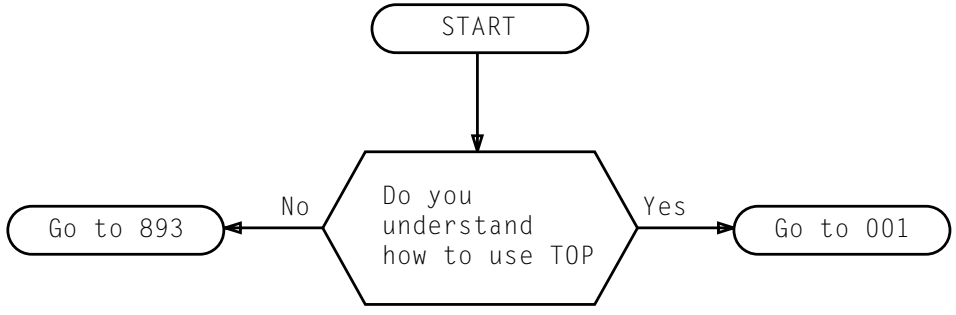
Lucent Technologies
Bell Labs Innovations

Task Oriented Practice (TOP)

4ESS™ Switch
With 1B Processor
Operational Readiness Tests
System Evaluation and Acceptance Tests



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

TASK INDEX LIST

All procedures in this volume support acceptance tests.

GENERAL

Procedures in this volume support operational readiness tests, which are part of system evaluation and acceptance requirements for a newly installed 4ESS™ Switch. Operational readiness tests are intended to verify integrity of office equipment grounds, office alarm system, transmission paths through switching network, and frame power sequencing. Tests are not normally disruptive and should not interfere with other office activities.

REQUIREMENTS

The following requirements are placed on operational readiness tests:

- All tests and evaluations shall be performed jointly by operating company personnel and the installation force
- At least one Maintenance Operations Center (MOC) trained technician shall be present throughout these tests
- Sufficient records of test results must be retained. This includes, but is not limited to, office logs, reporting forms, I/O channel printouts, etc
- Should be started at least 23 days before scheduled turnover date
- Must be completed before final verification tests are started

PREREQUISITES

In order for operational readiness tests to be considered valid, status of the system should be as stated in the following paragraphs:

- All frame and subsystem prerequisite tests have been successfully completed (all handbook sections) except 350, 389, and 390)
- All CNs designated as critical by PECC, especially all network CNs, have been completed and tested
- Generic and ODA (Office Data Assembler) programs are complete and essentially at their cutover status
- All frames are diagnostically sane and operating in full duplex configuration
- Simulated traffic should be applied to the time division network (TDnet) for 16 hours per day. The network exercise (NETEX) program is designed to provide this simulated traffic load and should be applied at 100 percent of its load capacity. Simulated traffic should also be applied to the Common Network Interface (CNI) ring when the 4ESS Switch is operating with 4E22 and later generic programs. The Integrated Services Digital Network User Part (ISUP) Call Generator (ISCG) program is designed to provide the simulated traffic for the CNI ring. The ISCG program should be applied for 8 hours per day and can be run concurrently with the NETEX program.
- No interrupts or audits are inhibited (pested) except those audits inhibited by NETEX after exercise has started

ACCEPTANCE TASKS

Tasks that make up operational readiness tests are listed on Page 2. Network path integrity test should be performed first. Other tests may be performed in any sequence, but it is recommended that they be performed in the order listed.

(Continued on Page 2)

Initial and date each test completed in TABLE A. If any tests cannot be completed satisfactorily, prepare a machine exception report [DLP-500] after it has been mutually agreed to by installation and operating company.

TABLE A
TEST COMPLETION RECORD

TEST	DATE COMPLETED	COMPLETED BY	TEST	DATE COMPLETED	COMPLETED BY
Network Path Integrity			Miscellaneous Frame A		
Alarm System (Major Alarms)			Miscellaneous Frame B		
POWER CYCLE			Miscellaneous Frame C		
Central Control			Network Management Display		
Call Store-Program Store			DIF-E1		
XPWR Miscellaneous			API		
I/O Processor			3B Computer Control Unit		
TSI			3B Computer IOP and DFC Unit		
XTSI			DC Ground Path Integrity		
TMS			Convenience AC Ground Path Integrity		
Network Clock					
PUBB			Service Circuit System (SCS)		
Signal Processor 1					

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by the installation force, repeat entire procedure	
1	At MTC Channel, Enter Message **OP:OOSUNITS:TMSP, TSI!**	—
2	If Output Message Indicates Out-of-Service Units, Suspend Test Until Units Are Returned to Service by Installation Force (All TMSs and TSIs Must Be Duplexed)	—
3	The following items need to be performd to run NETX: 1. Verify sufficient equipment active for NETX run 2. Set up dummy trunks/DS1s and verify echo cancellation ***AT&T TRUEVOICE*** Connections 3. Copy NETX into 1B memory 4. Run NETX on 200 trunks for 1 hour 5. Run NETX on 960 trunks for 8 hours in 2-hour intervals 6. Remove dummy trunks/DS1s and verify 7. Read entire Test procedure to become familiar with its contents before beginning NEXT run	—
4	Request Appropriate Provisioning Group To Set Up Dummy Trunks and Echo Cancellation ***AT&T TrueVoice*** Connection for Running NETX. ***DO NOT*** Continue Until Provisioning Group Has Confirmed Which Trunks Have Been Set Up for NETX Testing	DLP-601
	NOTES: 1. If ODA structures and TAN assignments for all trunks associated with growth XTSI have not been built, maximum occupancy levels for tests cannot be met 2. If NETX testing is temporarily stopped due to trouble condition which simplexes XTSI under test or any system TMS, observe output messages which indicate NETX is in hold state. When frames are restored to duplex operation, NETX exercise will automatically restart 3. All trunks assigned to XTSIs to be tested must be in CAS.DSA state before XTSIs can be used using NETX	
5	At 1B MTC Terminal, Verify Sufficient Number of Dummy Trunks, for NETX, Testing Are Set to CAD.DSA	DLP-602
6	Enter Message **OP:LIBSTAT,FS!** To Verify That Library Program LGaNETX Is Loaded on Disk (a = Current Office Generic - 23 for 4E23, etc.)	DLP-603

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
7	If Library Package Containing Program NETX Does Not Reside in File System	
	1. Insert Library Tape in 3B Digital Audio Tape (DAT) Unit	DLP-604
	2. Load Library Tape in File System:	
	A. Loading An Original Library Tape	DLP-605
	B. Loading a Backup Library Tape	DLP-606
8	Set Network Routing to NORM State SET:NETROUT;NORM:MEMN a!	DLP-607
9	Execute NETX Library Program and Set Office Translations to In-Service, If required	DLP-608
10	Enter NETX Execution Data and Start Exercise	DLP-609
11	Remove Tape From 3B DAT Unit	DLP-610
12	Run First Stage of Cross-Link Testing (TTSIs Crossed)	DLP-501
13	Run Second Stage of Cross-Link Testing (RTSIs Crossed)	DLP-502
14	Run Third Stage of Cross-Link Testing (Both TTSI and RTSI Crossed)	DLP-503
15	Return System to Standard Network Configuration (Normal Routing)	DLP-504
16	If All Stages of Cross-Link Testing Have Not Been Performed Twice, Repeat From Step 12	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	Obtain ITE-5590A Fuse Alarm Tool and ITE-9619, D4 Test Cord	—
2	From Office Records, Verify That Office Alarm System Tests Have Been Completed (Installation Engineering Handbook 264, Volume III, Section 144)	—
3	Select An Alarm Grid	—
4	Select Frame Lineup Within That Grid	—
5	Select One Major Alarm Fuse From Frame in That Lineup And Note Fuse Location and Location of Associated Power Switch, if Any	DLP-506
	NOTE: If required responses to selected procedure are not obtained, discontinue test. When troubles have been cleared by installation force, test one major alarm fuse from each frame in that lineup	
6	Test Major Fuse Alarm Using Appropriate Procedure:	—
	A. Test CC Major Fuse Alarm	DLP-507
	B. Test CS Major Fuse Alarm	DLP-508
	C. Test XPWR Fuse Alarm	DLP-509
	D. Test PS Fuse Alarm	DLP-510
	E. Test Fan Fuse Alarm	DLP-511
	F. Test MUP (IFB Clients) Fuse Alarm	DLP-576
	G. Test AUI (IFB Clients) Fuse Alarm	DLP-577
	H. Test SSD (IFB Clients) Fuse Alarm	DLP-578
	I. Test Call Store Bus Fuse Alarm	DLP-579
	J. Test 3500-535 Ring and Tone Plant Major Alarm	DLP-588
	K. Test Service Circuit Controller Cabinet (SCCC) Service Circuit Controller (SCC) Major Fuse Alarm	DLP-595
	L. Test Service Circuit Controller Cabinet (SCCC) IPUB Major Fuse Alarm	DLP-596
	M. Test Service Circuit Controller Cabinet (SCCC) Service Circuit Unit 0 (SCU 0) Major Fuse Alarm	DLP-597
	N. Test Service Circuit Controller Cabinet (SCCC) Service Circuit Unit 0 (SCU 0) Hard Disk Unit Power Controller (DPC) Fuse Alarm	DLP-598

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
6 (Contd)	O. Test Service Circuit Units 1-15 (SCU's 1-15) Major Fuse Alarm	DLP-599
	P. Test Service Circuit Units 1-15 (SCU's 1-15) Hard Disk Unit Disk Power Controller (DPC) Fuse Alarm	DLP-600
	Q. Test XTSI Controller Major Fuse Alarm	DLP-589
	S. Test XTSI IPUB Major Fuse Alarm	DLP-590
	T. Test XTSI A-Link Major Fuse Alarm	DLP-591
7	Test Major Fuse Alarm Using Appropriate Procedure With ITE-5590A Fuse Alarm Tool:	DLP-505
	A. Test API Major Fuse Alarm	DLP-512
	B. Test IOP Major Fuse Alarm	DLP-513
	C. Test IOP Bus Major Fuse Alarm	DLP-514
	D. Test TSI Controller Major Fuse Alarm	DLP-515
	E. Test TSI IPUB Major Fuse Alarm	DLP-516
	F. Test TSI A-Link Major Fuse Alarm	DLP-517
	G. Test TMS Controller Major Fuse Alarm	DLP-518
	H. Test Network Clock Chain Major Fuse Alarm	DLP-519
	I. Test System Clock and Control Unit Major Fuse Alarm	DLP-520
	J. Test PUBB Major Fuse Alarm	DLP-521
	K. Test SP1 IPUB Major Fuse Alarm	DLP-522
	L. Test SP1 Controller Major Fuse Alarm	DLP-523
	M. Test DIF-E1 Controller Major Fuse Alarm	DLP-524
	N. Test DIF-E1 IPUB Major Fuse Alarm	DLP-525
	O. Test 3B Computer CU Frame Major Fuse Alarm	DLP-526
	P. Test 3B Computer IOP (PC Frame) Major Fuse Alarm	DLP-527
	Q. Test RMS-D2 Major Fuse Alarm	DLP-528
	(Continued on Page 3)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
7 (Contd)	R. Test CNI Ring Node Cabinet Major Fuse Alarm	DLP-529
	S. Test CNI Digital Facility Access (DFA) Frame Major Fuse Alarm	DLP-530
8	Record Test Results	DLP-500
9	Select One Minor Alarm Fuse and Note Its Location and Location of Associated Power Switch, if Any	DLP-506
	NOTE: If required responses to selected procedure are not obtained, discontinue test. When troubles have been cleared by installation force, test one minor fuse from each frame in that lineup.	
10	Test Minor Fuse Alarm Using Appropriate Procedure:	—
	A. Test TSI Controller Minor Fuse Alarm	DLP-531
	B. Test TSI IPUB Minor Fuse Alarm	DLP-532
	C. Test TSI A-Link Minor Fuse Alarm	DLP-533
	D. Test TMS Controller Minor Fuse Alarm	DLP-534
	E. Test Network Clock Chain Minor Fuse Alarm	DLP-535
	F. Test System Clock and Control Unit Minor Fuse Alarm	DLP-536
	G. Test PUBB Minor Fuse Alarm	DLP-537
	H. Test SP1 IPUB Minor Fuse Alarm	DLP-538
	I. Test SP1 Controller Minor Fuse Alarm	DLP-539
	J. Test DIF-E1 Controller Minor Fuse Alarm	DLP-540
	K. Test DIF-E1 IPUB Minor Fuse Alarm	DLP-541
	O. Test RMS-D2 Minor Fuse Alarm	DLP-542
	P. Test CNI Minor Fuse Alarm	DLP-543
	(Continued on Page 4)	

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
11	Record Test Results	DLP-500
12	Repeat From Item 4 Until All Lineups in Grid Have Been Tested	—
13	Repeat From Item 3 Until All Grids in Office Have Been Tested	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:CC!**	–
2	If Output Message Indicates Either CC Out-of-Service, Suspend Test Until Frame Is Returned to Service by Installation Force	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure	–
3	Perform CC Frame Power Cycle Test on Standby CC	DLP-544
4	Record Test Results	DLP-500
5	At MTC Channel, Enter Message **SW:CC!**	–
6	Wait for **OK** Message	–
7	Perform Frame Power Cycle Test on Other CC	DLP-544
8	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:CS!**	—
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	—
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	—
3	Perform CS Power Cycle Test on All Call Store Units	DLP-545
4	At MTC Channel, Enter Message **OP:OOSUNITS:PS!**	—
5	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	—
6	Perform PS Power Cycle Test on All Program Store Units	DLP-546
7	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:IOUS!**	–
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	–
3	From Office Drawings Determine IOP Assignments For MTC, SREC 1, SCCS and BELT Line Channels	–
	NOTE: When power is removed from IOP frame that channel being monitored is assigned to, all output messages received from that point forward will have to be observed on backup channel	–
4	Select In-Service IOP Frame To Be Tested	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
5	Perform Power Cycle Test on IO Processor Units	DLP-548
6	Perform Power Cycle Test on IO Processor Bus Units	DLP-549
7	Record Test Results	DLP-500
8	Repeat From Item 4 Until All IOP Frames Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:TSI!**	–
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	–
3	Select In-Service TSI Frame To Be Tested	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
4	Perform Power Cycle Test on TSI Controllers	DLP-550
5	Perform Power Cycle Test on TSI IPUBs	DLP-551
6	Perform Power Cycle Test on TSI A-Link Controllers	DLP-552
7	Record Test Results	DLP-500
8	Repeat From Item 3 Until All TSI Frames Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:TMSP,PUB!**	—
2	If Output Message Indicates Out-of-Service Units, Suspend Test Until Units Are Returned to Service by Installation Force	—
3	Select TMS Frame To Be Tested	—
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	—
4	Perform Power Cycle Test on TMS Controllers	DLP-553
5	Perform Power Cycle Test on TMS IPUBs	DLP-554
6	Record Test Results	DLP-500
7	Repeat From Item 3 Until All TMS Frames Have Been Tested	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
1	At MTC Channel, Enter Message **OP:OOSUNITS:NCLK,SCLK!**	—
2	If Output Message Indicates Unit Out-of-Service, Suspend Test Until Unit Is Returned to Service by Installation Force	—
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	—
3	Perform Power Cycle Test on NCLK Clock Chains	DLP-555
4	Perform Power Cycle Test on NCLK IPUB	DLP-556
5	Perform Power Cycle Test on NCLK Controller	DLP-557
6	Perform Power Cycle Test on NCLK Synchronization Unit	DLP-558
7	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:PUB!**	–
2	If Output Message Indicates Out-of-Service Unit, Suspend Test Until Unit is Returned to Service by Installation Force	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure	–
3	Perform Power Cycle Test On Each Bay of PUBB	DLP-559
4	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
1	At MTC Channel, Enter Message **OP:OOSUNITS:SP!**	—
2	If Output Message Indicates Units Out-of-Service, Refer These Units to Installation Force	—
3	Select In-Service SP1 To Be Tested	—
4	Perform Power Cycle Test on SP1 IPUBs	DLP-560
5	Perform Power Cycle Test on SP1 Controllers	DLP-561
6	Perform Left Side Combined Distributor and Scanner Matrix Frame (CD & SM) Power Cycle Test	DLP-562
7	If SP Is Equipped With Right Side Combined Distributor and Scanner Matrix (CD & SM) Frame, Perform Right Side Power Cycle Test	DLP-562
8	Record Test Results	DLP-500
9	Repeat From Item 3 Until All SP1 Complexes Have Been Tested	—

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	_
1	Perform Power Cycle Test on Frame Alarm Circuits	DLP-563
2	Perform Power Cycle Test on Continuity Check Transceiver (CCT) Unit 0	DLP-564
3	Perform Power Cycle Test on CCT Unit 1	DLP-564
4	Perform Power Cycle Test on CCT Unit 2	DLP-565
5	Perform Power Cycle Test on CCT Unit 3	DLP-565
6	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	Select Miscellaneous Frame B To Be Tested	—
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	—
2	Perform Power Cycle Test on Frame Alarm Circuits	DLP-566
3	Record Test Results	DLP-500
4	Repeat From Item 1 Until All Miscellaneous Frame Bs Have Been Tested	—

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:DIF!**	–
2	If Output Message Indicates Units Out-of-Service, Refer These Units to Installation Force	–
3	Select In-Service DIF-E1 for Testing	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure	–
4	Perform Power Cycle Test on DIF-E1 Controllers	DLP-567
5	Perform Power Cycle Test on DIF-E1 IPUBs	DLP-568
6	Record Test Results	DLP-500
7	Repeat From Item 3 Until All DIF-E1 Frames Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Messages **OP:OOSUNITS:API!**	–
2	If Output Message Indicates Units Out-of-Service, Refer These Units to Installation Force	–
3	Select API Frame To Be Tested	–
	Note: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure	–
4	Perform Power Cycle Test on API Unit(s)	DLP-569
5	Record Test Results	DLP-500
6	Repeat From Item 4 for Other API Frame	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At AT&T 3B Computer MCRT, Enter Message **OP:OOS:CU!**	–
2	If Output Message Indicates Either CU Frame Is Out-of-Service, Suspend Test Until Frame Is Returned to Service by Installation Force	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure	–
3	Perform Power Cycle Test on Standby CU	DLP-570
4	Record Test Results	DLP-500
5	At 3B Computer MCRT, Enter Message **SW:CU!**	–
6	Perform Power Cycle Test on Other CU	DLP-570
7	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At 3B Computer MCRT, Enter Messages OP:OOS:DFC! and OP:OOS:IOP!	–
2	If Output Messages Indicate Any Out-of-Service Units, Suspend Test Until Units Are Returned to Service By Installation Force	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure	–
3	Perform Power Cycle Test on IOP Unit	DLP-571
4	Perform Power Cycle Test on DFC Unit	DLP-572
5	Record Test Results	DLP-500
6	Repeat From Item 3 For Other IOP and DFC Unit	–

DO THE ITEMS BELOW IN THE ORDER LISTED . . . . . FOR DETAILS, GO TO		
1	Obtain Equipment Listed Below: • Voltmeter • Digital Multimeter — ITE 5632 • One of the Following Current Measuring Devices: — AWS Model DSA 2003 Clamp-On Ammeter — *Current Gun** — ITE 6078 (Part of ITE 6077) and MB-2 Adapter — ITE 6080 (Part of ITE 6077)	—
	NOTE 1: The No. 0 AWG wire that connects the battery return bus to the central office ground (COG) is located approximately at midpoint to the group of floors served by the 415B Power Plant. Do not confuse this wire with the No. 2 AWG wire that connects the 415B Power Plant Framework to the COG on the same floor as 415B. **NOTE 2:** If there is more than one Control and DC Distribution Bay, battery return busses within the Control and DC Distribution Bays will be tied together. Only one Control and DC Distribution Bay will have a grounding conductor (No. 0 AWG wire) going from its battery return bus to the COG.	—
2	At the appropriate 415B Power Plant Control and DC Distribution Bay, Remove Panel and Locate No. 0 AWG Wire Connected to Terminal 33 on Battery Return Bus	—
	Note: If there is more than one 415B plant powering a 4ESS electronic switch, there shall be only one No. 1/0 AWG bonding conductor to the COG from the battery return busses.	
3	Verify That Battery Return Bus Is Connected to the COG	DLP-574
4	Measure Current in the +140 V Grounding Conductor Connecting the Battery Return Bus to the Central Office Ground (COG)	DLP-573

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DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	Obtain Equipment Listed Below: • Digital Multimeter – ITE 5632 • MB-2 Adapter – ITE 6080 (Part of ITE 6077) • Fluke Model 801-600 AC Current Transformer – ITE 6079 (Part of ITE 6077)	–
2	Proceed to Equipment Lineup Which Contains Convenience AC Feeders	–
3	Connect Current Transformer to MB-2 Adapter and MB-2 Adapter to Digital Multimeter	–
4	Set Switches on Digital Multimeter to **ACmA** and **1** Positions	–
5	Check Convenience AC Ground Path Integrity for Bay	DLP-575
6	Record Test Results	DLP-500
7	Repeat From Item 2 Until All Lineups Equipped With Convenience AC Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:MC !**	–
2	If Output Message Indicates Out-of-Service Units, Suspend Test Until Unit Is Returned to Service by Installation Force	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
3	Perform XPWR Power Cycle Test	DLP-580
4	Perform IFB Power Cycle Test	DLP-547
5	Record Test Results	DLP-500

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:XTSI!**	—
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	—
3	Select In-Service XTSI Frame To Be Tested	—
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	—
4	Perform Power Cycle Test on XTSI Controllers	DLP-582
5	Perform Power Cycle Test on XTSI IPUBs	DLP-583
6	Perform Power Cycle Test on XTSI ALCs	DLP-584
7	Record Test Results	DLP-500
8	Repeat From Item 3 Until All XTSI Frames Have Been Tested	—

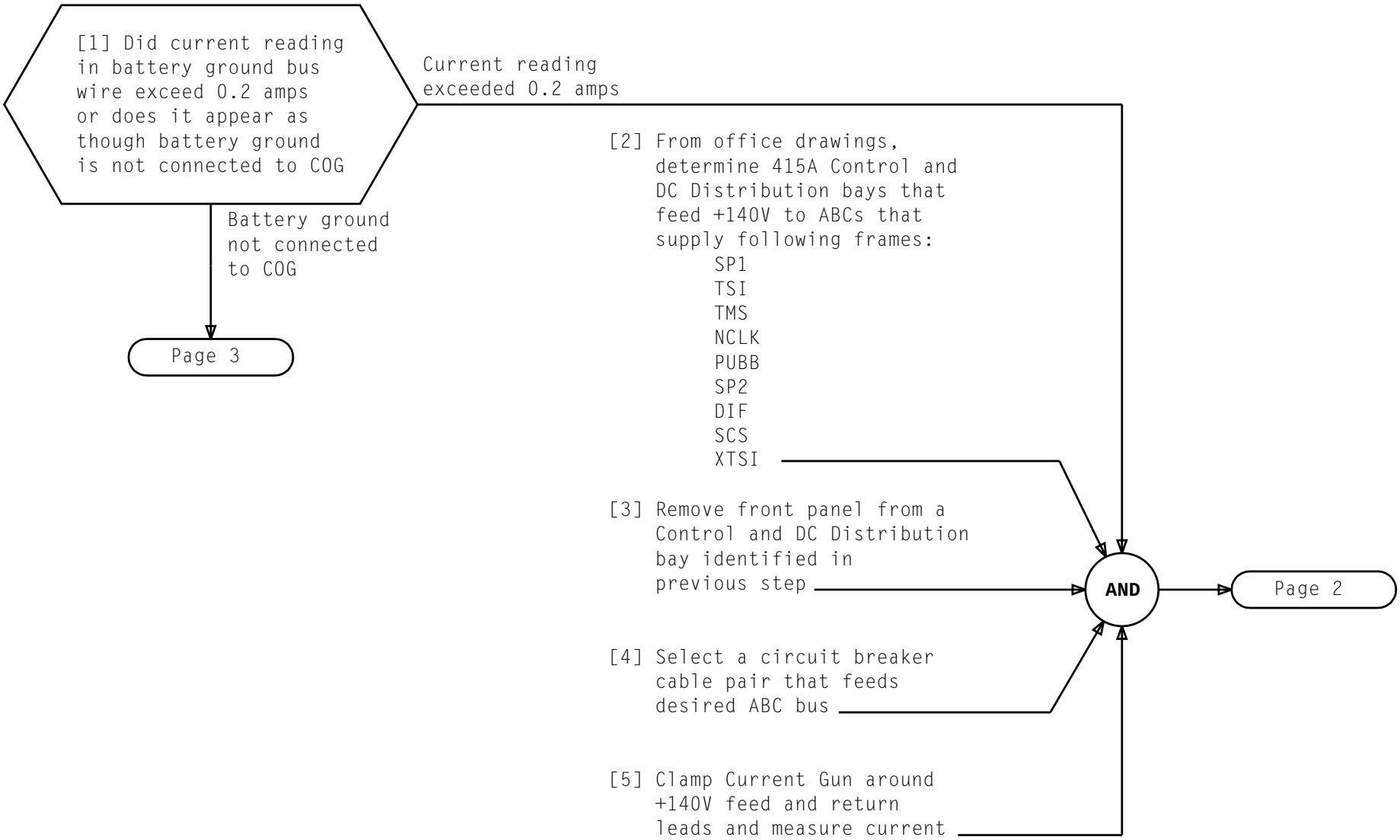
DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:SCS!**	–
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	–
3	Select In-Service SCS Frame To Be Tested	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
4	Perform Power Cycle Test on Service Circuit Controllers	DLP-585
5	Perform Power Cycle Test on Service Circuit Units	DLP-586
6	Perform Power Cycle Test on SCS IPUBs	DLP-587
7	Record Test Results	DLP-500
8	Repeat From Item 3 Until All Frames Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:XTSI!**	–
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	–
3	Select In-Service XTSI Frame To Be Tested	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
4	Perform Fan Alarm Test on XTSI Frame	DLP-592
5	Record Test Results	DLP-500
6	Repeat From Item 3 Until All XTSI Frames Have Been Tested	–

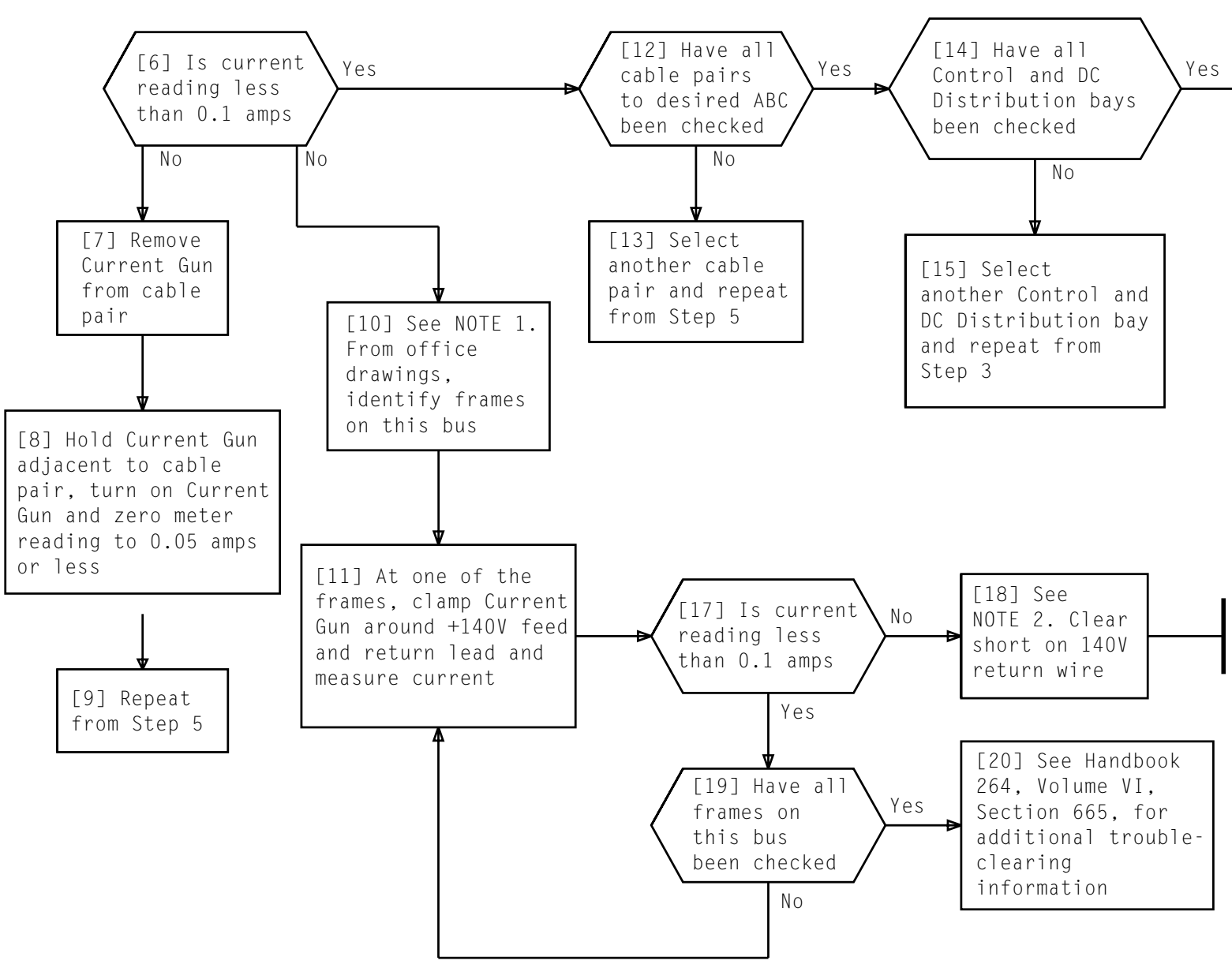
DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:SCS!**	–
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	–
3	Select In-Service SCS Frame To Be Tested	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
4	Perform Fan Alarm Test on Service Circuit Controller Cabinet (SCCC)	DLP-593
5	Perform Fan Alarm Test on Service Circuit Unit Cabinet (SCUC)	DLP-594
6	Record Test Results	DLP-500
7	Repeat From Item 3 Until All SCS Cabinets Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	Select Miscellaneous Frame C To Be Tested	–
	NOTE: If required responses to any of the following procedures are not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	–
2	Perform Power Cycle Test on Frame Alarm Circuits	DLP-611
3	Record Test Results	DLP-500
4	Repeat From Item 1 Until All Miscellaneous Frame Cs Have Been Tested	–

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At MTC Channel, Enter Message **OP:OOSUNITS:CU!**	—
2	If Output Message Indicates Out-of-Service Units, Refer These Units to Installation Force	—
	NOTE: If required responses to the following procedures is not obtained, discontinue test. When troubles have been cleared by installation force, repeat entire procedure.	—
3	Perform Fan Alarm Test on 3B21D Computer	DLP-612
4	Record Test Results	DLP-500



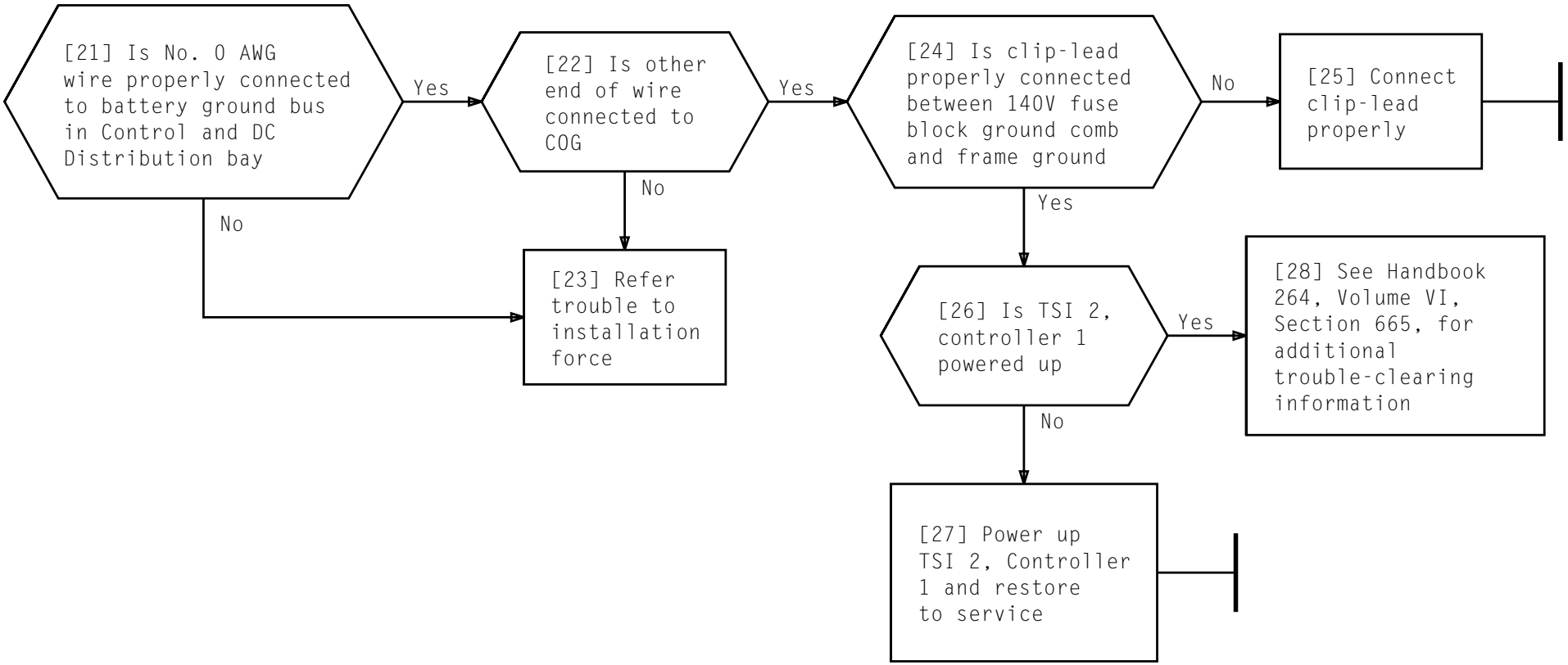
CLEAR GROUND INTEGRITY TEST TROUBLES



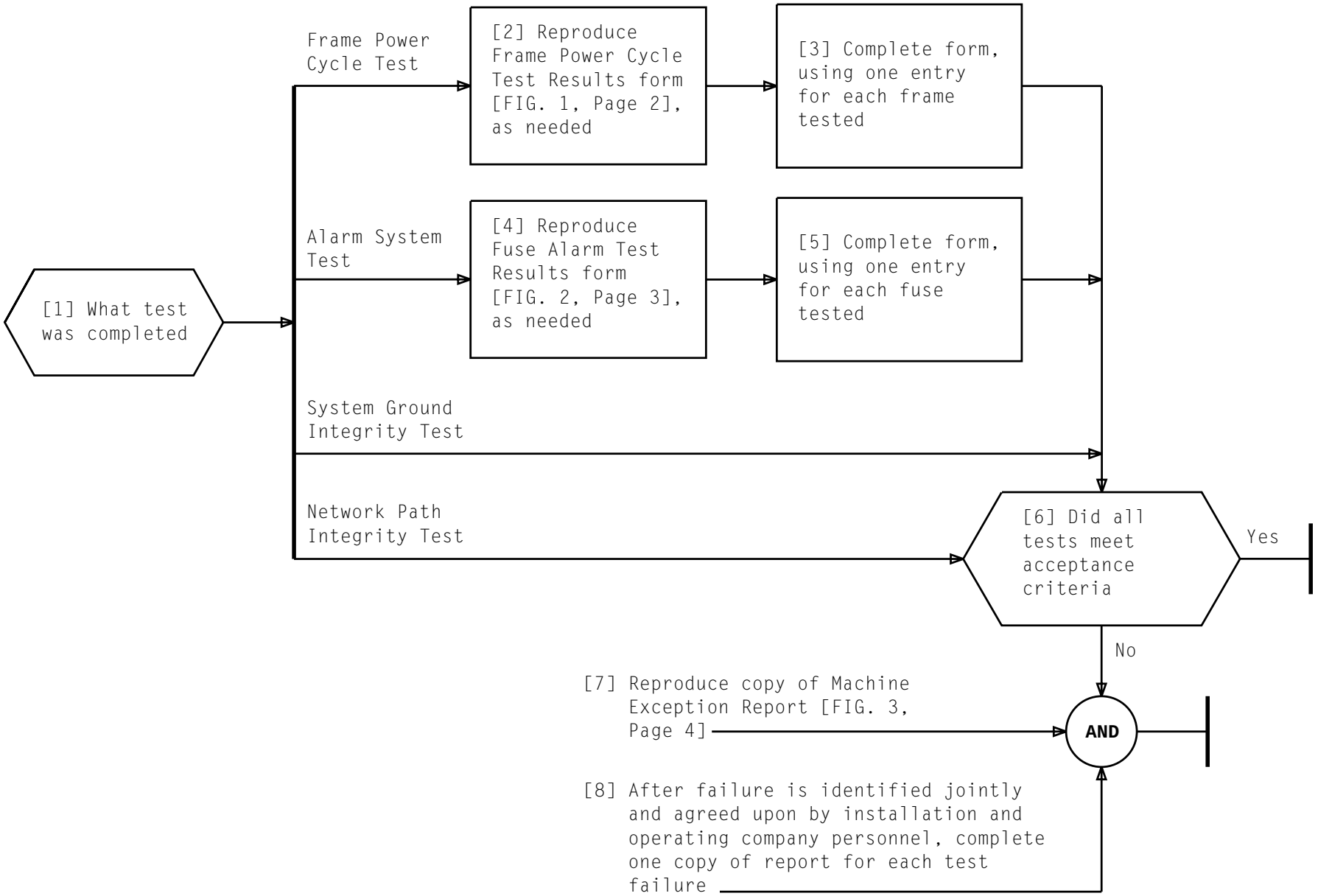
NOTES

1. A current reading greater than 0.1 amps indicates that one of the frames connected to this bus has +140V return to frame ground short.
2. Most likely cause of the short is pinched +140V return wire under the kick plate or under +140V protective plastic cover

CLEAR GROUND INTEGRITY TEST TROUBLES



CLEAR GROUND INTEGRITY TEST TROUBLES



RECORD TEST RESULTS

FRAME POWER CYCLE TEST RESULTS					
FRAME TYPE (CC, PS, TSI, e.g.)	MEMBER NUMBER	DATE TESTED	INITIALS		COMMENTS
			TELCO	AT&T	

FIG. 1 — Frame Power Cycle Test Results Form

RECORD TEST RESULTS

FUSE ALARM TEST RESULTS									
GRID	LINEUP	TYPE ALARM (MJ, MN)	FRAME TYPE & NUMBER (PS 2, TSI 16, etc.)	UNIT & NUMBER (CONTR 0, BUS 1, etc.)	FUSE	DATE TESTED	INITIALS		COMMENTS
							TELCO	AT&T	

FIG. 2 – Fuse Alarm Test Results Form

RECORD TEST RESULTS

MACHINE EXCEPTION REPORT

ITEM NO: _____

1. ACCEPTANCE CRITERION NOT MET: _____

_____

2. NATURE OF FAILURE OR REASON FOR EXCEPTION: _____

_____

3. CORRECTIVE ACTION REQUIRED: _____

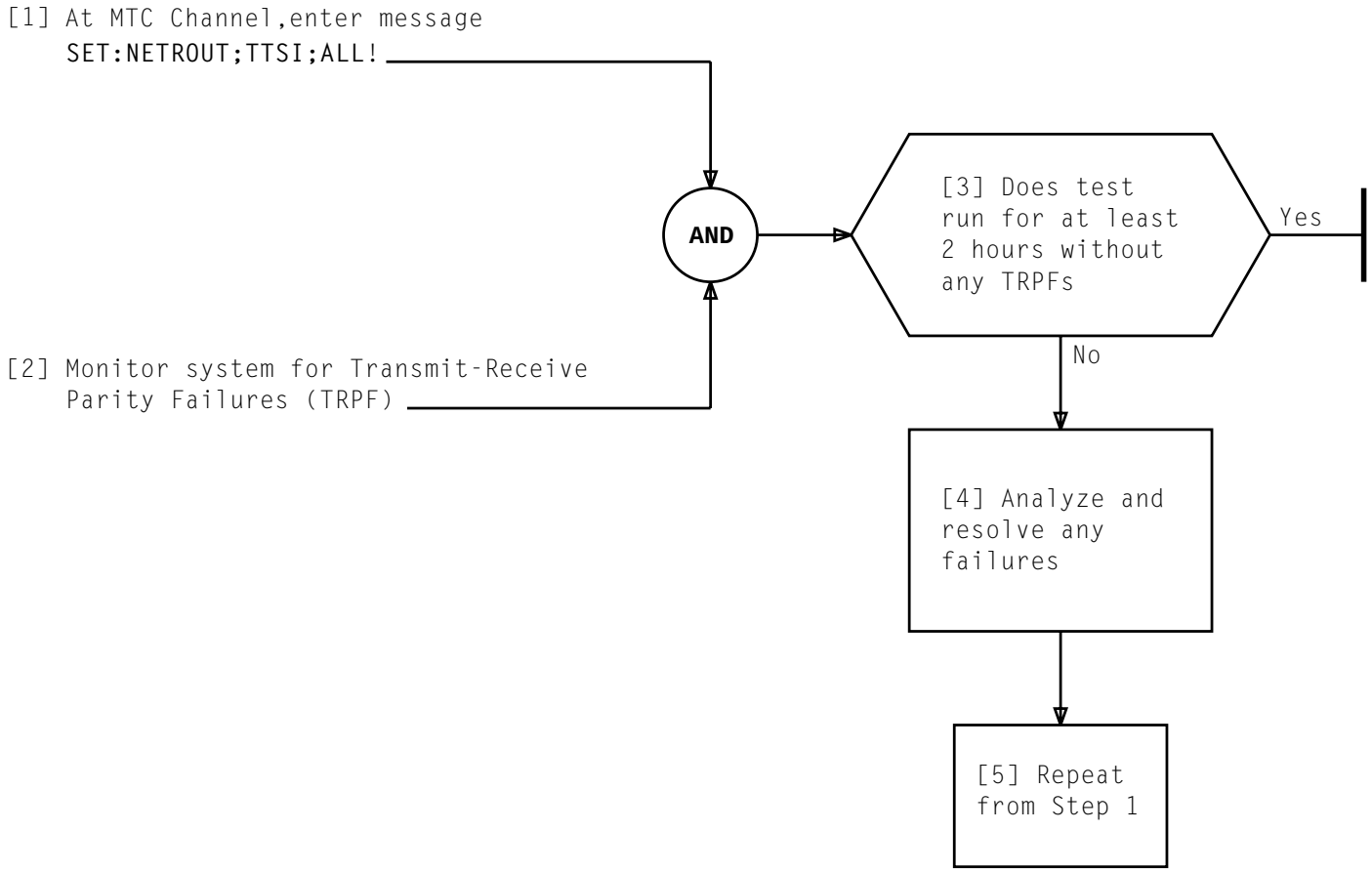
_____

4. RESPONSIBILITY FOR CORRECTIVE ACTION: _____

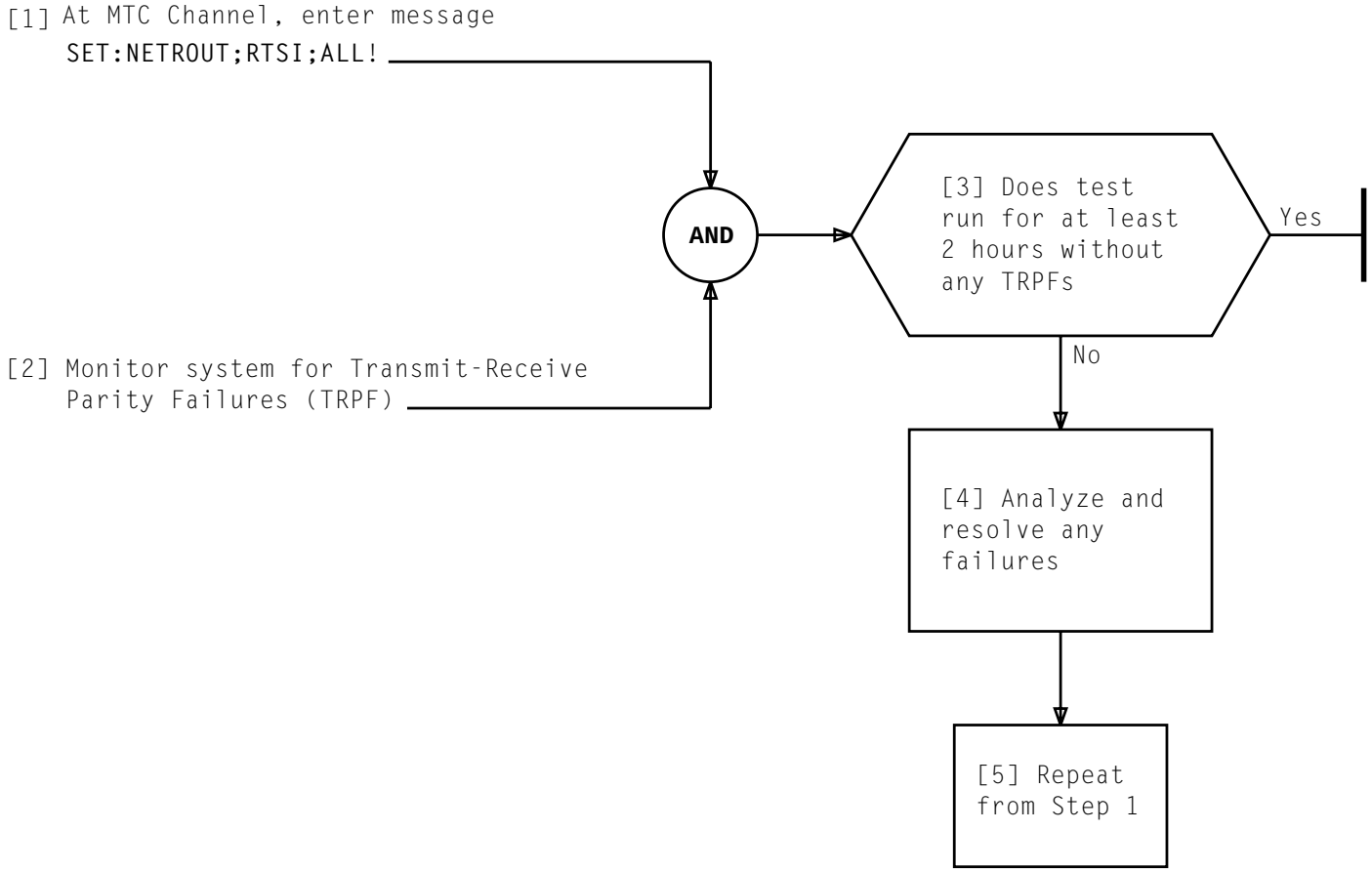
NAME _____ ORGANIZATION _____

5. CORRECTION TO BE COMPLETED: _____

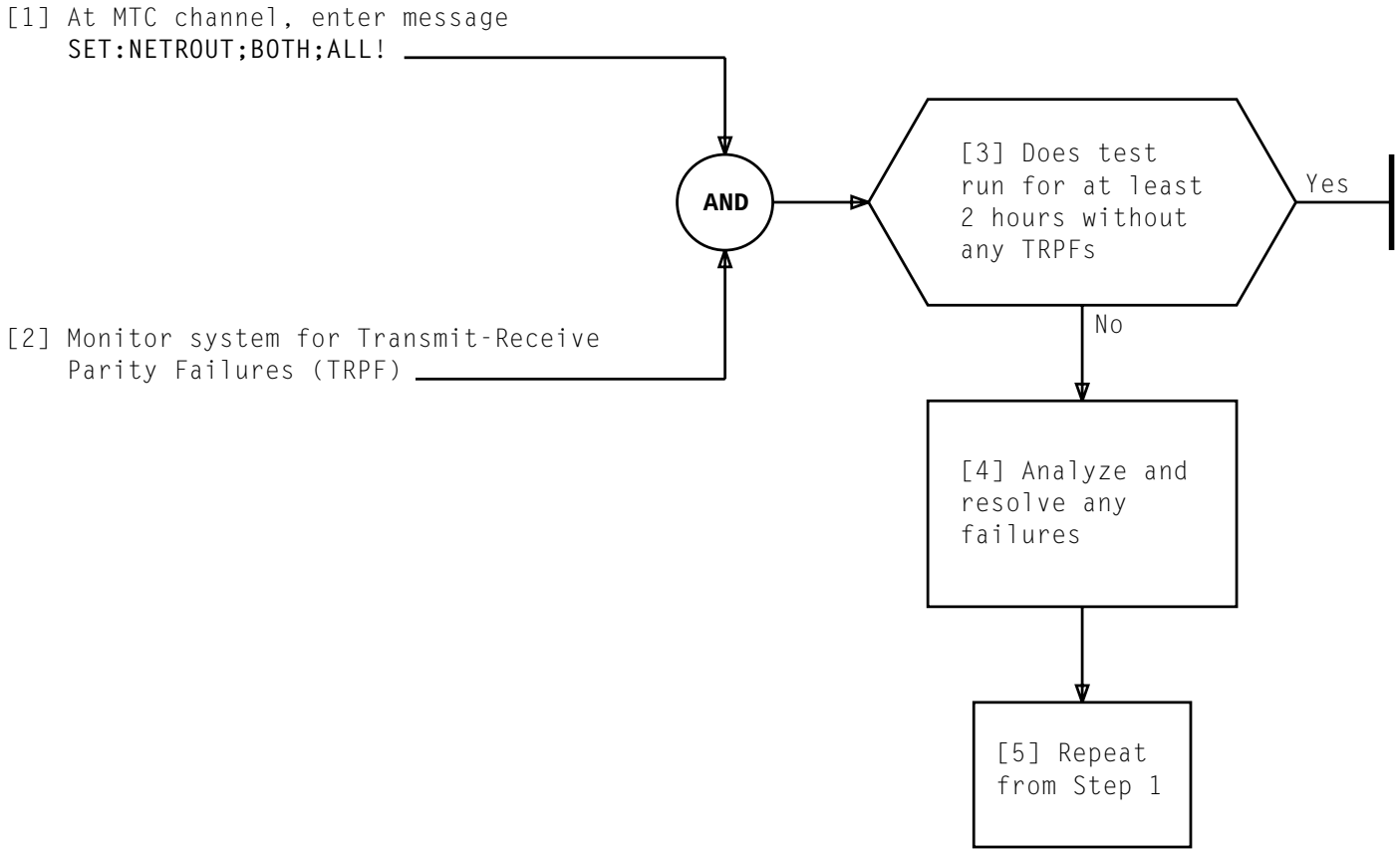
FIG. 3 – Machine Exception Report Form



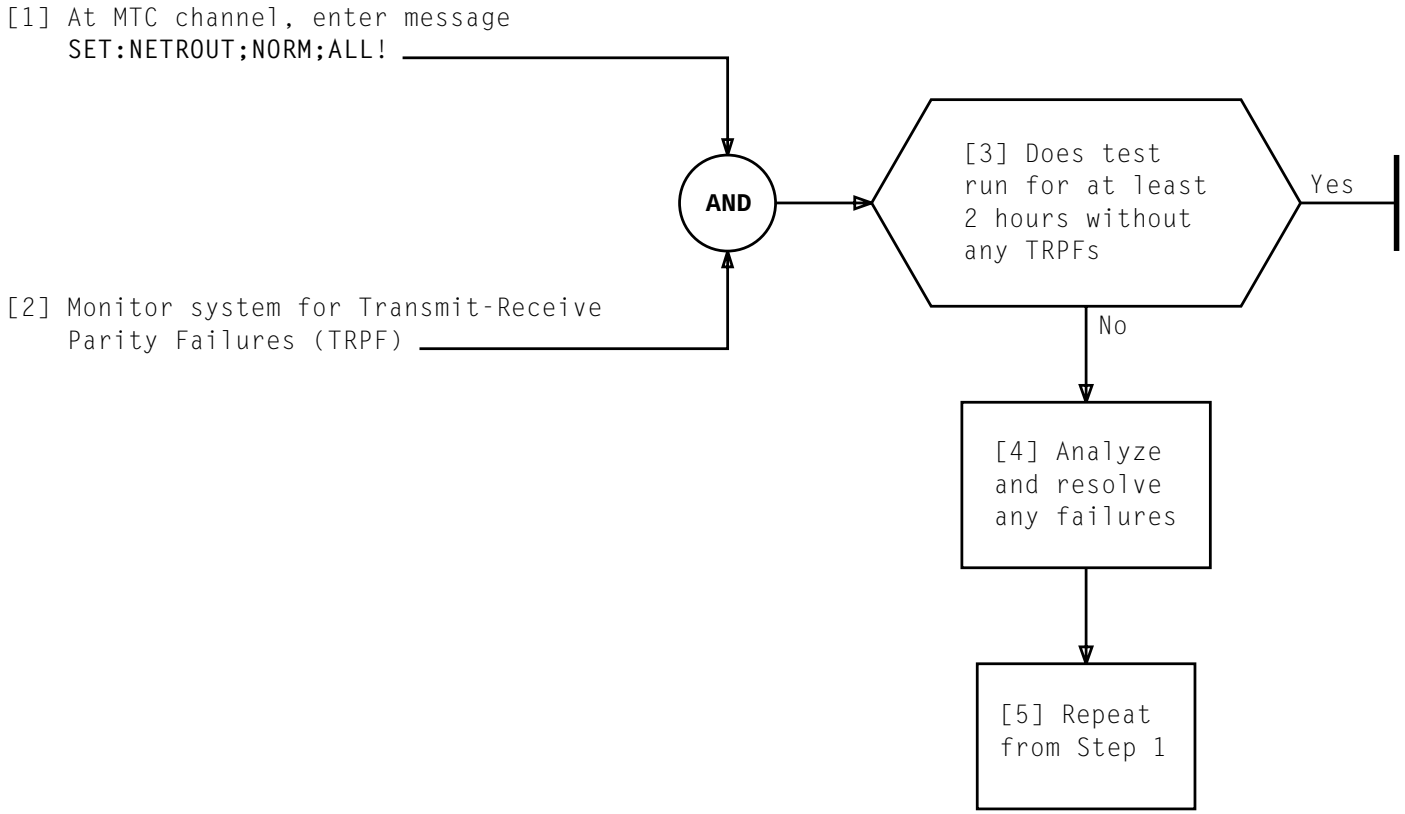
RUN FIRST STAGE OF CROSS-LINK TESTING



RUN SECOND STAGE OF CROSS-LINK TESTING



RUN THIRD STAGE OF CROSS-LINK TESTING



RETURN SYSTEM TO STANDARD NETWORK CONFIGURATION

[1] Ensure that 1/4 amp fuse (**70F**), is inserted in front of ITE-5590A Fuse Alarm Tool

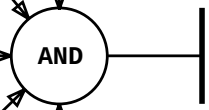
At fuse to be alarmed:

[2] See WARNING 1. Insert small insulated tube on end of Fuse Alarm Tool over colored plastic blown fuse indicator in center of fuse holder

[3] See NOTE 1. Using slight inward pressure rotate Fuse Alarm Tool until tab alongside insulated tube drops into cutout in fuse cap that exposes fuse alarm contact

[4] If alarm is not activated, rock Fuse Alarm Tool in vertical direction until alarm sounds

[5] After alarm has been activated remove tool by pulling straight out



NOTE 1

Cutouts for top row of fuse holders are normally at 12 o'clock position and at 6 o'clock position for bottom row of fuses

WARNING 1

The Fuse Alarm Tool could jam on plastic tab and break the fuse if it is cocked at an angle when being inserted

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ACTIVATE FUSE ALARM USING ITE-5590A FUSE ALARM TOOL

TABLE A

ALARM FUSE SELECTION

1B PROCESSOR CABINET	POWER SWITCH			MAJOR ALARM FUSES			MINOR ALARM FUSES		
	NAME	LOCATION		LOCATION		MARKING	LOCATION		MARKING
		VERT	HORIZ	VERT	HORIZ		VERT	HORIZ	
Central Control (CC)	**CC**	22	18	22	44	**+24V 1 (–48 PM1)**			
Call Store/ Program Store	**CS 00/08**	50	28	47	28	**F1** and **F2**			
	CS 01/09	60	28	57	28	**F1** and **F2**			
	CS 02/10	70	28	67	28	**F1** and **F2**			
	CS 03/11	80	28	77	28	**F1** and **F2**			
	CS 04/12	80	128	77	128	**F1** and **F2**			
	CS 05/13	70	128	67	128	**F1** and **F2**			
	CS 06/14	60	128	57	128	**F1** and **F2**			
	CS 07/15	50	128	47	128	**F1** and **F2**			
	PS 00/06	33	28	30	28	**F1** and **F2**			
	PS 01/07	23	28	20	28	**F1** and **F2**			
	PS 02/08	13	28	10	28	**F1** and **F2**			
	PS 03/09	13	128	10	128	**F1** and **F2**			
	PS 04/10	23	128	20	128	**F1** and **F2**			
	PS 05/11	33	128	30	128	**F1** and **F2**			
Attached Processor Interface (API)	**API**	64	78	57	104	**–48VF2**			

SELECT ALARM FUSES FOR FUSE ALARM TEST

TABLE A (Contd)
ALARM FUSE SELECTION

1B PROCESSOR CABINET	POWER SWITCH			MAJOR ALARM FUSES			MINOR ALARM FUSES		
	NAME	LOCATION		LOCATION		MARKING	LOCATION		MARKING
		VERT	HORIZ	VERT	HORIZ		VERT	HORIZ	
Input/Output Processor (IOP)	**IOP 0**	68	24	68	28	**–48P F1.1**			
	IOP 1	38	24	38	28	**–48P F1.1**			
	IOP BUS 0	80	13	80	9	**+24-2**			
	IOP BUS 1	76	13	76	9	**+24-2**			
Time Slot Interchange (TSI)	**CONTR 0**	044	37	007	53	**+24V VM**	008	48	**+24V V1C**
	CONTR 1	144	37	107	53	**+24V VM**	108	48	**+24V V1C**
	IPUB 0	080	65	007	43	**+24V BP**	008	43	**+24V BL**
	IPUB 1	180	65	107	43	**+24V BP**	108	43	**+24V BL**
	ALC 0	072	03	007	54	**+24V ALCP**	008	54	**+24V ALCL**
	ALC 1	172	03	107	54	**+24V ALCP**	108	54	**+24V ALCL**
Time Multiplexed Switch (TMS)	**CONTR 0**	044	38	007	43	**+24V C0A**	007	53	**+24V L0A**
	CONTR 1	144	38	107	43	**+24V C1A**	107	53	**+24V L1A**
Digital Interface Frame Export 1 Domestic (DIF-E1)	**CONT 0 SW**	160	007	108	043	**F3A**	107	31	**F1A**
	CONT 1 SW	160	275	108	169	**F3B**	107	163	**F1B**
	PUB 0 SW	176	049			**F5A**			**F4A**
	PUB 1 SW	176	198			**F5B**			**F4B**
Expanded TSI (XTSI) Frame	**CONT 0**	052	066	069	008	**CONTR0C**			
	CONT 1	061	066	069	110	**CONTR1C**			
	IPUB 0	052	188	069	056	**IPUB0**			
	IPUB 1	061	188	069	158	**IPUB1**			
	ALC 0	052	014	069	040	**ALC0**			
	ALC 1	061	014	069	142	**ALC1**			
Service Circuit Unit Cabinet (SCUC) Fan Alarm				069	023	**FAN**			
				069	150	**FAN**			
				069	050	**FAN**			
Expanded TSI (XTSI) Frame Fan Alarm				069	064	**FAN B**			
				069	174	**FAN C**			
				069	048	**FAN E**			
				069	166	**FAN F**			
				069	072	**FAN G**			

SELECT ALARM FUSES FOR FUSE ALARM TEST

TABLE A (Contd)

ALARM FUSE SELECTION

1B PROCESSOR CABINET	POWER SWITCH			MAJOR ALARM FUSES			MINOR ALARM FUSES		
	NAME	LOCATION		LOCATION		MARKING	LOCATION		MARKING
		VERT	HORIZ	VERT	HORIZ		VERT	HORIZ	
Service Circuit Controller Cabinet (SCCC)	**CONTR 0**	045	008	069	014	**SCC 0**			
	CONTR 1	053	008	069	159	**SCC1**			
	IPUB 0	045	176	069	032	**IPUB 0**			
	IPUB 1	053	176	069	177	**IPUB 1**			
	SCU 0	036	008	069	050	**SCU 0**			
	HDU-DPC	011	016	069	014	**HDUOA**			
	HDU-DPC	011	176	069	014	**HDUOB**			
Service Circuit Unit Cabinet (SCUC)	**SCU 1,5,9,13**	036	008	069	118	**SCU**			
	SCU 2,6,10,14	045	008	069	014	**SCU**			
	SCU 3,7,11,15	053	008	069	141	**SCU**			
	SCU 4,8,12	062	008	069	041	**SCU**			
	HDU-DPC N	011	016	069	014	**HDU**			
	HDU-DPC N+1	011	176	069	041	**HDU**			
	HDU-DPC N+2	019	016	069	118	**HDU**			
	HDU-DPC N+3	019	176	069	141	**HDU**			
Service Circuit Controller Cabinet (SCCC) Fan Alarm				069	059	**FAN**			
				069	168	**FAN**			
				069	091	**FAN**			

TABLE A (Contd)

ALARM FUSE SELECTION

1B PROCESSOR CABINET	POWER SWITCH			MAJOR ALARM FUSES			MINOR ALARM FUSES		
	NAME	LOCATION		LOCATION		MARKING	LOCATION		MARKING
		VERT	HORIZ	VERT	HORIZ		VERT	HORIZ	
Network Clock (NCLK)	**CHAIN 0**	066	3	008	18	**+24V AB**	007	18	**+24V LA**
	CHAIN 1	066	69	008	53	**+24V CB**	007	53	**+24V LB**
	CHAIN 2	166	3	108	18	**+24V AB**	107	18	**+24V LA**
	CHAIN 3	166	69	108	53	**+24V CB**	107	53	**+24V LB**
System Clock and Control Unit	**CONTR 0**	056	69	010	52	**+24V AA2**	009	53	**+24V L2**
	CONTR 1	156	69	110	52	**+24V AA2**	109	53	**+24V L2**
Peripheral Unit Bus Branching (PUBB)	**PUB 0**	056	42	008	26	**+24V MK**	008	17	**+24V MM**
	PUB 1	156	42	108	26	**+24V MK**	108	17	**+24V MM**
Signal Processor 1 (SP1)	**IPUB 0**	280	43	208	36	**+24V 0EC**	206	38	**+24V 0EB**
	IPUB 1	380	43	308	36	**+24V 1EC**	306	38	**+24V 1EB**
	CONTR 0	248	2	208	18	**+24V 0CA**	206	20	**+24V 0MC**
	CONTR 1	348	2	308	18	**+24V 1CA**	306	20	**+24V 1MC**
Supplementary Matrix Frame		52	69	08	46	**+24V ST**	06	46	**+24V FAT**

SELECT ALARM FUSES FOR FUSE ALARM TEST

TABLE A (Contd)

ALARM FUSE SELECTIONS

1BPROCESSOR CABINET	POWER SWITCH			MAJOR ALARM FUSES			MINOR ALARM FUSES		
	NAME	LOCATION		LOCATION		MARKING	LOCATION		MARKING
		VERT	HORIZ	VERT	HORIZ		VERT	HORIZ	
Miscellaneous A	**MA 0**	45	36	007	36	**+24V PS**			
	CCT 0	48	35	008	35	**+24V MA**			
	CCT 1	52	35	007	35	**+24V MB**			
	CCT 2	56	35	008	34	**+24V MC**			
	CCT 3	60	35	007	34	**+24V MD**			
Miscellaneous B	**MB 0**	46	36	008	36	**+24V PS**			
3B Computer Control Unit (CU)	**CONTR 0**	028	60						
	CONTR 1	053	60						
	TN1821								
3B Computer Peripheral Control (PC) IOP Basic Unit	**IOP 0**	019	080						
	IOP 1	045	080						
	TN1821								
3B Computer PC Disk File Controller (DFC)	**DFC 0**	028	178						
	DFC 1	053	178						
	UN580B								

TABLE A (Contd)

ALARM FUSE SELECTION

1B PROCESSOR CABINET	POWER SWITCH			MAJOR ALARM FUSES			MINOR ALARM FUSES		
	NAME	LOCATION		LOCATION		MARKING	LOCATION		MARKING
		VERT	HORIZ	VERT	HORIZ		VERT	HORIZ	
Remote Measurement System — D2 (RMS-D2)	None			60	12	**POWER UNIT A**	60	4	**FAN 1**
Common Network Interface (CNI)	None			69	4	**M00**	69	4	**ALP**
Digital Facility Access (DFA) Frame	None			08	20	**M0**			

SELECT ALARM FUSES FOR FUSE ALARM TEST

1. At selected fuse, perform Steps 1 through 18 in TABLE A.
Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse position.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES					Bezel LEDs			MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		POWER SWITCH LAMPS									
		OFF	PA	OS	ACK	-48 FA	-48	+24	PA		
1	Observe initial conditions on KLW11 (41-014)	Off	Off	Off	Off	Off	Off	Off	Off	Off	None
2	At MTC terminal; enter message **RMV:CC a!** to to remove standby CC from service (a=stbyCC). At KLW11 (41-014) after the OS lamp lights, depress **OFF** switch (where CC a is CC being tested)	*On*	Off	*On*	Off	Off	Off	Off	Off	Off	RMV:CC a COMPLETED REPT: MAN PWR RMVD CC a
3	Unseat the following circuit packs: UN339 (70-014) UN339 (70-030) UN340 (70-038) UN340 (70-062) UN339 (70-070) UN339 (70-086) KLW12 (58-014) KLW11 (41-014) KLW3 (41-104) KLW4 (41-112) KLW22 (41-120)	*Off*	Off	*Off*	Off	Off	Off	Off	Off	Off	
4	At fuse card 006, position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*On*	Off	Off	*On*	REPT: MJ ALM MOC GRID 1
5	Replace fuses	Off	Off	Off	Off	Off	Off	Off	Off	Off	RTR: MJ ALM MOC GRID 1 COMP
6	At fuse card 011, position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*On*	Off	Off	On	REPT: MJ ALM MOC GRID 1
7	Replace fuses	Off	Off	Off	Off	Off	Off	Off	Off	Off	RTR: MJ ALM MOC GRID 1 COMP
8	At fuse card 016, position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*ON*	Off	Off	*On*	REPT: MJ ALM MOC GRID 1
9	Replace fuses	Off	Off	Off	Off	Off	Off	Off	Off	Off	RTR: MJ ALM MOC GRID 1 COMP

TEST CC FUSE ALARM

TABLE A (Contd)											
STEPS	ACTION	REQUIRED RESPONSES					Bezel LEDs			MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		POWER SWITCH LAMPS									
		OFF	PA	OS	ACK	-48 FA	-48	+24	PA		
10	At fuse card 136, position C, remove fuse and insert test fuse	Off	Off	Off	Off	Off	Off	*On*	Off	On	REPT: MJ ALM MOC GRID 1
11	At fuse card 136, position D, remove fuse and insert test fuse	Off	Off	Off	Off	Off	Off	*On*	Off	On	
12	Replace fuse at fuse card 136, positon C and D	Off	Off	Off	Off	Off	Off	Off	Off	Off	RTR: MJ ALM MOC GRID 1 COMP
13	At fuse card 141, position C, remove fuse and insert test fuse	Off	Off	Off	Off	Off	Off	*On*	Off	On	REPT: MJ ALM MOC GRID 1
14	At fuse card 141, position D, remove fuse and insert test fuse	Off	Off	Off	Off	Off	Off	*On*	Off	On	
15	Replace fuse at fuse card 141, position C and D	Off	Off	Off	Off	Off	Off	Off	Off	Off	RTR: MJ ALM MOC GRID 1 COMP
16	Reseat all circuit packs	Off	Off	Off	Off	Off	Off	Off	Off	Off	
17	At KLW11 (41-014); depress **OFF** pushbutton, then **ON** pushbutton	*Off*	Off	On	Off	Off	*Off*	*Off*	Off	Off	RST: PWR RSTD CC a
18	At MTC terminal; enter message RST:CC a!	Off	Off	Off	Off	Off	Off	Off	Off	Off	RST: CC a COMPLETED

TEST CC FUSE ALARM

1. Perform Steps 1 through 10 in TABLE A for CS 0, circuit pack KLW1 at 24-006. Refer to Table B for the other circuit packs and fuse numbers, and perform Steps 1 through 10 for CS 1 through CS 39.

Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse position.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions starting at CSOA and CSOB (See Table B)	Off	Off	Off	Off	Off	None	Off	
2	At MTC terminal; enter message **RMV:CS a!** to remove **CS a** from service (where a = CS removed per Table B)	Off	Off	*On*	Off	Off	None	Off	RMV CS a COMPLETED
3	At fuse position A per Table B, insert test fuse	Off	Off	On	Off	Off	-48	*On*	REPT: MJ ALM MOC GRID 1
4	At fuse position B per Table B, insert test fuse	Off	Off	On	Off	*On*	-48 + PA	On	REPT: PA CS a FRM: 1B PROC BAY a
5	Use same KLW1 as selected in Step 1. Depress **Off** button at KLW1	*Off*	Off	*On*	*Off*	*On*	-48 + PA	On	
6	Unseat KLW1	*Off*	Off	*Off*	Off	Off	-48	On	
7	Replace fuse removed in Steps 3 and 4	Off	Off	Off	Off	Off	None	*Off*	
8	Reseat KLW1	*On*	Off	*On*	Off	Off	None	Off	
9	Press the **On** button at reseated KLW1	*Off*	Off	*On*	*On* then *Off*	Off	None	Off	REPT: PWR RSTD CSa FRM: 1B PROC BAY a
10	At MTC terminal; enter message **RST:CS a!** to restore each CS to service	Off	Off	*Off*	Off	Off	None	Off	RST CS a COMPLETED

TEST CS MAJOR FUSE ALARM

Table B					
Unit	Power Control CP	Bay	Equipment Location	Fuse	
				A	B
CS0A and CS0B	KLW1	0 and 1	024-006	081-086A	081-111A
CS1A and CS1B	KLW1	0 and 1	124-006	181-086A	181-111A
CS2A and CS2B	KLW1	0 and 1	024-176	081-106B	081-131B
CS3A and CS3B	KLW1	0 and 1	124-176	181-106B	181-131B
CS4A and CS4B	KLW1	0 and 1	024-014	081-086B	081-111B
CS5A and CS5B	KLW1	0 and 1	124-014	181-086B	181-111B
CS6A and CS6B	KLW1	0 and 1	024-168	081-106A	081-131A
CS7A and CS7B	KLW1	0 and 1	124-168	181-106A	181-131A
CS8A and CS8B	KLW1	0 and 1	024-022	081-086C	081-111C
CS9A and CS9B	KLW1	0 and 1	124-022	181-086C	181-111C
CS10A and CS10B	KLW1	0 and 1	124-160	081-101E	081-126E
CS11A and CS11B	KLW1	0 and 1	024-160	181-101E	181-126E
CS12A and CS12B	KLW1	0 and 1	024-030	081-086D	081-111D
CS13A and CS13B	KLW1	0 and 1	124-030	181-086D	181-111D
CS14A and CS14B	KLW1	0 and 1	024-152	081-101D	081-126D
CS15A and CS15B	KLW1	0 and 1	124-152	181-101D	181-126D
CS16A and CS16B	KLW1	0 and 1	024-038	081-086E	081-111E
CS17A and CS17B	KLW1	0 and 1	124-038	181-086E	181-111E
CS18A and CS18B	KLW1	0 and 1	024-144	081-101C	081-126C
CS19A and CS19B	KLW1	0 and 1	124-144	181-101C	181-126C

TEST CS MAJOR FUSE ALARM

Table B (Contd.)					
Unit	Power Control CP	Bay	Equipment Location	Fuse	
				A	B
CS20A and CS20B	KLW1	0 and 1	024-046	081-091A	081-116A
CS21A and CS21B	KLW1	0 and 1	124-046	181-091A	181-116A
CS22A and CS22B	KLW1	0 and 1	024-136	081-101B	081-126B
CS23A and CS23B	KLW1	0 and 1	124-136	181-101B	181-126B
CS24A and CS24B	KLW1	0 and 1	024-054	081-091B	081-116B
CS25A and CS25B	KLW1	0 and 1	124-054	181-091B	181-116B
CS26A and CS26B	KLW1	0 and 1	024-128	081-101A	081-126A
CS27A and CS27B	KLW1	0 and 1	124-128	181-101A	181-126A
CS28A and CS28B	KLW1	0 and 1	024-062	081-091C	081-116C
CS29A and CS29B	KLW1	0 and 1	124-062	181-091C	181-116C
CS30A and CS30B	KLW1	0 and 1	124-120	081-096E	081-121E
CS31A and CS31B	KLW1	0 and 1	024-120	181-096E	181-121E
CS32A and CS32B	KLW1	0 and 1	024-070	081-091D	081-116D
CS33A and CS33B	KLW1	0 and 1	124-070	181-091D	181-116D
CS34A and CS34B	KLW1	0 and 1	024-112	081-096D	081-121D
CS35A and CS35B	KLW1	0 and 1	124-112	181-096D	181-121D
CS36A and CS36B	KLW1	0 and 1	024-078	081-091E	081-116E
CS37A and CS37B	KLW1	0 and 1	124-078	181-091E	181-116E
CS38A and CS38B	KLW1	0 and 1	024-104	081-096C	081-121C
CS39A and CS39B	KLW1	0 and 1	124-104	181-096C	181-121C

TEST CS MAJOR FUSE ALARM

1. At power switch, perform Steps 1 through 6 in TABLE A on side 0 of the 1B processor, then side 1.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions of KLW23 (58-030)	Off	Off	Off	Off	Off	Off	Off	None
2	At MTC terminal; enter message **RMV:XPWR a!** to remove XPWR from service. At KLW23 (58-030) after the OS lamp lights, depress **OFF** switch (where a = XPWR being tested)	*On*	Off	*On*	*Off*	Off	Off	Off	RMV XPWR a COMPLETED REPT: MAN PWR RMVD XPWR a RMV: XPWR a COMP
3	At fuse card 021, position A, insert test fuse	*On*	Off	*On*	Off	*On*	*On*	*On*	REPT: MJ ALM MOC GRID 1
4	Replace fuse	*On*	Off	*On*	Off	*Off*	Off	Off	RTR: MJ ALM MOC GRID 1 COMP
5	At KLW23, depress **ON** button (See Note 1)	*Off*	Off	On	Off	*On* then *Off*	Off	Off	REPT: PWR RSTD XPWR a
6	At MTC terminal; enter message **RST:XPWR a!**	Off	Off	*Off*	Off	Off	Off	Off	RST XPWR a Completed

NOTE 1

If manual remove of unit was done, OS lamp will flash on pack until RST:XPWR a at MCC

TEST MISCELLANEOUS POWER (XPWR) FUSE ALARM

1. Perform Steps 1 through 10 in TABLE A for PS 0, circuit pack KLW2 at 041-128. Refer to Table B for the other circuit packs and fuse numbers, and perform Steps 1 through 10 for all equipped program stores.

Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse position.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions starting at PSOA and PSOB (See Table B)	Off	Off	Off	Off	Off	None	Off	
2	At MTC terminal; enter message **RMV:PS a!** to remove **PS a** from service (where a = PS removed per Table B)	Off	Off	*On*	Off	Off	None	Off	RMV PS a COMPLETED
3	At fuse position A per Table B, insert test fuse	Off	Off	On	Off	Off	-48	*On*	REPT: MJ ALM MOC GRID 1
4	At fuse position B per Table B, insert test fuse	Off	Off	On	Off	*On*	-48 + PA	On	REPT: PA PS a FRM: 1B PROC BAY a
5	Use same KLW2 as selected in Step 1. Depress **Off** button at KLW2	*Off*	Off	*On*	*Off*	*On*	-48 + PA	On	
6	Unseat KLW2	*Off*	Off	*Off*	Off	Off	-48	On	
7	Replace fuse removed in Steps 3 and 4	Off	Off	Off	Off	Off	None	*Off*	
8	Reseat KLW2	*On*	Off	*On*	Off	Off	None	Off	
9	Press the **On** button at reseated KLW2	*Off*	Off	*On*	*On* then *Off*	Off	None	Off	REPT: PWR RSTD PSa FRM: 1B PROC BAY a
10	At MTC terminal; enter message **RST:PS a!** to restore each PS to service	Off	Off	*Off*	Off	Off	None	Off	RST PS a COMPLETED

TEST PS MAJOR FUSE ALARM

Table B					
Unit	Power Control CP	Bay	Equipment Location	Fuse	
				A	B
PS0A and PS0B	KLW2	0 and 1	041-128	081-046A	081-066A
PS1A and PS1B	KLW2	0 and 1	141-128	181-046A	181-066A
PS2A and PS2B	KLW2	0 and 1	041-136	081-046B	081-066B
PS3A and PS3B	KLW2	0 and 1	141-136	181-046B	181-066B
PS4A and PS4B	KLW2	0 and 1	041-144	081-046C	081-066C
PS5A and PS5B	KLW2	0 and 1	141-144	181-046C	181-066C
PS6A and PS6B	KLW2	0 and 1	041-152	081-046D	081-066D
PS7A and PS7B	KLW2	0 and 1	141-152	181-046D	181-066D
PS8A and PS8B	KLW2	0 and 1	041-160	081-046E	081-066E
PS9A and PS9B	KLW2	0 and 1	141-160	181-046E	181-066E
PS10A and PS10B	KLW2	0 and 1	041-168	081-051A	081-071A
PS11A and PS11B	KLW2	0 and 1	141-168	181-051A	181-071A
PS12A and PS12B	KLW2	0 and 1	041-176	081-051B	081-071B
PS13A and PS13B	KLW2	0 and 1	141-176	181-051B	181-071B

TEST PS MAJOR FUSE ALARM

1. At selected fuse card, perform Steps 1 through 13 in TABLE A

Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse panel.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	None
2	At fuse card 026, fuse position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*-48*	*On*	
3	Replace fuse	Off	Off	Off	Off	Off	*Off*	*Off*	None
4	At fuse card 031, fuse position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*-48*	*On*	
5	Replace fuse	Off	Off	Off	Off	Off	*Off*	*Off*	None
6	At fuse card 036, fuse position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*-48*	*On*	
7	Replace fuse	Off	Off	Off	Off	Off	*Off*	*Off*	None
8	At fuse card 041, fuse position A, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*-48*	*On*	
9	Replace fuse	Off	Off	Off	Off	Off	*Off*	*Off*	None
10	At fuse card 026, fuse position D, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*-48*	*On*	
11	Replace fuse	Off	Off	Off	Off	Off	*Off*	*Off*	None
12	At fuse card 036, fuse position D, remove fuse and insert test fuse	Off	Off	Off	Off	Off	*-48*	*On*	
13	Replace fuse	Off	Off	Off	Off	Off	*Off*	*Off*	None

TEST FAN FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACT	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:API a COMPLETED a = API member number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA API a RMV:API a COMPLETED REPT:MJ ALM b GRID c b = Work center name c = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD API a RMV:API a COMPLETED RTR:MJ ALM b GRID c COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD API a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:API a COMPLETED ATP RST:API a COMPLETED

TEST API MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:IOUS a COMPLETED a = Member number of IOUS
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA IOUS a RMV:IOUS a COMPLETED REPT:MJ ALM b GRID c b = Work center name c = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS**/**OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD IOUS a FRM:IO d d = Frame number RMV:IOUS a COMPLETED RTR:MJ ALM b GRID c COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD IOUS a FRM:IO d
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:IOUS a COMPLETED CATP RST:IOUS a COMPLETED DGN:IOUS a IOMP 0 COMPLETED ATP RST:IOUS a IOMP 0 COMPLETED DGN:IOUS a IOMP 1 COMPLETED ATP RST:IOUS a IOMP 1 COMPLETED

TEST IOP MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform
   Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:IOUS a IPUB b COMPLETED RMV:IOUS a IPUB b COMPLETED a = IOUS member number b = IOP bus number (0 or 1)
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA IOUS a, IPUB b FRM:IO e FLN f e = IO frame number f = Frame location number RMV:IOUS a IPUB b COMPLETED RMV:IOUS a IPUB b COMPLETED REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS**/**OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD IOUS a, IPUB b FRM:IO e RMV:IOUS a IPUB b COMPLETED RMV:IOUS a IPUB b COMPLETED RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD IOUS a, IPUB b FRM:IO e
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:IOUS a, IPUB b COMPLETED CATP RST:IOUS a IPUB b COMPLETED DGN:IOUS a, IPUB b COMPLETED CATP RST:IOUS a IPUB b COMPLETED

TEST IOP BUS MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, toggle **ROS** switch to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TSI a, CONTR b COMPL a = TSI member number b = Controller number
3	At fuse, activate fuse alarm using Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA TSI a CONTR b REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD TSI a, CONTR b FRM:TSI e-f e-f = TSI frame number RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD TSI a, CONTR b FRM:TSI e-f
7	Toggle **ROS** switch to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:TSI a, CONTR b COMPLETED CATP RST:TSI a, CONTR b COMPL

* It takes approximately 5 minutes for TSI controller to be restored to service

TEST TSI CONTROLLER MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, toggle **ROS** switch to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TSI a, IPUB b COMPL a = TSI member number b = IPUB number
3	At fuse, activate fuse alarm using Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA TSI a IPUB b RMV:TSI a,IPUB b COMPL REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD TSI a, IPUB b FRM:TSI e-f e-f = TSI frame numbers RMV:TSI a, IPUB b COMPL RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD TSI a, IPUB b
7	Toggle **ROS** switch to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:TSI a, IPUB b COMPLETED ATP RST:TSI a, IPUB b COMPL

* It takes approximately 5 minutes for TSI controller to be restored to service

TEST TSI IPUB MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, toggle **ROS** switch to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TSI a, ALC b COMPL RMV:TMSP c, CONTR d COMPL a = TSI member number b = A-Link circuit number c = TMS pair number d = TMS controller number
3	At fuse, activate fuse alarm using Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA TSI a ALC b REPT:MJ ALM e GRID f e = Work center name f = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD TSI a, ALC b FRM:TSI g-h RMV:TSI a, ALC b COMPL g-h = TSI frame number RTR:MJ ALM e GRID f COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD TSI a, ALC b FRM:TSI g-h
7	Toggle **ROS** switch to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:TMSP c, CONTR d PH 9 IN PROGRESS DGN:TMSP c, CONTR d:TSI a COMPLETED CATP RST:TMSP c, CONTR d COMPL RST:TSI a, ALC b COMPL

* It takes approximately 1 minute for TMS controller and A-link circuit to be restored to service

TEST TSI A-LINK CIRCUIT MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TMSP a,CONTR b COMPL a = TMS frame number b = TMS controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA TMSP a CONTR b FRM:TMS a REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS**/**OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD TMSP a,CONTR b FRM:TMS a RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD TMSP a,CONTR b FRM:TMS a
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:TMSP a, CONTR b, COMPLETED CATP RST:TMSP a,CONTR b COMPL

* It takes approximately 1/2 minute for controller to be restored to service

TEST TMS CONTROLLER MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:NCLK 0,CHAIN a COMPL a = Clock chain number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA NCKL 0 CHAIN a RMV:NCLK 0,CHAIN a COMPL REPT:MJ ALM b GRID c b = Work center name C = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD NCKL 0,CHAIN a RMV:NCLK 0, CHAIN a COMPL RTR:MJ ALM b GRID c COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD NCKL 0, CHAIN a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	RST:NCKL 0, CHAIN a COMPL

* It takes approximately 1 minute for clock chain to be restored to service

TEST NETWORK CLOCK CHAIN MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:SCLK 0,CONTR a COMPL a = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA SCLK 0 CONTR a RMV:SCLK 0, CONTR a COMPL REPT:MJ ALM b GRID c b = Work center name c = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD SCLK 0,CONTR a RMV:SCLK 0, CONTR a COMPL RTR:MJ ALM b GRID c COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD SCLK 0,CONTR a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:SCLK 0, CONTR a COMPLETED CATP RST:SCLK 0,CONTR a COMPL

* It takes approximately 1/2 minute for controller to be returned to service

TEST SYSTEM CLOCK AND CONTROL UNIT MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:PUB a, PUBB 0 COMPL a = PU Bus Number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:MJ ALM b GRID c b = Work center name c = Alarm grid number REPT:PA PUB a FRM:PUBB 0 RMV:PUB a, PUBB 0 COMPL
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD PUB a FRM:PUBB 0 RMV:PUB a, PUBB 0 COMPL RTR:MJ ALM b GRID c COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD PUB a FRM:PUBB 0
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:PUB a, PUBB 0 COMPLETED CATP RST:PUB a, PUBB 0 COMPL

TEST PUBB MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
			POWER SWITCH LAMPS			MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:SP a, IPUB b COMPL a = SP member number b = IPUB number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-509]	On	Off	On	*ON*	*ON*	REPT:PA SP a IPUB b REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD SP a, IPUB b RMV:SP a, IPUB b COMPL RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD SP a, IPUB b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:SP a, IPUB b COMPLETED CATP* RST:SP a, IPUB b COMPL

* CATP bit 5 due to power control switch restore

TEST SP1 IPUB MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:SP a, CONTR b COMPL a = SP member number b = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA SP a CONTR b c = Work center name d = Alarm grid number REPT:MJ ALM c GRID d
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD SP a, CONTR b RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD SP a, CONTR b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:SP a, CONTR b COMPLETED CATP † RST:SP a, CONTR b COMPL

* It takes approximately 5 minutes for controller to be restored to service
† CATP bit 5 due to power control switch restore

TEST SP1 CONTROLLER MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS**	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:DIF a, CONTR b COMPL a = DIF member number b = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:PA DIF a, CONTR b FLN e RMV:DIF a, CONTR b COMPL REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number e = Frame location number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS**/**OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD DIF a, CONTR b RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD DIF a, CONTR b
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	Off	DGN:DIF a, CONTR b COMPLETED CATP RST:DIF a, CONTR b COMPL
* It takes approximately 5 minutes for controller to be restored to service							

TEST DIF-E1 CONTROLLER MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS**	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:DIF a, IPUB b COMPL a = DIF member number b = PU bus number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	*ON*	*ON*	REPT:MJ ALM c GRID d REPT:PA DIF a, IPUB b FLN e RMV:DIF a, IPUB b COMPL c = Work center name d = Alarm grid number e = Frame location number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	On	On	None
5	At power switch, depress and release **ROS/OFF** switch	On	Off	On	On	*OFF*	REPT:MAN PWR RMVD DIF a, IPUB b RTR:MJ ALM c GRID d COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	Off	REPT:PWR RSTD DIF a, IPUB b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:DIF a, IPUB b COMPLETED ATP RST:DIF a, IPUB b COMPL

TEST DIF-E1 IPUB MAJOR FUSE ALARM

1. At associated power switch, perform Steps 1 through 9 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES						
		POWER SWITCH LEDs					MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS		
1	Observe initial conditions at standby CU	Off	Off	Off	Off	Off	Off	None
2	At power switch, toggle **ROS/RST** switch to **ROS** position	Off	Off	Off then *ON*	*ON* then *OFF*	*ON*	Off	MCRT MESSAGES RMV: CU a TASK b MESSAGE STARTED RMV CU a COMPLETED a = CU number b = Task number
3	At power switch, toggle the **ST/ON/OFF** switch to **OFF**	*ON*	*ON*	On	Off	On	*OFF*	MCRT MESSAGES REPT:POWER REMOVED @U a REPT CU a UNAVAILABLE CU flashing reverse video
4	At location x, remove **410AA** Power Converter x = 028-052 (for CU 0) or 053-052 (for CU 1)	*ON*	*ON*	On	Off	On	*OFF*	None
5	At power switch, toggle the **ST/ON/OFF** switch to **ST** then release to **ON**	*OFF*	*ON*	On	Off	On	*ON*	MTC MESSAGE REPT:MJ ALM MOC GRID c c = Grid number
6	At power switch, toggle the **ST/ON/OFF** switch to **OFF**	*OFF*	*ON*	On	Off	On	*ON*	
7	Replace **410AA** Power Converter	On	On	On	Off	On	On	None
8	At power switch, toggle **ACO/T** switch to **ACO/T** position	On	On	On	*ON*	On	*OFF*	MTC MESSAGE RTR:MJ ALM MOC GRID c COMPL
9	At power switch, toggle **ACO/T** switch to normal position	On	*OFF*	On	*OFF*	On	Off	None

TABLE A (Contd)

STEP	ACTION	REQUIRED RESPONSES						
		POWER SWITCH LEDs					MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS		
10	At power switch, toggle **ROS/RST** switch to **RST** position	OFF	ON	ON	OFF	*ON*	ON	RST CU a TASK b MESSAGE STARTED
11	At power switch, toggle the **ST/ON/OFF** switch to **ST** then releas to **ON**	*OFF*	*OFF*	On then *OFF*	*ON* then *OFF*	*OFF*	Off	MCRT MESSAGES START OF CU-a RECOVERY* REPT POWER UP CU a • • DGN:CU a ATP MSG COMPL RST CU a IN PROGRESS RST CU a COMPLETED
12	At MCRT, depress **ALM RLS (PF4)** key	Off	Off	Off	Off	Off	Off	CU normal video

* It takes 5 to 10 minutes before CU a is restored

TEST 3B COMPUTER CU MAJOR FUSE ALARM

1. At associated power switch, perform Steps 1 through 9 in TABLE A

End of Procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES						
		POWER SWITCH LEDs					MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS		
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	None
2	At power switch, toggle **ROS/RST** switch to **ROS** position	Off	Off	Off then *ON*	*ON* then *OFF*	*ON*	Off	MCRT MESSAGES RMV:IOP a TASK b MESSAGE STARTED • • • RMV:IOP a COMPLETED a = IOP number b = Task number
3	At power switch, toggle the **ST/ON/OFF** switch to **OFF**	*ON*	*ON*	On	Off	On	*ON*	MCRT MESSAGES REPT:POWER REMOVED IOP a
4	At location x, remove **410AA** Power Converter x = 19-088 (for IOP 0) or 45-088 (for IOP 1)	*ON*	*ON*	On	Off	On	*On*	None
5	At power switch, toggle the **ST/ON/OFF** switch to **ST** then release to **ON**	*OFF*	*ON*	On	Off	On	*On*	MTC MESSAGE REPT:MJ ALM MOC GRID c c = Grid number
6	At power switch, toggle the **ST/ON/OFF** switch to **OFF**	*OFF*	*On*	On	Off	On	*On*	
7	Replace **410AA** Power Converter	On	On	On	Off	On	On	None
8	At power switch, toggle **ACO/T** switch to **ACO/T** position	On	On	On	*ON*	On	*OFF*	MTC MESSAGE RTR:MJ ALM MOC GRID c COMPL

TEST 3B COMPUTER IOP MAJOR FUSE ALARM

TABLE A (Contd)

STEP	ACTION	REQUIRED RESPONSES						
		POWER SWITCH LEDs					MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS		
9	At power switch, toggle **ACO/T** switch to normal position	On	*OFF*	On	*OFF*	On	Off	None
10	At power switch, toggle **ACO/T** switch to normal position	On	*Off*	On	*Off*	OFF	Off	None
11	At power switch, toggle the **ST/ON/OFF** switch to **ST** then releas to **ON**	*OFF*	*OFF*	On then *OFF*	*ON* then *OFF*	*OFF*	Off	MCRT MESSAGES REPT POWER UP IOP a* • • • RST:IOP a TASK b MSG STARTED • • • DGN:IOP a COMPLETED ATP RST IOP a COMPLETED • • • DGN:IOP a ATP MSG COMPL
12	At MCRT, Depress **ALM RLS** (**PF4**) key	Off	Off	Off	Off	Off	Off	None

* It takes 5-10 minutes before IOP is restored

TEST 3B COMPUTER IOP MAJOR FUSE ALARM

1. At selected fuse, perform Steps 1 through 4 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES		
		FACILITY LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
1	Observe initial conditions	Off	Off	None
2	At indicator fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	*ON*	*ON*	REPT: OA a RMSD20MJFAIL,ACTIVATED,FLOOR b a = Office dependent alarm number b = Floor number REPT: OA a RMSD2-S1FAIL,ACTIVaTED,FLOOR b REPT:MJ ALM c GRID d c = Work center name d = Alarm grid number
3	Remove Fuse Alarm Tool from fuse	On	On	None
4	Depress **ALARM CUT-OFF** pushbutton	*OFF*	*OFF*	REPT: OA a RMSD20MJFAIL,RETIRED,FLOOR b REPT: OA a RMSD2-S1FAIL,RETIRED,FLOOR b RTR:MJ ALM c GRID d COMPL

TEST RMS-D2 MAJOR FUSE ALARM

1. At selected fuse, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES			
		ALARM LEDs		MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		FA	PWR ALARM		
1	Observe initial conditions	Off	Off	Off	None
2	Replace **M00** fuse with blown fuse	*ON*	*ON*	*ON*	MCRT MESSAGES REPT:POWER DOWN CNI a a = CNI number MAJOR reverse video MTC MESSAGE REPT:MJ ALM MOC GRID b b = Grid number
3	Replace blown fuse with good fuse in **M00** position	*OFF*	On	On	None
4	Depress and release **ALARM CUT-OFF** pushbutton	Off	On	*OFF*	MTC MESSAGE RTR:MJ ALM MOC GRID b COMPL
5	Depress and release **PWR ALM RESET** pushbutton	Off	*OFF*	Off	MCRT MESSAGE MAJOR normal video

TEST CNI RING NODE CABINET MAJOR FUSE ALARM

1. At selected fuses, perform Steps 1 through 6 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES		
		POWER ALM LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
1	Observe initial conditions	Off	Off	None
2	Remove fuse **M0**, then **P0**	*ON*	*ON*	MCRT MESSAGES REPT:POWER DOWN DFA a a = DFA frame number MAJOR reverse video MTC MESSAGE REPT:MJ ALM MOC GRID b b = Grid number
3	Return fuse **P0**	On	On	None
4	Return fuse **M0**	On	On	None
5	Depress and release **ALARM CUT-OFF** pushbutton	On	*OFF*	MTC MESSAGE RTR:MJ ALM MOC GRID b COMPL
6	Depress and release **PWR ALM RESET** pushbutton	*OFF*	Off	MCRT MESSAGE MAJOR normal video

TEST CNI DIGITAL FACILITY ACCESS (DFA) FRAME MAJOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TSI a, CONTR b COMPL a = TSI member number b = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA TSI a CONTR b REPT:MN ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM c GRID d COMPL
5	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	*OFF*	Off	Off	DGN:TSI a, CONTR b COMPLETED ATP RST:TSI a, CONTR b COMPL

TEST TSI CONTROLLER MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TSI a, IPUB b COMPL a = TSI member number b = IPUB number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*OFF*	REPT:PA TSI a IPUB b REPT:MN ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM c GRID d COMPL
5	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:TSI a, IPUB b COMPLETED ATP RST:TSI a, IPUB b COMPL

TEST TSI IPUB MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TSI a, ALC b COMPL RMV:TMSP c, CONTR d COMPL a = TSI member number b = A-Link circuit number c = TMS pair number d = TMS controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA TSI a ALC b REPT:MN ALM e GRID f e = Work center name f = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM e GRID f COMPL
5	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:TMSP c, CONTR d PH9 IN PROGRESS DGN:TMSP c, CONTR d TSI a COMPLETED CATP RST:TMSP c, CONTR d COMPL RST:TSI a, ALC b COMPL

TEST TSI A-LINK CIRCUIT MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:TMSP a, CONTR b COMPL a = TMS frame number b = TMS controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA TMSP a CONTR b FRM:TMS a REPT:MN ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM c GRID d COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:TMSP a, CONTR b COMPLETED CATP RST:TMSP a, CONTR b COMPL

TEST TMS CONTROLLER MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:NCLK 0, CHAIN a COMPL a = Clock chain number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA NCLK 0 CHAIN a REPT:MN ALM b GRID c b = Work center name c = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM b GRID c COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	RST:NCLK 0, CHAIN a COMPL

TEST NETWORK CLOCK CHAIN MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:SCLK 0, CONTR a COMPL a = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA SCLK 0 CONTR a REPT:MN ALM b GRID c b = Work center name c = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM b GRID c COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:SCLK 0, IPUB a COMPLETED ATP RST:SCLK 0, CONTR a COMPL

TEST SYSTEM CLOCK AND CONTROL UNIT MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:PUB a, PUBB 0 COMPL a = PUB member number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA PUB a FRM:PUBB 0 REPT:MN ALM b GRID c b = Work center name c = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM b GRID c COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:PUB a, PUBB 0 COMPLETED CATP RST:PUB a, PUBB 0 COMPL

TEST PUBB MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:SP a, IPUB b COMPL a = SP member number b = IPUB number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA SP a, IPUB b FLN e e = Frame location number RMV:SP a, IPUB b COMPL REPT:MN ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM c GRID d COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:SP a, IPUB b COMPLETED CATP* RST:SP a, IPUB b COMPL

* CATP bit 5 due to power control switch restore

TEST SP IPUB MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:SP a, CONTR b COMPL a = SP member number b = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA SP a, CONTR b FLN e RMV:SP a, CONTR b COMPL e = Frame location number REPT:MN ALM c GRID d c = Work center name d = Alarm grid number
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM c GRID d COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:SP a, CONTR b COMPLETED CATP* RST:SP a, CONTR b COMPL

* CATP bit 5 due to power control switch restore

TEST SP CONTROLLER MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power switch, rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:DIF a, CONTR b COMPL a = DIF member number b = Controller number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA DIF a CONTR b FLN e c = Work center name d = Alarm grid number e = Frame location number REPT:MN ALM c GRID d RMV:DIF a, CONTR b COMPL
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM MOC GRID c COMPL
5	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:DIF a, CONTR b COMPLETED CATP RST:DIF a, CONTR b COMPL

TEST DIF-E1 CONTROLLER MINOR FUSE ALARM

1. At selected fuse and associated power switch, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMP				MINOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF		
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	At power swith, rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	Off	RMV:DIF a, IPUB b COMPL a = DIF member number b = PU bus number
3	At fuse, activate fuse alarm using ITE-5590A Fuse Alarm Tool [DLP-505]	On	Off	On	Off	*ON*	REPT:PA DIF a IPUB b c = Work center name d = Alarm grid number REPT:MN ALM c GRID d RMV:DIF a, IPUB b COMPL
4	Remove Fuse Alarm Tool from fuse	On	Off	On	Off	*OFF*	RTR:MN ALM c GRID d COMPL
5	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	Off	DGN:DIF a, IPUB b COMPLETED ATP RST:DIF a, IPUB b COMPL

TEST DIF-E1 IPUB MINOR FUSE ALARM

1. At selected fuse, perform Steps 1 through 5 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES		
		FAN ALARM LED	MINOR AUDIBLE ALARM	OUTPUT MESSAGES
1	Observe initial conditions	Off	Off	None
2	Remove **FAN 1** fuse	*ON*	*ON*	REPT: OA a RMSD2OMNFAIL,ACTIVATED,FLOOR b a = Office dependent alarm number b = Floor number REPT: OA a RMSD2-S1FAIL,ACTIVATED,FLOOR b REPT:MN ALM c GRID d c = Work center name d = Alarm grid number
3	Replace **FAN 1** fuse	On	On	None
4	Depress **ALARM CUT-OFF** pushbutton	*OFF*	*OFF*	REPT: OA a RMSD2OMNFAIL,RETIRED,FLOOR b REPT: OA a RMSD2-S1FAIL,RETIRED,FLOOR b RTR:MN ALM c GRID d COMPL
5	Open rear door of RMS-D2 cabinet. Depress fan reset pushbutton labeled **D**	Off	Off	None

TEST RMS-D2 MINOR FUSE ALARM

1. At selected fuse, perform Steps 1 through 4 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES		
		FA ALARM LED	MINOR AUDIBLE ALARM	OUTPUT MESSAGES
1	Observe initial conditions	Off	Off	None
2	Replace **ALP** fuse with blown fuse	*ON*	*ON*	MCRT MESSAGES a = CNI number **MINOR** reverse video MTC MESSAGE **REPT:MN ALM MOC GRID** b b = Grid number
3	Replace blown fuse with good fuse in **ALP** position	On	On	None
4	Depress **PWR ALM RESET** pushbutton	*OFF*	*OFF*	MCRT MESSAGE **REPT:FAULT CLEARED CNI** a **MINOR** normal video MTC MESSAGE **RTR:MN ALM MOC GRID** b **COMPL**

TEST CNI RING NODE CABINET MINOR FUSE ALARM

1. At standby CC power control switch (location EQL 041-014), perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions*	Off	Off	Off	Off	Off	Off	Off	None
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	None
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	None
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV CC a COMPLETED where a = CC member number
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT: MAN PWR RMVD CC a
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	Off	*On* then *Off*	Off	Off	Off	RST CC a COMPLETED

* Perform on Standby CC only.

PERFORM CC POWER CYCLE TEST

1. At each CS circuit pack, perform Steps 1 through 7 in TABLE A. CS circuit pack locations are:

CS0 024-006 CS2 024-176 CS4 024-014 CS6 024-168 CS8 024-022 CS10 024-160
CS1 124-006 CS3 124-176 CS5 124-014 CS7 124-168 CS9 124-022 CS11 124-160

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					-48 Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	None
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	None
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	None
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV CS a COMPLETED where a = CS member number
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT MAN
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*Off*	*On* then *Off*	Off	Off	Off	RST CS a COMPLETED

PERFORM CS POWER CYCLE TEST

1. At each PS circuit pack, perform Steps 1 through 7 in TABLE A. PS circuit pack locations are:

PS00 41-128 PS01 41-136 PS02 41-144 PS03 41-152
PS04 41-160 PS05 41-168 PS06 41-176

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					-48 Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV PS a COMPLETED where a = PS member number
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT MAN
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*Off*	*On* then *Off*	Off	Off	Off	RST PS a COMPLETED

PERFORM PS POWER CYCLE TEST

1. At IFB circuit pack, perform Steps 1 through 7 in TABLE A. IFB circuit pack locations are:

KLW25 58-086 KLW18 58-120 KLW15 58-168
End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					-48 Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV IFB a COMPLETED where a = IFB member number
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT MAN
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*Off*	*On* then *Off*	Off	Off	Off	RST IFB a COMPLETED

PERFORM IFB POWER CYCLE TEST

1. At each **IOP** power control switch, perform Steps 1 through 7 in TABLE A.
   IO Processor unit power control switch locations are:
   IOP A — 68-24
   IOP B — 38-24

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:IOUS a COMPLETED a = Member number of IOUS
5	Depress and release **ROS**/**OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD IOUS a FRM: IO b b = Frame number RMV:IOUS a COMPLETED
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD IOUS a FRM: IO b
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:IOUS a COMPLETED CATP RST:IOUS a COMPLETED DGN:IOUS a IOMP 0 COMPLETED ATP RST:IOUS a IOMP 0 COMPLETED DGN:IOUS a IOMP 1 COMPLETED ATP RST:IOUS a IOMP 1 COMPLETED

PERFORM IO PROCESSOR UNIT POWER CYCLE TEST

1. At **IOP BUS** power control switch, perform Steps 1 through 7 in TABLE A.
   IOP Bus power switch locations are:
   IOP BUS 0 – 80-13
   IOP BUS 1 – 76-13

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:IOUS a, IPUB b COMPLETED RMV:IOUS a, IPUB b COMPLETED a = IOUS member number b = IOP bus number (0 or 1)
5	Depress and release **ROS**/**OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD IOUS a, IPUB b FRM:IO c c = Frame number RMV:IOUS a IPUB b COMPLETED RMV:IOUS a IPUB b COMPLETED
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD IOUS a, IPUB b FRM:IO c
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:IOUS a, IPUB b COMPLETED CATP RST:IOUS a, IPUB b COMPLETED DGN:IOUS a, IPUB b COMPLETED CATP RST:IOUS a, IPUB b COMPLETED

PERFORM IO PROCESSOR BUS UNIT POWER CYCLE TEST

1. At **CONTR** power control switch (location x44-37), perform Steps 1 through 7 in TABLE A
End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:TSI a, CONTR b COMPL a = TSI member number b = Controller number
5	Depress and release **ROS**/**OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD TSI a, CONTR b FRM:TSI c-d c-d = TSI frame numbers
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD TSI a, CONTR b FRM:TSI c-d
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF* *	Off	DGN:TSI a, CONTR b COMPLETED CATP RST:TSI a, CONTR b COMPL

* It takes approximately 5 minutes for TSI controller to be restored to service

PERFORM TSI CONTROLLER POWER CYCLE TEST

1. At **IPUB** power control switch (location x80-65), perform Steps 1 through 7 in TABLE A
End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS**/**OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:TSI a, IPUB b COMPL a = TSI member number b = IPUB number
5	Depress and release **ROS**/**OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD TSI a, IPUB b FRM:TSI c-d c-d = TSI frame numbers RMV:TSI a, IPUB b COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD TSI a, IPUB b FRM:TSI c-d
7	Rotate **ROS**/**OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:TSI a, IPUB b COMPLETED ATP RST:TSI a, IPUB b COMPL

PERFORM TSI IPUB POWER CYCLE TEST

1. At **ALC** power control switch (location x72-03), perform Steps 1 through 7 in TABLE A
End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton		*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:TSI a, ALC b COMPL RMV:TMSP c, CONTR d COMPL a = TSI member number b = A-Link circuit number c = TMS pair number d = TMS controller number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD TSI a, ALC b FRM:TSI e-f RMV:TSI a, ALC b COMPL e-f = TSI frame numbers
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD TSI a, ALC b FRM:TSI e-f
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	DGN:TMSP c, CONTR d PH 9 IN PROGRESS DGN:TMSP c, CONTR d:TSI a COMPLETED CATP RST:TMSP c, CONTR d COMPL RST:TSI a, ALC b COMPL

* It takes approximately 1 minute for TMS controller and A-link circuit to be restored to service

PERFORM TSI A-LINK CIRCUIT POWER CYCLE TEST

1. At each controller power control switch, perform Steps 1 through 7 in TABLE A.
   Controller power control switch locations are:

   CONTR 0 — 044-38
   CONTR 1 — 144-38

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:TMSP a, CONTR b COMPL a = TMS pair number b = TMS controller number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD TMSP a, CONTR b FRM:TMS c c = TMS frame number
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD TMSP a, CONTR b FRM:TMS c
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	DGN:TMSP a, CONTR b, COMPLETED CATP RST:TMSP a, CONTR b COMPL

* It takes approximately 1/2 minute for controller to be restored to service

PERFORM TMS CONTROLLER POWER CYCLE TEST

1. At each **IPUB** power control switch, perform Steps 1 through 7 in TABLE A.
   IPUB power control switch locations are:

   C0 IPUB 0 — 076-42
   C0 IPUB 1 — 080-42
   C1 IPUB 0 — 176-42
   C1 IPUB 1 — 180-42

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	*OFF*	*OFF*	*OFF*	*OFF*	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:TMSP a, CbIPUB c COMPL a = TMS pair number b = TMS controller number c = TMS PU bus number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD TMSP a, CbIPUB c FRM:TMS d d = TMS frame number RMV:TMSP a, CbIPUB c COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD TMSP a, CbIPUB c FRM:TMS d
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:TMSP a, CbIPUB c COMPLETED ATP RST:TMSP a, CbIPUB c COMPL a = TMS pair number b = TMS controller number c = TMS PU bus number

PERFORM TMS IPUB POWER CYCLE TEST

1. At each **CHAIN** power control switch, perform Steps 1 through 7 in TABLE A.
   Chain power control switch locations are:
   CHAIN 0 — 066-3
   CHAIN 1 — 066-69
   CHAIN 2 — 166-3
   CHAIN 3 — 166-69
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:NCLK 0, CHAIN a COMPL a = Clock chain number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD NCLK 0, CHAIN a RMV:NCLK 0, CHAIN a COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD NCLK 0, CHAIN a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	RST:NCLK 0, CHAIN a COMPL

* It takes approximately 1 minute for clock chain to be restored to service

PERFORM NETWORK CLOCK CHAIN POWER CYCLE TEST

1. At **IPUB** power control switch (location x60-54), perform Steps 1 through 7 in TABLE A
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:SCLK 0, IPUB a COMPL a = PU bus number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD SCLK 0, IPUB a RMV:SCLK 0, IPUB a COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD SCLK 0, IPUB a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN: SCLK 0, IPUB a COMPLETED ATP RST:SCLK 0, IPUB a COMPL

PERFORM NCLK IPUB POWER CYCLE TEST

1. At **CONTR** power control switch (location x56-69), perform Steps 1 through 7 in TABLE A
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:SCLK 0, CONTR a COMPL a = Controller number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD SCLK 0, CONTR a RMV:SCLK 0, CONTR a COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD SCLK 0, CONTR a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	DGN:SCLK 0, CONTR a COMPLETED CATP RST:SCLK 0, CONTR a COMPL

* It takes approximately 1/2 minute for controller to be restored to service

PERFORM NCLK CONTROLLER POWER CYCLE TEST

1. At **NCSU** power control switch (location 048-2), perform Steps 1 through 7 in TABLE A
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:SCLK 0, NCSU 0 COMPL
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD SCLK 0, NCSU 0 RMV:SCLK 0, NCSU 0 COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD SCLK 0, NCSU 0
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	DGN:SCLK 0, NCSU 0 COMPLETED CATP RST:SCLK 0, NCSU 0 COMPL

* It takes 4-5 minutes for Synchronization Unit to be restored to service

PERFORM NCLK SYNCHRONIZATION UNIT POWER CYCLE TEST

1. At **PUB** power control switch (location x56-42), perform Steps 1 through 7 in TABLE A
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:PUB a, PUBB 0 COMPL a = PUB member number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD PUB a FRM:PUBB 0 RMV:PUB a, PUBB 0 COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD PUB a FRM:PUBB 0
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:PUB a, PUBB 0 COMPLETED CATP RST:PUB a, PUBB 0 COMPL

PERFORM PUBB PUB POWER CYCLE TEST

1. At each **IPUB** power control switch, perform Steps 1 through 7 in TABLE A.
   IPUB power control switch locations are:
   IPUB 0 — 280-43
   IPUB 1 — 380-43
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:SP a, IPUB b COMPL a = SP member number b = IPUB number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD SP a, IPUB b RMV:SP a, IPUB b COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD SP a, IPUB b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:SP a, IPUB b COMPLETED ATP RST:SP a, IPUB b COMPL

PERFORM SP1 IPUB POWER CYCLE TEST

1. At each **CONTR** power control switch, perform Steps 1 through 7 in TABLE A.
   Controller power control switch locations are:
   CONTR 0 — 248-2
   CONTR 1 — 348-2
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:SP a, CONTR b COMPL a = SP member number b = Controller number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD SP a, CONTR b
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD SP a, CONTR b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:SP a, CONTR b COMPLETED ATP RST:SP a, CONTR b COMPL

PERFORM SP1 CONTROLLER POWER CYCLE TEST

1. At each **PPL/PPR** power control switch, perform Steps 1 through 7 in TABLE A.
   Power control switch locations are:
   PPL — 121-64
   PPR — 521-64
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:SP a, PPb 0 COMPL a = SP Member number b = Combined Distributor and Scanner Matrix frame location (L = Left, R = Right)
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD SP a, PPb 0 RMV:SP a, PPb 0 COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD SP a, PPb 0
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	RST:SP a, PPb 0 COMPL

PERFORM SP1 COMBINED DISTRIBUTOR AND SCANNER MATRIX FRAME POWER CYCLE TEST

1. At **MA** power control switch (location 45-36), perform Steps 1 through 7 in TABLE A
   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	Off	Off	Off	None
5	Depress and release **ROS/OFF** switch	On	Off	Off	*ON*	REPT:AUD ALM CUTOFF MA 0
6	Depress and release **ON** pushbutton	On	Off	Off	*OFF*	REPT:AUD ALM RSTD MA 0
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	Off	Off	Off	None

1. At each CCT power control switch, perform Steps 1 through 9 in TABLE A.
   CCT power switch locations are:

   CCT 0 — 48-34
   CCT 1 — 52-34

   End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	Off	*ON*	Off	REPT:CIN a SVC* XCVR *** bcT; MAN PWR RMVD 10; STAT MTC: a = 0 for CCT 0 and 100 for CCT 1 bc = near building subdivision
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD CCT d d = Unit number
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD CCT d
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	Off	On	Off	None

Continued on Page 2

PERFORM CCT 0 OR CCT 1 POWER CYCLE TEST

TABLE A (Contd)						
STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES (MTC CHANNEL)
		OFF NORM	ACK	OS	PWR OFF	
8	At MTC channel, enter message SET:TRKSTAT ACT,CIN a SVC*XCVR***bT;SUM:NUM 08! a = 000 for CCT 0 and 100 for CCT 1 b = Near building subdivision	Off	Off	On	Off	SET:TRKSTAT, CIN a SVC*XCVR***bT NUM, SUM COMPLETED TRK COUNT 8 a = 0 for CCT 0 and 100 for CCT 1 b = Near building subdivision
9	Enter message SET:TRKSTAT ACT,CIN a SVC*XCVT***bT;SUM:TSG! a = 000 for CCT 0 and 100 for CCT 1 b = Near building subdivision	Off	Off	*OFF*	Off	SET:TRKSTAT, CIN a SVC*XCVT***bT TSG, SUM COMPLETED TRK COUNT 4 a = 0 for CCT 0 and 100 for CCT 1 b = Near building subdivision

1. At each CCT power control switch, perform Steps 1 through 8 in TABLE A.
   CCT power switch locations are:

   CCT 2 — 56-34
   CCT 3 — 60-34

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				
		OFF NORM	ACK	OS	PWR OFF	OUTPUT MESSAGES
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	Off	*ON*	Off	REPT:CIN a SVC* XCVR *** bT; MAN PWR RMVD 12; STAT MTC: a = 200 for CCT 2 and 300 for CCT 3 b = Near building subdivision REPT:SVCSTAT MB THRESHOLD EXCEEDED ALRM TSG MB NUM NUM STAT THLD MB ACT MJ SVC* XCVR***bT 10 10 30
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD CCT d d = Unit number
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD CCT d
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	Off	On	Off	None
8	At MTC channel, enter message SET:TRKSTAT ACT,CIN a SVC*XCVR***bT;SUM:NUM 12! a = 200 for CCT 2 and 300 for CCT 3 b = Near building subdivision	Off	Off	On	Off	SET:TRKSTAT, CIN a SVC*XCVR***bT NUM, SUM COMPLETED TRK COUNT 12 a = 200 for CCT 2 and 300 for CCT 3 b = Near building subdivision

PERFORM CCT 2 OR CCT 3 POWER CYCLE TEST

1. At **MB** power control switch (location 48-36), perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	Off	Off	Off	None
5	Depress and release **ROS/OFF** switch	On	Off	Off	*ON*	REPT:AUD ALM CUTOFF MB a a = Member number
6	Depress and release **ON** pushbutton	On	Off	Off	*OFF*	REPT:AUD ALM RSTD MB a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	Off	Off	Off	None

1. At each controller power control switch, perform Steps 1 through 7 in TABLE A.
   Controller power switch locations are:
   CONT 0 SW – 160-007
   CONT 1 SW – 160-275

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:DIF a, CONTR b COMPL a = DIF member number b = Controller number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD DIF a,CONTR b RMV:DIF a, CONTR b COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD DIF a, CONTR b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF**	Off	DGN:DIF a, CONTR b COMPLETED CATP RST:DIF a, CONTR b COMPL

* It takes approximately 5 minutes for controller to be restored to service

PERFORM DIF-E1 CONTROLLER POWER CYCLE TEST

1. At each **PUB** power control switch, perform Steps 1 through 7 in TABLE A.
   Bus power switch locations are:
   PUB 0 SW – 176-049
   PUB 1 SW – 176-198

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:DIF a, IPUB b COMPL a = DIF member number b = PU bus number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD DIF a,IPUB b RMV:DIF a, IPUB b COMPL
6	Depress and release **ON** pushbutton	On	Off	On	*OFF*	REPT:PWR RSTD DIF a, IPUB b
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:DIF a, IPUB b COMPLETED ATP RST:DIF a, IPUB b COMPL

PERFORM DIF-E1 IPUB POWER CYCLE TEST

1. At API power control switch, perform Steps 1 through 7 in TABLE A
End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	*ON* then *OFF*	*ON*	Off	RMV:API a COMPLETED a = API member number
5	Depress and release **ROS/OFF** switch	On	Off	On	*ON*	REPT:MAN PWR RMVD API a RMV:API a COMPLETED
6	Depress and hold **ON** pushbutton until **PWR OFF** lamp goes off	On	Off	On	*OFF*	REPT:PWR RSTD API a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	*ON* then *OFF*	On then *OFF*	Off	DGN:API a COMPLETED ATP RST:API a COMPLETED

PERFORM API FRAME POWER CYCLE TEST

1. At 3B Computer control unit power switch (location 28-060 for CU 0 or 53-060 for CU 1), perform Steps 1 through 7 in TABLE A
End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS					OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS	
1	Observe initial conditions at standby CU power switch	Off	Off	Off	Off	Off	None
2	Toggle **ACO/T** switch to **T** postion	*ON*	*ON*	*ON*	*ON*	*ON*	None
3	Toggle **ACO/T** switch to normal postion	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Toggle **RST/ROS** switch to **ROS** position	Off	Off	Off then *ON*	*ON* then *OFF*	*ON*	RMV:CU a TASK b MESSAGE STARTED REPT CU a REMOVED RMV CU a COMPLETED a = CU number b = Task number
5	Toggle **ST/ON/OFF** switch to **OFF**	*ON*	Off	On	Off	On	REPT:POWER REMOVED CU a
6	Toggle **ST/ON/OFF** switch to **ST** then release to **ON**	*OFF*	Off	On	*ON* then *OFF*	On	REPT:POWER UP CU a

TABLE A (Contd)

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS					OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS	
7	Toggle **RST/ROS** switch to **RST** position	Off	Off	On then *OFF*	*ON* then *OFF*	*OFF*	RST:CU a TASK b MESSAGE STARTED* RMV CU a COMPLETED DGN:CU a,CC 0 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,MASC 0 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,SAT 0 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,CSU 0 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,UC 0 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,DMA 0 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,CH 11 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a,CH 12 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a CH 13 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a CH 14 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a DMA 1 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a CH 16 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a CH 17 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a CH 18 COMPLETED ATP MESSAGE IN PROGRESS DGN CU a CH 19 COMPLETED ATP MESSAGE IN PROGRESS DGN:CU a ATP MESSAGE COMPLETE RST CU a IN PROGRESS RST CU a COMPLETED

* It takes 5 to 10 minutes before CU is restored

1. At 3B Computer IOP power switch (location 19-075 for IOP 0 or 45-075 for IOP 1) perform Steps 1 through 7 in TABLE A
End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LEDs					OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS	
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	Toggle **ACO/T** switch to **T** position	*ON*	*ON*	*ON*	*ON*	*ON*	None
3	Toggle **ACO/T** switch to normal position	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Toggle **RST/ROS** switch to **ROS** position	Off	Off	Off then *ON*	*ON* then *OFF*	*ON*	RMV:IOP a TASK b MESSAGE STARTED a = Member number b = Task number RMV MTTY a COMPLETED RMV ROP a COMPLETED RMV TTY a COMPLETED* RMV SCSDC a COMPLETED RMV MT a COMPLETED RMV SDL a COMPLETED* RMV SDLC a COMPLETED* RMV MTTYC a COMPLETED RMV TTYC a COMPLETED* RMV SCSDC b COMPLETED RMV MTC a COMPLETED RMV IOP a COMPLETED
5	Toggle **ST/ON/OFF** switch to **OFF**	*ON*	Off	On	Off	On	REPT:POWER DOWN IOP a
* Will be received for each equipped unit							

PERFORM 3B COMPUTER IOP UNIT POWER CYCLE TEST

TABLE A (Contd)

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LEDs					OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS	
6	Toggle **ST/ON/OFF** switch to **ST** then release to **ON**	*OFF*	Off	On	*ON* then *OFF*	On	REPT:POWER UP IOP a
7	Toggle **RST/ROS** switch to **RST** position	Off	Off	On then *OFF*	*ON* then *OFF*	*OFF*	RST:IOP a TASK b MESSAGE STARTED RMV IOP a STOPPED X'5 DGN:IOP a COMPLETED ATP MESSAGE IN PROGRESS RST IOP a COMPLETED DGN MTTYC a COMPLETED ATP MESSAGE IN PROGRESS RST MTTYC a COMPLETED RST MTTY a COMPLETED RST ROP a COMPLETED DGN TTYC a COMPLETED ATP MESSAGE IN PROGRESS* RST TTYC a COMPLETED* RST TTY a COMPLETED RST TTY b COMPLETED DGN SCSDC a COMPLETED ATP MESSAGE IN PROGRESS RST SCSDC a COMPLETED RST MTC a COMPLETED RST MT a COMPLETED DGN SCSDC b COMPLETED ATP MESSAGE IN PROGRESS RST SCSDC b COMPLETED DGN SDLC a COMPLETED ATP MESSAGE IN PROGRESS* RST SDLC a COMPLETED* RST SDL a COMPLETED* RST SDL b COMPLETED DGN IOP a MESSAGE COMPLETE

* Will be received for each equipped unit

1. At 3B Computer disk file controller power switch, (location 28-178 for DFC 0 or 53-178 for DFC 1) perform Steps 1 through 8 in TABLE A

End of procedure

TABLE A

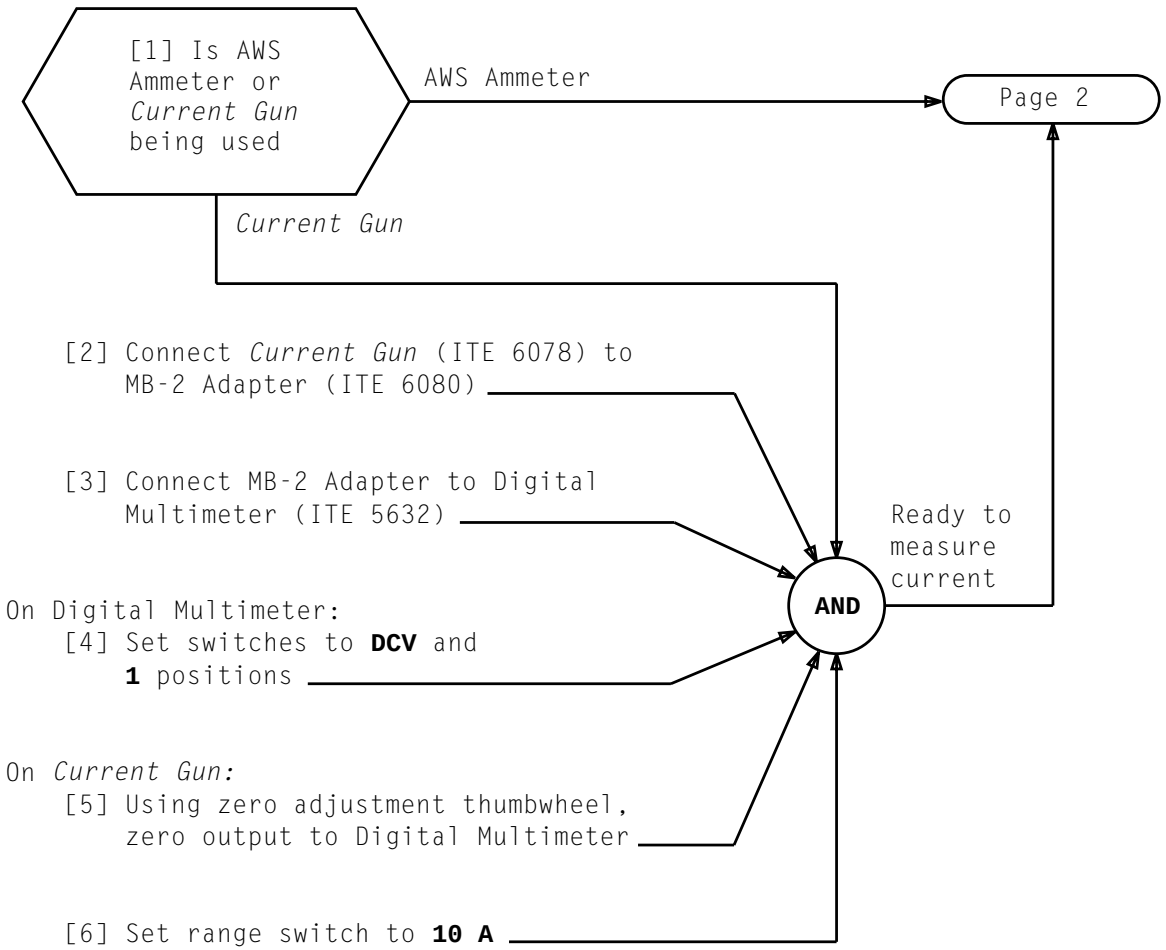
STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LEDs					OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS	
1	Observe initial conditions	Off	Off	Off	Off	Off	None
2	Toggle **ACO/T** switch to **T** position	*ON*	*ON*	*ON*	*ON*	*ON*	None
3	Toggle **ACO/T** switch to normal position	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Toggle **RST/ROS** switch to **ROS** position	Off	Off	Off then *ON*	*ON* then *OFF*	*ON*	RMV DFC a TASK b MESSAGE STARTED RMV MHD c COMPLETED RMV MT a COMPLETED RMV SBUS a COMPLETED RMV SBUS d COMPLETED RMV DFC a COMPLETED REPT DIOP SIMIPLEX PROCESSING COMPLETED a = Unit number b = Task number c = Received for each equipped MHD — 0, 2, 4, 6 (for DFC 0) or 1, 3, 5, 7 (for DFC 1) d = Mate SBUS - 2 (for DFC 0) or 3 (for DFC 1)
5	Toggle **ST/ON/OFF** switch to **OFF**	*ON*	Off	On	Off	On	REPT DFC a FAULT CODE = X'c8 REPT:POWER DOWN DFC a
6	Toggle **ST/ON/OFF** switch to **ST** then release to **ON**	*OFF*	Off	On	Off	On	REPT:POWER UP DFC a

PERFORM 3B COMPUTER DISK FILE CONTROLLER POWER CYCLE TEST

TABLE A (Contd)

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LEDs					OUTPUT MESSAGES
		OFF	ALARM	OOS	RQIP	ROS	
7	Toggle **RST/ROS** switch to **RST** position*	Off	Off	On then *OFF*	*ON* then *OFF*	*OFF*	RST DFC a TASK b MESSAGE STARTED RMV DFC a STOPPED X'5 DGN DFC a COMPLETED ATP MESSAGE IN PROGRESS RST DFC a IN PROGRESS RST DFC a COMPLETED RST SBUS a IN PROGRESS RST SBUS a COMPLETED DGN MHD c COMPLETED ATP MESSAGE IN PROGRESS RST MHD c IN PROGRESS* • • RST MHD c COMPLETED REPT DIOP DUPLEX PROCESSING COMPLETED DGN MTa COMPLETED ATP MESSAGE IN PROGRESS RST MT a IN PROGRESS RST MT a COMPLETED RST SBUS d IN PROGRESS RST SBUS d COMPLETED DGN DFC a ATP MESSAGE COMPLETED

* It takes 15 to 20 minutes for MHD to be restored



MEASURE CURRENT IN GROUNDING CONDUCTOR CONNECTING BATTERY RETURN BUS TO COG

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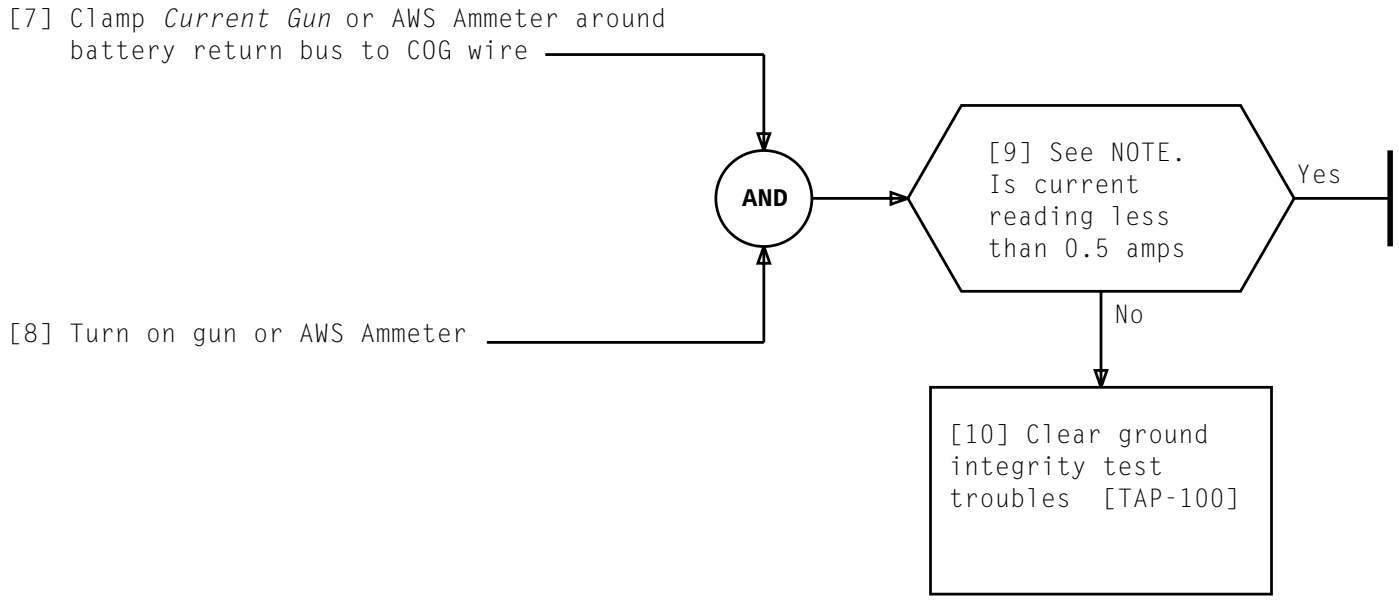
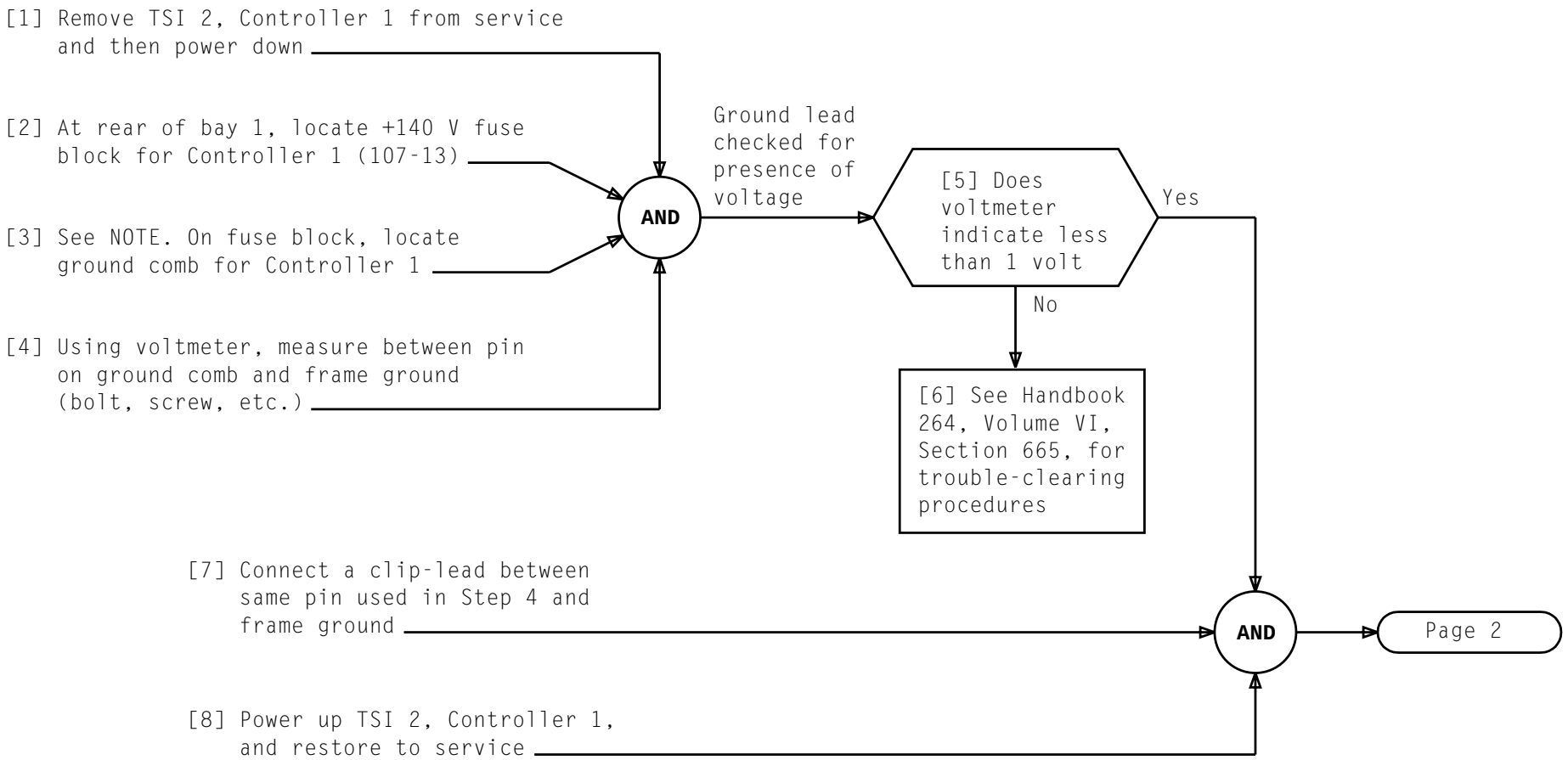


NOTE
If CG-100A *Current Gun* is used, meter reading must be multiplied by 10 in order to convert to amperes

MEASURE CURRENT IN GROUNDING CONDUCTOR CONNECTING BATTERY RETURN BUS TO COG



NOTE
Ground comb is a metal bar approximately 2 inches long with multiple wire-wrap terminals. It may be labeled **+140 V RTN**

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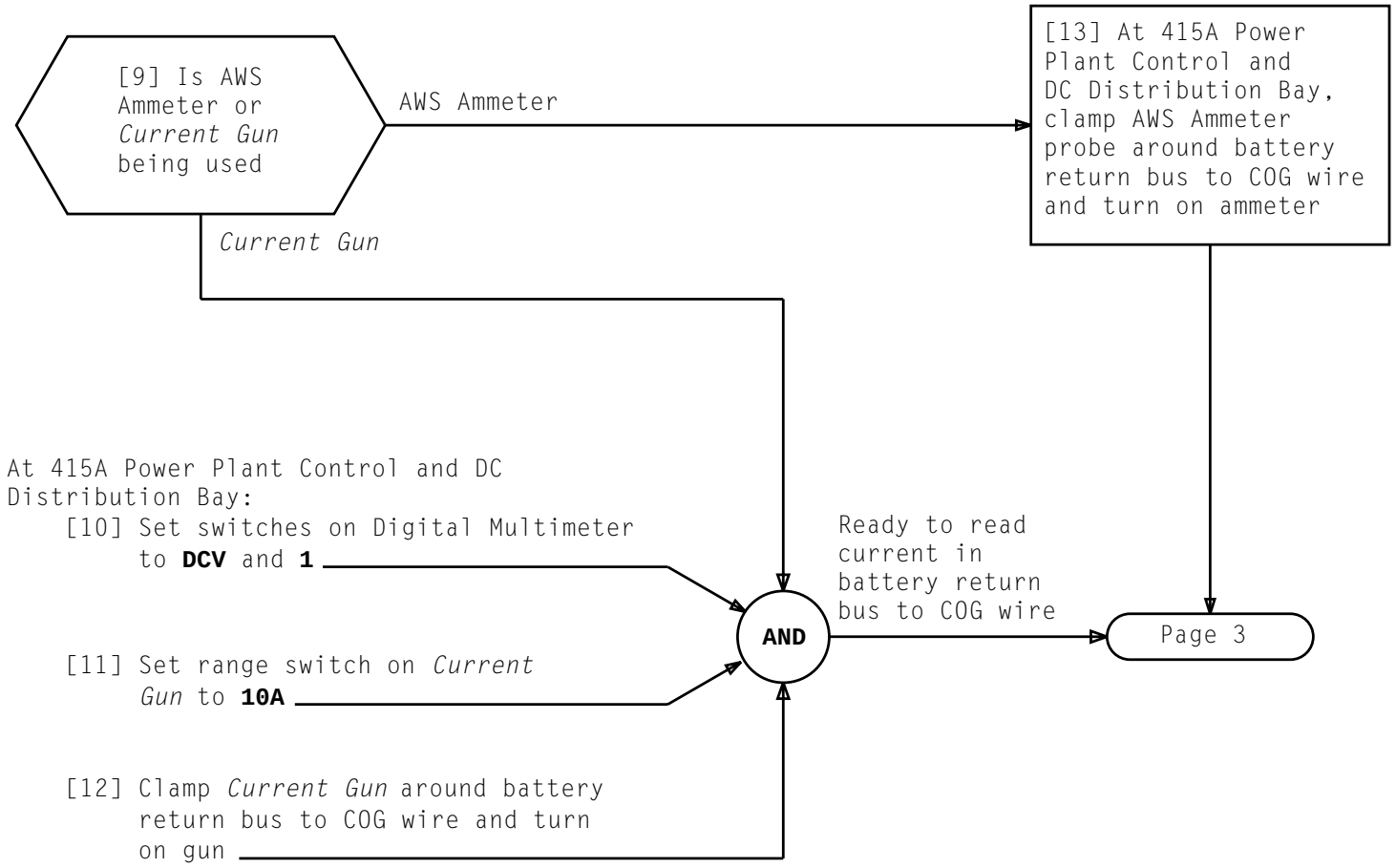
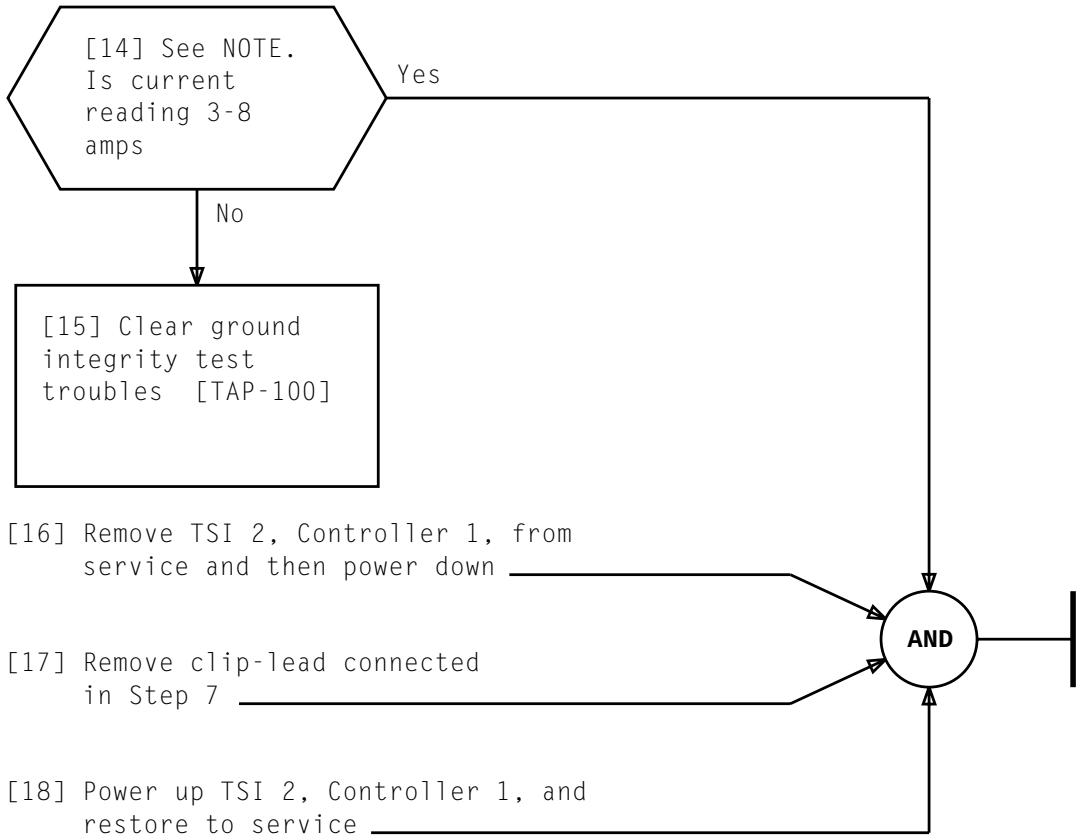
VERIFY THAT BATTERY RETURN BUS IS CONNECTED TO COG

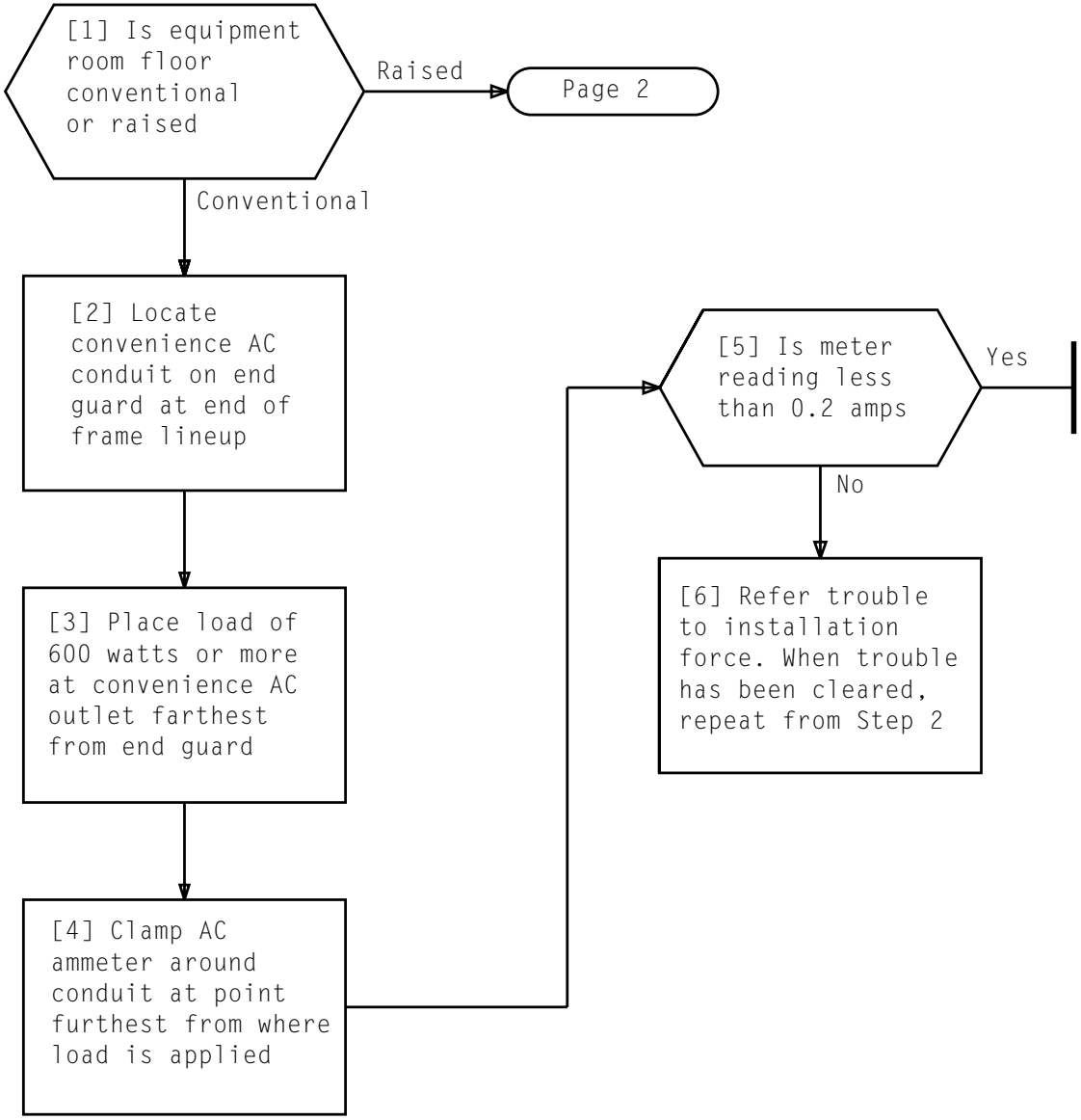


VERIFY THAT BATTERY RETURN BUS IS CONNECTED TO COG

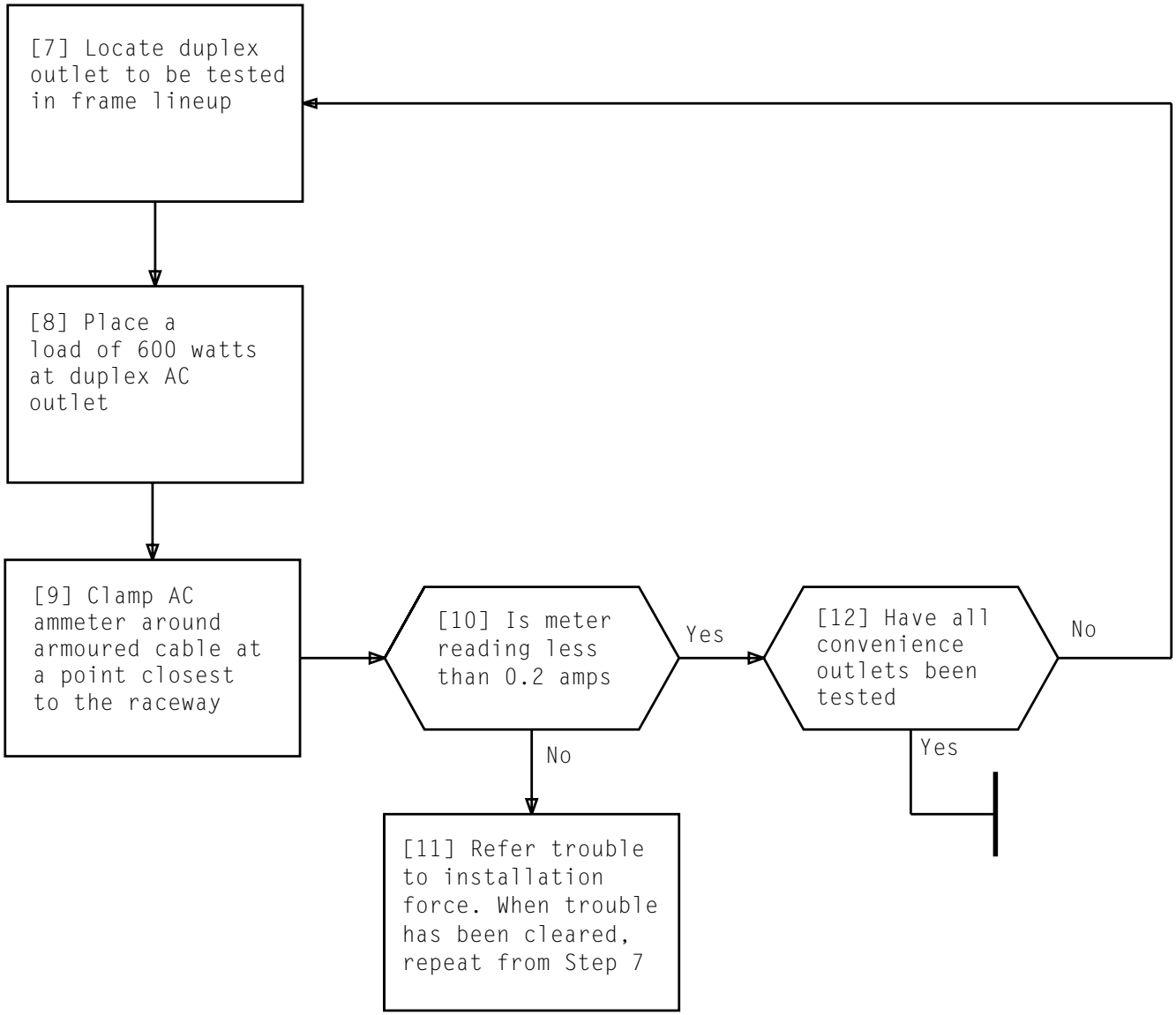


NOTE
If CG-100A *Current Gun* is used, meter reading must be multiplied by 10 in order to convert to amperes

VERIFY THAT BATTERY RETURN BUS IS CONNECTED TO COG



CHECK CONVENIENCE AC GROUND PATH INTEGRITY



CHECK CONVENIENCE AC GROUND PATH INTEGRITY

1. Perform Steps 1 through 5 on side 0 of the 1B processor, then side 1.

Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse position.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	None	Off	
2	At fuse position 051-E, insert test fuse [DLP-581]	Off	Off	Off	Off	Off	-48	*On*	REPT: MJ ALM MOC GRID 1
3	Replace fuse at 051-E	Off	Off	Off	Off	Off	None	*Off*	REPT: MJ ALM MOC GRID 1 COMP
4	At fuse position 071-E, insert test fuse [DLP-581]	Off	Off	Off	Off	*Off*	-48	On	REPT: MJ ALM MOC GRID 1
5	Replace fuse at 071-E	Off	Off	Off	Off	Off	None	*Off*	REPT: MJ ALM MOC GRID 1 COMP

TEST MUP (IFB CLIENTS) FUSE ALARM

1. Perform Steps 1 through 5 on side 0 of the 1B processor, then side 1.

Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse position.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	None	Off	None
2	At fuse position 056-D, insert test fuse [DLP-581]	Off	Off	Off	Off	Off	-48	*On*	REPT: MJ ALM MOC GRID 1
3	Replace fuse at 056-D	Off	Off	Off	Off	Off	None	*Off*	REPT: MJ ALM MOC GRID 1 COMP
4	At fuse position 076-D, insert test fuse [DLP-581]	Off	Off	Off	Off	*Off*	-48	On	REPT: MJ ALM MOC GRID 1
5	Replace fuse at 076-D	Off	Off	Off	Off	Off	None	*Off*	REPT: MJ ALM MOC GRID 1 COMP

TEST AUI (IFB CLIENTS) FUSE ALARM

1. Perform Steps 1 through 5 on side 0 of the 1B processor, then side 1.

Note: Replace each fuse after it is tested prior to removing and inserting test fuse in next fuse position.

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	None	Off	
2	At fuse position 061-E, insert test fuse [DLP-581]	Off	Off	Off	Off	Off	-48V	*On*	REPT: MJ ALM MOC GRID 1
3	Replace fuse at 061-E	Off	Off	Off	Off	Off	None	*Off*	REPT: MJ ALM MOC GRID 1 COMP
4	At fuse position 081-E, insert test fuse [DLP-581]	Off	Off	Off	Off	*Off*	-48V	On	REPT: MJ ALM MOC GRID 1
5	Replace fuse at 081-E	Off	Off	Off	Off	Off	None	*Off*	REPT: MJ ALM MOC GRID 1 COMP

TEST SSD (IFB CLIENTS) FUSE ALARM

1. Using Table A, perform Steps 1 through 10 on Bay 0 of the 1B processor.

TABLE B

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	None	Off	
2	At MTC; enter message **RMV:CSB 1!** to remove Call Store Bus from service	Off	Off	*On*	Off	Off	None	Off	RMV CSB 0 COMPLETED
3	At fuse position 096A, insert test fuse	Off	Off	On	Off	Off	-48	*On*	REPT: MJ ALM MOC GRID 1
4	At fuse position 121A, insert test fuse	Off	Off	On	Off	*On*	-48+PA	On	REPT: PA CSB a FRM: 1B PROC BAY a
5	Depress **Off** button at KLW26 at 24-086	*Off*	Off	*On*	*Off*	*On*	-48+PA	On	
6	Unseat the KLW26 at 24-086	*Off*	Off	Off	Off	Off	-48	On	
7	Replace fuse at 096A and 121A	Off	Off	Off	Off	Off	None	*Off*	
8	Reseat the KLW26 at 24-086	*On*	Off	*On*	Off	Off	None	Off	
9	Depress **On** button at KLW26 at 24-086	*Off*	Off	*On*	*On* then *Off*	*Off*	None	Off	REPT: PWR RSTD CSB a FRM: 1B PROC BAY a
10	At MTC; enter message **RST:CSB 0!** to restore Call Store Bus from service	Off	Off	Off	Off	Off	None	*Off*	RST CSB 0 COMPLETED

TEST CALL STORE BUS FUSE ALARM

2. Using Table B, perform Steps 1 through 10 on Bay 1 of the 1B processor.

TABLE B

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED On	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	None	Off	
2	At MTC; enter message **RMV:CSB 1!** to remove Call Store Bus from service	Off	Off	*On*	Off	Off	None	Off	RMV CSB 1 COMPLETED
3	At fuse position 096B, insert test fuse	Off	Off	On	Off	Off	-48	*On*	REPT: MJ ALM MOC GRID 1
4	At fuse position 121B, insert test fuse	Off	Off	On	Off	*On*	-48+PA	On	REPT: PA CSB a FRM: 1B PROC BAY a
5	Depress **Off** button at KLW27 at 24-096	*Off*	Off	*On*	*Off*	*On*	-48+PA	On	
6	Unseat the KLW27 at 24-096	*Off*	Off	Off	Off	Off	-48	On	
7	Replace fuse at 096B and 121B	Off	Off	Off	Off	Off	None	*Off*	
8	Reseat the KLW27 at 24-096	*On*	Off	*On*	Off	Off	None	Off	
9	Depress **On** button at KLW27 at 24-096	*Off*	Off	*On*	*On* then *Off*	*Off*	None	Off	REPT: PWR RSTD CSB a FRM: 1B PROC BAY a
10	At MTC; enter message **RST:CSB 1!** to restore Call Store Bus from service	Off	Off	Off	Off	Off	None	*Off*	RST CSB 1 COMPLETED

1. At XPWR power control switch (EQL 58-023), perform Steps 1 through 7 in TABLE A

End of procedure

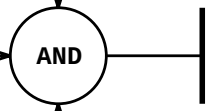
TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	-48 FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV XPWR a COMPLETED where a = XPWR number
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT MAN
6	Depress and hold **On** pushbutton until **Off** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*Off*	*On* then *Off*	Off	Off	Off	

PERFORM MISCELLANEOUS POWER UNIT (XPWR) POWER CYCLE

[1] See Note 1. Obtain test (blown) fuse

[2] Using fuse inserter/remover tool located at the upper left corner of the cabinet, remove the fuse by pulling straight out



[3] Insert test fuse into position to obtain alarm condition

NOTE 1
Test fuse can be made by pulling the flag out of the end of a fuse.

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ACTIVATE FUSE ALARM USING BLOWN FUSE

1. At **CONTR** power control switch, perform Steps 1 through 7 in TABLE A
   Location:
   CONTR0 - 53-066
   CONTR1 - 62-066

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS					OUTPUT MESSAGES
		ACK	OS	PA	OFF	LIP	
1	Observe initial conditions	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
2	Depress and hold **LTEST** pushbutton	*ON*	*ON*	*ON*	*ON*	*ON*	None **
3	Release **LTEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Toggle **ROS** switch to **ROS** position	*ON* then *OFF*	*ON*	*OFF*	*OFF*	*OFF*	RMV:XTSI a, CONTR b COMPL a = XTSI member number b = Controller number
5	Depress and release **OFF** switch	*OFF*	*ON*	*OFF*	*ON*	*OFF*	REPT:MAN PWR RMVD XTSI a, CONTR b FRM:XTSI c-d c-d = XTSI frame numbers
6	Depress and release **ON** pushbutton	*OFF*	*ON*	*OFF*	*OFF*	*OFF*	REPT:PWR RSTD XTSI a, CONTR b FRM:XTSI c-d
7	Toggle **ROS** switch to normal position	*ON* then *OFF* *	*ON* then *OFF* *	*OFF*	*OFF*	*OFF*	DGN:XTSI a, CONTR b COMPLETED CATP (SREC) RST:XTSI a, CONTR b COMPL (SREC & MTCE)

* It takes approximately 5 minutes for XTSI controller to be restored to service
** All PA lamps associated with controller will also be on

PERFORM XTSI CONTROLLER POWER CYCLE TEST

1. At **IPUB** power control switch, perform Steps 1 through 7 in TABLE A
   Location:
   IPUB0 - 53-188
   IPUB1 - 62-188

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS					OUTPUT MESSAGES
		ACK	OS	PA	OFF	LIP	
1	Observe initial conditions	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
2	Depress and hold **LTEST** pushbutton	*ON*	*ON*	*ON*	*ON*	*ON*	None *
3	Release **LTEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Toggle **ROS** switch to **ROS** position	*ON* then *OFF*	*ON*	*OFF*	*OFF*	*OFF*	RMV:XTSI a, IPUB b COMPL a = XTSI member number b = IPUB number
5	Depress and release **OFF** switch	*OFF*	*ON*	*OFF*	*ON*	*OFF*	REPT:MAN PWR RMVD XTSI a, IPUB b FRM:XTSI c-d c-d = XTSI frame numbers RMV:XTSI a, IPUB b COMPL
6	Depress and release **ON** pushbutton	*OFF*	*ON*	*OFF*	*OFF*	*OFF*	REPT:PWR RSTD XTSI a, IPUB b FRM:XTSI c-d
7	Toggle **ROS** switch to normal position	*ON* then *OFF* *	*ON* then *OFF* *	*OFF*	*OFF*	*OFF*	DGN:XTSI a, IPUB b COMPLETED ATP (SREC) RST:XTSI a, IPUB b COMPL (SREC & MTCE)

* All PA lamps associated with IPUB will also be ON

PERFORM XTSI IPUB POWER CYCLE TEST

1. At **ALC** power control switch, perform Steps 1 through 7 in TABLE A
   Location:
   ALC0 - 53-014
   ALC1 - 62-014

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES					
		POWER SWITCH LAMPS					OUTPUT MESSAGES
		ACK	OS	PA	OFF	LIP	
1	Observe initial conditions	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
2	Depress and hold **LTEST** pushbutton	*ON*	*ON*	*ON*	*ON*	*ON*	None
3	Release **LTEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Toggle **ROS** switch to **ROS** position	*ON* then *OFF*	*ON*	*OFF*	*OFF*	*OFF*	RMV:XTSI a, ALC b COMPL RMV:TMSP c, CONTR d COMPL a = XTSI member number b = A-Link circuit number c = TMS pair number d = TMS controller number
5	Depress and release **OFF** switch	*OFF*	*ON*	*OFF*	*ON*	*OFF*	REPT:MAN PWR RMVD XTSI a, ALC b FRM:XTSI e-f RMV:XTSI a, ALC b COMPL e-f = XTSI frame numbers
6	Depress and release **ON** pushbutton	*OFF*	*ON*	*OFF*	*OFF*	*OFF*	REPT:PWR RSTD XTSI a, ALC b FRM:XTSI e-f
7	Toggle **ROS** switch to normal position	*ON* then *OFF* *	*ON* then *OFF* *	*OFF*	*OFF*	*OFF*	DGN:TMSP c, CONTR d PH 9 IN PROGRESS (SREC) DGN:TMSP c, CONTR d:XTSI a COMPLETED CATP (SREC) RST:TMSP c, CONTR d COMPL (SREC & MTCE) RST:XTSI a, ALC b COMPL (SREC & MTCE)

* All PA lamps associated with ALC will also be ON

PERFORM XTSI ALC POWER CYCLE TEST

1. At each Service Circuit Controller (SCC), perform Steps 1 through 7 in TABLE A. SCC circuit pack locations are:

SCC 0 - 45-008
SCC 1 - 53-008

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					-48 Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV:SCS a, CONTR b COMPL a = member number (0-7) b = controller number (0-1)
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT:MAN PWR RMVD SCS a, CONTR b REPT:SCS A, CONTR b, COMPL
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	REPT:PWR RSTD SCS a, CONTR b
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*On* then *Off*	*On* then *Off*	Off	Off	Off	RST:SCS a, CONTR b COMPL a = member number (0-7) b = controller number (0-1)

In Step 5, the 5V Power Unit LED will go on
In Step 6, the 5V Power Unit LED will go off

PERFORM SERVICE CIRCUIT CONTROLLER POWER CYCLE TEST

1. At each Service Circuit Unit (SCU), perform Steps 1 through 7 in TABLE A. SCU circuit pack locations are:

SCU 0 (In SCC Cabinet 36-008)	SCU 1,5,9,13 36-008
SCU 1-15 (In SCU Cabinet)	SCU 2,6,10,14 45-008
	SCU 3,7,11,15 53-008
	SCU 4,8,12 62-008

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					-48 Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV:SCS a, SCU b COMPL a = member number (0-7) b = SCU member number (0-15)
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT:MAN PWR RMVD SCS a,SCU b REPT:SCS a, SCU b, COMPL
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	REPT:PWR RSTD SCS a, SCU b
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*Off*	*On* then *Off*	Off	Off	Off	RST:SCS a, SCU b COMPL a = member number (0-7) b = SCU member number (0-15)

In Step 5, the 5V Power Unit LED will go on
In Step 6, the 5V Power Unit LED will go off

PERFORM SERVICE CIRCUIT UNIT (SCU) POWER CYCLE TEST

1. At each Service Circuit System IPUB Power Control Switch, perform Steps 1 through 7 in TABLE A. IPUB circuit pack locations are:

   IPUB 0 045-176
   IPUB 1 053-176

End of procedure

TABLE A

STEPS	ACTION	REQUIRED RESPONSES							
		POWER SWITCH LAMPS					-48 Bezel LED	MAJOR AUDIBLE ALARM	OUTPUT MESSAGES
		OFF	PA	OS	ACK	FA			
1	Observe initial conditions	Off	Off	Off	Off	Off	Off	Off	
2	Depress and hold **LTEST** pushbutton	*On*	*On*	*On*	*On*	*On*	Off	Off	
3	Release **LTEST** pushbutton	*Off*	*Off*	*Off*	*Off*	*Off*	Off	Off	
4	Toggle **NORM/ROS** switch to **ROS** position	Off	Off	*On*	*On* then *Off*	Off	Off	Off	RMV:SCS a, IPUB b COMPL a = member number (0-7) b = IPUB number (0 or 1)
5	Depress **Off** switch	*On*	Off	On	Off	Off	Off	Off	REPT:MAN PWR RMVD SCS a,IPUB b REPT:SCS a, IPUB b, COMPL
6	Depress and hold **On** pushbutton until **OFF** lamp goes off	*Off*	Off	On	Off	Off	Off	Off	REPT:PWR RSTD SCS a, IPUB b
7	Toggle **NORM/ROS** switch to **NORM** position	Off	Off	*Off*	*On* then *Off*	Off	Off	Off	RST:SCS a, IPUB b COMPL a = member number (0-7) b = IPUB number (0 or 1)

In Step 5, the 5V Power Unit LED will go on
In Step 6, the 5V Power Unit LED will go off

PERFORM SCS IPUB POWER CYCLE TEST

1. At Ring and Tone Frame, perform Steps 1 through 7 in TABLE A for Side 0.

TABLE A

STEPS	ACTION	REQUIRED RESPONSES					
		MAIN CONTROL AND TRANSFER PANEL					OUTPUT MESSAGES
		OS-0	RING GEN TRANSFER	OFF NOR	PWR OFF	OS-1	
1	Observe initial conditions	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	
2	Set main selector switch to **OFF-0**	*ON*	*ON*	*ON*	*ON*	*OFF*	REPT:MAN PWR RMVD RT 0, SIDE 0 SW:RT 0 COMPL, 20hz 1 ACT
3	Install a blown fuse in an unused location for Side 0	*ON*	*ON*	*ON*	*ON*	*OFF*	Major alarm *NOT* received
4	Set main selector switch to **NOR**	*OFF*	*OFF*	*OFF*	*ON*	*OFF*	Major alarm is generated REPT:PA RT 0, SIDE 0 SW:RT 0 COMPL 20HZ 0 ACT SW:RT 0 COMPL SIDE 0 SW:RT 0 COMPL 20HZ 1 ACT SW:RT 0 COMPL 20HZ 0 ACT
5	Set main selector switch to **OFF-0**	*ON*	*ON*	*ON*	*ON*	*OFF*	Major alarm retired REPT:MAN PWR RMVD RT 0, SIDE 0 SW:RT 0 COMPL SIDE 1 ACT SW:RT 0 COMPL 20 HZ 1 ACT
6	Remove blown fuse inserted in Step 3	*ON*	*ON*	*ON*	*ON*	*OFF*	
7	Set main selector switch to **NOR**	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	REPT:MAN RSTD RT 0, SIDE 0 SW:RT 0 COMPL 20HZ 0 ACT SW:RT 0 COMPL SIDE 0 ACT

1. At Ring and Tone Frame, perform Steps 1 through 7 in TABLE A for Side 1.

TABLE A

STEPS	ACTION	REQUIRED RESPONSES					
		MAIN CONTROL AND TRANSFER PANEL					OUTPUT MESSAGES
		OS-0	RING GEN TRANSFER	OFF NOR	PWR OFF	OS-1	
1	Observe initial conditions	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	
2	Set main selector switch to **OFF-1**	*OFF*	*OFF*	*ON*	*ON*	*ON*	REPT:MAN PWR RMVD RT 0, SIDE 1
3	Install a blown fuse in an unused location for Side 1	*OFF*	*OFF*	*ON*	*ON*	*ON*	Major alarm *NOT* received
4	Set main selector switch to **NOR**	*OFF*	*OFF*	*ON*	*OFF*	*OFF*	Major alarm is generated REPT:PA RT 0, SIDE 1
5	Set main selector switch to **OFF-1**	*OFF*	*OFF*	*ON*	*ON*	*ON*	Major alarm retired REPT:MAN PWR RMVD RT 0, SIDE 1
6	Remove blown fuse inserted in Step 3	*OFF*	*OFF*	*ON*	*ON*	*ON*	
7	Set main selector switch to **NOR**	*OFF*	*OFF*	*OFF*	*OFF*	*OFF*	REPT:PWR RSTD RT 0, SIDE 1

1.1 At selected Fan, perform Steps 1 through 7 in TABLE A.

End of Procedure

TABLE A

STEP	ACTION	ACK	REQUIRED RESPONSES ENSURE THE FOLLOWING REQUIRED RESPONSES	OUTPUT MESSAGES OUTPUT MESSAGES
1	At XTSI Cabinet Fuse Panel, Remove Fuse for One Fan: • Fan B (69-064-4) • Fan E (69-068-4) • Fan G (69-072-3)		• Audible Major Alarm Is Received • At Front Top of XTSI Cabinet, **FAN** and **POWER** LED Is On • End Guard LED Is On • GRID **MJ** LED Is On • At Back of XTSI Cabinet, LED (41 - 004) Associated With Pulled Fuse Is On	None None RMV:XTSI a, IPUB b COMPL RMV:XTSI a, MEC b COMPL RMV:TMSP c, CONTR d COMPL a = XTSI member number b = A-LINK circuit number c = TMS pair number d = TMS controller number
2	Install Removed Fuse		None	
3	At Back of XTSI Cabinet, Operate **RESET** Switch (EQL 41 - 004) Down and Release		• Audible Major Alarm Is Retired • At Back of XTSI Cabinet, LED (41 - 004) Associated With Pulled Fuse Is Off • At Front Top of XTSI Cabinet, **FAN** and **POWER** LED Is Off • End Guard LED Is Off • GRID **MJ** LED Is Off	None
4	Repeat Steps 1 through 3 for Each Fan Fuse			
5	At Back of XTSI Cabinet at Fan Unit (Level 45), Disconnect Plug (Plug With 4 Wires) Associated With **FAN A** (Right Most Fan) Black 4 wire connector is normally located at the top left of Fan A		• Audible Major Alarm Is Received • At Back of XTSI Cabinet **A** LED (41 - 004), Is On • At Front Top of XTSI Cabinet, **FAN** and **POWER** LED Is On • End Guard LED Is On • GRID **MJ** LED Is On REPT:FAN AIR FLOW ALARM XTSI a a = XTSI member number	
6	At Back of XTSI Cabinet at Fan Unit (Level 45), Connect Plug Associated With **FAN A** Disconnected in Step 5		None	

TEST XTSI FAN FUSE ALARM

1. At Selected Fan, perform Steps 1 through 7 in Table A.

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
7	At Back of XTSI Cabinet, Operate **RESET** Switch (EQL 41 - 004) Down and Release	• Audible Major Alarm Is Retired • At Back of XTSI Cabinet, LED (41 - 004) Associated With Pulled Fuse Is Off • At Front Top of XTSI Cabinet, **FAN** and **POWER** LED Is Off • End Guard LED Is Off • GRID **MJ** LED Is Off REPT:FAN AIR FLOW RSTD XTSI a a = XTSI member number

1. At Selected Fan, perform Steps 1 through 5 in Table A.

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At SCC, Remove Fuse from Fan Pair #z: where z = Fan Pair Number 1-3 Start with z = 1 for fan pair #1. (Fan pair #1 (column 59 of fuse grid Fans A & E)	None
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fan fuses	None
3	Remove Fan Pair #z Fuse	• Audible Major Alarm Is Received • At Fuse and Filter Panel, Fuse LED of SCS n SCCC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fan and Fuse LED SCS n SCCC 0 cabinet, Is On (This LED will **NOT** light for Fan Pair #1) • At Lower Right Rear of SCS n SCCC 0 cabinet, x and y LEDs Are On (This LED will **NOT** light for Fan Pair #1) At the 1B MTCE SREC observe output message: ****REPT:FAN AIR FLOW ALARM SCS n.**
4	Remove Alarm Condition by: • Retire the alarm at the **MCC** • Replace the fuse • Press Fan Reset Button (**RED** button on right side of Fan Unit on Assembly with **LEDs A** through **G**) in back of this SCCC cabinet	• Audible Major Alarm Is Retired • At Fuse and Filter Panel, Fuse LED of SCS n SCCC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fan and Fuse LED SCS n SCCC 0 cabinet, Is Off (This LED will **NOT** light for Fan Pair #1) • At Lower Right Rear of SCS n SCCC 0 cabinet, x and y LEDs Are Off (This LED will **NOT** light for Fan Pair #1) At the 1B MTCE SREC observe output message: ****REPT:FAN AIR FLOW RSTD SCS n.**
5	**SEE NOTES ON PAGE TWO (2) OF THIS DLP**	

TEST SCC CABINET FAN ALARMS

1. At Selected Fan, perform Steps 1 through 5 in Table A of Page 1 of this DLP. End of procedure

NOTES:

n = SCS Member Number 0 - 7

x = A for column 59
B for column 168
C for column 91

y = E for column 59
F for coulmn 168
G for column 91

Fan Pair #2 = column 168 of the fuse grid = Fans **B** & **F**

Fan Pair #3 = column 91 of the fuse grid = Fans **C** & **G**

TEST SCC CABINET FAN ALARMS

1. At Selected Fan, perform Steps 1 through 5 in Table A.

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At SCUC, Remove Fuse from Fan Pair #z: where z = Fan Pair Number 1-3 Start with z = 1 for fan pair #1. (Fan pair #1 (column 23 of fuse grid Fans A & E)	None
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fan fuses	None
3	Remove Fan Pair #z Fuse	• Audible Major Alarm Is Received • At Fuse and Filter Panel, Fuse LED of SCS n SCUC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fan and Fuse LED SCS n SCUC 0 cabinet, Is On (This LED will **NOT** light for Fan Pair #1) • At Lower Right Rear of SCS n SCUC 0 cabinet, x and y LEDs Are On (This LED will **NOT** light for Fan Pair #1) At the 1B MTCE SREC observe output message: ****REPT:FAN AIR FLOW ALARM SCS n.**
4	Remove Alarm Condition by: • Retire the alarm at the **MCC** • Replace the fuse • Press Fan Reset Button (**RED** button on right side of Fan Unit on Assembly with **LEDs A** through **G**) in back of this SCUC cabinet	• Audible Major Alarm Is Retired • At Fuse and Filter Panel, Fuse LED of SCS n SCUC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fan and Fuse LED SCS n SCUC 0 cabinet, Is Off (This LED will **NOT** lightfor Fan Pair #1) • At Lower Right Rear of SCS n SCUC 0 cabinet, x and y LEDs Are Off (This LED will **NOT** light for Fan Pair #1) At the 1B MTCE SREC observe output message: ****REPT:FAN AIR FLOW RSTD SCS n.**
5	**SEE NOTES ON PAGE TWO (2) OF THIS DLP**	

TEST SCU CABINET FAN ALARMS

1. At Selected Fan, perform Steps 1 through 5 in Table A of Page 1 of this DLP. End of procedure

NOTES:

n = SCS Member Number 0 - 7

m = SCUC Number 1 - 4

x = A for column 23
B for column 150
C for column 50

y = E for column 23
F for coulmn 150
G for column 50

Fan Pair #2 = column 150 of the fuse grid = Fans **B** & **F**

Fan Pair #3 = column 50 of the fuse grid = Fans **C** & **G**

TEST SCU CABINET FAN ALARMS

1. At Selected fuse and power switch, perform Steps 1 through 7 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At power switch, toggle **NORM/ROS** switch to **ROS** position	RMV:SCS a,CONTR b COMPL a = Member Number 0 - 7 b = Controller Number 0 - 1
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fuses	None
3	At Fuse and Filter Panel (69 Level), Remove the 1.25 amp fuse for SCC b	• Audible Major Alarm is Received • At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is On • At the TN1984 CP for SCC b, Fuse LED Fuse Alarm (FA), Is On • At the 5V Power Unit, Off LED is ON • At the 1B MTCE SREC observe output message: ****REPT:PA SCS a SCC b** ****REPT:MJ ALM c GRID z (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is On • Aisle Pilot Light Is On
4	Remove Alarm Condition by: • Retire the alarm at the **MCC** • Replace the 1.25 amp fuse • Depress the **OFF** button on the TN1984 CP for SCC b • Depress the **ON** button on the TN1984 CP for SCC b	• Audible Major Alarm is Retired • At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is Off • At the TN1984 CP for SCC b, Fuse LED Fuse Alarm (FA), Is Off • At the 1B MTCE SREC observe output message: ****REPT:PWR RSTD SCS a SCC b** ****RTR:MJ ALM c GRID z COMPL (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is Off • Aisle Pilot Light Is Off

TEST SERVICE CIRCUIT CONTROLLER CABINET (SCCC)
SERVICE CIRCUIT CONTROLLER (SCC) MAJOR FUSE ALARMS

1. At Selected fuse and power switch, perform Steps 1 through 7 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
5	At power switch, toggle **NORM/ROS** switch to **NORMAL** position	At the 1B MTCE SREC observe output message: DGN:SCS a, CONTR b COMPLETED CATP (SREC) RST:SCS a, CONTR b COMPL
6	Repeat Steps 1-4 for 10 Ampere Fuse for CONTR b where b = 0 column 32 of the fuse grid b = 1 column 177 of the fuse grid	
7	Repeat Steps 1-4 for 10 Ampere Fuse for CONTR b if the indicated circuit packs on the fuse grid are present where b = 0 column 14 of the fuse grid b = 1 column 159 of the fuse grid	

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At power switch, toggle **NORM/ROS** switch to **ROS** position	RMV:SCS a,IPUB b COMPL a = Member Number 0 - 7 b = IPUB Number 0 - 1
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fuses	None
3	At Fuse and Filter Panel (69 Level), Remove the 3 amp fuse for IPUB b	• Audible Major Alarm is Received • At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is On • At the TN1671 CP for IPUB b, Fuse LED Fuse Alarm (FA), Is On • At the 5V Power Unit, the off LED in ON • At the 1B MTCE SREC observe output message: ****REPT:PA SCS a IPUB b** ****REPT:MJ ALM c GRID z (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is On • Aisle Pilot Light Is On
4	Remove Alarm Condition by: • Retire the alarm at the **MCC** • Replace the 3 amp fuse • Depress the **OFF** button on the TN1671 CP for IPUB b • Depress the **ON** button on the TN1671 CP for IPUB b	• Audible Major Alarm is Retired • At Fuse and Filter Panel, LED of SCS a SCCC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is Off • At the TN1671 CP for IPUB b, Fuse LED Fuse Alarm (FA), Is Off • At the 1B MTCE SREC observe output message: ****REPT:PWR RSTD SCS a IPUB b** ****RTR:MJ ALM c GRID z COMPL (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is Off • Aisle Pilot Light Is Off

TEST SERVICE CIRCUIT CONTROLLER CABINET (SCCC)
IPUB MAJOR FUSE ALARMS

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
5	At power switch, toggle **NORM/ROS** switch to **NORMAL** position	At the 1B MTCE SREC observe output message: DGN:SCS a, IPUB b COMPLETED CATP (SREC) RST:SCS a, IPUB b COMPL

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At power switch, toggle **NORM/ROS** switch to **ROS** position	RMV:SCS a, SCU 0 COMPL a = Member Number 0 - 7
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fuses	None
3	At Fuse and Filter Panel (69 Level), Remove the 7 amp fuse for SCU 0	• Audible Major Alarm is Received • At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is On • At the TN1984 CP for SCU 0, Fuse LED Fuse Alarm (FA), Is On • At the 1B MTCE SREC observe output message: ****REPT:PA SCS a SCU 0** ****REPT:MJ ALM c GRID z (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is On • Aisle Pilot Light Is On
4	Remove Alarm Condition by: • Retire the alarm at the **MCC** • Replace the 7 amp fuse • Depress the **OFF** button on the TN1984 CP for SCU 0 • Depress the **ON** button on the TN1984 CP for SCU 0	• Audible Major Alarm is Retired • At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is Off • At the TN1984 CP for SCU 0, Fuse LED Fuse Alarm (FA), Is Off • At the 1B MTCE SREC observe output message: ****REPT:PWR RSTD SCS a SCU 0** ****RTR:MJ ALM c GRID z COMPL (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is Off • Aisle Pilot Light Is Off

TEST SERVICE CIRCUIT CONTROLLER CABINET (SCCC)
SERVICE CIRCUIT UNIT 0 (SCU 0) MAJOR FUSE ALARMS

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
5	At power switch, toggle **NORM/ROS** switch to **NORMAL** position	• At the 1B MTCE SREC observe output message: DGN:SCS a, SCU 0 COMPLETED CATP (SREC) RST:SCS a, SCU 0 COMPL

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At power switch, toggle **NORM/ROS** switch to **ROS** position	RMV:SCS a, SCU 0 COMPL a = Member Number 0 - 7
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fuses	None
3	At Fuse and Filter Panel (69 Level), Remove the 7 amp fuse for HARD DSK UNIT (HDU) DPC	• At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is On • At UN356 CP for DPC, Fuse LED Fuse Alarm (FA), Is On
4	Remove Alarm Condition by: • Depress the **OFF** button of SCU 0's TN1984 CP • Replace the 7 amp fuse for appropriate HDU • Depress the **OFF** button on the UN356 CP • Depress the **ON** button on the UN356 CP and **WAIT 60 SECONDS** • Depress the **ON** button of SCU 0's TN1984 CP	• At Fuse and Filter Panel, Fuse LED of SCS a SCCC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCCC 0 cabinet, Is Off • At UN356 CP for DPC, Fuse LED Fuse Alarm (FA), Is Off
5	At SCU power switch, toggle **NORM/ROS** switch to **NORM** position	• At the 1B MTCE SREC observe output message: DGN:SCS a, SCU 0 COMPLETED CATP (SREC) RST:SCS a, SCU 0 COMPL

TEST SERVICE CIRCUIT CONTROLLER CABINET (SCCC) SERVICE CIRCUIT UNIT 0 (SCU 0) HARD DISK UNIT DISK POWER CONTROLLER (DPC) FUSE ALARMS

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At power switch, toggle **NORM/ROS** switch to **ROS** position	RMV:SCS a, SCU b COMPL a = Member Number 0 - 7 b = SCU Number 1 - 15
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fuses	None
3	At Fuse and Filter Panel (69 Level), Remove the 7 amp fuse for SCU b of SCS a SCUC x where a = SCS Member Number 0 - 7 x = SCUC Number 1 - 4	• Audible Major Alarm is Received • At Fuse and Filter Panel, Fuse LED of SCS a SCUC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCUC 0 cabinet, Is On • At the TN1984 CP for SCU b, Fuse LED Fuse Alarm (FA), Is On • At the 1B MTCE SREC observe output message: ****REPT:PA SCS a SCU b** ****REPT:MJ ALM c GRID z (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is On • Aisle Pilot Light Is On
4	Remove Alarm Condition by: • Retire the alarm at the **MCC** • Replace the 7 amp fuse • Depress the **OFF** button on the TN1984 CP for SCU b • Depress the **ON** button on the TN1984 CP for SCU b	• Audible Major Alarm is Retired • At Fuse and Filter Panel, Fuse LED of SCS a SCUC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCUC 0 cabinet, Is Off • At the TN1984 CP for SCU b, Fuse LED Fuse Alarm (FA), Is Off • At the 1B MTCE SREC observe output message: ****REPT:PWR RSTD SCS a SCU b** ****RTR:MJ ALM c GRID z COMPL (SREC)** where c = Work Center Name z = GRID Number 1 - 15 • End Guard Light Is Off • Aisle Pilot Light Is Off

TEST SERVICE CIRCUIT UNITS 1-15 (SCU'S 1-15) MAJOR FUSE ALARM

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
5	At power switch, toggle **NORM/ROS** switch to **NORMAL** position	• At the 1B MTCE SREC observe output message: DGN:SCS a, SCU b COMPLETED CATP (SREC) RST:SCS a, SCU b COMPL

1. At Selected fuse and power switch, perform Steps 1 through 5 in Table A. End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At power switch, toggle **NORM/ROS** switch to **ROS** position	RMV:SCS a, SCU b COMPL a = Member Number 0 - 7 b = SCU Number 1 - 15
2	At Fuse and Filter Panel (69 Level), flip up panel and refer to the chart to locate fuses	None
3	At Fuse and Filter Panel (69 Level), Remove the 7 amp fuse for HARD DSK UNIT (HDU) DPC associated with SCU b of SCS a SCUC x where = x SCUC Number 1 - 4	• At Fuse and Filter Panel, Fuse LED of SCS a SCUC 0 cabinet, Is On • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCUC 0 cabinet, Is On • At UN356 CP for DPC, Fuse LED Fuse Alarm (FA), Is On
4	Remove Alarm Condition by: • Depress the **OFF** button of SCU 0's TN1984 CP • Replace the 7 amp fuse for appropriate HDU • Depress the **OFF** button on the UN356 CP • Depress the **ON** button on the UN356 CP and **WAIT 60 SECONDS** • Depress the **ON** button of SCU 0's TN1984 CP	• At Fuse and Filter Panel, LED of SCS a SCUC 0 cabinet, Is Off • At Right Front of the Flip Fuse Panel, Fuse LED SCS a SCUC 0 cabinet, Is Off • At UN356 CP for DPC, Fuse LED Fuse Alarm (FA), Is Off
5	At SCU power switch, toggle **NORM/ROS** switch to **NORM** position	• At the 1B MTCE SREC observe output message: DGN:SCS a, SCU b COMPLETED CATP (SREC) RST:SCS a, SCU b COMPL

TEST SERVICE CIRCUIT UNITS 1-15 (SCU 1-15) HARD DISK UNIT DISK POWER CONTROLLER (DPC) FUSE ALARMS

Assigning Dummy Trunks for NETN Tests
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960 minimum dummy trunks must be provisioned in CAD.DSA state as 2-way (out-of-band) Data trunks (to make sure EC/TV will be turned off).

NOTE: Trunk provisioning for XTSI is not being done on a DS120 basis; rather than use only TAN timeslots n001-n120 per TAN Level n, all TAN timeslots n000-n127 per XTSI SPC are used without breaks for maintenance slots except that the very first TAN timeslot 0000 per SPC and the last 15 timeslots per SPC are reserved for maintenance) To extend a point, all trunks within a XTSI SPC could be defined and assigned with one statement for 1008 trunks (starting at TAN x0001 because they are consecutively numbered/used without breaks for maintenance use.

Assumptions:

1. A minimum of 960 dummy trunks in CAD.DSA state to the XTSI are are needed for full NETX testing.
2. Each of four XTSI SPCs should have 240 dummy trunks minimum.
3. Each of the six DS3s should be set up for 160 minimum dummy trunks, with 80 minimum trunks assigned from DSIs 1-14 within each DS3 and 80 minimum trunks from DS1s 15-28 within each DS3.

Provision dummy trunks either as DS1s or as groups of 96 consecutive TANs (equivalent of four consecutive DS1s) per the following table:

Start TAN	Finish TAN	D3U	DS1s	Start TANs for DS1s 2,3,4 (16,17,18)
xx00001	xx00096	0	1-4	xx00025, xx00049, xx00073
xx10001	xx10096	0	15-18	xx10025, xx10049, xx10073
xx02081	xx03048	1	1-4	xx02105, xx03001, xx03025
xxl2081	xx13048	1	15-18	xx12105, xx13001, xx13025
xx05033	xx06000	2	1-4	xx05057, xx05081, xx05105
xx15033	xx16000	2	15-18	xx15057, xx15081, xx13025
yy00001	yy00096	3	1-4	yy00025, yy00049, yy00073
yy10001	yy10096	3	15-18	yy10025. yy10049. yy10073
yy02081	yy03048	4	1-4	yy02105. yy03001, yy03025
yy12081	yy13048	4	15-18	yy12105, yy13001. yy13025
yy05033	yy06000	5	1-4	yy05057, yy05081, yy05105
yy15033	yy16000	5	15-18	yy15057. yy15081, yy15105

where: xx is XTSI MEMN & yy is XTSI Mate (Odd-numbered) MEMN

GUIDELINES FOR ASSIGNING DUMMY TRUNKS AND ECHO CANCELLATION/TRUE VOICE CONNECTIONS FOR NETX TESTING

SPU Assignments for NETX Tests

Next, are guidelines for routing trunk paths through packs for NETX testing. This will occur in XTSI Release 2 frame growths. Only NETX trunks for D3Us 0-2 will have SPU circuits assigned to them. Neither Echo Cancellation nor ***AT&T Truvoice***® (EC/TV) telecommunication services wi11 be active (like smple contnuity through the SPU) when runnng NETX, to assure proper non-interference of EC/TV pathing.

Using RC Form 706, each growth opertional SPU must be defined as an FTA entry with the following characteristcs for SPC0 SPC1:

HYBLS blank NMATCH DISAB TONDIS NONE

After all operational SPU clients have been defined using RC Form 706, verify SPU assignments by entering "VER:VFUNC XTSISPU:FDl XTSIMENN,DT1 b!" (where b is the XTSI MEMN). Then enter RC Form 211 for 24 lines to link each DS1 (defined by Start TAN) to the first six lines above, to set up EC/TV paths for dummy NETX trunks on D3Us 0/1/2 only. with even distribution across SPUs (see following example for setting up SPUs 0 through 4):

D3U	DS1	Start TAN	SPUN		D3U	DS1	Start TAN	SPUN
0	1	xx00001	0		0	15	xx10001	1
0	2	xx00025	2		0	16	xx10025	3
0	3	xx00049	4		0	17	xx10049	0
0	4	xx00073	1		0	18	xx10073	2
1	1	xx02081	3		1	15	xx12081	4
1	2	xx02105	0		1	16	xx12105	1
1	3	xx03001	2		1	17	xx13001	3
1	4	xx03025	4		1	18	xx13025	0
2	1	xx05033	1		2	15	xx15033	2
2	2	xx05057	3		2	16	xx15057	4
2	3	xx05081	0		2	17	xx15081	1
2	4	xx05105	2		2	18	xx15105	3

where xx is the XTSI MEMN.

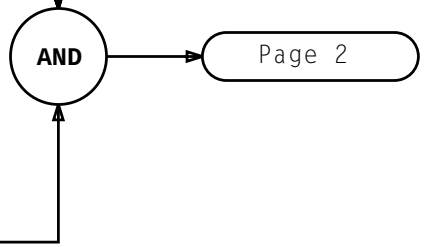
With each form entered, ssign the folloing characteristics, which allow the SPU di-groups to be auto-ssigned:

ACTION A HYBLS blank NMATCH TONDIS NONE
TVTYP NONE SPUDG blank

By listing assigned SPU DS1s with "VER:VFUNC XTSPUDG:FD1 XTSIMEMN,DT1 b!" (where b is the the XTSI MEMN), verify that there is a line listed for each dummy NETX DS1 provisioned for D3U 0/1/2.

GUIDELINES FOR ASSIGNING DUMMY TRUNKS AND ECHO CANCELLATION/TRUE VOICE CONNECTIONS FOR NETX TESTING

[1] Using TABLE A, determine one TAN to be used in OP:TRKSTAT message



[2] At 1B MTC terminal, enter message per TABLE B to verify trunks were set to CAD.DSA state

TABLE B	
MESSAGE NUMBER	**INPUT MESSAGE**
1	OP:TRKSTAT,TAN a;SUM:NUM 1008,STAT CAD.DSA!
a = Base TAN determined in Step 1	

TABLE A	
XTSI MEMN	**TAN**
Even	xx00001
Even	xx10001
Odd	yy00001
Odd	yy10001
xx = Even member number of growth XTSI yy = Odd member number of growth XTSI	

VERIFY TRUNKS SET TO CAD.DSA STATE

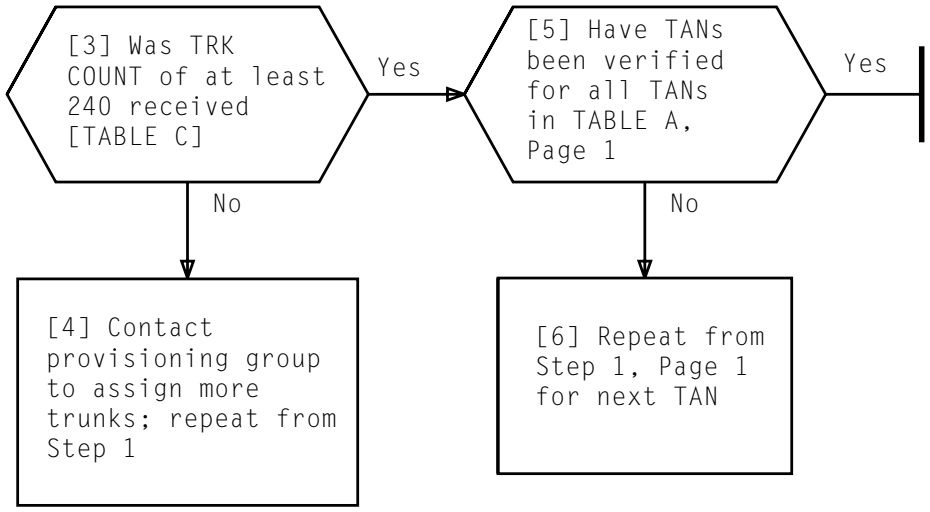


TABLE C

MESSAGE NUMBER	OUTPUT MESSAGE
1	OP:TRKSTAT CAD.DSA ,TAN a NUM,STAT CAD.DSA SUM COMPLETED TRK COUNT b

a = Base TAN for unit
b = At least 240

VERIFY TRUNKS SET TO CAD.DSA STATE

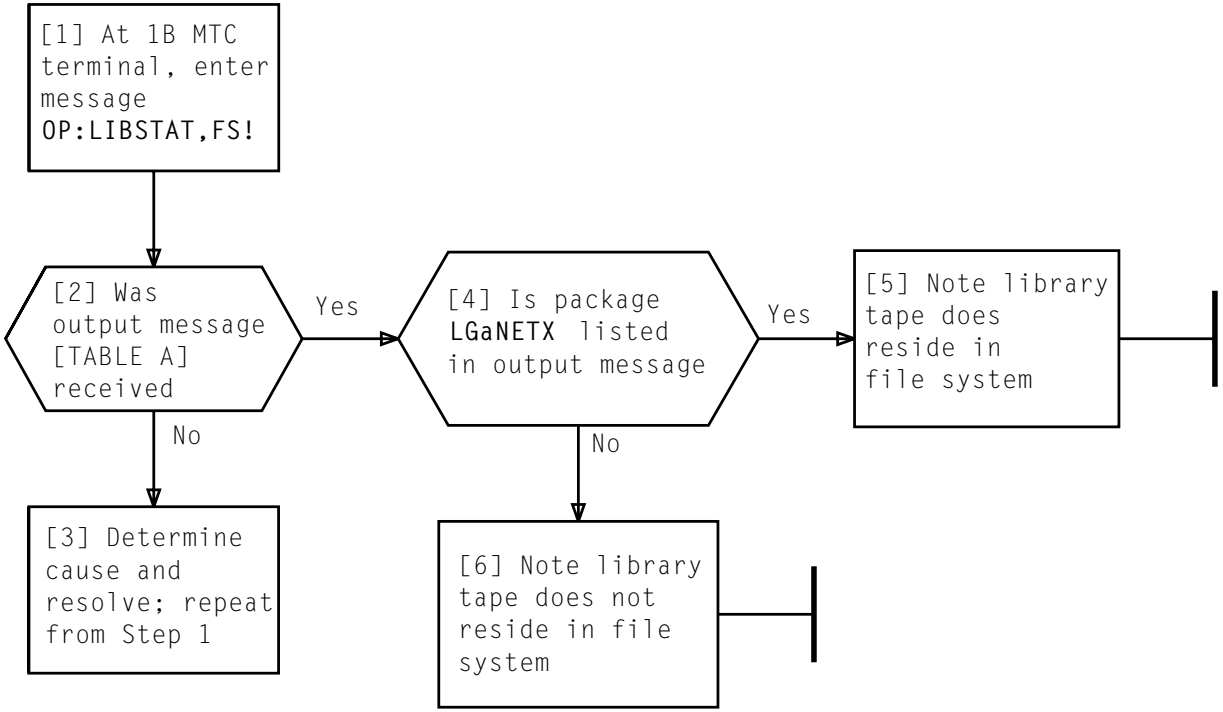
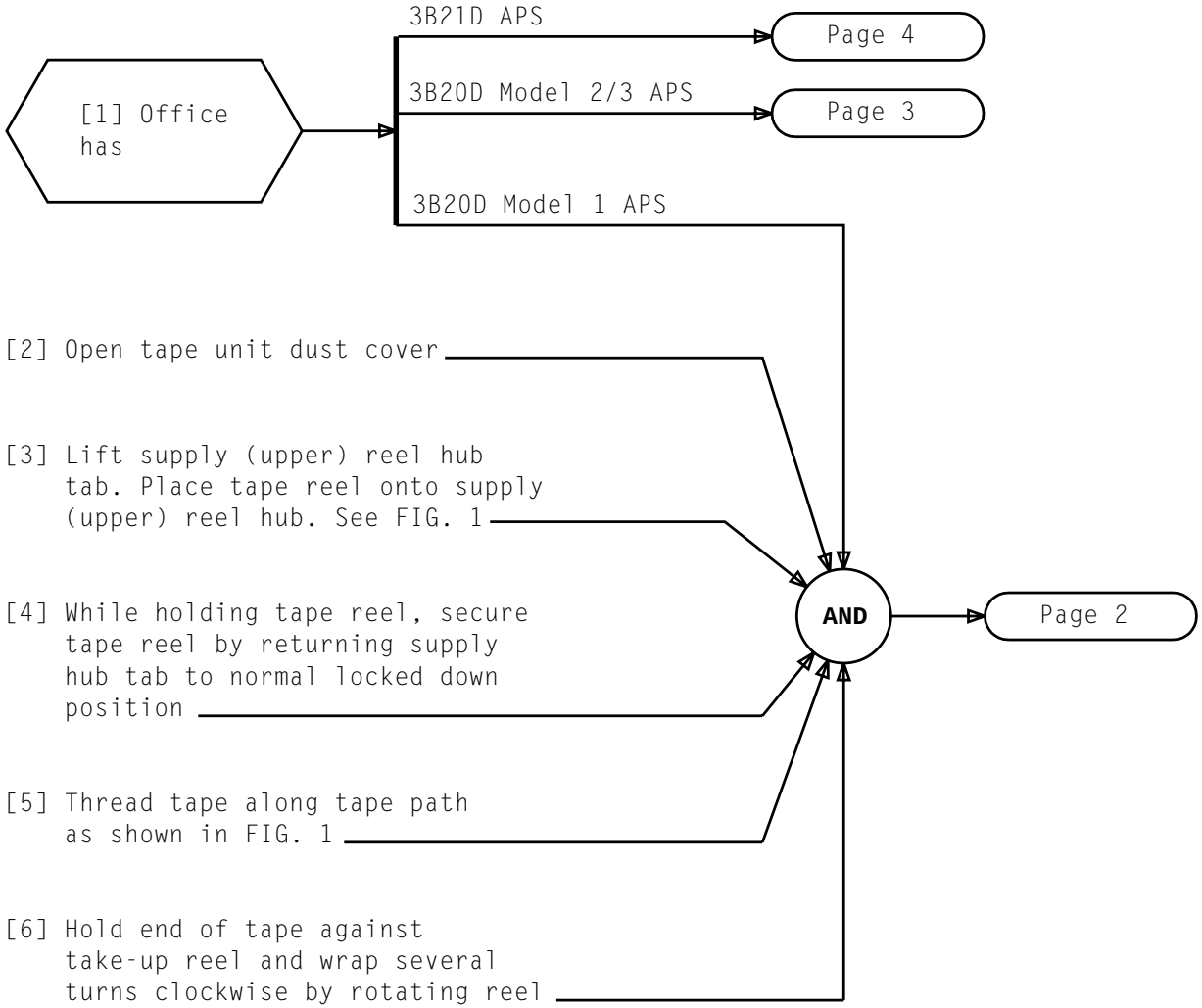


TABLE A

MESSAGE NUMBER	OUTPUT MESSAGE
1	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



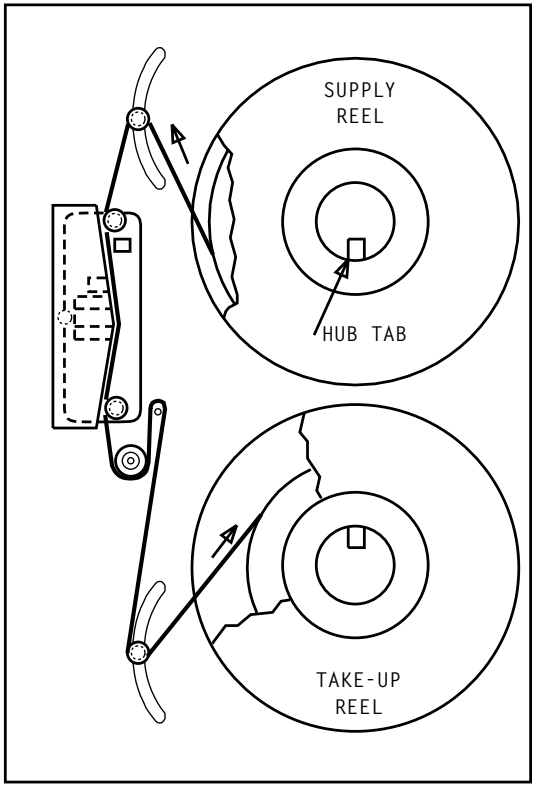


FIG. 1

MOUNT TAPE ON DIGITAL AUDIO TAPE (DAT) UNIT

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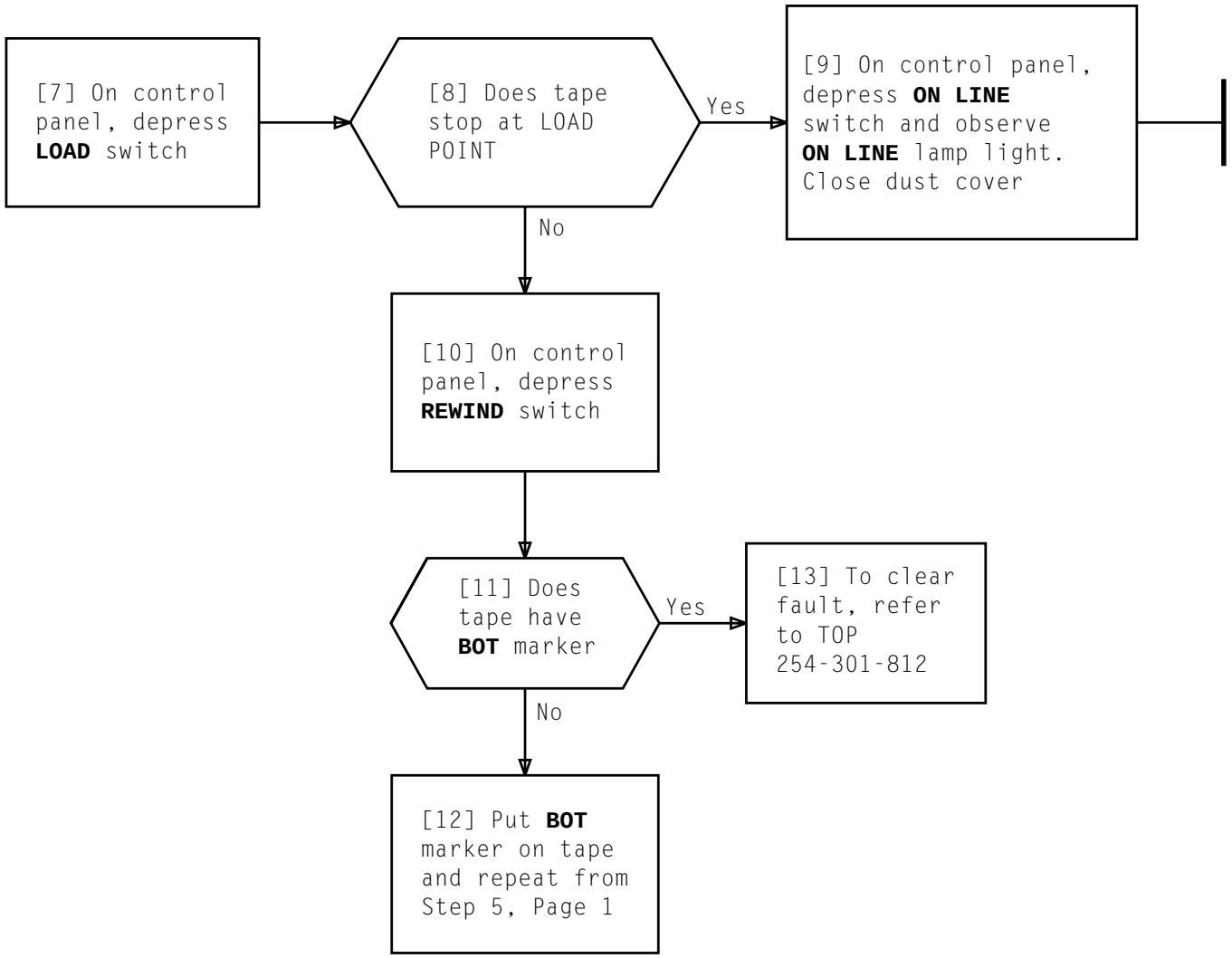


MOUNT TAPE ON DIGITAL AUDIO TAPE (DAT) UNIT

[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

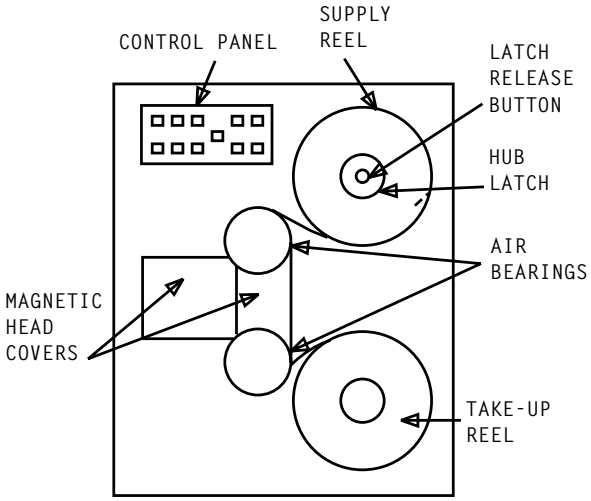


FIG. 2

MOUNT TAPE ON DIGITAL AUDIO TAPE (DAT) UNIT

[25] Is tape to be written

No

Yes

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

[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]

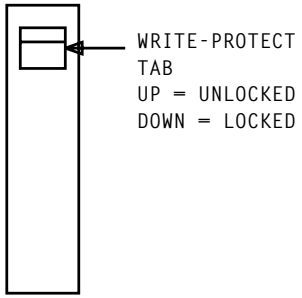


FIG. 3 — 4-mm Tape

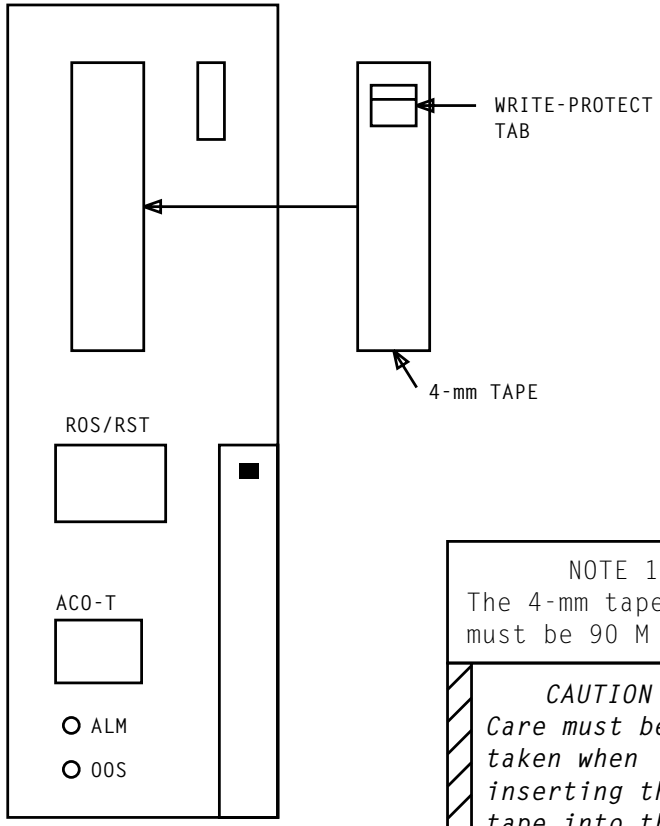
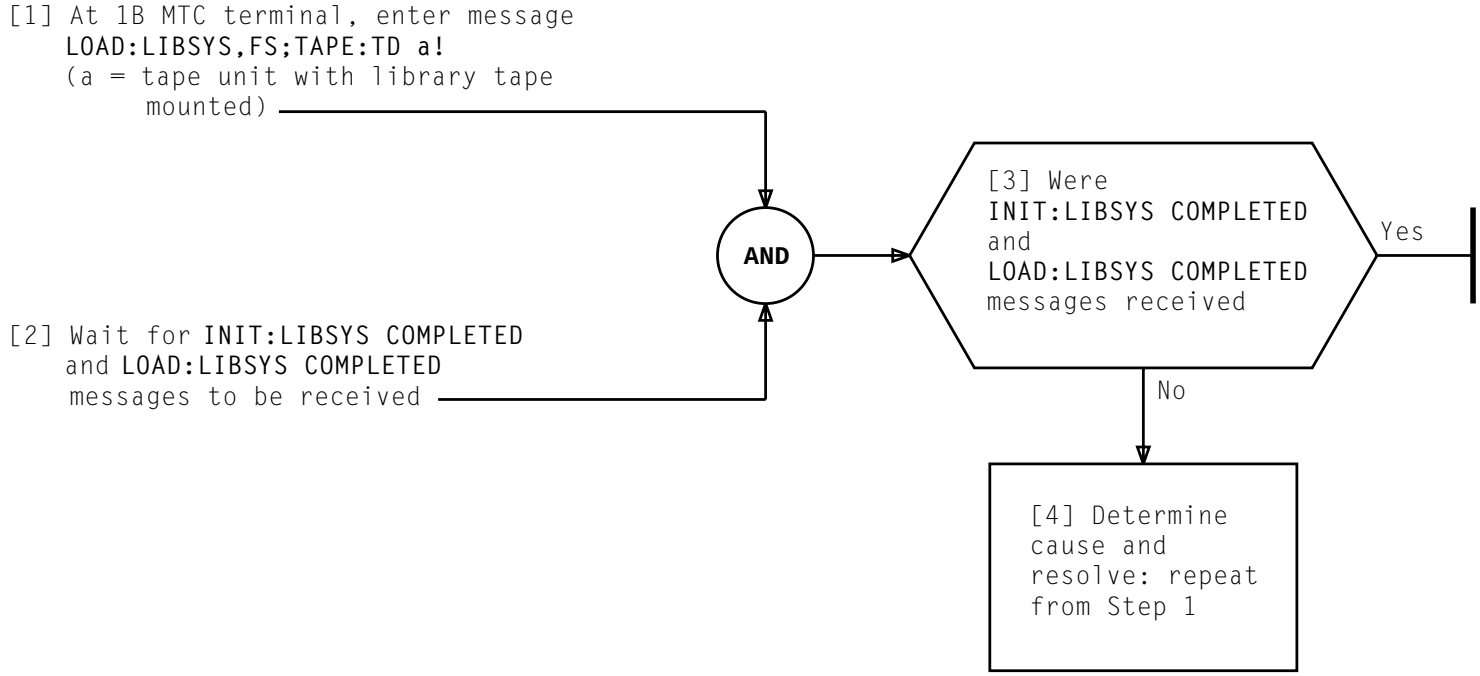


FIG. 4 — DAT Unit

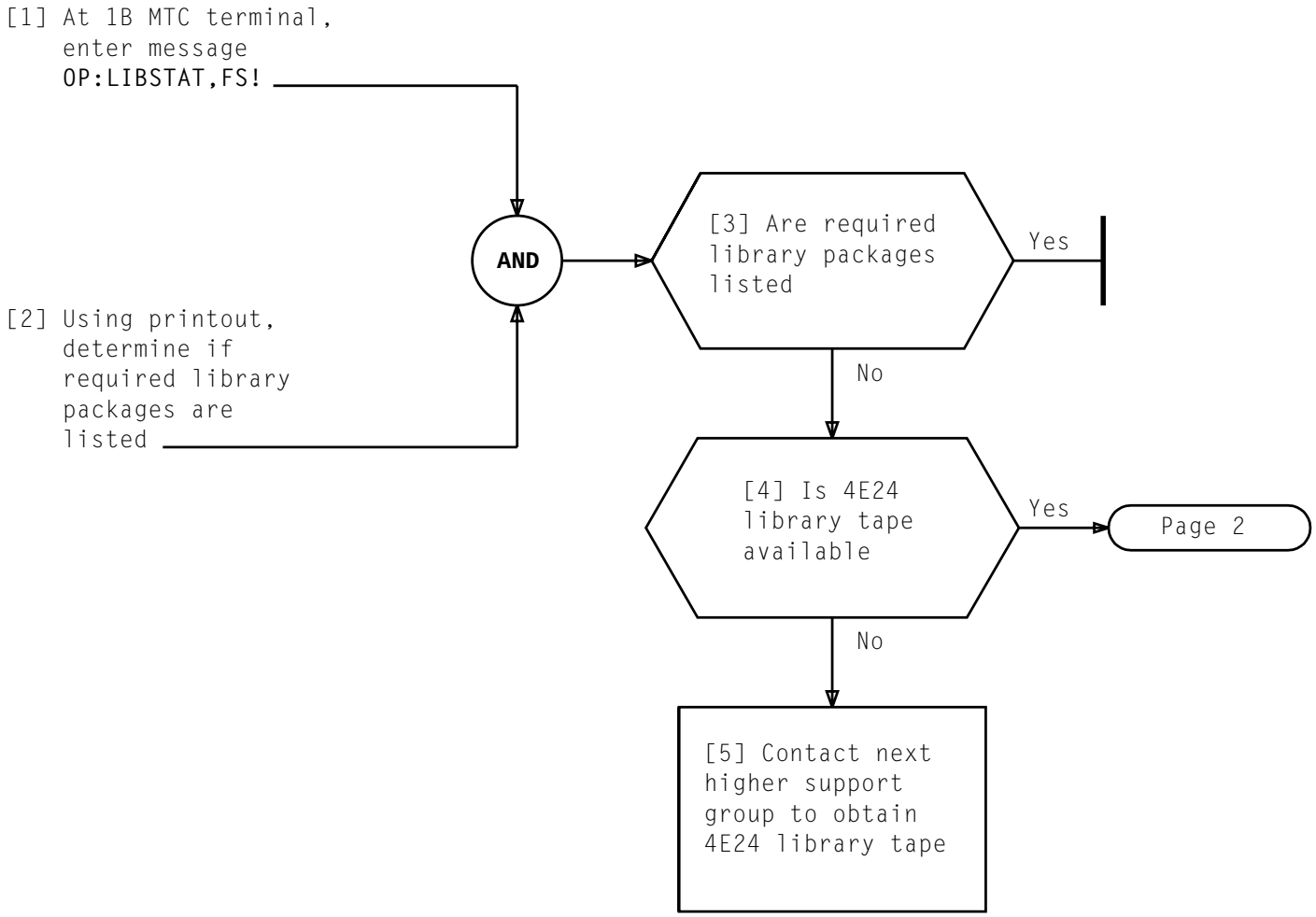
NOTE 1
The 4-mm tape length must be 90 M

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

MOUNT TAPE ON DIGITAL AUDIO TAPE (DAT) UNIT



LOAD LIBRARY PROGRAM PACKAGES FROM ORIGINAL TAPE ONTO DISK



LOAD LIBRARY PROGRAM PACKAGES FROM BACKUP TAPE ONTO DISK

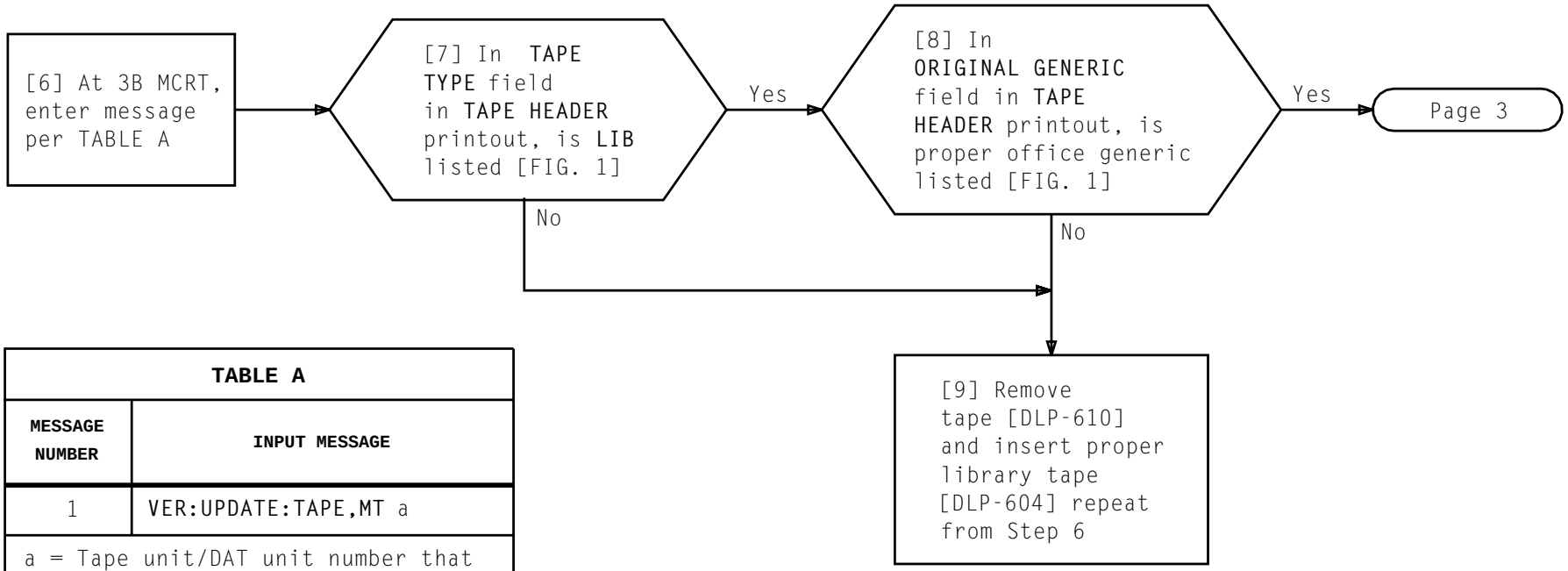


TABLE A

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

a = Tape unit/DAT unit number that library tape is inserted (0 or 1)

THIS VALUE MUST BE SAME AS GENERIC OFFICE IS RUNNING ON

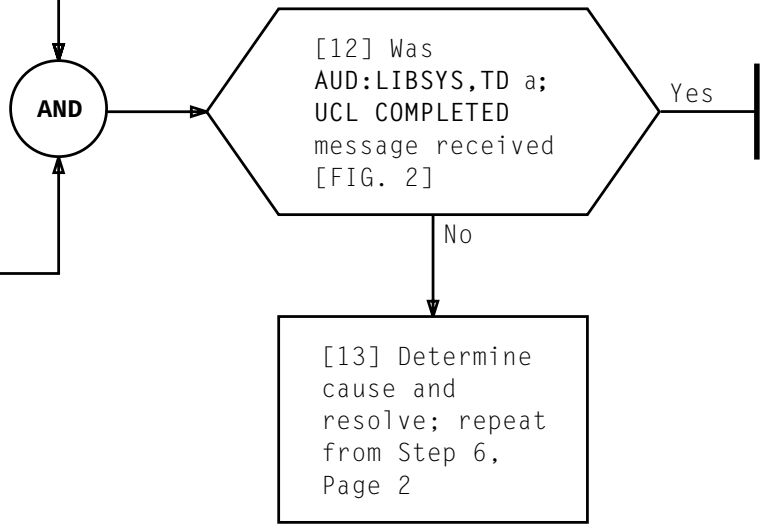
```
TAPE HEADER

TAPE TYPE: LIB
ORIGINAL GENERIC 4E<23>5A.00 R1
MOST RECENT OFL GENERATION: . . . . .
THIS TAPE WRITTEN: . . . . .
FS IDS: . . . . .
PARTL UPD FLG: . . . . .
```

FIG. 1 - Example of TAPE HEADER Printout

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

[11] 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

LOAD LIBRARY PROGRAM PACKAGES FROM BACKUP TAPE ONTO DISK

1. Enter Message **SET:NETROUT;**xxxx**:MEMN** a!

   xxxx = network routing path to be tested (NORM, RTSI, TTSI, and BOTH)

   Note: Member number entered must be an even number; for example, member numbers ten and eleven are used if ten is entered in conjunction with this message. An error message will be printed if the companion number is entered.

   a = even member number of XTSI to be tested

   Response: **SET: NETROUT;** xxxx**: MEMN** a **COMPLETED**
   NETWORK ROUTING TABLE UPDATED
   TSI RESTORE REQUESTED.

2. Step 1 must be repeated for each pair of member numbers (XTSI frame) to be tested.

End of procedure

SET NETWORK ROUTING

1.0 Copy NETEX from file store to program store and begin executing idle loop; enter message
EX:LIBSYS:PKG LGxNETX,PGM NETX,TASK 0,CLIENT 0!
x = current generic program

Response: Prompt output message indicating office status

2.0 Observe prompt output message and note if office translations indicate precut or in-service office status

2.1 If precut status is indicated:

1. Enter message to terminate program
(IN:LIBSYS:CLIENT 0,ASC(NO)!)

2. Contact support group or NESAC for applicable overwrites.

3. Execute overwrites to set office status to in-service.

4. Repeat from 1.0.

2.2 Enter message **IN:LIBSYS:CLIENT 0,ASC(YES)!**

End of procedure

EXECUTE NETX LIBRARY PROGRAM AND SET OFFICE TRANSLATIONS TO IN-SERVICE

1. Observe following prompt output message:
   NETX ENTER AVERAGE OCCUPANCY ON SPCS DESIRED — DEC(50-960)
   RANGE 841-960 IS APPLICABLE TO XTSI

2. Enter message IN:LIBSYS:CLIENT 0,DEC(xxx)!
   xxx = occupancy level desired

   NOTE 1: NETX should be set to 200 connect level during initial NETX testing; however occupancy level requested must be less than the number of trunks available on growth XTSI.

   NOTE 2: If NETX testing is terminated to run audits, restart NETX program at the same connect level before termination unless otherwise instructed.

   Response: NETX ENTER TSI MEMBER NUMBERS — DEC(0-63)
   NETX CAUTION, CAN ONLY ENTER NEWLY GROWN TSI MEMNS

   NOTE: Member numbers entered must be an even number; for example, member numbers ten and eleven are used if a ten is entered in conjunction with use message. An error message will be printed if companion number is entered.

3. Enter Message IN:LIBSYS:CLIENT 0,DEC(a)!
   a = even-numbered growth XTSI

   Response: NETX ENTER RUN TO START THE EXERCISE - ASC(RUN)

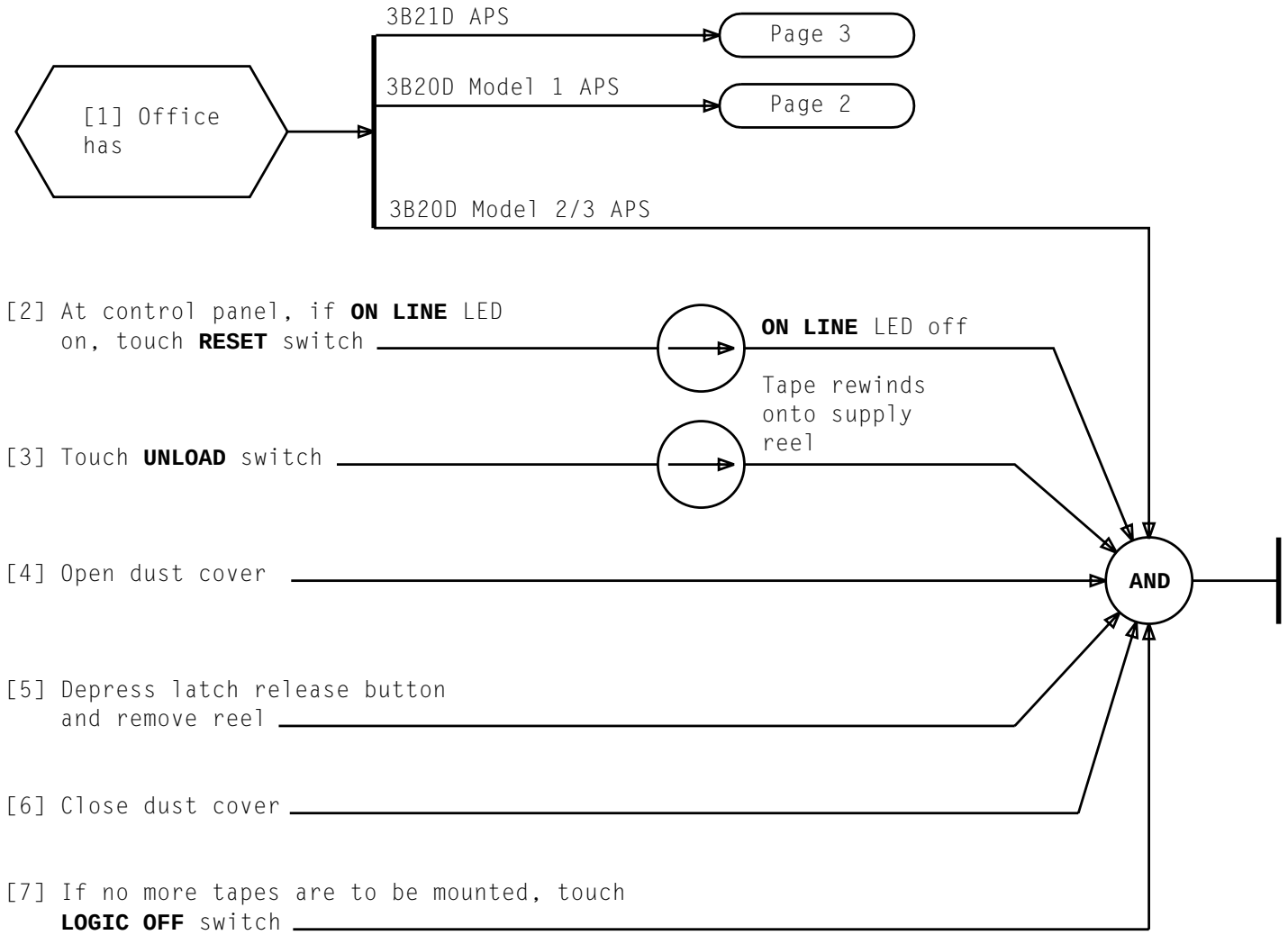
Continued on Page 2

INPUT INITIAL NETX PROGRAM EXECUTION DATA

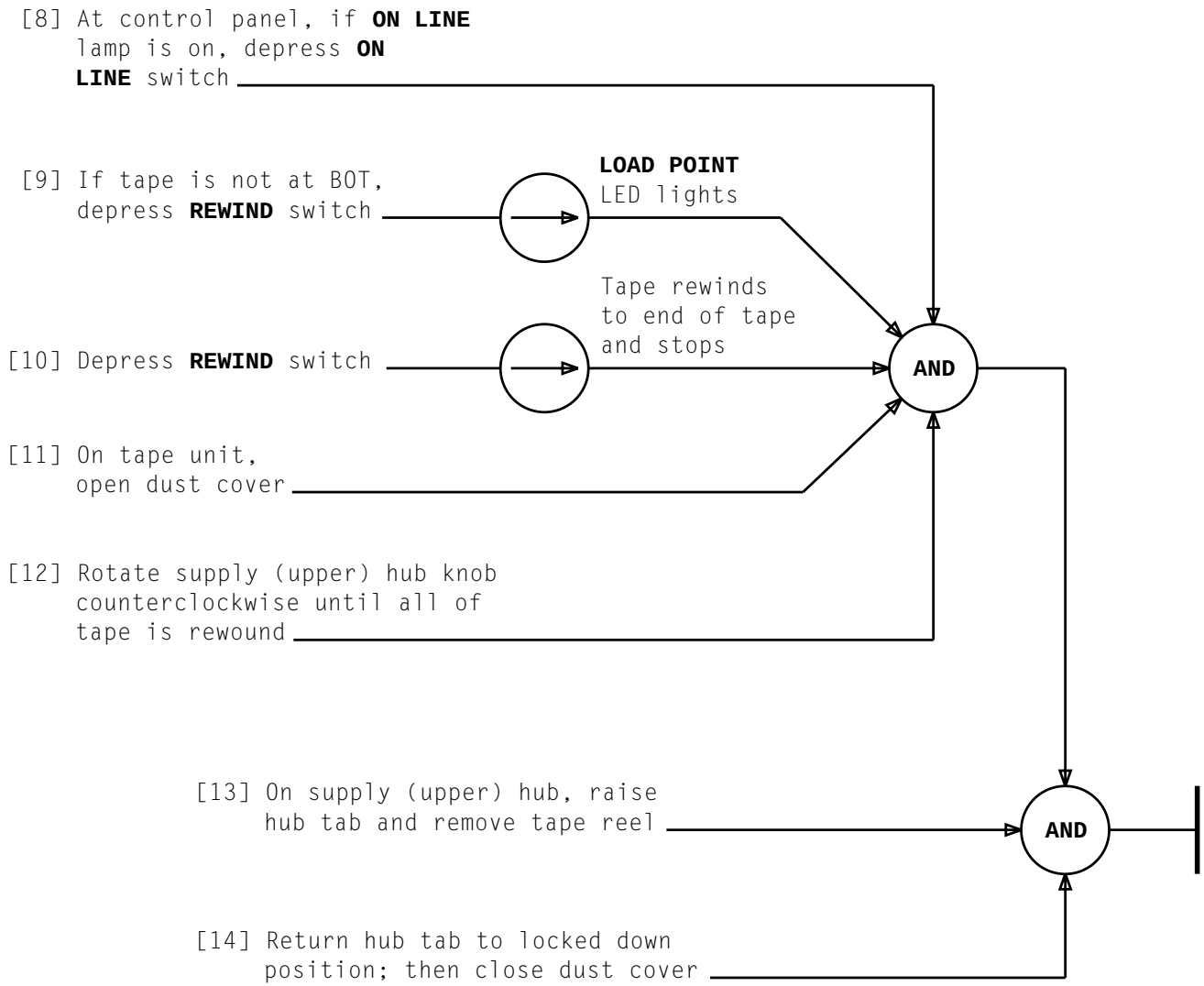
4. Enter message: IN:LIBSYS:CLIENT 0,ASC(RUN)!

Response: NETX EXERCISE IN PROGRESS
NETX TRUNK AUDIT IS RUNNING.
NETX IO WILL BE LOCKED OUT UNTIL AUDIT IS COMPLETE.
REPT:NETX TRUNK AUDIT COMPLETE. NETX IO IS UNLOCKED.
REPT: NETX THE FOLLOWING AUDITS HAVE BEEN INHIBITED BY NETEX:
8 16 19 27 28 29 32 33 34 36 46 48 52
DO NOT RELEASE THESE AUDITS WHILE NETEX IS RUNNING.
THESE AUDITS MUST BE RELEASED AFTER NETEX HAS BEEN TERMINATED.
and additional output messages indicating
XTSI/SPC and number of trunks available for
testing

End of procedure



REMOVE TAPE FROM DIGITAL AUDIO TAPE (DAT) UNIT



REMOVE TAPE FROM DIGITAL AUDIO TAPE (DAT) UNIT

[15] At digital audio tape (DAT) unit that contains tape to be removed, depress eject button [FIG. 1]

[16] Was tape just written

No

Yes

[17] Put write-protect tab in the down (locked) position [FIG. 2]

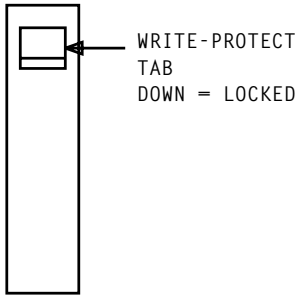


FIG. 2 — 4-mm Tape

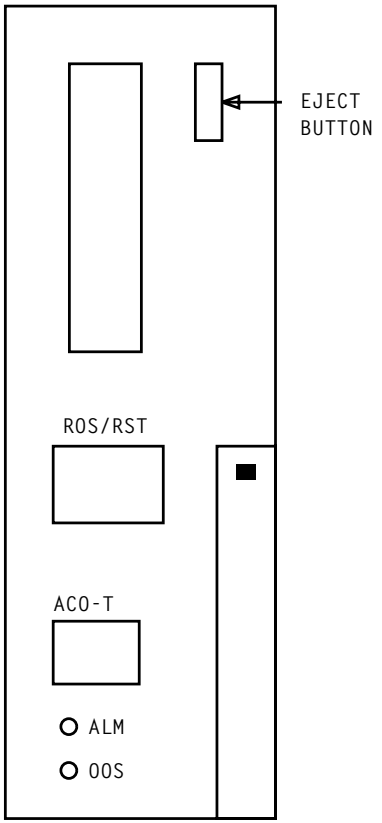


FIG. 1 — DAT Unit

REMOVE TAPE FROM DIGITAL AUDIO TAPE (DAT) UNIT

1. At **MC** power control switch (location 48-36), perform Steps 1 through 7 in TABLE A

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES				
		POWER SWITCH LAMPS				OUTPUT MESSAGES
		OFF NORM	ACK	OS	PWR OFF	
1	Observe initial conditions	Off	Off	Off	Off	None
2	Depress and hold **TEST** pushbutton	*ON*	*ON*	*ON*	*ON*	None
3	Release **TEST** pushbutton	*OFF*	*OFF*	*OFF*	*OFF*	None
4	Rotate **ROS/OFF** switch clockwise to **ROS** position	*ON*	Off	Off	Off	None
5	Depress and release **ROS/OFF** switch	On	Off	Off	*ON*	REPT:AUD ALM CUTOFF MC a a = Member number
6	Depress and release **ON** pushbutton	On	Off	Off	*OFF*	REPT:AUD ALM RSTD MC a
7	Rotate **ROS/OFF** switch counterclockwise to normal position	*OFF*	Off	Off	Off	None

1. At Selected Fan, perform Steps 1 through 7 in Table A.

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
1	At 3B21D Cabinet Fuse Panel, Remove Fuse for One Fan: • Fan B (69-032) • Fan C (69-041) • Fan E (69-159) • Fan F (69-168) • Fan G (69-177)	• Audible Major Alarm Is Received • At Front Top of 3B21D Cabinet, **FAN** LED Is On • End Guard LED Is On • GRID **MJ** LED Is On • At Back of 3B21D Cabinet, LED (36 - 004) Associated With Pulled Fuse Is On
2	Install Removed Fuse	None
3	At Back of 3B21D Cabinet, Operate **RESET** Switch (EQL 36 - 004) Down and Release	• Audible Major Alarm Is Retired • At Back of 3B21D Cabinet, LED (36 - 004) Associated With Pulled Fuse Is Off • At Front Top of 3B21D Cabinet, **FAN** LED Is Off • End Guard LED Is Off • GRID **MJ** LED Is Off
4	Repeat Steps 1 through 3 for Each Fan Fuse	
5	At Front of 3B21D Cabinet at Fan Unit (Level 36), Disconnect Plug (Plug With 4 Wires) Associated With **FAN A** (Right Most Fan) Black 4 wire connector is normally located at the top left of Fan A	• Audible Major Alarm Is Received • At Back of 3B21D Cabinet **A** LED (36 - 004), Is On • At Front Top of 3B21D Cabinet, **FAN** LED Is On • End Guard LED Is On • GRID **MJ** LED Is On REPT:FAN ALARM CU BASIC CABINET
6	At Front of 3B21D Cabinet at Fan Unit (Level 36), Connect Plug Associated With **FAN A** Disconnected in Step 5	None

TEST 3B21D FAN ALARMS

1. At Selected Fan, perform Steps 1 through 7 in Table A.

End of procedure

TABLE A

STEP	ACTION	REQUIRED RESPONSES ENSURE THE FOLLOWING
7	At Back of 3B21D Cabinet, Operate **RESET** Switch (EQL 36 - 004) Down and Release	• Audible Major Alarm Is Retired • At Back of 3B21D Cabinet, LED (36 - 004) Associated With Pulled Fuse Is Off • At Front Top of 3B21D Cabinet, **FAN** LED Is Off • End Guard LED Is Off • GRID **MJ** LED Is Off REPT:FAN ALARM CLEARED CU BASIC CABINET

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
IXL-001		DLP-506		☐ DLP-541		DLP-576		• DLP-611			
• NTP-002		DLP-507		DLP-542		DLP-577		• DLP-612			
• NTP-003		DLP-508		DLP-543		DLP-578		• DLP-613			
• NTP-004		DLP-509		DLP-544		DLP-579		• DLP-614			
NTP-005		• DLP-510		DLP-545		DLP-580		• DLP-615			
NTP-006		DLP-511		DLP-546		DLP-581		• DLP-616			
☐ NTP-007		DLP-512		DLP-547		DLP-582		CKL-891			
NTP-008		DLP-513		DLP-548		DLP-583		TNG-893			
NTP-009		DLP-514		DLP-549		DLP-584					
NTP-010		DLP-515		DLP-550		☐ DLP-585					
NTP-011		DLP-516		DLP-551		☐ DLP-586					
NTP-012		☐ DLP-517		DLP-552		☐ DLP-587					
NTP-013		DLP-518		☐ DLP-553		DLP-588					
☐ NTP-014		DLP-519		☐ DLP-554		DLP-589					
NTP-015		☐ DLP-520		☐ DLP-555		DLP-590					
NTP-016		DLP-521		☐ DLP-556		DLP-591					
☐ NTP-017		DLP-522		☐ DLP-557		☐ DLP-592					
NTP-018		DLP-523		DLP-558		☐ DLP-593					
• NTP-019		DLP-524		DLP-559		DLP-594					
NTP-020		DLP-525		DLP-560		DLP-595					
NTP-021		DLP-526		DLP-561		☐ DLP-596					
• NTP-022		DLP-527		DLP-562		DLP-597					
NTP-023		DLP-528		DLP-563		DLP-598					
NTP-024		DLP-529		DLP-564		DLP-599					
• NTP-025		☐ DLP-530		DLP-565		• DLP-600					
• NTP-026		☐ DLP-531		DLP-566		• DLP-601					
• NTP-027		☐ DLP-532		DLP-567		• DLP-602					
• NTP-028		☐ DLP-533		☐ DLP-568		DLP-603					
TAP-100		☐ DLP-534		DLP-569		DLP-604					
DLP-500		DLP-535		DLP-570		DLP-605					
☐ DLP-501		DLP-536		DLP-571		DLP-606					
☐ DLP-502		DLP-537		DLP-572		DLP-607					
☐ DLP-503		DLP-538		DLP-573		DLP-608					
☐ DLP-504		DLP-539		DLP-574		DLP-609					
DLP-505		DLP-540		DLP-575		• DLP-610					

• REVISED OR ADDED ITEM ☐ CANCELED ITEM

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CHECKLIST

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