Automatic Message Accounting Verification Test Procedures

Contents

(continued)

Contents, continued

1. General

1.1 Purpose

This practice:

- Provides procedures for performing Automatic Message Accounting (AMA) verification on existing switches using the following activities:
  - System conversions.
  - System Version Release (SVR).
- Establishes minimum requirements for conducting AMA verification tests.
- Addresses the specifics of AMA recording.
- Does not describe the technical requirements for any switch type.

1.2 Filing Instructions and Supersedures

Discard all previous issues and associated addenda of this practice and file this issue numerically in your GTE Telephone Operations practices set.

This practice supersedes and cancels:

- All policies, procedures, general instructions, letters, and memoranda which address this subject.
- Any document which provides information contrary to the information contained in this practice.

1.3 Reason for Reissuing

This practice has been reissued to incorporate multiple changes in the content. Read this entire practice to ensure your familiarity with the new information.

NOTE: The term "Test Tape," as used in this document, refers to the placement of test calls for polling from the testing switch. The actual creation and processing of a TAPE is normally not necessary.

1.4 Responsibility

This practice was published by the GTE Telephone Operations Enterprise Services Department. For more information about this practice, contact GTE Carrier Markets.

1.5 Disclaimer

This practice was prepared solely for the use of GTE Telephone Operations. It must be used only by its employees, customers, and end users when installing, operating, maintaining, and repairing GTE Telephone Operations' equipment, facilities, and services. Any other use of this practice is forbidden. The information contained in this practice may not be applicable in all circumstances and is subject to change without notice. By using this practice the user agrees that GTE Telephone Operations will have no liability (to the extent permitted by applicable law) for any consequential, incidental, special, or punitive damages that may result.

2. Overview

2.1 Definitions

The following chart provides definitions for the acronyms used in this practice.

Acronym	Definition
AMA	Automatic Message Accounting
ANI	Automatic Number Accounting
ASR	Access Service Request
BIP	Billing Intermediate Processor
BCS	Batch Change Supplement

(continued)

2.1 Definitions, continued

Acronym	Definition
BMCII	Billing Media Converter II
CABS	Carrier Access Billing System
CBO	Carrier Billing Operations
CO	Central Off ice
CODC	Central Office Data Collector
COE	Central Off ice Equipment
COEI	Central Office Equipment Installation
COS	Class of Service
DBM	Database Management
DCO	Digital Central Off ice
DDD	Direct Distance Dialed
DMS	Digital Multiplex System
DMTM	Data Management Transmission Module
EA	Equal Access
EAEO	Equal Accessed End Office
EB	Emergency Bulletin
EWSD	Electronic Wall (Dial) Switch Digital
FX	Foreign Exchange
GPU	General Processing Unit
ICSC	Interexchange Carrier Service Center
ID	Identifier
IS	Information Services
INWATs	Inward Wide Area Telephone Service

(continued)

2.1 Definitions, continued

Acronym	Definition
IXC	Interexchange Carrier
MRU	Message Rate Unit
MTU	Magnetic Tape Unit
NOC	Network Operations Center
NXX	Three-Digit Off ice **Code**
ONI	Operator Number Identification
OLS	Online Support
OSPS	Operator Services Position System
OUTWATS	Outward Wide Area Telephone Service
POTS	Plain Old Telephone Service
SPC	Stored Program Control
SSCC	Special Service Control Center
SSOC	Switching Services Operations Center
SVR	System Version Release
TCG	Test Call Generator
TLS	Traffic Load Simulator
TOPS	Traffic Load Simulator
TPC	Transmission Product Update
USS	Usage-Sensitive Service
WATS	Wide Area Telephone Service

A wide variety of switching systems exists in the network. Unique technical procedures are associated with setting up each switch for performance of the AMA verification test. Division Switching and Network Services are responsible for setting up all switches for the billing verification test.

3. Automatic Message Accounting (AMA) Verification Process

3.1 Events Requiring Testing

AMA verification testing is required by the following:

- SPC (Digital) switch conversions.
- SVR/BCS/Release conversions (for the first site converted to a new release in each DBM Area (see Section 4.4).
- EA conversions.
- Rehomes, including tandem and operator rehomes.
- Addition of a new product or service with unique billing requirements.

NOTE: AMA verification testing can also be completed on DBM changes that impact billing commands. The decision to perform a billing test is based on materiality and risk.

3.2 Switching System Conversions

AMA tests verify the:

- AMA recording accuracy of the switching system.
- Billing systems downstream process capability.

NOTE: The AMA verification process is accomplished with database verification during switching system conversions.

3.3 Switch Type

A wide variety of switching systems exist in the network. Unique technical procedures are associated with the set up of each switch for performance of the AMA verification test. Division Switching and Network Services are responsible for setting up all switches for the billing verification test.

3.4 Test Packet

The end result of the verification tests is a written record of each test call. Successful completion an an AMA Test Packet includes:

- All call logs.
- Call records.
- Hard copy printouts obtained from accessible and crucial points.
- Any CO generated call information output.

It is essential that GTE account for every test call type. Call types that cannot be accounted for must be retested until all calls are successfully documented. The following departments are responsible for ensuring that the switching location meets the billing criteria:

- CBO.
- Field personnel.

NOTE: CBO notifies field personnel of the test results.

4. Scheduling

4.1 Database Management (DBM) Updates

When DBM issues or completes CO translations that significantly change the routing, trunking of billable calls, or the billing parameters and perform a:

- Dial test to verify updates.
- Billing test to verify proper recording of calls whose billing parameters were changed by the update.

  NOTE: The decision to perform a billing test is based on materiality and risk.

- Call records.

4.2 Line and Trunk Availability

Check line and trunk availability before testing new SPC offices by either Network Reliability or Customer Operations. Adequate facilities must be in service two weeks before conversion to allow for testing.

4.3 Equal Access (EA) Conversions

EA conversions in existing SPC switches require that an AMA verification test be conducted. Network Reliability/Customer Operations is responsible for completing AMA Verification Test Logs and faxing the information to CBO a minimum of two weeks before EA conversions.

4.4 Version Conversion Verification Requirements

An AMA test must be performed for the first site converted to a new release in each DBM Area. A version conversion occurs when the manufacturer upgrades the generic software. The following product lines have generic software packages:

- SVR:
  - GTD-5.
  - #2EAX
- BCS – DMS 100/200/TOPS.
- Release.
  - Stromberg – Carlson DCO and EWSD.
  - DMS 10.
  - VIDAR.
- TPC:
  - 1AESS
  - 5ESS/OSPS.
  - 4ESS.

NOTE: Any manufacturer's update to any SPC software or firmware (i.e., EBs, Patch Point Releases) requires investigation of the impact on AMA. Sections 4.5 through 4.7 define the schedules of activities performed for different version conversion types.

4.5 Non-Standard Off line Switching Systems

The schedule of activities performed for non-standard offline switching systems (i.e., Siemens, EWSD, VIDAR) follows:

- The billing-related documentation from the vendor must be furnished to the Finance Systems Focal Point at least six months before the established in-service date.
- The vendor test tape must be furnished to Finance Systems Focal Point at least three months before the established in-service date.
- The site test tape must be furnished to CBOs at least 30 days before the established in-service date.
- A billing test must be performed for the first site converted to a new release in each DBM Area.

4.6 Standard Off line Switching Systems

The schedule of activities performed for standard offline switching systems (DMS/GTD-5/DCO/EWSD/VIDAR) includes the following categories:

- Standard load.
- Non-standard load.

NOTE: Standard switching systems with a non-standard load have never been deployed in GTE.

The standard load schedule requires the:

- Vendor's billing-related documentation.
- Vendor's test tape.
- CBO receive the site tape at least 30 days before the established in-service date for the first site converted to a new release in each DBM Area.

The non-standard load schedule requires that the:

- Billing-related documentation from the vendor is due to the Finance Systems' Focal Point at least four months before the established in-service date.
- Vendor test tape is due to Finance Systems' Focal Point at least three months before the established in-service date.
- Site test tape is due to CBO at least 30 days before the established in-service date for the first site converted to a new release in each DBM Area.

4.7 Standard Online Switching Systems – Non-Standard Load

The schedule of activities performed for standard online switching systems, non-standard load follows:

- The billing-related documentation from the vendor must be furnished to the Finance Systems' Focal Point at least four months before the established in-service date.
- The vendor test tape must be furnished to the Finance Systems' Focal Point at least three months before the established in-service date.

4.8 Standard Online Switching Systems – Standard Load

The schedule of activities performed for GTE standard online switching systems, standard load includes the following:

- The billing-related documentation from the vendor is required.
- The vendor test tape is required.
- Make the site test calls in the online mode with the following conditions:
  - Record the test calls within 24 hours of going online.
  - On receipt of test logs, CBO provides the originator the test call results within five working days by GTEMail or telephone.

NOTE: CBO has the option to waive the requirement for a test tape on this configuration.

4.9 Verification of Off ice Load Schedules

The following office load schedule verification activities are performed:

- The billing-related documentation from the vendor is due to the Finance Systems' Focal Point within three to four months before the established in-service date.
- The vendor test tape is due to the Finance Systems' Focal Point at least 21 calendar days before the established in-service date.
- Provide the site test tape for the First Site Installation in each DBM Area as follows:
  - Seven calendar days before the established in-service date, upgrade the site in a split mode.
  - Make a test tape and provide it to the Area CBO.

NOTE: Following the creation of the test tape, the site will "back out/regress" to the previous load. CBO provides the originator with the resuits of the tests within three working days of receipt of the test data.

4.10 Database Management Update Testing

Any changes to the switch database that might impact billing parameters may be tested. The decision to perform a billing test is based on materiality and risk. The DBM analyst is responsible for providing a test call log that tests the parameters changed by the update. Use a blank Test Call Log for proper recording (see Exhibit 1).

5. Switch Requirements

5.1 Recording Medium

Record all AMA recording/processing data on the existing data collector if possible.

5.2 Trunking Facilities

Each site must provide sufficient line and trunk facilities to allow for complete call-through testing.

5.3 Database Preparation

During switch conversions, complete the following database preparations before the AMA testing period:

- Database activities.
- Trunking and routing programming.
- DBMs dialed through test procedures should be completed and all problems resolved before performing the AMA billing test.

NOTE: Call-through testing should include IXCs and interoffice trunk groups as specified by DBM.

6. New Switch Conversion Tests

6.1 General Information

New switch conversions require testing of AMA recording/processing. Include EA testing for major IXCs and feature groups being placed in service at the time of conversion. A test generates calls to ensure proper:

- AMA recording.
- CO routing.

6.2 Class-of-Service (COS) Groups

The determination of what COSs are tested is based on the switch technology services offered and state/local tariffs. This is determined by CBO, DBM, and Network Reliability. The following COSs are examples of what might be tested:

- Single-party flat rate.
- Two-party ANI.
- Multi-party ONI.
- Coin.
- Feature group A (MRU).
- Multi-Line business hunt group.
- INWATS (minimum of two-line rotary, POTS billing number).
- OUTWATS (band is specified by test).
- Test lines working with the test call generator.

NOTE: Produce an AMA record for each call type specified on the test log and verify the proper Bellcore or GTE ticketing assigned to each call. Network Reliability/Customer Operations is responsible for completing the test call logs.

6. New Switch Conversion Tests, continued

6.3 Class-of-Service Testing

Use the test call log (see Exhibit 1) or equivalent form containing the same data for making calls from each COS requested by CBO, prescribed to the major carriers.

NOTE: Use **Exhibit 1 when testing a new SVR/BCS/Release.**

6.4 Billing Record Verification

Producing an AMA record from each line COS requested by CBO, allows CBO to verify that the proper Record ID/Call Type or Structure Code/Call Code is assigned to each call type. CBO compares the AMA records to the test call logs to ensure that the test calls are recorded properly.

6.5 1OXXX Dialing

Some line COSs are unable to dial 10XXX.

Example: Modified WATS lines might or might not have the multiple carrier option. Thus, IXCs selecting the multiple carrier option should have WATS lines capable of dialing 10XXX. Conversely, IXCs that have not selected the multiple carrier option should have their WATS lines blocked from reaching 10XXX.

7. Equal Access or SVR/BCS/Release Conversions

7.1 Confirmation of Generic AMA

A billing test must be performed for the first site converted to a new software release in each DBM Area. Emphasis is on:

- Confirmation of the generic AMA ticketing function.

  AND

- Verification of the equal access AMA recording capability.

7.2 Class-of-Service Requirements

CBO identifies which COSs need testing for each conversion.

Use the Test Call Log to test each major IXC using the following guidelines:

- Use only a single-party flat-rate line for each major IXC being tested.
- Dial 10XXX calls to a carrier other than the one to which line is pre-subscribed (e.g., a line pre-subscribed to MCI would dial 10XXX to USS Sprint. a US Sprint line would dial 10XXX to Western Union, a Western Union line would dial 10XXX to MCI) This round robin method of dialing provides a good verification of casual calling.

NOTE: **CBO identifies which COSs need testing for each conversion.**

7.3 Testing Requirements

The testing procedures (see Sections 7 – 12) apply to all EA conversions and version conversions. The scheduling requirements are identified in Sections 4.3 through 4.9.

7.4 Conversion Responsibilities

The following chart describes EA or SVR/BCS/Release conversion responsibilities.

Initial Site	Who Does It	What Is Done
GTE (field trial/verification office) for new SVRs and each EA conversion	Standardization Management	Coordinates the conversion and provides vendor documentation/tape to GTE Data Services Finance Systems.
	CBO-DBM Customer Service	Defines COS requirements for each switch type (i.e., DMS, DCO, GTD-5, 5ESS EWSD, VIDAR).
	Finance Systems	Provides vendor billing documentation to CBO.
	CBO	Defines required COS and test calls and verifies switch billing accuracy.
	Network Reliability/ Customer Operations	Generates test calls.
	GTE Data Services Finance Systems	Modifies billing systems to handle new call types, features, and verifies switch billing accuracy.
	COEI	Installs and functionally tests SVR/BCS/Release conversions and/or monitors contractors to ensure activity completion.

(continued)

7.4 Conversion Responsibilities, continued

Initial Site	Who Does It	What Is Done
New SVRs must be tested for the initial site in each DBM area. All equal access conversions must be tested	Standardization Support Area	Coordinates conversion.
	CBO/DBM/ Customer Service	Defines COS requirements for each switch type (i.e., DMS, DCO, GTD-5, 5ESS, EWSD, VIDAR).
	CBO	Defines required COS and test calls to verify proper recording.
	Network Reliability/ Customer Operations	Generates test calls.
	GTE Data Services Finance Systems	Modifies billing systems to handle new call types, features, and verifies switch billing accuracy.
	COEI	Installs and functionally tests SVR/BCS/Release conversions and/or monitors contractors to ensure activity completion.
All EA conversions	Network Reliability/ Customer Operations	Coordinates conversion testing.
	CBO/DBM	Defines COS requirements for each switch type (i.e., DMS, DCO, GTD-5, 5ESS, EWSD, VIDAR).
	Division Switching Services/Customer Operations	Generates test calls.

7.5 Version Conversion Procedures

The following chart describes procedures that apply to initial site version conversion in each DBM Area (double insertion).

Step	Converting to a New Version
1	Place a new SVR/BCS/Release online, simplex.
2	Generate test calls.
3	Place old SVR/BCS/Release online.
4	Send tape/poll CODC for test calls.
5	CBO verifies the test calls and provides results in three to five working days.
6	New SVR/BCS/Release placed back online and duplexed.

7.6 Turnkey Operations

COEI is responsible for:

- Monitoring the contractor on all turnkey operations.
- Ensuring all AMA testing is completed before turnover.

8. Switch Preparation Responsibilities

8.1 Network Operations

The following chart describes Network Operation's responsibility when preparing a switch for the AMA verification test.

Who Does It	What Is Done
DBM	Prepares database.
COEI*	Installs and functionally tests SVR/BCS/Release conversions and/or monitors contractor to ensure activity completion.
CO Supervisor/Contractor on Turnkey*	Orders and installs test lines and telephones.
Network Services/SSOC/SSCC*	Contacts ICSC and requests coordination with the IXC of test numbers for testing.
CO Supervisor*	Prepares a magnetic tape unit and data collector.
Personnel making test calls*	Prepares test log.
Network Operations*	Performs other administrative details.

* The contractor is responsible for activities that involve turnkey operations. COEI is responsible for ensuring that the contractor completes these activities.

8.2 Call-Through Responsibilities

The responsibility for the actual call-through tests can be assigned to appropriate personnel as determined by area management.

8.3 Test Team Composition

The following chart describes test coordinator and billing analyst test team responsibilities.

Who Does It	What is Done
Test Coordinator	Ensures successful completion of the test.
Billing Analysts	Perform the call-through tests and verify that all logistics associated with the test are correct.

NOTE: Billing analysts generate and record test calls.

9. Test activities: Offline Sites

9.1 Off line Requirements

Test activities in offline sites are the responsibility of the work group performing the installation. If contractors are performing the installation, the COE Construction counterpart is responsible for overseeing the work.

In offline sites:

- TLSs must be turned off and all traffic generation reduced to an absolute minimum.
- Local craft working on the switch must be:
  - informed of the pending test.
  - Advised to notify the test coordinator of any traffic generated outside the test.

9.2 Magnetic Tapes Preparation (only for non-polled sites)

Only use magnetic tapes if the data collector cannot be polled. Magnetic tapes are not necessary at polled sites.

A properly prepared tape must be mounted on the active MTU. The tape should:

- Have prerecorded headers.
- Be certified by the Information Services Department.

NOTE: **If the site being tested has two or more MTUs, select a backup MTU and designate it as a standby.**

Record the following tape information:

- The tape numbers.
- The time each tape is mounted. (This marks the billing test start.)

9.3 Dialing Activity

Refer to the test logs and start dialing test numbers. The test numbers were selected to provide a sampling of several dialing areas to test AMA verification functions (see Exhibit 1).

9.4 Magnetic Tape Unit Transfer

During the test call sequence, cause the active MTU to be placed on standby and the standby MTU to become active. All calls should be held in the "talk" state during the MTU transfer. Perform the following check in sites where parallel DMTM/GPU/BMCII testing is occurring.

Step	Checking Magnetic Tape Transfer
1	Cause the DMTM/GPU/BMCII to fail.
2	Observe that the standby magnetic tape unit becomes active.
3	Note any unusual occurrences.

9.5 Dumping Short Calls to Tape

After completion of the calls listed on the test logs:

1. Mark the location of the MTU supply reel.
2. Begin making calls from a USS line to another local number (test line). These calls generate a short call record.
3. Continue making calls until the MTU moves. This indicates that one billing block is filled and transmitting to the MTU.

NOTE: Only #2EAXs have short call blocks.

9.6 Dumping Long Calls to Tape

When the MTU moves:

- Mark the new location and start making DDD calls.

  NOTE: These calls generate a long call record.

- Continue making calls until the MTU moves a second time.

  NOTE: This indicates that one billing block Is filled and transmitting to the MTU.

10. Terminating Usage

10.1 Terminating Usage

The following chart describes terminating usage.

Usage	Description
Requirements	Verification of terminating usage must be accomplished during the verification process for originating usage.
Test Procedure	All test procedures associated with originating usage are applicable to terminating usage.
Test Call Setup	Test calls must be placed from an office other than the office being validated. This can be accomplished by: • Setting up a test line in another office. OR • Establishing an FX line in the office being tested.
Interexchange Carrier Testing	Test calls designed to account for IXCs represented in the office being tested, along with the appropriate feature groups, are originated in the distant office. **NOTE: Major IXCs with a terminating trunk group require a test log. EA end offices served by a pipeline trunk group require that AT&T and one other IXC be tested. When an EAEO has both indirect and direct terminating trunks, calls must be placed and recorded for each major IXC trunk group. The test logs are faxed to CBO.**

11. Test Log Completion

11.1 Test Log Accuracy

Fill out test logs accurately. Use the log to accurately record:

- Dialed digits.
- Connect time.
- Any special remarks (i.e., difficulties encountered or unexpected results).

NOTE: Fax the test logs to CBO (see Exhibit 1).

12. Feature Groups A and/or OUTWATS

12.1 Metered Feature Groups

Non-EA COs can deploy external metering devices for feature group A and and/or OUTVVATS. The procedures described in this document also applies to verifying external metering devices for AMA use.

12.2 Metered Feature Verification

External metering devices may require additional maintenance procedures to assure data integrity. Develop local maintenance routines for measuring external metering devices for data validity.

13. Test Verification

13.1 Carrier Billing Operation's (CBO) Responsibility

Test logs received by CBO are verified to ensure that the switch is producing AMA records that can be accurately processed by the billing systems.

13.2 Problem Resolution

Verify AMA records by producing a printout of the test calls and checking them against the test logs. Resolve any problems by discussing them with DBM/Network Operations.

13.3 Database Management

CBO provides a copy of the test results to DBM on request.

COPY

14. Post-Conversion Activities

14.1 Carrier Billing Operation's Responsibility

After conversion to a new switch (e.g., SW, etc.), CBO uses a volume monitoring (trending) process to ensure volumes are reasonable.

14.2 Problem Resolution

Discuss any problems that are found in these comparisons with DBM/Network Operations and correct immediately.

INFORMATION PAGE

The determination of what classes of service will be tested will be baaed on switch technology, services offered by the office and state/local tariffs. This will be determined by Carrier Billing Operations - Switch Certification, Data Base Management and Network Reliability. The following classes of service are examples that test calls MAY be required for:

MAXE COPIES OF THIS LOG FOR EACH CLASS OF SERVICE LISTED below THAT YOU ARE REQUESTED TO TEST. NOTE THE CLASS OF SERVICE ON EACH Log.

A.	IFR	RESIDENCE CUSTOMER WITH NO USAGE BILLING FOR LOCAL CALLS
B.	**1MB**	BUSINESS CUSTOMER WITH MRU (MESSAGE RATE USAGE) SERVICE
C.	HOTEL	HOTEL/MOTEL LINE
D.	OUTWATS	OUTWATS (SET UP THE OUTWATS LINE AS BAND 6)
E.	**FGA**	FEATURE GROUP A
F.	MPTY	MULTIPARTY (WHERE APPLICABLE)
G.	COIN	COIN STATION SERVICE (GTE)
H.	INWATS	TERMINATING INWATS - SEE SPECIAL Log ATTACHED
I.	CSD	CIRCUIT SWITCHED DATA - SEE SPECIAL Log ATTACHED
J.	ISDN	5ESS AND DMS100 ONLY - CONFIGURE AN ISDN LINE WITH APPROPRIATE CPE EQUIPMENT TO CREATE VOICE, CSD, PACKET, REVERSE CHARGE, AND PERMANENT VIRTUAL CIRCUIT CALLS. REFER TO SPECIAL **TEST LOGS ATTACHED**

Note: **The 23 calls** in the log below are required from an ISDN VOICE line for new base units. There are 8 calls required from an ISDN DATA line as shown in the log below.

- o In the comments section of the test log, note any problems encountered while making test calls specific to each call.
- o If you reach a recording, note on the log which recording you reached:
  CBCAD - Call Can't Be Completed As Dialed
  LDCCC - **Long** Distance Company Cannot Complete
  ACB - All Circuits Busy
  RS - Restricted Service
- o **Write in the** numbers you dial where the X's or ( ) appear, **i.e..10XXX ==** 10222
- o For 10XXX calls, dial a carrier other than the one the line is presubscribed to, i.e. dial 10222 when the line is PIC'ed to 288, etc.
- o Make test calls from the largest two carriers in the office - this is normally AT&T and MCI. The same line can be used - just change the PIC on the line.
- o After dialing 950 and **1+950,** wait for **a** dial tone *or* bong before disconnecting. This ensures we receive an access billing record. If you do not receive a dial tone or bong, try dialing the call as 950-1033 and **1+950-1033** (Sprint) instead.
- o Terminating numbers are included in the logs below where available. **You** will need to determine appropriate **Local/Intralata/Interlata** numbers for the lines denoted with a * in the log below. DBM may be **able** to assist you in providing these test numbers.
- o Please refer any questions to the appropriate Administrator - Switch Certification in Carrier Billing Operations at **219-461-XXXX.**
- o Please fax completed test call logs to **219-432-1419** or **219-461-2131.** and call the appropriate Administrator AFTER faxing the logs.

Exhibit 1 - AMA Verification Testing (Page 1 of 5)

Test Call Log

CLASS OF SERVICE: _____
PIC: _____
ORIG. TEST NUMBER: _____
NAME OF TESTER: _____
TESTER'S CALL BACK #: _____

DATE OF TEST CALLS: _____
SITE NAME: _____
TYPE OF CONVERSION: _____
CONVERSION DATE: _____
SITE NPA/NXX: _____
SWITCH TYPE: _____
SWITCH LOAD: _____

#	TYPE OF CALL	TERMINATING NUMBER	CONNECT TIME	COMMENTS
1.	TO EAS (if applic)	*		
2.	7D LOCAL	*		
3.	1+10D INTRALATA	*		
4.	0+10D INTRALATA	*		
5.	1+INTERLATA	1+202 936-1212		
6.	0+INTERLATA	0+202 936-1212		
7.	011 INT'L	011+81+33+5401212		
8.	01 INT'L	01+81+33+5401212		
9.	0-	0		
10.	00-	00		
11.	FGB 950-XXXX	950-1022		
12.	FGB 1+950-XXXX	1+950-1022		
13.	1+700	1-700-555-4141		
14.	1+800	1-800-483-9558		
15.	1+888	1-888-250-0500		
16.	1+900	1-900-410-8463		
17.	411	1-411 OR 411		
18	1+HNPA 555-1212	1( )555-1212		
19.	1+FNPA 555-1212	1( )555-1212		
20.	10XXX 1+INTRA	10( )1-	*	
21.	10XXX 0+INTRA	10( )0-	*	
22.	10XXX 1+INTER	10( )1-202-936-1212		
23.	10XXX 0+INTER	10( )0-202-936-1212		

Exhibit 1- AMA Verification Testing (Page 2 of 5)

Test Call Log – INWATS

#	TYPE OF CALL	TERMINATING NUMBER	CONNECT TIME	COMMENTS
1.	TERM. INWATS PLACE CALL TO INWATS #			

1.	TERM ACCESS - HAVE CALL PLACED INTO OFFICE FROM INTERLATAPOINT			

Exhibit 1 – AMA Verification Testing (Page 3 of 5)

Test Call **Log**

CLASS OF SERVICE - CSD VOICE AND DATA

TEST NUMBER_____

# TYPE OF CALL	TERMINATING NUMBER	CONNECT TIME	COMMENTS
1. LOCAL CSD VOICE			
2. INTRAL.CSD VOICE			
3. INTERL. CSD VOICE			
4. LOCAL CSD DATA			
5. INTRAL. CSD DATA			
6. INTERL. CSD DATA			
7. TERMINATING INTER-LATA CALL TO CSD LINE.			

Exhibit 1 – AMA Verification Testing (Page 4 of 5)

Test Call Log

ISDN DATA CALLS FOR 5ESS **AND DMS100 SWITCHES ONLY**

Note: Make **the** 23 **calls shown in the test call log above for ISDN VOICE calls. The 8 calls below are for an ISDN DATA line.**

PIC _____
NAME OF TESTER _____
ORIG. TEST NUMBER _____
TESTER'S CALL BACK # _____

DATE OF TEST _____
SITE NAME _____
SWITCH TYPE _____
SWITCH LOAD _____
CONVERSION TYPE _____
CONVERSION DATE _____

# TYPE OF CALL	TERMINATING NUMBER	CONNECT TIME	COMMENTS
1. LOCAL PACKET			
2. LOCAL PACKET - REVERSE CHARGE			
3. INTRALATA PACKET			
4. INTRALATA PACKET- REVERSE CHARGE			
5. INTERLATA PACKET- REVERSE CHARGE			
6. PACKET VIRTUAL CKT LOCAL			
7. PACKET VIRTUAL CKT INTRALATA			
8. PACKET VIRTUAL CKT INTERLATA (DPN REQUIRED)			

Exhibit 1 - AMA Verification Testing (Page 5 of 5)