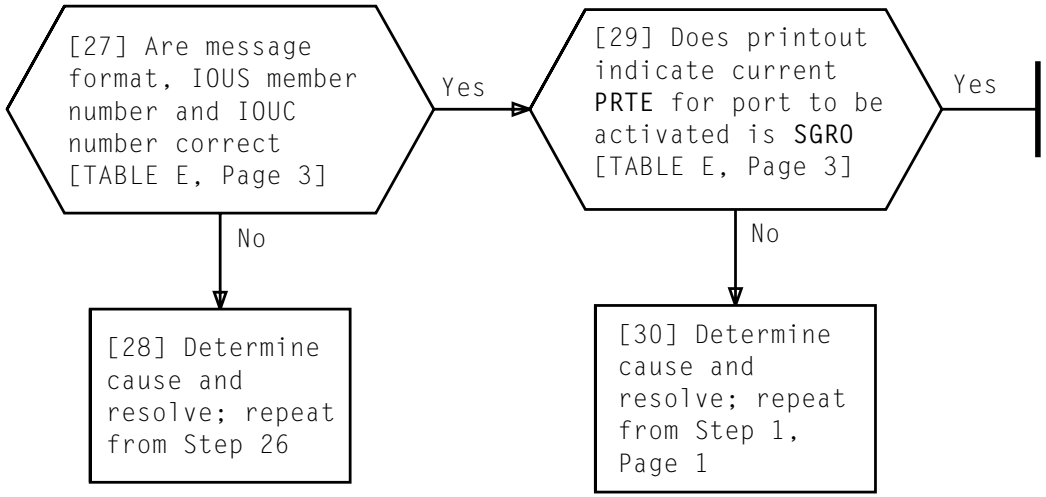


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)


[27] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[29] Does printout indicate current PRTE for port to be activated is SGRO [TABLE E, Page 3]
Yes
No
No
[28] Determine cause and resolve; repeat from Step 26
[30] Determine cause and resolve; repeat from Step 1, Page 1

SUMMARY

Enter change message to grow port equipage (PRTE) from SGRO to OPER. Verify buffered PRTE, enter copy message, then verify current PRTE. If after each verify PRTE is in error, enter stop message and start change from beginning. If PRTE is correct after current verify, enter update message and verify that data is correct in translator

TABLE A
IN:XLBUF:IOUS a,IOUC b,PORT c,PRTE (SGRO,OPER)!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)
c = Growth Port 1, 2

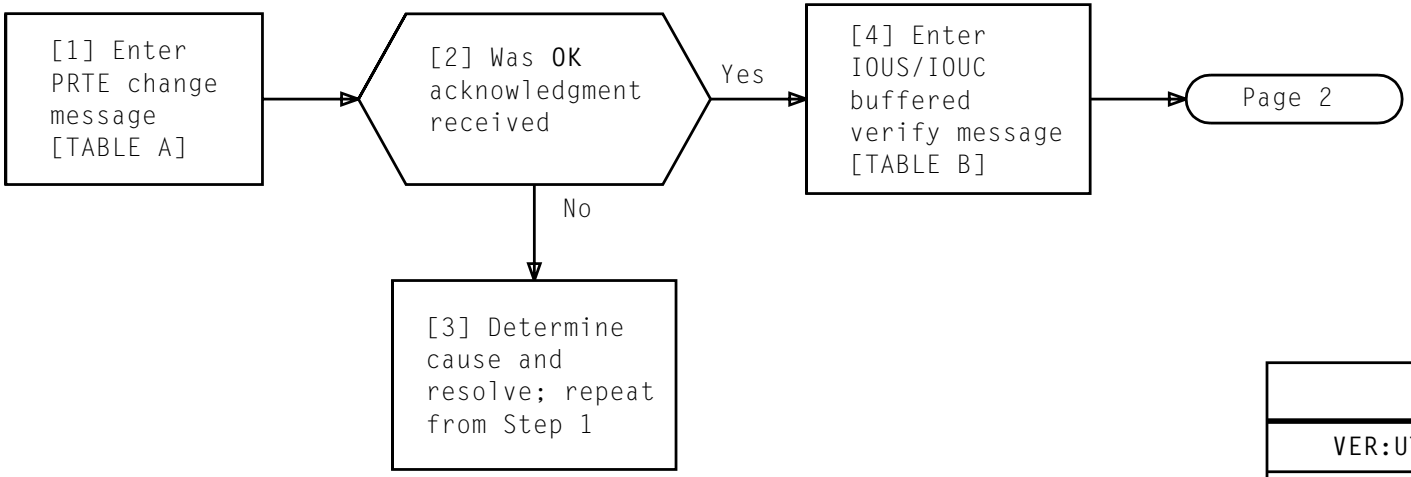


TABLE B
VER:UTMN;BUF:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)

CHANGE AND VERIFY PORT EQUIPAGE SPECIAL GROWTH TO OPERATIONAL

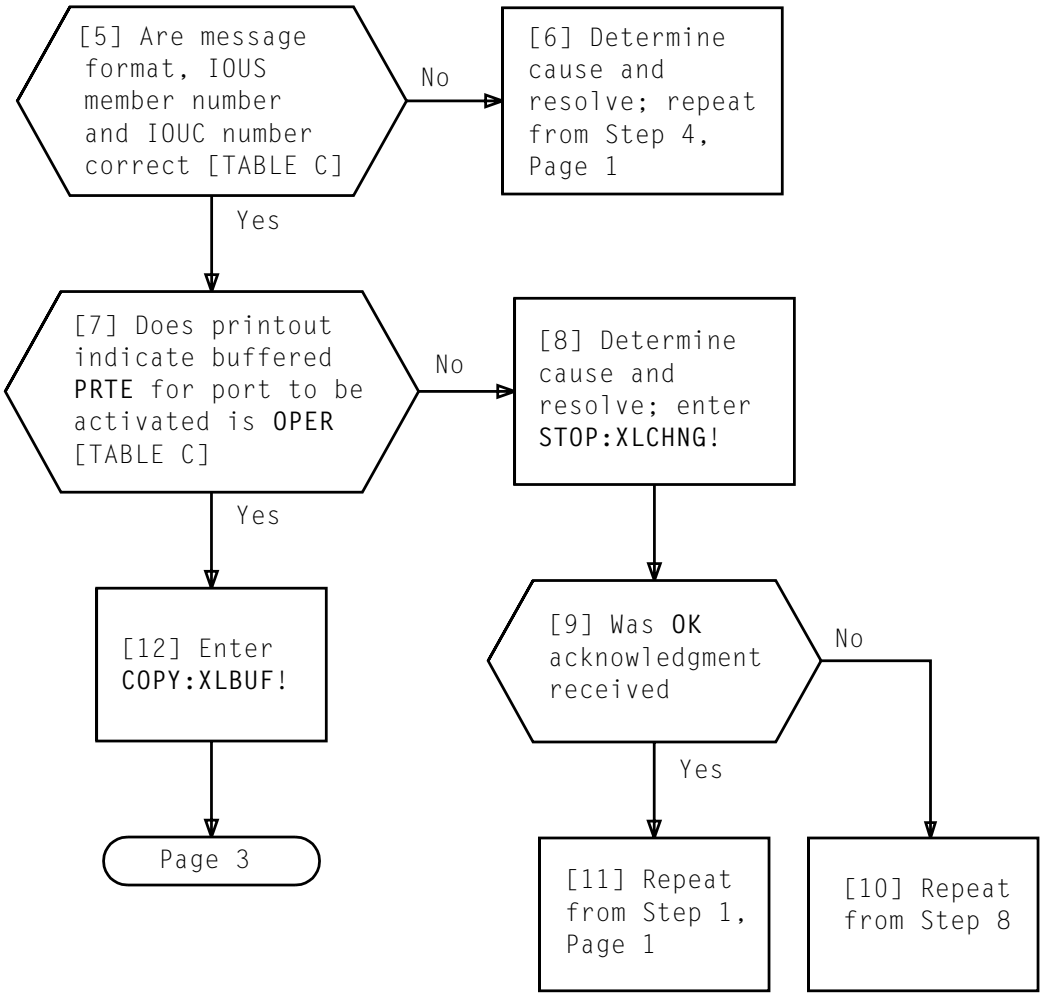


TABLE C

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 BUFFERED DATA: . . . . . PORT 0,PRTE=OPER . . . PORT 1,PRTE=OPER . . PORT 2,PRTE=OPER . . .	a = Member number b = Submember number

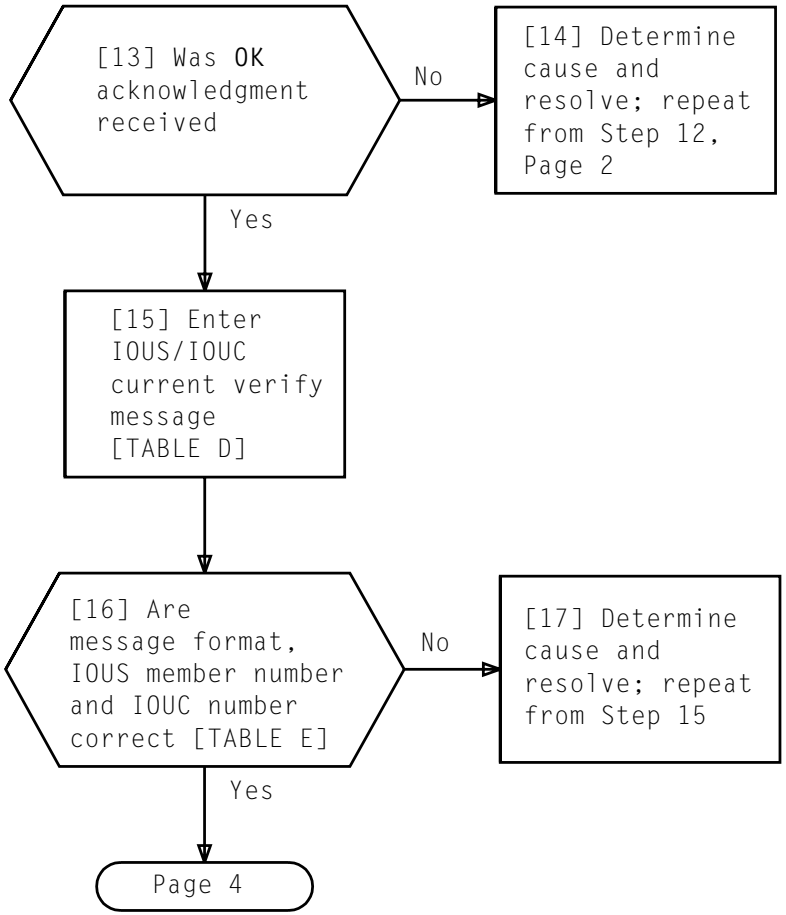


TABLE D

VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)

TABLE E

VER:UTMN,IOUS a,IOUC b COMPLETED TRANSLATOR ADR= TRANSLATOR SIZE=43 CURRENT DATA: . . . . . . PORT 0,PRTE=OPER . . . PORT 1,PRTE=OPER . . PORT 2,PRTE=OPER . .	a = Member number b = Submember number

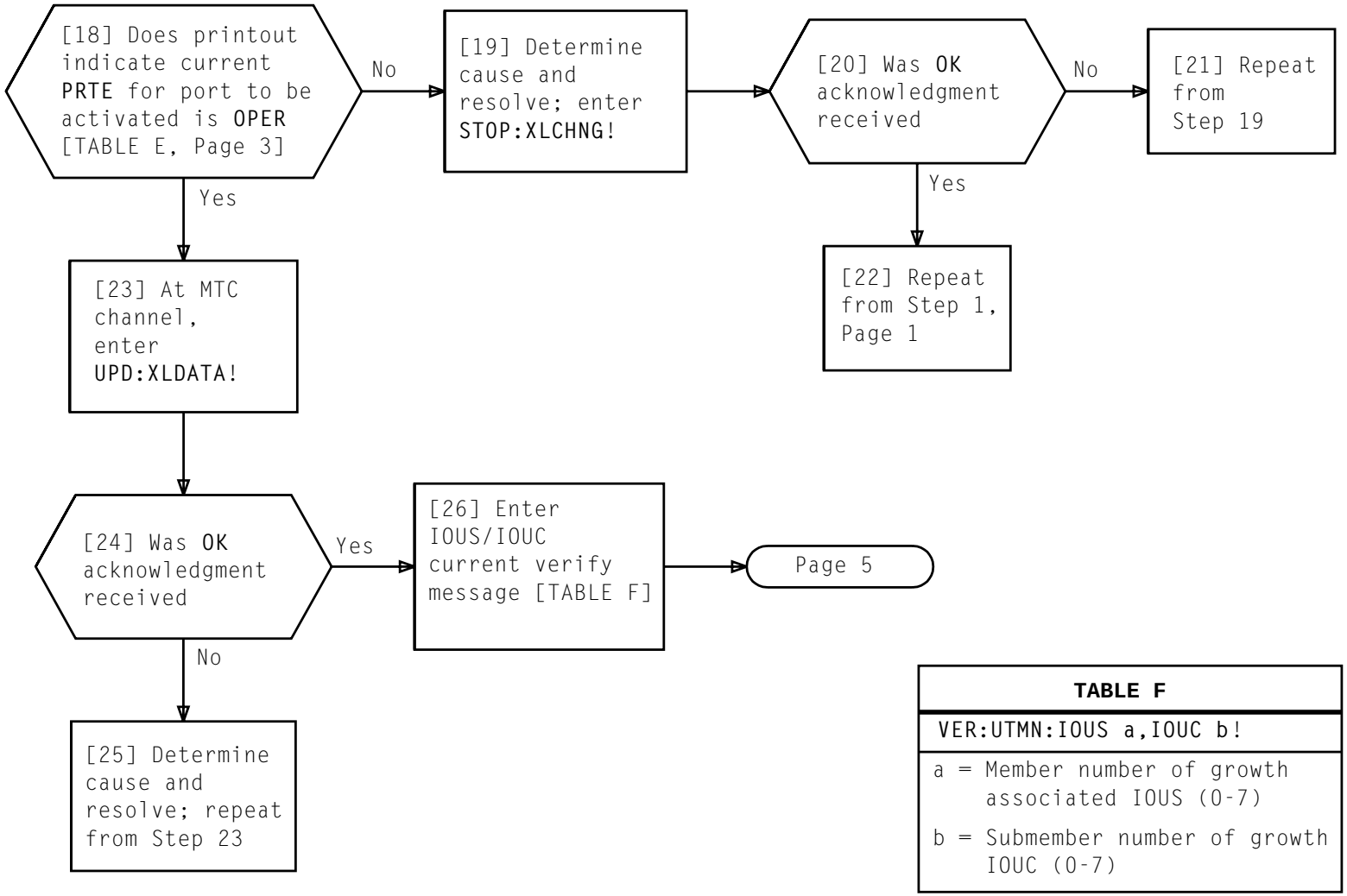
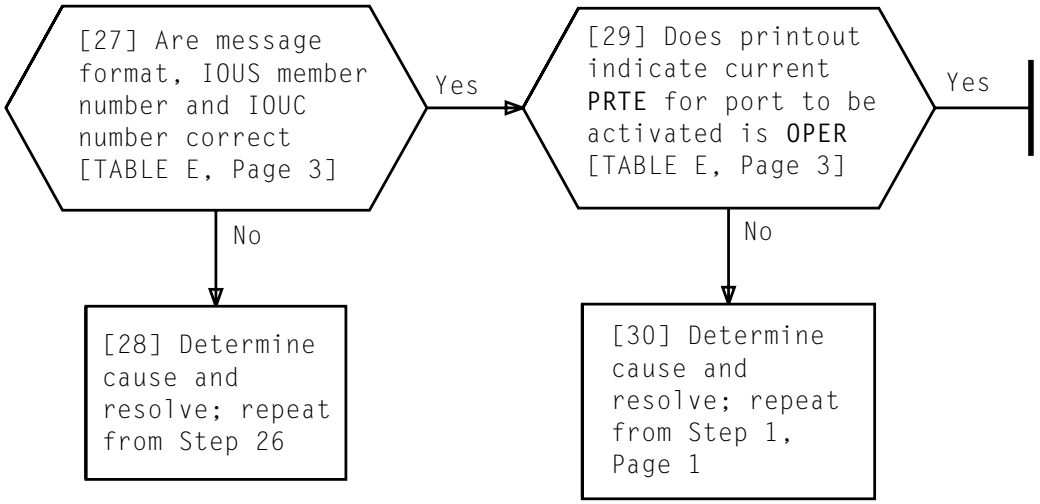


TABLE F
VER:UTMN:IOUS a,IOUC b!
a = Member number of growth associated IOUS (0-7)
b = Submember number of growth IOUC (0-7)


[27] Are message format, IOUS member number and IOUC number correct [TABLE E, Page 3]
Yes
[29] Does printout indicate current PRTE for port to be activated is OPER [TABLE E, Page 3]
Yes
No
No
[28] Determine cause and resolve; repeat from Step 26
[30] Determine cause and resolve; repeat from Step 1, Page 1

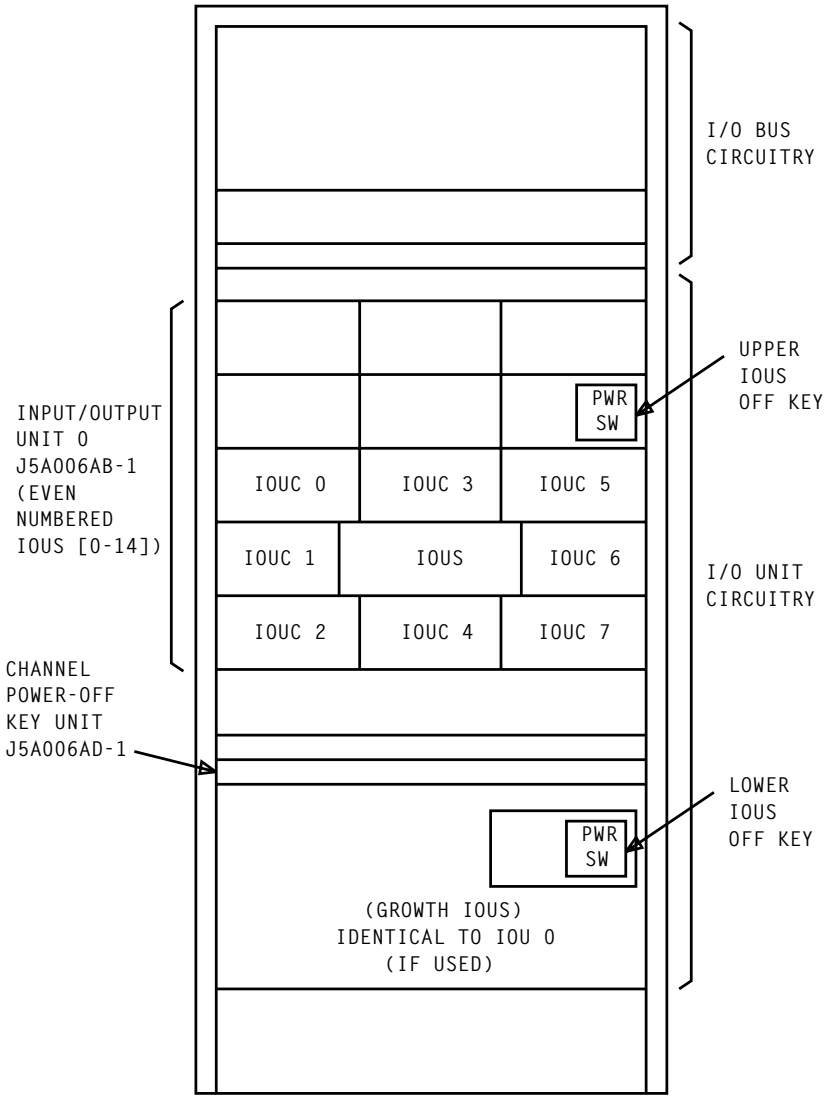


FIG. 1 – Input/Output Frame Front View (Equipment Side)

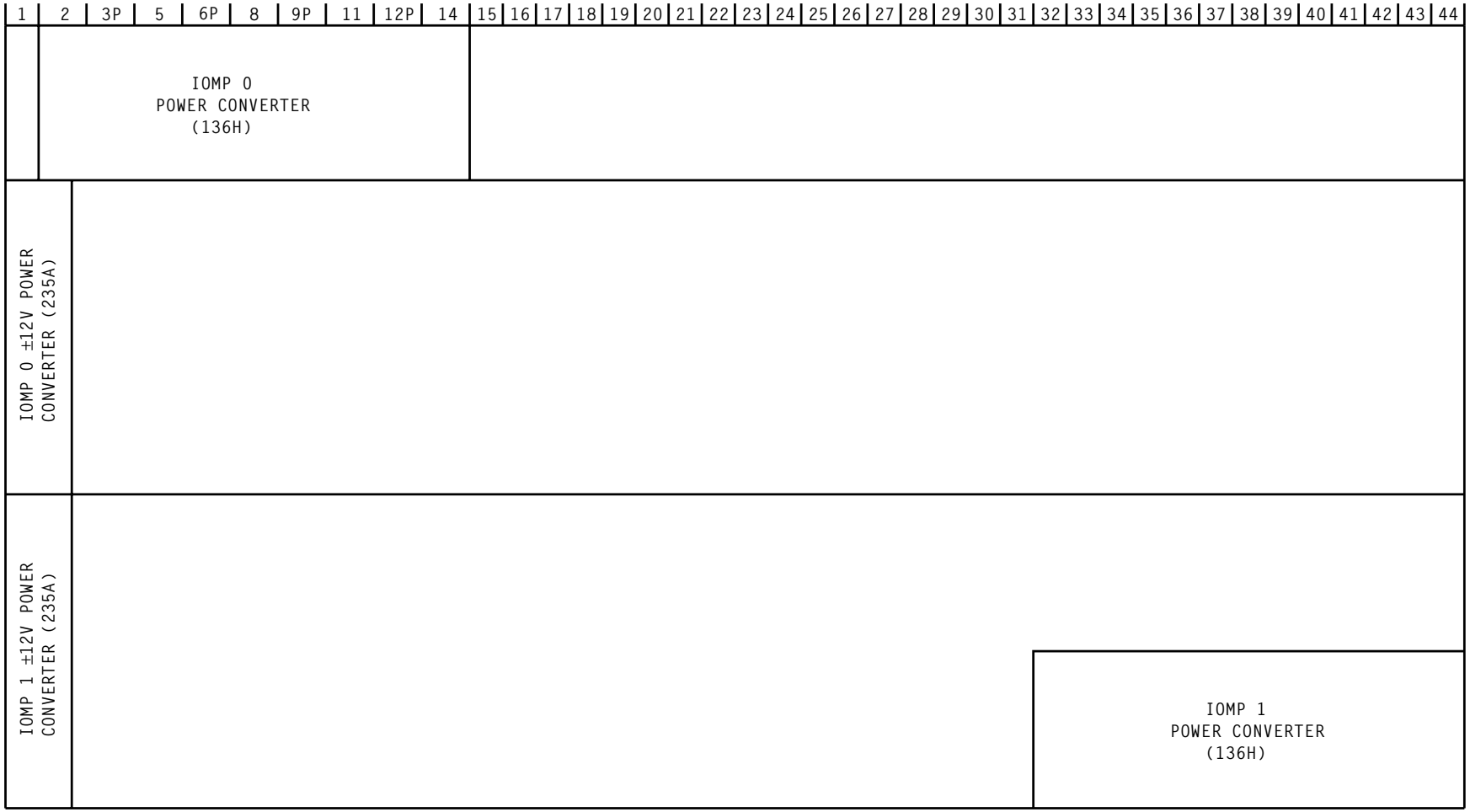
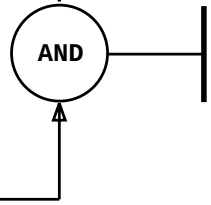


FIG. 1

RESTORE POWER TO INPUT/OUTPUT MICROPROCESSOR COMMUNITY (SD-5A049 OR 5A052)

[1] Turn 136H power supply switch to **ON** for growth associated IOMP [FIG. 1]



[2] Turn 235A power supply switch to **ON** for growth associated IOMP [FIG. 1]

[1] Ensure that FPAS cable from port being activated is connected and firmly seated

[2] Connect FPAS cable from IOUC to terminal strip (level 72) of I/O frame [FIG. 1]

AND

[3] Are there any more cables to be connected on this IOUC

No

Yes

[4] Repeat from Step 1 for next cable

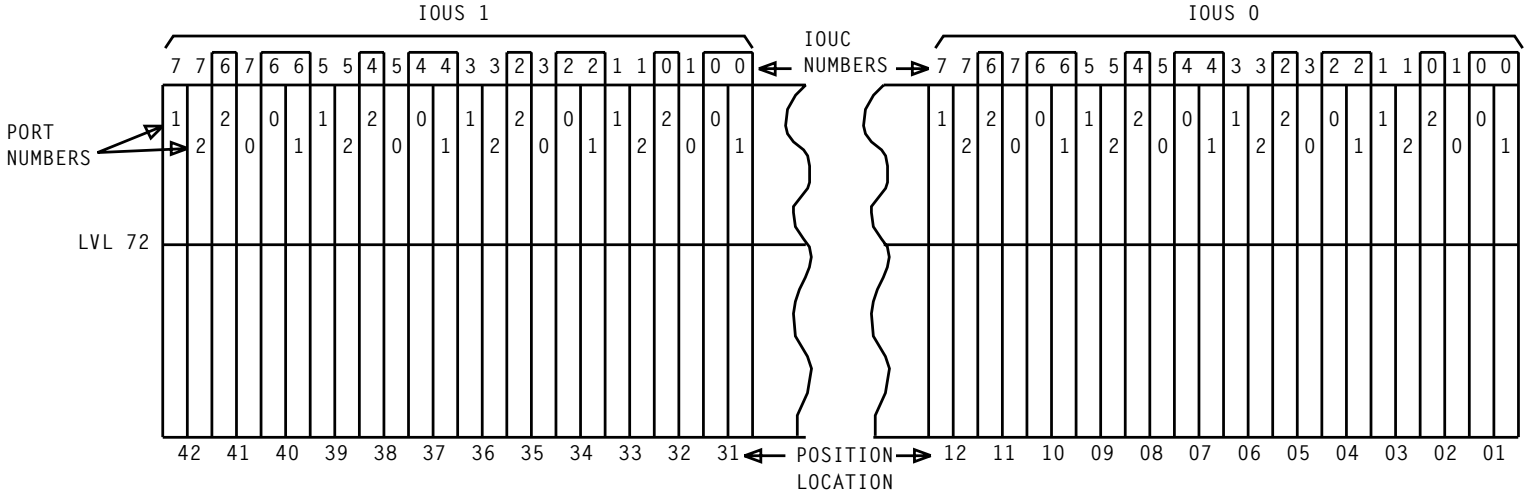


FIG. 1

CONNECT FPAS CABLE(S) AT I/O FRAME

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-529		DLP-564							
NTP-002		DLP-530		DLP-565							
• NTP-003		DLP-531		CKL-891							
• NTP-004		DLP-532		TNG-893							
• NTP-005		DLP-533									
TAP-100		• DLP-534									
DLP-500		• DLP-535									
• DLP-501		DLP-536									
• DLP-502		• DLP-537									
• DLP-503		DLP-538									
☐ DLP-504		DLP-539									
• DLP-505		• DLP-540									
• DLP-506		DLP-541									
DLP-507		• DLP-542									
DLP-508		DLP-543									
DLP-509		• DLP-544									
DLP-510		DLP-545									
DLP-511		• DLP-546									
DLP-512		• DLP-547									
• DLP-513		• DLP-548									
DLP-514		• DLP-549									
• DLP-515		• DLP-550									
DLP-516		• DLP-551									
DLP-517		DLP-552									
DLP-518		DLP-553									
DLP-519		DLP-554									
DLP-520		DLP-555									
DLP-521		DLP-556									
• DLP-522		• DLP-557									
• DLP-523		DLP-558									
• DLP-524		DLP-559									
• DLP-525		DLP-560									
☐ DLP-526		DLP-561									
☐ DLP-527		DLP-562									
DLP-528		DLP-563									