ORIGINATING REGISTERS SD-26040-01 AND SD-25551-01 DIAL PULSE OR "TOUCH-TONE®" CALLING TESTS USING AUTOMATIC MONITOR, REGISTER, AND SENDER TEST CIRCUIT SD-25680-01 NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers the tests of originating registers using the automatic monitor, register, and sender test circuit, SD-25680-01.

1.02 The reasons for reissuing this section are listed below. Revision arrows are used to emphasize the more significant changes. This reissue affects Equipment Tests Lists.

(a) To add test BF.

1.03 The tests covered are:

PAGE

A. Regular Call—7-Digit: This test checks the ability of the originating register to receive and record dial pulses from a noncoin or coin customer, and together with the information received on the dial tone connection, select and transfer to a marker at the end of dialing, all information necessary for the satisfactory completion of call on AMA or non-AMA basis. 8

B. Regular Call—10-Digit: This test checks the ability of the originating register to receive and record dial pulses from an AMA customer, and together with the information received on the dial tone connection, select and transfer to a marker at the end of dialing, all information necessary for the satisfactory completion of a DDD call on AMA basis. 8

C. Prefix Digit 1 Code: This test checks the ability of the originating register to operate correctly when a prefix digit 1 is dialed. 8

D. Prefix Digits 11—Foreign Area Directing Code: This test checks the ability of the originating register to operate correctly when prefix digits 11 precedes a foreign area customer number. 8

E. 11X Service Codes: This test checks the ability of the originating register to operate correctly when a 11X service code is used. 8

F. X11 Service Codes: This test checks the ability of the originating register to operate correctly when an X11 service code is used. 8

G. Manual Call—Coin and Noncoin: This test checks the ability of the originating register to recognize a call from a manual customer and to treat the call as a call to zero operator. . 8

H. Zero Operator—Coin and Noncoin: The following features are checked. (1) The ability or the originating register to recognize a zero operator call. (2) If the register is arranged for a coin class that makes a coin clearance test after coin return, that the register recognizes that the coin has

PAGE

been returned. (3) The timed interval that the register will wait for additional digits when arranged for prefix digit 0+ dialing. 8

*I. **Prefix Digits 0+:*** This test checks the ability of the originating register to operate correctly when a prefix digit 0 plus additional digits are dialed. 8

*I.1 **Prefix Digits 01+:*** This test checks the ability of the originating register to operate correctly when prefix digits 01 plus additional digits are dialed. 8

*I.2 **Prefix Digits 011+:*** This test checks the ability of the originating register to operate correctly when prefix digits 011 plus additional digits are dialed. This test also checks that the originating register will recognize invalid combinations and sequences on 011+ IDDD calls and will return overflow to the calling customer. 9

*J. **Straightforward Call to Manual Office:*** This test checks the ability of the originating register, when arranged to use a 1-, 2-, or 3-digit translator for a single office code, to operate properly when handling a call on a straightforward basis to a manual office. 9

*K. **Preliminary Pulse:*** This test checks the ability of the originating register to absorb one preliminary pulse when prefix counter is not provided. . 9

*L. **Two-Party Test:*** This test checks the originating register 2-party test features on a 2-party class of service that requires party test. 10

*M. **Abandoned Call—Coin or Noncoin:*** This test checks the ability of the originating register to release on an abandoned call. If the register is arranged for coin service, the test also checks that the register coin return circuit operates properly. . 10

PAGE

*N. **Abandoned Call During Coin Test:*** This test checks the ability of the originating register, when it is arranged to check for the presence of a coin, (App. Fig. 9, 10, 31 provided), to recognize and to release an abandoned call during coin test. 10

*O. **Marker Coin Return:*** This test checks the ability of the originating register, when it is arranged for marker coin return, to return a coin when a coin return signal is received from the marker. 10

*P. **Stuck Coin:*** This test checks the ability of the originating register, when it is arranged to make coin clearance test, to detect a stuck coin. . . .

*Q. **Register Supervision:*** The test checks that the originating register marker connector furnishes a holding ground for the originating register supervisory relay. 10

*R. **A- Digit Translator:*** This test checks the ability of the originating register to determine, from the A digit dialed, the number of digits to be expected. It also tests the ability of the originating register to determine that only one digit is registered for unused A digits. . 10

*S. **A- and B- Digit Translators:*** This test checks the ability of the originating register to determine the number of digits to be received from the combination of A and B digits dialed. 10

*T. **Pretranslation (SD-25568-01 Provided):*** This test checks the ability of the originating register to receive signals from a pretranslator, which indicates to the register the number of digits to expect. It also checks that the originating register recognizes the completion of dialing when that number of digits is received. 10

PAGE

T.1 Pretranslation for IDDD—(SD-27849-01) Provided: This test checks the ability of the originating register to receive signals from a pretranslator, which indicates to the register the number of digits to expect. It also checks that the originating register recognizes the completion of dialing when that number of digits is received. . 10

U. Dial Tone and Busy or Overflow Tone: This test checks the ability of the originating register to transmit dial tone and busy or overflow tone. . 10

V. Dial Tone Removal: This test checks that the originating register removes dial tone properly. . . . 11

W. Dial Tone—Register Arranged for Manual Service: This test checks that the originating register removes dial tone when handling a call from a customer having a manual class of service. 11

X. Permanent Signal Timing—Coin or Noncoin: This test checks the ability of the originating register permanent signal timing circuit to time out if the first digit is not dialed in the allotted time. If the originating register is arranged for coin service, it also checks that the coin return circuit of the register operates properly. 12

Y. Partial Dial Timing—Coin or Noncoin: This test checks the ability of the originating register partial dial timing circuit to time out if the second digit is not dialed in the allotted time. If the originating register is arranged for coin service (with App. Fig. 9 and 10 provided), it also checks that the coin return circuit of the register operates properly. If the originating register is arranged for 011+ (IDDD), it also checks that the register will time out when an insufficient number of digits are used. 12

PAGE

Z. B- Digit Translator: This test checks the ability of the register to determine from the B digit dialed the number of digits to be expected. . 14

AA. Register Timeout After Marker Seizure: This test checks the ability of the originating register to time out after marker seizure within the allotted time. 14

AB. Timing During Pretranslation: This test checks that, from the time the originating register calls for a pretranslator until pretranslation is completed, the partial dial timing interval is not reduced. 14

AC. Timing During Coin Test—Dial-Tone-First: This test checks the ability of the originating register, when it is arranged for dial-tone-first, ***but not coin service improvement,*** to detect the absence of a coin, to transmit no-such-number tone, and to release after the proper time interval. 15

AD. Common Alarm Timing: This test checks the ability of the originating register to cause the common alarm circuit to operate properly in the allotted time. 15

AE. Recycle of Timing: This test checks the ability of the originating register to recycle its timing circuit when the operation which is being timed is completed in the allotted time interval. 16

AF. Tip-Party Manual Test: This test checks the ability of the TP1 relay in the originating register to operate over the register operate current flow test path. It also checks that, if the TP1 relay fails to operate, the originating register is held off-normal. . . . 18

AG. Line Location, Class of Service, and Observed Call Information—Storing and Verification of Trouble Recorder Leads: The

PAGE

following features are checked. (1) The ability of the originating register to receive, store, and transmit line location, class of service, and observed call information to and from the marker. (2) That the trouble recorder receives the proper identifying information from the originating register when the trouble recorder is seized by the automatic monitor, register, and sender test circuit. (3) That the trouble recorder receives the proper identifying information from the originating register marker connector when the trouble recorder is seized by the marker. 19

AH. Start Dial Signal: This test checks the ability of the originating register to reverse tip and ring to centrex attendant or tie line circuit. . . . 20

AI. Intra-PBX Call: This test checks the ability of the originating register, when arranged for centrex service, to function properly when handling intra-PBX calls. 21

AJ. 11X Special Codes—Originating Register Arranged for Centrex Service Only: This test checks the ability of the originating register, when arranged for centrex service only, to function properly when 11X code is dialed. 21

AK. Dial Zero Calls for Centrex Service: This test checks the ability of the originating register, when arranged for centrex service, to recognize an attendant call. 21

AL. 1XX Special Codes for Centrex Service: This test checks the ability of the originating register, when arranged for centrex service, to function properly when 1XX code is dialed. 21

AM. CCSA Call—Prefix Digit 8: This test checks the ability of the originating register, when arranged for CCSA feature, to function properly when handling CCSA calls. 21

AN. CCSA Call—Digit 1 Absorption After Prefix Digit 8: This test checks the ability of the originating register, when arranged for CCSA calls, to absorb any digit 1s immediately following the prefix digit 8. 21

AO. Slow Test: This test checks that the originating register correctly receives and records the various frequency combinations. Signals are sent at a nominal level at 1 pulse per second and 11 pulses per second. 22

AP. High Level Test: This test checks that the originating register will operate correctly when the TOUCH-TONE signal level is higher than the nominal level. This test is performed at both fast and slow pulsing speeds. 22

AQ. Low Level Test: This test checks that the originating register will operate correctly when the TOUCH-TONE signal level is lower than the nominal level. This test is made at the fast pulsing speed. 22

AR. High Frequency Test: This test checks that the originating register will accept TOUCH-TONE signals composed of frequencies which are 1.5 percent higher than the nominal frequencies. 22

AS. Low Frequency Test: This test checks that the originating register will accept TOUCH-TONE signals composed of frequencies which are 1.5 percent lower than the nominal frequencies. 22

AT. Single Frequency Test: This test checks that the originating register will disregard signals composed of a single frequency. 22

AU. Special 3-Frequency Test: This test checks that the originating register will disregard signals composed of three frequencies, two of which are a 22

PAGE

valid combination of frequencies. The third is a signal of 2000 hertz at a higher level. 22

AV. Long Pulse Test: This test checks that the originating register will operate correctly when pulses are approximately 0.05 second long with approximately 0.04 second between pulses. 22

AV. Unused Frequency Combination: This test checks that overall tone is returned by the originating register upon receipt of an unused frequency combination generated from a 12- or 16-button TOUCH-TONE telephone set. 22

AW. Toll Diversion: This test checks the ability of the originating register to recognize a signal from the marker that a call from a PBX trunk requires toll diversion, to reverse tip and ring to the PBX trunk, and to release if the customer goes on-hook at any time after completion of dialing. 22

AX. Range Extension for Unigauge Cabling: This test checks the ability of the originating register to switch the voltage on the L relay to -72 volts on calls originated by lines arranged for range extension. 22

AY. C- Digit Translator: This test checks the ability of the originating register to recognize that a call is either a DDD call or an NPA-411 information call when an NN0 code is dialed. . 23

AZ. Interchangeable and/or NPA-411 Information Codes: This test checks the ability of the originating register, when pretranslators are provided, to operate correctly when an interchangeable code is dialed. (Refer to 1.08.) . . 23

BA. Coin Operation: The following coin operations are checked: (1) Coin-first ground-start operation, (2) Coin-first loop-start operation for presence or absence of coin, (3) Coin service improvement (dial-tone-first) for presence or absence of coin. 23

BB. Wideband Service: This test checks that an originating register arranged for wideband service will (1) accept a nonwideband call from a nonwideband customer, (2) accept properly dialed wideband calls from non-PBX wideband customers, and (3) cause overflow to be returned on improperly dialed wideband calls. 23

BC. Wideband Access Digit to Right of 0 Key: This test checks that the register will recognize that an access digit (#) to the right of 0 key was keyed by a PBX customer to reach a central No. 5 crossbar office for a wideband call. 24

BD. Wideband Centrex Access to the Wideband Network: This test checks that the register will recognize an access digit (#) followed by a directing digit (9) that was keyed by a wideband centrex customer for selection of a trunk, from a trunk group handling wideband calls to the No. 5 crossbar office serving the PBX. 24

BE. Originating Register to Completing Marker Leads: This test checks the NOB, OBS, LL0, 1, 2, 4, and 7 leads between the originating registers and the completing markers. 24

BF. ▶Digit 8 Access Call to Enhanced Private Switched Communications Systems (EPSCS) No. 1 ESS: This test checks that the register will recognize that an access digit 8 was dialed to each EPSCS No. 1 ESS office.◀ 25

1.04 When the register is arranged for coin service improvement (dial-tone-first) operation, the coin features of Tests G, H, N, O, P, Y, and AE are not to be performed.

1.05 When some registers in the same register group are arranged with different coin control apparatus figures for ground start operation, the coin feature will be tested as coin-first ground-start operation. When all registers in the same register group are not arranged for either coin-first ground-start or coin service improvement (dial-tone-first) operation, the coin feature will be tested as coin-first loop-start operation. When all of the registers in the same register group are arranged for both coin-first ground-start and coin service improvement (dial-tone-first) operation, the coin feature will be tested as coin service improvement (dial-tone-first).

1.06 Test charts are provided which show priming information required for each test. Spaces are provided on the charts for listing specific priming information depending on local conditions. These charts should be filled out from local records in accordance with the instructions provided in Part 5, Preparation of Test Chart.

1.07 During Test M, the traffic register associated with the APD lead will operate once for each abandoned call. Local instructions should be followed for recording and reporting any of these operations.

1.08 Tests AO through AV.1 are to be made only on registers arranged for TOUCH-TONE calling.

1.09 An interchangeable code is a code that represents both a working office code in the home area and a working foreign area code. In some offices where interchangeable codes are provided, timing after the 7th digit is not required on toll calls. Therefore, a prefix digit of 0 or 1 must be dialed as an indication to the orginating register (OR) that 10 digits are required to complete the call. In other offices a prefix digit of 0 may indicate to the OR that 7 or 10 digits may be dialed. These offices require timing after the 7th digit. A prefix digit of 1 indicates that the call requires 10 digits for completion. In either type of office if no prefix digit is dialed, the OR can expect 7 digits or in some cases less than 7 digits. Where pretranslators are provided, the dialing of an interchangeable code will result in the pretranslator grounding the CMB lead to the originating register.

1.10 In marker groups with four, five,, or six dial tone markers, markers 0 and 1 will always have full access to all line link frames, trunk link frames and associated originating registers. In marker groups with five dial tone markers, markers other than 0 and 1 may have full or limited (graded) access to line link and trunk link frames and associated originating registers. In marker groups with six dial tone markers, markers other than 0 and 1 have only limited access to line link and trunk link frames and associated originating registers. It may be desirable to test a particular originating register with a particular marker, where limited access is provided, therefore the no-test (NT) connector should be used when selecting a line location appropriate for the required association between the particular marker and originating register group. The association of dial tone markers having limited access to certain frames shall be determined from office records.

1.11 ***Lettered Steps:*** A letter, a, b, c, etc, added to a step number in Parts 3 and 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

1.12 The manner of selecting some circuits and test conditions at the master test frame (MTF) and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

1.13 The location statement, at MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

1.14 On Issue 76D of SD-25800-01, a group of 18 "class of test" lamps was replaced by a single "start test" lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, such as ATNT, DT, IAO, IMS, INC, IR, ITDO, ITNP, ITP, LT, MISC, MLV, OGT, OR, ORTG, PTT, SDR, and TVT.

2. APPARATUS

All Tests

2.01 Master test control circuit, SD-25800-01.

2.02 Automatic monitor, register, and sender test circuit, SD-25680-01.

Tests W Through Y and AB Through AH, and BE

2.03 Blocking and insulating tools, as required. Use tools and apply, as covered in Section 069-020-801.

Tests U, X Through AD, AX

2.04 KS-3008 stopwatch or equivalent.

Tests X, Y, AB, AD Through AH

2.05 322A (make-busy) plugs as required.

Test AE

2.06 32A test set.

Tests AG and BE —For Nonwire-Spring-Relay Type Circuits

2.07 Testing cord, 893 cord, 3 feet long, equipped with two 360A tools (1W13A cord) and two 419A (test connector) tools.

Tests AG and BE —For Wire-Spring-Relay Type Circuits

2.08 Testing cord, 893 cord, 3 feet long, equipped with two 360A tools (1W13A cord), one 419A (test connector) tool, and one KS-6278 connecting clip.

Test AH

2.09 Patching cord, P3F cord, 4 feet long, equipped with one 309 plug and one 310 plug (3P12A cord).

3. PREPARATION

STEP	ACTION	VERIFICATION
	Note: Refer to paragraphs 1.04 through 1.13.	
All Tests Except AF		
1	At MTF— Restore all keys and switches. *Note:* Ensure that the remotely located LFA, HFA, ADJ keys associated with the automatic monitor are in the normal positions.	
2	Momentarily operate RL key.	All lamps extinguished.
3a	If trouble recorder card of dial tone connection is required— Operate REC key.	
4b	If automatic repetition of test is required— Operate REP key.	
5	Select dial tone marker 0 or 1 (refer to 1.10).	
6	Select OR class of test.	
7	Select route advance 0.	

STEP	ACTION	VERIFICATION
8	Select originating register group.	
9	Select particular originating register to be tested.	
10	Operate GPA/GPB key as required for access to selected originating register group.	
11	Operate STT, FS, TS keys.	

4. METHOD

STEP	ACTION	VERIFICATION
	Note: Tests A, B, C, D, E, F, G, H, and I actions and verifications are the same as shown in Test I.1.	

A. Regular Call—7-Digit Tests 1 Through 20.
B. Regular Call—10-Digit Tests 21 Through 40.
C. Prefix Digit 1 Code Tests 41 Through 46.
D. Prefix Digits 11—Foreign Area Directing Code Tests 47 Through 50.
E. 11X Service Codes Tests 51 Through 54.
F. X11 Service Codes Tests 55 Through 60.
G. Manual Call—Coin and Noncoin Tests 61 and 62.

Note: Refer to paragraph 1.04.

H. Zero Operator—Coin and Noncoin Tests 63 Through 68.

Note: Refer to paragraph 1.04.

I. Prefix Digit 0—PPCS Tests 69 Through 76.

I.1 Prefix Digits 01+

12	Operate keys and set switches in accordance with Test Chart Tests 77 through 96.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
I.2 Prefix Digits 011+		
12	Operate keys and set switches in accordance with Test Chart Tests 97 through 132.	
13	Momentarily operate ST key.	OK lamp lighted. For Tests 127 through 132— Overflow tone heard.
14	Momentarily operate RL key.	All lamps extinguished.
For Tests 127 Through 132		
15	Momentarily operate ST key.	Overflow tone heard in test circuit receiver.
16	Momentarily operate RL key.	All lamps extinguished.
17	Restore all keys and switches not required in next test.	
J. Straightforward Call to Manual Office		
12	Operate keys and set switches in accordance with Test Chart Test 133.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
K. Preliminary Pulse		
12	Operate keys and set switches in accordance with Test Chart Tests 134 and 135.	
13	Operate DSS key.	
14	Momentarily operate ST key.	Dial tone heard in test receiver.
15	Momentarily operate ST key.	Dial tone still heard in test receiver.
16	Momentarily operate ST key.	Dial tone still heard in test receiver.
17	Momentarily operate RL key.	Dial tone silenced.
18	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
	Note: Tests L, M, N, O, P, Q, R, S, and T actions and verification are the same as shown in Test T.1	
L.	**Two-Party Test Tests 136 Through 139.**	
M.	**Abandoned Call—Coin or Noncoin**	
	Note: Refer to paragraph 1.05.	
N.	**Abandoned Call During Coin Test**	
	Note: Refer to paragraph 1.04.	
O.	**Marker Coin Return —Test 145.**	
	Note: Refer to paragraph 1.04.	
P.	**Stuck Coin —Test 146.**	
	Note: Refer to paragraph 1.04.	
Q.	**Register Supervision —Test 147.**	
R.	**A- Digit Translator —Tests 148 Through 160.**	
S.	**A- and B-Digit Translators —Tests 161 Through 171.**	
T.	**Pretranslation (SD-25568-01 Provided) —Tests 172 Through 229.**	
T.1	**Pretranslation for IDDD (SD-27849-01 Provided)**	
12	Operate keys and set switches in accordance with Test Chart Tests 230 through 246	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
U.	**Dial Tone and Busy or Overflow Tone**	
	Note: Refer to paragraph 1.12.	
12	Operate keys and set switches in accordance with Test Chart Test 247.	
13	Momentarily operate ST key.	Dial tone heard in test circuit receiver.
14	Momentarily operate RL key.	Dial tone silenced.
15	Operate RBT key.	

STEP	ACTION	VERIFICATION
16	Momentarily operate ST key; ***start timing.***	Dial tone momentarily heard in test circuit receiver. Busy or overflow tone heard. In 20 to 32 seconds— Tone silenced.
17	Momentarily operate RL key.	All lamps extinguished.
18	Restore all keys and switches not required in next test.	
V. Dial Tone Removal		
12	Operate keys and set switches in accordance with Test Chart Tests 248 through 252.	
13	Momentarily operate ST key.	For Test 248— Dial tone ***not*** heard in test receiver. For tests 249, 250, 252— Dial tone may or may not be heard depending on local options. For Test 251— If register is arranged for centrex service and if dial tone is not returned after prefix digit 9— Dial tone not heard in test receiver. If register is arranged for centrex service and if dial tone is returned after prefix digit 9— Dial tone heard in test receiver.
14	Momentarily operate RL key.	Connection released.
15	Restore all keys and switches not required in next test.	
W. Dial Tone—Register Arranged for Manual Service		
12	Operate keys and set switches in accordance with Test Chart Test 253.	
13	Insulate 3B of RBT relay.	
14	Momentarily operate ST key.	Dial tone not heard in test circuit receiver.
15	Momentarily operate RL key.	
16	Remove insulator from RBT relay.	
17	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
X. Permanent Signal Timing—Coin or Noncoin		
	Note: Refer to paragraph 1.05.	
12	Operate keys and set switches in accordance with Test Chart Tests 254 and 255.	
13c	If noncoin class of service is used— Momentarily operate ST key. When ORON lamp lights, ***start timing.***	ORON lamp lighted. In 20 to 32 seconds— MST1 lamp momentarily lighted. OK lamp lighted.
14d	If coin class of service is used— Momentarily operate ST key. When ORON lamp lights, ***start timing.***	ORON, CR1 lamps lighted. In 20 to 32 seconds— MST1 lamp lighted. CR1 lamp extinguished. CR2 lamp momentarily lighted. OK lamp lighted.
15	Momentarily operate RL key.	All lamps extinguished.
16	At MTF— Insert make-busy plug into ORMB jack associated with register under test.	
17	At relay rack frame— Block operated RB2 relay in group-busy circuit associated with originating registers.	
18	At MTF— Momentarily operate ST key. When ORON lamp lights, ***start timing.***	ORON lamp lighted. In 10 to 16 seconds— MST1 lamp lighted. OK lamp lighted.
19	Momentarily operate RL key.	All lamps extinguished.
20	At relay rack frame— Remove blocking tool from RB2 relay in group-busy circuit.	
21	At MTF— Remove make-busy plug from ORMB jack.	
22	Restore all keys and switches not required in next test.	
Y. Partial Dial Timing—Coin or Noncoin		
	Note: Refer to paragraph 1.04 and 1.05.	
12	Operate keys and set switches in accordance with Test Chart Tests 256 through 263.	

STEP	ACTION	VERIFICATION
13c	If noncoin class of service is used— Momentarily operate ST key. When OSB lamp lights, ***start timing.***	OSB lamp lighted. In 20 to 32 seconds— MST lamp lighted. OK lamp lighted.
14d	If coin class of service is used and register is arranged for coin service improvement (dial-tone-first)— Operate NCND key.	
15e	If coin class of service is used— Momentarily operate ST key. When OSB lamp lights, ***start timing.***	OSB, CR1 lamps lighted. In 20 to 32 seconds— MST1 lamp lighted. OK lamp lighted.
16f	If IDDD class of service is used— Momentarily operate ST key.	OSB lamp lighted. For Tests 262 and 263— In approximately 3.5 seconds— MST lamp lighted. OK lamp lighted. For Tests 258 through 261— In 20 to 32 seconds— MST lamp lighted. OK lamp lighted.
17	Momentarily operate RL key.	All lamps extinguished.
18	Insert make-busy plug into ORMB jack associated with register under test.	
19	At relay rack frame— Block operated RB2 relay in group-busy circuit associated with originating registers.	
20	At MTF— Momentarily operate ST key. When OSB lamp lights, ***start timing.***	OSB lamp lighted. In 5 to 8 seconds— MST1 lamp lighted. OK lamp lighted.
21	Momentarily operate RL key.	All lamps extinguished.
22	At relay rack frame— Remove blocking tool from RB2 relay in group-busy circuit.	
23	Remove make-busy plug from ORMB jack.	
24	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
Z. B- Digit Translator		
12	Operate keys and set switches in accordance with Test Chart Tests 264 through 277.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
AA. Register Timeout After Marker Seizure		
12	Operate keys and set switches in accordance with Test Chart Test 278.	
13	Momentarily operate ST key. When MST lamp lights, ***start timing.***	MST lamp momentarily lighted. In 20 to 32 seconds— OK lamp lighted.
14	Momentarily operate RL key.	
15	Restore all keys and switches not required in next test.	
AB. Timing During Pretranslation		
12	Operate keys and set switches in accordance with Test Chart Test 279 and 280.	
13	Insert make-busy plug into ORMB jack for originating register under test.	
14c	If circuit under test is nonwire-spring-relay type— At register frame— Insulate 2B, 4B of PRL relay.	
15d	If circuit under test is wire-spring-relay type— At register frame— Insulate 7B, 9B of PRL relay.	
16	At relay rack frame— Block operated RB2 relay in group-busy circuit associated with originating registers.	
17	At MTF— Repeatedly operate, release ST key until OS_D lamp lights; ***start timing.***	OS_D lamp lighted. In 20 to 32 seconds— MST lamp lighted.

STEP	ACTION	VERIFICATION
	Note: Successive operation and release of the ST key must be performed in less than 5 seconds.	
18	Momentarily operate RL key.	All lamps extinguished.
19	Remove blocking tool from RB2 relay.	
20	Remove insulators from PRL relay.	
21	Remove make-busy plug from ORMB jack.	
22	Restore all keys and switches not required in next test.	
AC.	**Timing During Coin Test—Dial Tone First**	
12	Operate keys and set switches in accordance with Test Chart Test 281.	
13	At relay rack frame— Block operated RB2 relay in group-busy circuit associated with originating registers.	
14	At MTF— Momentarily operate ST key; ***start timing.***	MST1 lamp lighted. In 10 to 16 seconds— No-such-number tone heard in test circuit receiver. In 20 to 32 seconds after MST1 lamp lighted— OK lamp lighted.
15	Momentarily operate RL key.	All lamps extinguished.
16	At relay rack frame— Remove blocking tool from RB2 relay.	
17	At MTF— Restore all keys and switches not required in next test.	
AD.	**Common Alarm Timing**	
12	Operate keys and set switches in accordance with Test Chart Test 282.	
13	Insulate 11B of DOR2 relay.	
14	Momentarily operate ST key. When TO lamp lights, ***start timing.*** ***Note:*** If TOUCH-TONE calling, ST key must be momentarily operated a second time.	Dial tone heard. In 20 to 32 seconds— Dial tone silenced. After 20 to 32 second— TO lamp associated with register under test

STEP	ACTION	VERIFICATION
		lighted. In 10 to 15 seconds after TO lamp lighted— R-S-TOA lamp lighted. Major alarm sounds.
15	Insert make-busy plug into ORMB jack.	R-S-TOA lamp extinguished. Major alarm silenced.
16	Momentarily operate RL key.	All lamps extinguished.
17	Remove insulator from DOR2 relay.	
18	Remove make-busy plug from ORMB jack.	
19	Restore all keys and switches not required in next test.	

AE. Recycle of Timing

Improved Procedure for Test of Recycle of Timing not Provided (Tests 283, 284)

	Note: Refer to paragraph 1.04.	
12	Operate keys and set switches in accordance with Test Chart Tests 283 through 285.	
13	Insert make-busy plug into ORMB jack for originating register under test.	
14	At originating register frame— Insert plug of 32A test set into RC jack.	
15	Momentarily operate white (ST) button of 32A test set. ***Note 1:*** If TOUCH-TONE calling, white (ST) button must be operated a second time.	For registers arranged for coin test before dial tone— TMA relay operated, released, reoperated to start permanent signal timing.
	Note 2: Proceed to next step within 20 seconds to prevent originating register timeout.	For registers arranged for coin test after dial tone, arranged for coin service without coin test, or not arranged for coin service— TMA relay operated to start permanent signal timing.
16	Momentarily operate white (ST) button of 32A test set to pulse A digit. ***Note:*** Proceed to next step within 20 seconds to prevent originating register timeout.	TMA relay released, reoperated to recycle timing circuit for partial dial timing. TMB relay released at start of digit, reoperated at end of digit.
17	Momentarily operate white (ST) button of 32A test set to pulse B digit.	TMA relay released, reoperated. TMB relay released at start of each digit,

STEP	ACTION	VERIFICATION
		reoperated at end of digit.
	Note: Proceed to next step within 20 seconds to prevent originating register timeout.	
18	Momentarily operate white (ST) button of 32A test set once for each remaining C through K digit.	TMA relay operated, released for each digit. TMB relay released at start of each digit, reoperated at end of each digit except last digit.
19	Momentarily operate red (RLS) button of 32A test set.	TMA relay released.
20c	If originating register is arranged to make coin test after completion of dialing— Block nonoperated GT1 relay in originating register.	
21c	Momentarily operate white (ST) button of 32A test set.	
22c	Momentarily operate white (ST) button of 32A test set once for each digit set up on A through K keys.	TMA relay operated, released for each digit. TMB relay released at start of each digit, reoperated at end of each digit except last digit.
23c	Remove blocking tool from GT1 relay.	
24	Momentarily operate red (RLS) button of 32A test set.	TMA relay released.
25d	If register is arranged for coin service without coin test or if register is arranged for coin test before dial tone— At MTF— Restore A through K digits as required.	
26d	Restore RBT key.	
27d	Operate RPS key.	
28d	At originating register frame— Block nonoperated CR1 relay in originating register.	
29d	Momentarily operate white (ST) button of 32A test set.	
30d	At register frame— Momentarily operate TM relay manually.	TMA relay remains operated. TMB relay released.
31d	Remove blocking tool from CR1 relay.	

STEP	ACTION	VERIFICATION
32d	Momentarily operate red (RLS) button of 32A test set.	TMA relay released.
33	Remove plug of 32A test set from RC jack.	
34	At MTF— Remove make-busy plug from ORMB jack.	
35	Restore all keys and switches not required in next test.	
Improved Procedure for Test of Recycle of Timing Provided (Test 285)		
36	At MTF— Operate keys and switches in accordance with Test Chart Test 285.	
37	At group-busy circuit— Block operated RB2 relay associated with register to be tested.	
38	At MTF— Momentarily operate ST key.	OK lamp lighted.
39	Momentarily operate RL key.	All lamps extinguished.
40	At group-busy circuit— Remove blocking tool from RB2 relay.	
41	At MTF— Restore all keys and switches not required in next test.	
AF. Tip-Party Manual Test		
1	At MTF— Insert make-busy plug into ORMB jack for originating register under test.	
2	At originating register frame— Block operated 2P relay.	
3	Block nonoperated TP1 relay.	
4a	If App. Fig. 13 provided— Insulate contact 7 of TPT relay.	
5	Manually operate ON1 relay.	ON1 relay locked operated. ON, RL relays locked operated.
6	Remove blocking tool from TP1 relay.	ON1, ON, RL relays released.

STEP	ACTION	VERIFICATION
7	Manually operate ON1 relay.	TP1 relay operated while ON1 relay is operated.
8	Remove blocking tool from 2P relay.	
9a	If App. Fig. 13 provided— Remove insulation from TPT relay.	
10	At MTF— Remove make-busy plug from ORBM jack.	
AG.	**Line Location, Class of Service, and Observed Call Information—Storing and Verification of Trouble Recorder Leads**	
12	Operate keys and set switches in accordance with Test Chart Tests 286 through 298.	
13	Insert make-busy plug into ORMB jack for originating register under test.	
14c	At AMRST frame— Insulate 5 and 6 top contacts of DOR1 relay.	
15	At MTF— Momentarily operate ST key.	Two trouble records taken. FR_, CN_, RG_, CT_, CU_, FAC or OR, FT_, FU_, VG_, HG_, VF_, CH_, and if rate treatment is provided, CRU_, CGA or CGB designations perforated on each trouble record. D designation perforated on each trouble record indicating a dial pulsed call.
16	Momentarily operate RL key.	All lamps extinguished.
17	Repeat Steps 12 through 15 using several combinations of line location, classes of service, and rate treatment.	
18c	If originating registers are equipped to receive TOUCH-TONE signals— Operate PB key.	
19c	Select a line location, class of service, and rate treatment as required for a line arranged for TOUCH-TONE calling.	
20c	At MTF— Momentarily operate ST key.	Two trouble records taken. MF, FR_, CN_, RG_, CT_, CU_, FAC or OR, FT_, FU_, VG_, HG_, VF_, CH_, and if rate treatment is provided, CRU_, CGA or CGB designations perforated on each trouble record.
21c	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
22c	Repeat Steps 12 through 21c using several combinations of line location, classes of service, and rate treatment, as applicable for line link frames equipped for TOUCH-TONE dialing.	
23	At AMRST frame— Remove insulation from 5 and 6 top contacts of DOR1 relay.	
24	At MTF— Restore TA key to normal.	
25	Momentarily operate ST key.	OK lamp lighted.
26	Momentarily operate QTR key.	Trouble record taken. FR_, CN_, RG_ designations perforated the same as shown on trouble record for Steps 15, or 20c as applicable.
27	Momentarily operate RL key.	All lamps extinguished.
28	Remove make-busy plug from ORMB jack.	
29	At MTF— Restore all keys and switches not required in next test.	

AH. Start Dial Signal

12	Operate keys and set switches in accordance with Test Chart Test 299.	
13	Insert make-busy plug into ORMB jack associated with register under test.	
14c	If TM jack access is provided— Patch T1 jack of voltmeter test circuit to TM jack of trunk test circuit.	
15c	At trunk test circuit— Block ST relay operated.	
16c	At voltmeter test circuit— Block operated SL1 relay.	
17d	If TM1 and TM2 jack access is provided— Patch T1 jack of voltmeter test circuit to TM1 jack of jack, lamp, and key circuit.	
18	At MTF— Operate VMT1, T1 REV keys.	

STEP	ACTION	VERIFICATION
19	Momentarily operate ST key.	OK lamp lighted. Voltmeter readings will be 120-volts on seizure and outpulsing and 105-volts at end of pulsing.
20	Momentarily operate RL key.	All lamps extinguished.
21c	If TM jack access is provided— Remove patching cord from T1 and TM jacks.	
22c	At voltmeter test circuit— Remove blocking tool from SL1 relay.	
23c	At trunk test circuit— Remove blocking tool from ST relay.	
24d	If TM1 and TM2 jack access is provided— Remove patching cord from T1 and TM1 jacks.	
	Note: Tests AI, AJ, AK, AL, and AM actions and verifications are the same as shown in Test AN.	

AI. Intra-PBX Call Tests 300 and 301.
AJ. 11X Special Codes—Originating Register Arranged for Centrex Service Only Tests 302 and 303.
AK. Dial Zero Calls for Centrex Service Tests 304 and 305.
AL. 1XX Special Codes for Centrex Service Tests 306 Through 315.
AM. CCSA Call—Prefix Digit 8 Tests 316 Through 323.
AN. CCSA Call—Digit 1 Absorption After Prefix Digit 8

12	Operate keys and set switches in accordance with Test Chart Tests 300 through 325.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
	Note: Tests AO, AP, AQ, AR, AS, AT, AU, AV, and AW actions and verifications are the same as shown in Test AX.	

STEP	ACTION	VERIFICATION
AO.	**Slow Test Tests 326 Through 329.**	
AP.	**High Level Test Tests 330 Through 333.**	
AQ.	**Low Level Test Tests 334 and 335.**	
AR.	**High Frequency Test Tests 336 and 337.**	
AS.	**Low Frequency Test Tests 338 and 339.**	
AT.	**Single Frequency Test Tests 340 Through 347.**	
AU.	**Special 3-Frequency Test Tests 348 Through 351.**	
AV.	**Long Pulse Test Test 352.**	
AV.	**Unused Frequency Combinations Tests 353 and 354.**	
AW.	**Toll Diversion**	
AX.	**Range Extension for Unigauge Cabling Tests 357 Through 360**	
12	Operate keys and set switches in accordance with Test Chart Tests 326 through 360.	
For all Tests Except 353, 354, 355, 356, and 358		
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
For Tests 353, 354		
15	Momentarily operate ST key.	Overflow tone heard in test circuit receiver.
16	Momentarily operate RL key.	Overflow tone silenced.
For Tests 355, 356		
17	Operate keys and set switches in accordance with Test Chart Tests 355 and 356.	
18	Momentarily operate the ST key.	WS lamp lighted, if reversal is present.
19	Momentarily operate RL key.	All lamps extinguished.
For Test 358		
20	Momentarily operate ST key; ***start timing.***	In 40 to 60 seconds— TBL lamp lighted.
21	Momentarily operate RL key.	All lamps extinguished.
All Tests		
22	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
AY.	**C- Digit Translator**	
12	Operate keys and set switches in accordance with Test Chart Tests 361 and 362.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
AZ.	**Interchangeable and/or NPA-411 Information Codes**	
12	Operate keys and set switches in accordance with Test Chart Tests 363 through 366.	
13	Momentarily operate ST key.	OK lamp lighted. ***Note:*** On Tests 363, 364, OK lamp lighted in 3 to 4 seconds after FD lamp lighted. On Tests 365, 366, OK lamp immediately lighted after FD lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
BA.	**Coin Operation**	
	Note: Refer to paragraph 1.05.	
12	Operate keys and set switches in accordance with Test Chart Tests 367 through 382.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
BB.	**Wideband Service**	
12	Operate keys and set switches in accordance with Test Chart Tests 383 through 386.	
13	Momentarily operate ST key.	For Tests 383, 384— OK lamp lighted.

STEP	ACTION	VERIFICATION
		For Tests 385, 386— Overflow tone heard in test receiver.
14	Momentarily operate RL key.	All lamps extinguished. Overflow tone silenced.
15	Restore all keys and switches not required in next test.	
BC.	**Wideband Access Digit to Right of 0 Key**	
12	Operate keys and set switches in accordance with Test Chart Test 387.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches.	
BD.	**Wideband—Centrex Access to the Wideband Network**	
12	Operate keys and set switches in accordance with Test Chart Test 388.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and switches not required in next test.	
BE.	**Originating Register to Completing Marker Leads Test**	
12	Operate keys and set switches in accordance with Test Chart Tests 389 through 399.	
13	At MTF— Insert make-busy plug into ORMB jack for originating register under test.	
14	At MT control circuit— Apply ground to 7T of MFC1 relay.	KCH relay will operate.
15	At the AMRST— Insulate 5-6T of DOR1 relay.	
	Note: A trouble recorder card will be received on any outgoing OR test call when ST key is operated.	

STEP	ACTION	VERIFICATION
16	Momentarily operate ST key.	OK lamp lighted. Trouble recorder card made. ***Note:*** Check trouble card punches to verify each lead between the OR and CM's.
17	Momentarily operate RL key.	All lamps extinguished.
18	Change channel selection (CH 0-9) on each test to check ***all*** NOB, OBS, LL0, 1, 2, 4 and 7 leads from OR to CMS.	
19	Momentarily operate ST key.	OK lamp lighted. Trouble recorder card made.
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore all keys and/or switches.	
BF.	**▶Digit 8 Access Call to Enhanced Private Switched Communications Systems (EPSCS) No. 1 ESS**	
12	Operate keys and set switches in accordance with Test Chart test 400 and 401.	
13	Momentarily operate ST key.	OK lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore all keys and/or switches.◀	

5. PREPARATION OF TEST CHART

5.01 The Test Chart is used as a particular number chart and provides the priming information required for each test. Information obtained from local office records should be used to fill in the Test Chart in the following manner:

(a) Record the various classes of service. When office is provided with rate treatment, record various rate treatments. If the class of service is 2-party, record the 2P key and one of RPF, TPF, RTP, or RRP keys in the MISCELLANEOUS KEYS AND/OR SWITCHES column. Do not use a manual, coin, or CCSA class of service unless it is specified. When centrex class of service is selected, record digit 9 in the PREFIX DIGIT column. If PBX/PBX5 key is provided, record PBX key in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

(b) When dial pulse calling, record in the PULSING CONT column (7 MIN, 7 MAX, 15 MIN, 15 MAX, 24 MIN, 24 MAX, or SURGE) in accordance with the condition to be tested. Do not use 15 MAX, 24 MIN, or SURGE keys if the class of service used is coin and the register is arranged to function with coin-first lines which require a coin deposit before being connected to the register.

(c) When TOUCH-TONE calling, record the PB key in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

(d) In the DIGITS—CODE(S) AND NUMBER column, record the A through F digits required for area and/or office codes. The selection of the codes should be made so that each usable numerical is employed for each dialable or TOUCH-TONE digit. When selecting

an office code on a 7-digit call, select any B-digit other than 0 or 1, or any numerical that will not be recognized as an area code or treated as an unused digit.

(e) When register is arranged to time for additional digits or repetitive timing is used, record STD key in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

5.02 ***Test A***

(1) Apply (a), (d), and (e) of paragraph 5.01.

(2) For Tests 9, 10, 19, and 20, use centrex class of service.

5.03 ***Test B***

(1) Apply (a) and (e) of paragraph 5.01.

(2) Apply (d) of paragraph 5.01, selecting working X0X-, X1X-, NN0-type area codes. If timing after the 7th digit is not required, a prefix digit of 0 or 1 is required ahead of the area code.

(3) When centrex class of service is used, apply (e) of paragraph 5.01.

(4) For Tests 29, 30, 39, and 40, use CCSA class of service.

5.04 ***Test C***

(1) For Tests 41 and 44, apply (a) and (d) of paragraph 5.01. Do not use centrex class of service.

(2) For Tests 42 and 45, apply (a) and (d) of paragraph 5.01, using centrex class of service.

(3) For Tests 43 and 46 (office arranged for interchangeable and/or NPA-411 information codes) apply (a) and (d) of 5.01 except where 7-digit calls do not require a prefix digit (see paragraph 1.09.) Do not use centrex class of service.

(4) For all tests, apply (e) of paragraph 5.01.

5.05 ***Test D***

(1) Where this feature is provided, 11X-type codes are not used for service codes.

(2) Apply (a), (d), and (e) of paragraph 5.01.

(3) For Tests 48 and 50, use centrex class of service.

5.06 ***Test E***

(1) Record the X digit of a 11X code as the A digit in the DIGITS—CODE(S) AND NUMBER column.

(2) If a coin class of service is used with coin return where 11X codes are used for both service codes and straightforward codes, record the CR4 key in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

(3) Apply (a) and (e) of paragraph 5.01.

(4) For Tests 52 and 54, use centrex class of service.

5.07 ***Test F***

(1) For Tests 55 and 58, record the X digit of an X11 code as the A- digit in the DIGITS—CODE(S) AND NUMBER column.

(2) For Tests 56, 57, 59, and 60 (register arranged for NPA-411 information codes), apply (e) of paragraph 5.01.

(3) For all tests, apply (a) of paragraph 5.01.

5.08 ***Test G***

(1) Apply (a) and (b) or (c) of paragraph 5.01. Use a manual class of service, noncoin and coin.

5.09 ***Test H***

(1) For Tests 63 and 66, do not use a coin, centrex, or CCSA class of service.

(2) For Tests 64 and 67, use a coin class of service.

(3) For Tests 65 and 68, use centrex class of service.

5.10 ***Test I***

(1) Apply (d) of paragraph 5.01.

(2) For Tests 69 and 73, apply (a) of paragraph 5.01. Do not use centrex class of service.

(3) For Tests 70 and 74, use centrex class of service.

(4) For Tests 71 and 75, do not use prefix digit of 0 if OR is arranged to accept only 10 digits when a prefix of 0 is dialed. Do not use centrex class of service.

(5) For all tests, apply (e) of paragraph 5.01.

5.11 *Test I.1*

(1) Apply (a) of paragraph 5.01 using a class of service for IDDD routing.

(2) Record country code and additional digits under DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) column as follows:

(a) For Tests 78, 79, 80, and 86, 87, 88, select working country codes and digits through G, H, and J, respectively, when the register is arranged to time for additional digits after 7, 8, or 9 digits.

(b) For Tests 81 through 84 and 89 through 92 select working country codes and digits through J, K, L, and M, respectively, when the register is arranged for marker start after 9, 10, 11, and/or 12 digits.

(c) For Tests 93 through 96, select working country codes and digits through H, J, K, and L, respectively, when the register is arranged to (1) require an end-of-dial signal after 8, 9, 10, or 11 digits, or (2) recognize an end-of-dial signal after the register has begun timing for additional digits.

5.12 *Test I.2*

(1) Apply (a) of paragraph 5.01, using a class of service for IDDD routing.

(2) Record country code and additional digits under DIGITS-CODE(s) AND NUMBER (CALLED NUMBER) column as follows.

(a) For Tests 97 through 102 and 110 through 115, select working country codes that will allow the register to record the maximum number of digits (11 or 12 digits, as provided).

(b) For Tests 103, 104, 105, and 116, 117, 118, select working country codes and digits through G, H, and J, respectively, when the register is arranged to time for additional digits after 7, 8, or 9 digits.

(c) For Tests 106, 107, 108 and 119 through 122, select working country codes and digits through J, K, L, and M, respectively, when the register is arranged for marker start after 9, 10, 11, and/or 12 digits.

(d) For Tests 123 through 126, select working country codes and digits through H, J, K, and L, respectively, when the register is arranged to (1) require an end-of-dial signal after 8, 9, 10, or 11 digits, or (2) recognize an end-of-dial signal after the register has begun timing for additional digits.

5.13 *Test J*

(1) Apply (a) and (b) or (c) of paragraph 5.01.

(2) Record A; A and B; or A, B, and C digits in the DIGIT—CODE(S) AND NUMBER column for a complete code for a manual office.

5.14 *Test K*

(1) Apply (a) of paragraph 5.01.

5.15 *Test L*

(1) Use a 2-party class of service other than manual that requires a party test.

(2) Apply (b) or (c) and (d) of paragraph 5.01.

5.16 *Test M*

(1) In the DIGIT—CODE(S) AND NUMBER column, record an A digit other than 0, 1, 8, or 9 that will not be recognized as a code or as an unused digit to be routed to a vacant code.

(2) For Test 140, select noncoin class of service.

(3) For Test 141, select coin class of service.

(4) For Test 142, select centrex class of service.

(5) For all tests, apply (b) or (c) of paragraph 5.01.

5.17 ***Test N***

(1) Use coin class of service other than manual.

(2) Apply (b) or (c) of paragraph 5.01. When (b) is applied, do not use 15 MAX, 24 MIN, or SURGE.

(3) For Test 144 (register makes coin test after dialing is complete), apply (d) of paragraph 5.01.

5.18 ***Test O***

(1) Use a coin class of service other than manual.

(2) Apply (b) or (c) and (d) of paragraph 5.01, using a code which the marker recognizes as a free call.

5.19 ***Test P***

(1) Use a coin class of service.

(2) Apply (b) or (c) of paragraph 5.01.

5.20 ***Test Q***

(1) Apply (a), (b) or (c), and (d) of paragraph 5.01.

5.21 ***Test R***

(1) For Tests 148 through 153, record all unused A digits that the register will translate.

(2) For Tests 154 through 160 and 168, record all unused A digits of 1X-type codes that the register will translate.

(3) For Tests 161 through 167, 169, and 170, record all used A digits of 11X-type codes that the register will translate. For one test, record the A digit of a 11 foreign area directing code.

(4) For all tests, record any additional digits required for the register to engage a marker.

(5) For Tests 160, 167, 170, and 171, use centrex class of service.

(6) Apply (a), (d), and (e) of paragraph 5.01.

5.22 ***Test S***

(1) For Tests 148 through 153, record unused A digits and/or used A digits and unused B digits that the register will translate.

(2) For Tests 154 through 160 and 168, record used A and B digits of a 1X- or 1XX-type code that the register will translate.

(3) For tests 161 through 167, 169, and 170, record the A and B digits of 11X- or 11XX-type codes that the register will translate. For one test, record the A digit of 11 foreign area directing code.

(4) For all tests, record any additional digits required for the register to engage a marker.

(5) For Tests 160, 164, 170, and 171, use centrex class of service.

(6) Apply (a), (d), and (e) of paragraph 5.01.

5.23 ***Test T***

Note: Refer to paragraph 1.08 and use only those lines that apply to the particular office under test.

(1) For Tests 172 through 179, record the A and B and/or A, B, and C digits which will cause the register to engage a pretranslator.

(2) For Test 181, record a working NPA area code.

(3) For Tests 182 through 191, record the A, A and B digits of a 1X- or 1XX-type code which will cause the register to engage a pretranslator.

(4) For Tests 192 through 201, record the A, A and B digits of a 11X- or 11XX-type code which will cause the register to engage a pretranslator.

(5) For Tests 202 through 215 and 222 through 229, record the A and C, A and B, or A, B, and C digits of a working N0N-, N1N, NN0-type foreign area codes and/or office codes. When register is arranged for interchangeable area

and office codes, complete Tests 202, 203, 207, 222 and 223 by recording interchangeable area and/or office codes.

(6) For Test 216, record the office code of a 11 foreign area directing code that will cause the register to engage a pretranslator.

(7) For Tests 217 through 221, use these Tests only when OR is equipped for interchangeable codes without timing (prefix digits used to differentiate between 7 and 10 digit codes).

(8) For Tests 217 and 219, record the A, B, and C digits of an area code that the pretranslator will recognize as a vacant area code.

(9) For Tests 218 and 220, record the A, B, and C digits of a working office code that is not an interchangeable code.

(10) For Test 221, record the A, B, and C digits of a working area code that is not an interchangeable code.

(11) For all Tests apply (a) and (e) of paragraph 5.01.

(12) Record any additional digits required for the register to engage a marker.

5.24 ***Test T.1***

(1) Apply (a) of paragraph 5.01, using a class of service for IDDD routing.

(2) Apply (b) or (c) of paragraph 5.01.

(3) Record working country codes and additional digits in DIGITS-CODE(s) AND NUMBERS (CALLED NUMBER) column as follows:

(a) When selecting country codes, the selection of the codes should be made so that each usable numerical is employed for each dialable or TOUCH-TONE digit.

(b) For Tests 230 through 232, select working country codes and digits through J, K, and L, respectively, when the pretranslator indicates to the register to engage a marker after 9, 10, or 11 digits.

(c) For Tests 233 through 235, select working country codes and digits through G, H, and J, respectively, when the pretranslator indicates to the register to time for additional digits after 7, 8, or 9 digits.

(d) For Test 236, select the A, B, and C digits that the pretranslator will recognize as a vacant code.

(e) For Tests 237 through 246, select various working country codes, as required, that will check the A, B, and C digit leads to the pretranslator on a 2-out-5-basis.

(f) For Tests 237 through 246, select additional digits, as required, for the register to engage a marker.

(4) When an end-of-dial signal is required, record 10 in the digit column and record EODA in MISCELLANEOUS KEYS AND SWITCHES column.

5.25 ***Test U***

(1) Apply (a) of paragraph 5.01.

5.26 ***Test V***

(1) For Tests 248, 249, 250, and 252, apply (a) of 5.01. Do not use centrex class of service.

(2) For Test 251, use centrex class of service.

5.27 ***Test W***

(1) Use a manual class of service, coin or noncoin. If coin class of service is used, record CN key in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

5.28 ***Test X***

(1) Apply (a) and (b) of paragraph 5.01, using coin class of service for Test 254 and noncoin class of service for Test 255.

5.29 ***Test Y***

(1) For Tests 256 and 257, apply (a) and (b) or (c) of paragraph 5.01. If (c) is to be applied, use 15 MIN.

(2) For Tests 258 through 263, use IDDD class of service.

(3) Perform Tests 250 through 263 when register requires end-of-dialing signal on TOUCH-TONE calling.

(4) For Tests 258 through 263, record A through L digits as required on Test Chart for IDDD routing.

5.30 *Test Z*

(1) For Tests 264 and 271, record a working office code.

(2) For Tests 265, 266, 268, 269, 270, 272, 273, 275, 276, and 277, record the A and C digits of a working foreign area code and office code or the A and C digits of an interchangeable code.

(3) For Tests 267 and 274, apply (d) of paragraph 5.01.

(4) For Tests 270 and 277, use centrex class of service.

(5) For all tests, apply (a) and (e) of paragraph 5.01.

5.31 *Test AA*

(1) Apply (a) and (b) or (c) of paragraph 5.01.

5.32 *Test AB*

(1) Apply (a), (b), or (c) and (d) of paragraph 5.01, using a code that requires a pretranslator.

(2) Test 279 is to be used when pretranslator SD-25568-01 is provided.

(3) Test 280 is to be used when pretranslator SD-27849-01 is provided.

5.33 *Test AC*

(1) Use coin class of service other than manual.

(2) Apply (b) or (c), (d), and (e) of paragraph 5.01.

5.34 *Test AD*

(1) Apply (a) of paragraph 5.01.

5.35 *Test AE*

(1) Apply (a) of paragraph 5.01, using a coin class of service for Test 283 and a noncoin class of service for Test 284.

(2) Apply (b) or (c), (d), and (e) of paragraph 5.01.

5.36 *Test AF*

(1) Test Chart not required.

5.37 *Test AG*

(1) Apply (a) of paragraph 5.01, using classes of service and rate treatment that will check all CT_, CU_, and CRU_ leads on a 2/5 basis.

(2) Apply (b) or (c) of paragraph 5.01.

(3) When manual class of service is used, record MAN in the MISCELLANEOUS KEYS AND/OR SWITCHES column.

5.38 *Test AH*

(1) Apply (a) of paragraph 5.01, using a centrx class of service for an attendant or tie line.

5.39 *Test AI*

(1) Use centrex 4-digit or 5-digit class of service.

(2) Apply (b) or (c) of paragraph 5.01.

5.40 *Test AJ*

(1) Use Test 302 when telephone company service codes are of the 11X-type.

(2) Use Test 303 when telephone company service codes are of the X11-type.

(3) Record the A digit of a 11X-type code and any additional digits that may be required for the register to engage a marker.

(4) Use centrex class of service.

(5) Apply (b) or (c) of paragraph 5.01.

5.41 ***Test AK***

(1) Use centrex class of service.

(2) Use Test 304 when register is arranged for 4-digit intra-PBX calls.

(3) Use Test 305 when register is arranged for 5-digit intra-PBX calls.

5.42 ***Test AL***

(1) Use centrex class of service.

(2) For Test 306, record the A, B digits of a working 1XX special code, using a "1" for the A digit if any working special code utilizes a "1" in this position, and record additional digits required to start repetitive timing, if provided.

(3) For Tests 307 through 310, record the A, B digits of working 1XX special codes, using a "1" for the A digit if any working special code utilizes a "1" in this position, and record additional digits required where a timing interval is not required for an additional digit.

(4) For Tests 311 through 315, record the A, B digits of 1XX special codes, using a "1" for the A digit if any working special code utilizes a "1" in this position, and record additional digits required where a timing interval is required for an additional digit.

(5) Apply (b), (c), or (e) of paragraph 5.01 as required.

5.43 ***Test AM***

(1) Use CCSA class of service.

(2) Apply (d) of paragraph 5.01, using codes for routing to CCSA trunks.

(3) Use Tests 318, 319, 322, an 323 when the register is arranged to recognize that an access digit 8 call was directed to the No. 5 crossbar office.

5.44 ***Test AN***

(1) Use CCSA class of service.

(2) Apply (d) of paragraph 5.01, using codes for routing to CCSA trunks.

5.45 ***Tests AO Through AV***

(1) Apply (a) and (d) of paragraph 5.01.

(2) For Tests 328, 329, 332, 333, 335, 337, and 339, use centrex class of service.

5.46 ***Test AV.1***

(1) Apply (a) of paragraph 5.01.

5.47 ***Test AW***

(1) Use a class of service that requires toll diversion for certain codes.

(2) Apply (a) and (b), or (c) of paragraph 5.01.

(3) Apply (d) of paragraph 5.01, using codes that will cause the marker to invoke toll diversion for the class of service chosen in (1).

(4) Use Test 356 when toll diversion is screened by prefix digit 1.

5.48 ***Test AX***

(1) Apply (a) and (d) of paragraph 5.01.

(2) For Tests 357 and 359, record the line location of a long-loop line arranged for range extension for unigauge cabling.

(3) For Tests 358 and 360, record the line location of a nonlong-loop line in a horizontal group arranged for range extension for unigauge cabling.

5.49 ***Test AY***

(1) Apply (a) and (b) or (c) of paragraph 5.01.

(2) Record the A and B digits of a working NN0 interchangeable code.

5.50 ***Test AZ***

(1) Apply (a) and (b) or (c) of paragraph 5.01.

(2) Record the A, B, and C digits of any working interchangeable code.

5.51 ***Test BA***

(1) For Tests 367 and 368, select a dial-pulse, coin-first, ground-start class of service.

(2) For Tests 369 and 370, select a TOUCH-TONE, coin-first, ground-start class of service.

(3) For Tests 371 and 372, select a dial-pulse, coin-first, loop-start class of service.

(4) For Tests 373 and 374 select a TOUCH-TONE, coin-first, loop-start class of service.

(5) For Tests 375 through 378, select a dial-pulse, coin service improvement (dial-tone-first) class of service.

(6) For Tests 379 through 382, select a TOUCH-TONE, coin service improvement (dial-tone-first) class of service.

5.52 ***Test BB***

(1) Apply (a) and (b) of paragraph 5.01.

(2) For Test 383, select a nonwideband class of service.

(3) For Tests 384 through 386, select a wideband class of service.

5.53 ***Test BC***

(1) Apply (a) of paragraph 5.01 to select a wideband class of service that will require the register to recognize that an access digit (#) was keyed to reach a central No. 5 crossbar office.

5.54 ***Test BD***

(1) Apply (a) of paragraph 5.01 to select a wideband class of service that will require the register to recognize an access digit (#) followed by a directing digit (a) that was keyed by a wideband-centrex customer for selection of a trunk, from a trunk group handling wideband calls, to the No. 5 crossbar office serving the PBX.

5.55 ***Test BE***

(1) Apply (a) (d) and (e) of paragraph 5.01.

5.56 ***Test BF***

(1) Use class of service having access to EPSCS No. 1 ESS.

(2) Apply (a) of paragraph 5.01.

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																													TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES									
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M										
A	Regular Call — 7-Digit	1															1	3	6	0						OR	LT		7 MIN									1	A
		2															3	6	0	7						OR	LT		7 MAX									2	
		3															6	0	7	1						OR	LT		15 MIN									3	
		4															0	7	1	3						OR	LT		15 MAX									4	
	Dial Pulse	5															7	1	3	6						OR	LT		24 MIN									5	
		6															1	2	3	4						OR	LT		24 MAX									6	
		7															1	2	3	4						OR	LT		SURGE									7	
		8															1	2	3	4						OR	LT		24 MIN									8	
		9											9	9	9	9	1	2	3	4						OR	LT		24 MIN		PBX*							9	
		10											9	8	8	8	1	2	3	4						OR	LT		24 MIN		PBX*							10	
		11															1	3	5	0						OR	LT			PB								11	
		12															3	5	0	7						OR	LT			PB								12	
		13															5	0	7	1						OR	LT			PB								13	
		14															0	7	1	3						OR	LT			PB								14	
	TOUCH-TONE	15															7	1	3	5						OR	LT			PB								15	
		16															1	2	3	4						OR	LT			PB								16	
		17															1	2	3	4						OR	LT			PB								17	
		18															1	2	3	4						OR	LT			PB								18	
		19											9	9	9	9	1	2	3	4						OR	LT			PB	PBX*							19	
		20											9	8	8	8	1	2	3	4						OR	LT			PB	PBX*							20	
B	Regular Call — 10-Digit	21																		1	3	6	0			FAC	LT		7 MIN									21	B
		22																		3	6	0	7			FAC	LT		7 MAX									22	
		23																		6	0	7	1			FAC	LT		15 MIN									23	
		24																		0	7	1	3			FAC	LT		15 MAX									24	
	Dial Pulse	25																		7	1	3	6			FAC	LT		24 MIN									25	
		26																		1	2	3	4			FAC	LT		24 MAX									26	
		27																		1	2	3	4			FAC	LT		SURGE									27	
		28																		1	2	3	4			FAC	LT		24 MIN									28	
		29											8	9	9	9	1	2	3	1	2	3	4			FAC	LT		24 MIN									29	
		30											8	8	8	8	1	2	3	1	2	3	4			FAC	LT		24 MIN									30	

* When provided.

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																													TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES								
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M											
B (Cont)	TOUCH-TONE	31																		1	3	5	0			FAC	LT			PB							31	B (Cont)
		32																		3	5	0	7			FAC	LT			PB							32	
		33																		5	0	7	1			FAC	LT			PB							33	
		34																		0	7	1	3			FAC	LT			PB							34	
		35																		7	1	3	5			FAC	LT			PB							35	
		36																		1	2	3	4			FAC	LT			PB							36	
		37																		1	2	3	4			FAC	LT			PB							37	
		38																		1	2	3	4			FAC	LT			PB							38	
		39											8	9	9	9	1	2	3	1	2	3	4			FAC	LT			PB							39	
		40											8	8	8	8	1	2	3	1	2	3	4			FAC	LT			PB							40	
C	Prefix Digit 1 Code — Dial Pulse	41											1							1	2	3	4			FAC	LT1		24 MIN								41	C
		42										9	1							1	2	3	4			FAC	LT1		24 MIN		PBX*						42	
		43											1				1	2	3	4						FAC	LT1		24 MIN								43	
	TOUCH-TONE	44											1							1	2	3	4			FAC	LT1			PB							44	
		45										9	1							1	2	3	4			FAC	LT1			PB	PBX*						45	
		46											1				1	2	3	4						OR	LT1			PB							46	
D	Prefix Digits 11 — Foreign Area Directing Code — Dial Pulse	47										1	1				1	2	3	4						OR	11		24 MIN								47	D
		48									9	1	1				1	2	3	4						OR	11		24 MIN		PBX*						48	
	TOUCH-TONE	49										1	1				1	2	3	4						OR	11			PB							49	
		50									9	1	1				1	2	3	4						OR	11			PB	PBX*						50	
E	11X Service Codes — Dial Pulse	51										1	1													OR	11		24 MIN								51	E
		52									9	1	1													OR	11		24 MIN		PBX*						52	
	TOUCH-TONE	53										1	1													OR	11			PB							53	
		54									9	1	1													OR	11			PB	PBX*						54	
F	X11 Service Codes	55													1	1										OR	LT		24 MIN		PBX*						55	F
		55.1											1	4	1	1										OR	X11		24 MIN		PBX*						55.1	
	Dial Pulse	56											1	4	1	1										OR	LT1		24 MIN								56	
		57											1				4	1	1							FAC	X11		24 MIN			SER*					57	
		58													1	1										OR	LT			PB							58	
	TOUCH-TONE	59											1	4	1	1										OR	LT1			PB							59	
		60											1				4	1	1							FAC	X11			PB		SER*					60	

* When provided.

Test Chart (Cont)

TEST CHART

TEST	TYPE OF TEST		TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																												TEST NO.	TEST
				LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)														CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES								
				FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M									
G	Manual Call	Noncoin	61																								OR	LT					MAN					61	G
		Coin	62																								OR	LT					MAN	CN				62	
H	Zero Operator	Noncoin	63												0												OR	LT		24 MIN	STD**							63	H
	Dial Pulse	Coin	64												0												OR	LT		7 MIN			ZRO	CN				64	
		Centrex	65											9	0												OR	LT		24 MIN		PBX*						65	
		Noncoin	66												0												OR	LT			PB	STD**							66	
	TOUCH-TONE	Coin	67												0												OR	LT			PB		ZRO	CN				67	
		Centrex	68											9	0												OR	LT			PB	PBX*						68	
I	Prefix Digits 0+		69											0							1	2	3	4			FAC	LT2		24 MIN								69	I
			70										9	0							1	2	3	4			FAC	LT2		24 MIN		PBX*						70	
	Dial Pulse		71											0				1	2	3	4						OR	LT2		24 MIN			STD†					71	
			72												0												OR	LT		24 MIN			STD					72	
			73											0							1	2	3	4			FAC	LT2			PB								73	
	TOUCH-TONE		74										9	0							1	2	3	4			FAC	LT2			PB	PBX*						74	
			75											0				1	2	3	4						OR	LT2			PB		STD†					75	
			76												0												OR	LT			PB		STD					76	
I.1	Prefix Digits 01+		77										0	1	0												FAC	FVD		24 MIN								77	I.1
			78										0	1													FAC	FVD		24 MIN			STD					78	
			79										0	1													FAC	FVD		24 MIN			STD					79	
	Dial Pulse		80										0	1													FAC	FVD		24 MIN			STD					80	
			81										0	1													FAC	FVD		24 MIN								81	
			82										0	1													FAC	FVD		24 MIN								82	
			83										0	1													FAC	FVD		24 MIN								83	
			84										0	1													FAC	FVD		24 MIN								84	
			85										0	1	0												FAC	FVD			PB								85	
			86										0	1													FAC	FVD			PB		STD					86	
			87										0	1													FAC	FVD			PB		STD					87	
			88										0	1													FAC	FVD			PB		STD					88	
			89										0	1													FAC	FVD			PB								89	
	TOUCH-TONE		90										0	1													FAC	FVD			PB								90	
			91										0	1													FAC	FVD			PB								91	
			92										0	1													FAC	FVD			PB								92	
			93										0	1									10				FAC	FVD			PB	EODA							93	
			94										0	1										10			FAC	FVD			PB	EODA							94	
			95										0	1											10		FAC	FVD			PB	EODA							95	
			96										0	1												10	FAC	FVD			PB	EODA							96	

* When provided.
† For interchangeable codes only.
** When office is arranged for 0+ traffic, use this key.

Test Chart (Cont)

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																													TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES								
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M										
I.2	Prefix Digits 011+	97									0	1	1				1	3	6	0	7	1	3	6	0	FAC	11		7 MIN							97	I.2
		98									0	1	1				3	6	0	7	1	3	6	0	7	FAC	11		7 MAX							98	
		99									0	1	1				6	0	7	1	3	6	0	7	1	FAC	11		15 MIN							99	
		100									0	1	1				0	7	1	3	6	0	7	1	3	FAC	11		15 MAX							100	
		101									0	1	1				7	1	3	6	0	7	1	3	6	FAC	11		24 MIN							101	
		102									0	1	1				1	2	3	4	1	2	3	4	1	FAC	11		24 MAX							102	
	Dial Pulse	103									0	1	1													FAC	11		24 MIN	STD						103	
		104									0	1	1													FAC	11		24 MIN	STD						104	
		105									0	1	1													FAC	11		24 MIN	STD						105	
		106									0	1	1													FAC	11		24 MIN							106	
		107									0	1	1													FAC	11		24 MIN							107	
		108									0	1	1													FAC	11		24 MIN							108	
		109									0	1	1													FAC	11		24 MIN							109	
		110									0	1	1				1	3	5	0	7	1	3	5	0	FAC	11			PB	HLV					110	
		111									0	1	1				3	5	0	7	1	3	5	0	7	FAC	11			PB	HLV	SLO				111	
		112									0	1	1				5	0	7	1	3	5	0	7	1	FAC	11			PB	LLV					112	
		113									0	1	1				0	7	1	3	5	0	7	1	3	FAC	11			PB	LLV					113	
		114									0	1	1				7	1	3	5	0	7	1	3	5	FAC	11			PB	LLV					114	
		115									0	1	1				1	2	3	4	1	2	3	4	1	FAC	11			PB	LGP					115	
		116									0	1	1													FAC	11			PB	STD					116	
		117									0	1	1													FAC	11			PB	STD					117	
	TOUCH-TONE	118									0	1	1													FAC	11			PB	STD					118	
		119									0	1	1													FAC	11			PB						119	
		120									0	1	1													FAC	11			PB						120	
		121									0	1	1													FAC	11			PB						121	
		122									0	1	1													FAC	11			PB						122	
		123									0	1	1									10				FAC	11			PB	EODA					123	
		124									0	1	1										10			FAC	11			PB	EODA					124	
		125									0	1	1											10		FAC	11			PB	EODA					125	
		126									0	1	1												10	FAC	11			PB	EODA					126	

Test Chart (Cont)

♦ TEST CHART ♦

TEST	TYPE OF TEST		TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																														TEST NO.	TEST
				LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)															CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES light								
				FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M										
I.2 (Cont)	Invalid Combination and Sequence	Dial Pulse	127									0	1	1	0												FAC	11		24 MIN		SDC	MOTL					127	I.2 (Cont)
			128									0	1	1	1												FAC	11		24 MIN		SDC	MOTL					128	
			129									0	1	1	2												FAC	11		24 MIN		SDC	MOTL	EODA				129	
		TOUCH-TONE	130									0	1	1	0												FAC	11			PB	SDC	MOTL					130	
			131									0	1	1	1												FAC	11			PB	SDC	MOTL					131	
			132									0	1	1	2	10											FAC	11			PB	SDC	MOTL	EODA				132	
J	Straightforward Call to Manual Office		133																								OR	LT										133	J
K	Preliminary Pulse	Dial Pulse	134												1	1	1										OR	LT		24 MIN		MOTL						134	K
		TOUCH-TONE	135												1	1	1										OR	LT			PB	MOTL						135	
L	Two-Party Test		136															1	2	3	4						OR	LT					2 P	RTP				136	L
			137															1	2	3	4						OR	LT					2 P	RRP				137	
			138															1	2	3	4						OR	LT					2 P	TPF				138	
			139															1	2	3	4						OR	LT					2 P	RPF				139	
M	Abandoned Call	Noncoin	140		Army																												RAB					140	M
		Coin	141																														RAB	CN	KPI, AB, DRon, FB, MST, CK, 2 OK			141	
		Centrex	142											9	/																	PBX*	RAB					142	

* When provided.

Test Chart (Cont)

♦ TEST CHART ♦

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																															TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES									
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M											
N	Abandoned Call During Coin Test	143																													CTAB	CN				143	N
		144																		1	2	3	4								CTAB	CN				144	
O	Marker Coin Return	145															1	2	3	4											CR4	CN				145	O
P	Stuck Coin	146												0																	ZRO	CN	RSC			146	P
Q	Register Supervision	147																		1	2	3	4								ORH					147	Q
R or S	A- Digit Translator	148																									OR	LT		24 MIN						148	R or S
		149																									OR	LT		24 MIN						149	
	A- and B- Digit Translators	150																									OR	LT		24 MIN						150	
		151																									OR	LT		24 MIN						151	
		152																									OR	LT		24 MIN						152	
		153																									OR	LT		24 MIN						153	
	Dial Pulse — 1X- or 1XX-Type Codes	154											1														OR	2DT		24 MIN						154	
		155											1														OR	2DT		24 MIN						155	
		156											1														OR	2DT		24 MIN						156	
		157											1														OR	2DT		24 MIN						157	
		158											1														OR	2DT		24 MIN						158	
		159											1														OR	2DT		24 MIN						159	
		160										9	1														OR	2DT		24 MIN		PBX*				160	
	11, 11X- and/or 11XX-Type Codes	161										1	1														OR	11		24 MIN						161	
		162										1	1														OR	11		24 MIN						162	
		163										1	1														OR	11		24 MIN						163	
		164										1	1														OR	11		24 MIN						164	
		165										1	1														OR	11		24 MIN						165	
		166										1	1														OR	11		24 MIN						166	
		167									9	1	1														OR	11		24 MIN		PBX*				167	
	TOUCH-TONE — 1X- or 1XX-; 11-, 11X- and/or 11XX-Type Codes	168											1														OR	2DT			PB					168	
		169										1	1														OR	11			PB					169	
		170									9	1	1														OR	11			PB	PBX*				170	
		171										9	1														OR	2DT			PB	PBX*				171	

* When provided.

Test Chart (Cont)

♦ TEST CHART ♦

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																										TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES								
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M											
T	Pretranslation	172																								OR	LT		24 MIN							172	T
		173																								OR	LT		24 MIN							173	
		174																								OR	LT		24 MIN							174	
		175																								OR	LT		24 MIN							175	
		176																								OR	LT		24 MIN							176	
		177																								OR	LT		24 MIN							177	
		178																								OR	LT		24 MIN							178	
	NPA Information Codes	179																								OR	LT		24 MIN							179	
		180											1	4	1	1										OR	LT1		24 MIN							180	
		181											1				4	1	1							FAC	X11		24 MIN							181	
		182											1													OR	2DT		24 MIN							182	
		183											1													OR	2DT		24 MIN							183	
		184											1													OR	2DT		24 MIN							184	
		185											1													OR	2DT		24 MIN							185	
	Dial Pulse — 1X- or 1XX-Type Codes	186											1													OR	2DT		24 MIN							186	
		187											1													OR	2DT		24 MIN							187	
		188											1													OR	2DT		24 MIN							188	
		189											1													OR	2DT		24 MIN							189	
		190											1													OR	2DT		24 MIN							190	
		191										9	1													OR	2DT		24 MIN		PBX*					191	
		192										1	1													OR	11		24 MIN							192	
		193										1	1													OR	11		24 MIN							193	
		194										1	1													OR	11		24 MIN							194	
		195										1	1													OR	11		24 MIN							195	
	11X- and/or 11XX-Type Codes	196										1	1													OR	11		24 MIN							196	
		197										1	1													OR	11		24 MIN							197	
		198										1	1													OR	11		24 MIN							198	
		199										1	1													OR	11		24 MIN							199	
		200										1	1													OR	11		24 MIN							200	
		201									9	1	1													OR	11		24 MIN		PBX*					201	

* When provided.

Test Chart (Cont)

TEST CHART

TEST	TYPE OF TEST		TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																										NO. TEST	TEST
				LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS		DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES								
				FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS			A	B	C	D	E	F	G	H	J	K	L	M									
T (Cont)	Dial Pulse	N0N-, N1N-, NN0- Type Codes	202										0													FAC	LT2		24 MIN								202	T (Cont)
			203										0													FAC	LT2		24 MIN								203	
			204										0		0											FAC	LT2		24 MIN								204	
			205										0		1											FAC	LT2		24 MIN								205	
			206										0			0										FAC	LT2		24 MIN								206	
			207										1													FAC	LT1		24 MIN								207	
			208										1		0											FAC	LT1		24 MIN								208	
			209										1		1											FAC	LT1		24 MIN								209	
			210										1			0										FAC	LT1		24 MIN								210	
			211										1													FAC	LT1		24 MIN								211	
			212										8				1	2	3	4						OR	LT3		24 MIN								212	
			213										8		0					1	2	3	4			FAC	LT3		24 MIN								213	
			214										8		1					1	2	3	4			FAC	LT3		24 MIN								214	
			215										8			0				1	2	3	4			FAC	LT3		24 MIN								215	
		11 Foreign Area Directing Code	216									1	1				1	2	3	4						OR	11		24 MIN								216	
		Vacant and Invalid Prefixed Codes	217										0													FAC	LT2		24 MIN								217	
			218										0													FAC	LT2		24 MIN								218	
			219										1													FAC	LT1		24 MIN								219	
			220										1													FAC	LT1		24 MIN								220	
			221																							OR	LT		24 MIN								221	
	TOUCH-TONE	N0N-, N1N-, NN0-, and 11 Foreign Area Directing Codes	222										0													FAC	LT2			PB							222	
			223										1													FAC	LT1			PB							223	
			224									1	1				1	2	3	4						OR	11			PB							224	
			225														1	2	3	4						OR	LT			PB							225	
			226										0													FAC	LT2			PB							226	
			227										1													FAC	LT1			PB							227	
			228										1				1	2	3	4						OR	LT			PB							228	
			229										8				1	2	3	4						OR	LT3			PB							229	

♦ TEST CHART ♦

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																												TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES									
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M											
T.1	Pretranslation (SD-27849-01 Provided)	230										0	1													FAC	FVD									230	T.1
		231									0	1	1													FAC	11									231	
		232									0	1	1													FAC	11									232	
		233									0	1	1								‡					FAC	11			STD						233	
		234									0	1	1									‡				FAC	11			STD						234	
		235									0	1	1										‡			FAC	11			STD						235	
		236									0	1	1													FAC	11									236	
		237									0	1	1													FAC	11									237	
		238									0	1	1													FAC	11									238	
		239									0	1	1													FAC	11									239	
		240									0	1	1													FAC	11									240	
		241									0	1	1													FAC	11									241	
		242									0	1	1													FAC	11									242	
		243									0	1	1													FAC	11									243	
		244									0	1	1													FAC	11									244	
		245									0	1	1													FAC	11									245	
		246									0	1	1													FAC	11									246	
U	Dial Tone and Busy or Overflow Tone	247																								*	*		15 MAX			MOTL	*				247	U
V	Dial Tone Removal	248												2															24 MIN			MOTL	TA				248	V
		249											1																24 MIN			MOTL	TA				249	
		250										1	1																24 MIN			MOTL	TA				250	
		251											9																24 MIN			MOTL	TA				251	
		252											0																24 MIN			MOTL	TA				252	

* See 1.12.
‡ End-of-dial signal, when required.

Test Chart (Cont)

♦ TEST CHART ♦

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																															TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)														CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES									
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M											
W	Dial Tone — Register Arranged for Manual Service	253																																253	W
X	Permanent Signal Timing — Coin	254																									OR	LT		7 MIN		RPS	CN	NTFS	NTTS			254	X
	(See Note 1) — Noncoin	255																									OR	LT		15 MAX		RPS		NTFS	NTTS			255	
Y	Partial Dial Timing — Coin	256												2													OR	LT				RPD	CN	NTFS	NTTS			256	Y
	Noncoin	257												2													OR	LT				RPD		NTFS	NTTS			257	
		258										0	1														FAC	FVD		24 MIN	RPD							258	
		259									0	1	1														FAC	11			PB	RPD							259	
		260										0	1														FAC	FVD			PB	RPD							260	
		261									0	1	1														FAC	11			PB	RPD							261	
		262										0	1														FAC	FVD			PB	RPD	STD						262	
		263									0	1	1														FAC	11			PB	RPD	STD						263	
Z	B- Digit Translator (See Note 2) — Dial Pulse	264															1	2	3	4							OR	LT		24 MIN									264	Z
		265											0		0		1	2	3	4							OR	LT2		24 MIN									265	
		266											1		1		1	2	3	4							OR	LT1		24 MIN									266	
		267																		1	2	3	4				FAC	LT		24 MIN									267	
		268											0		1					1	2	3	4				FAC	LT2		24 MIN									268	
		269											1		0					1	2	3	4				FAC	LT1		24 MIN									269	
		270										9	1		1					1	2	3	4				FAC	LT1		24 MIN									270	
	TOUCH-TONE	271															1	2	3	4							OR	LT				PBX*							271	
		272											0		0		1	2	3	4							OR	LT2			PB								272	
		273											1		1		1	2	3	4							OR	LT1			PB								273	
		274																		1	2	3	4				FAC	LT			PB								274	
		275											0		1					1	2	3	4				FAC	LT2			PB								275	
		276											1		0					1	2	3	4				FAC	LT1			PB								276	
		277										9	1		1					1	2	3	4				FAC	LT			PB								277	
AA	Register Timeout After Marker Seizure	278															1	2	3	4											PB	PBX*		RBT					278	AA
AB	Timing During Pretranslation	279															5																						279	AB
		280									0	1	1																				TA	NTFS	NTTS	DSS			280	
AC	Timing During Coin Test — Dial Tone First	281															1	2	3	4							OR	LT					CN	MOTL	CNTT				281	AC
AD	Common Alarm Timing	282																												24 MIN	MOTL		TA			DSS		282	AD

* When provided.

Note 1: Automatic monitor, register, and sender test circuit considerations require this test to be performed in the dial pulse mode for ***all*** registers ***including*** any which may be reserved for TOUCH-TONE calling only.

Note 2: For Test Z, refer to 1.08 and apply prefix digit as required for areas where interchangeable codes are provided.

Test Chart (Cont)

♦ TEST CHART ♦

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																													TEST NO.	TEST
			LINE LOCATION						CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES								
			FRAME NO.		VERT GR		HOR GR	VERT FILE								A	B	C	D	E	F	G	H	J	K	L	M									
			TENS	UNITS	TENS	UNITS			TENS	UNITS	TENS	UNITS																							
AE	Recyle of Timing	283																	1	2	3	4	5	6	7					RBT	TA	CN	NTFS	NTTS	DSS		283	AE
	¶ Coin	284																	1	2	3	4	5	6	7					RBT	TA		NTFS	NTTS	DSS		284	
	Noncoin	285																	0	0	0	0	0	0	0			OR	LT		7 MAX							285	
AG	Line Location, Class of Service, and Observed Call Information — Storing and Verification of Trouble Recorder Leads	286	0	0	0	0	0	0											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	286	AG
		287	1§	1§	0	1	1	1											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	287	
		288	2§	2§	0	2	2	2											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	288	
		289	3§	3§	0	3	3	3											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	289	
		290	4§	4§	0	4§	4	4											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	290	
		291	5§	5§	0	5§	5	0											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	291	
		292	0	6§	0	6§	6	1											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA	OBS	292	
		293	1§	7§	0	7§	7	2											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA		293	
		294	2§	8§	0	8§	8	3											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA		294	
		295	3§	9§	0	9§	9	4											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA		295	
		296	4§	0	1§	0	0	0											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA		296	
		297	5§	1	1§	1	1	1											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA		297	
		298	0	2§	0	2	2	2											1	2	3	4						OR	LT			CH—		NTTS	NTFS	NTC	TA		298	
AH	Start Dial Signal	299																																				299	AH
AI	Intra-PBX Call 4-Digit	300														3	2	3	4									OR	X11				PBX*						300	AI
	5-Digit	301														3	2	3	4	5								OR	FVD				PBX5*						301	
AJ	11X Special Codes — Originating Register Arranged for Centrex Service Only	302												1	1													OR	LT				PBX*						302	AJ
		303												1	1													OR	11				PBX*						303	
AK	Dial Zero Calls for Centrex Service	304														0												OR	X11				PBX*						304	AK
		305														0												OR	FVD				PBX5*						305	
AL	1XX Special Codes for Centrex Service	306													1													OR	2DT				PBX*						306	AL
		307													1													OR	2DT				PBX*						307	
		308													1													OR	2DT				PBX*						308	
		309													1													OR	2DT				PBX*						309	
		310													1													OR	2DT				PBX*						310	
		311													1													OR	2DT				PBX*						311	
		312													1													OR	2DT				PBX*						312	

* When provided
‡ If not equipped, use 0.
¶ Office code used must be for SOG call.

Note 1: Automatic monitor, register, and sender test circuit considerations require this test to be performed in the dial pulse mode for ***all*** registers ***including*** any which may be reserved for TOUCH-TONE calling only.

Note 2: For Test Z, refer to 1.08 and apply prefix digit as required for areas where interchangeable codes are provided.

Test Chart (Cont) ♦

TEST CHART

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																												TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)		PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES						
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M			FCA	FCB								
AL (Cont)		313											1													OR	2DT					PBX*				313	AL (Cont)
		314											1													OR	2DT					PBX*				314	
		315											1													OR	2DT					PBX*				315	
AM	CCSA Call — Prefix Digit 8 Dial Pulse	316											8				1	2	3	4						OR	LT3			24 MIN		PBX*				316	AM
		317											8							1	2	3	4			FAC	LT3			24 MIN		PBX*				317	
		318											*AC8				1	2	3	4						OR	LT3			24 MIN						318	
		319											*AC8							1	2	3	4			FAC	LT3			24 MIN						319	
	TOUCH-TONE	320											8				1	2	3	4						OR	LT3				PB	PBX*				320	
		321											8							1	2	3	4			FAC	LT3				PB	PBX*				321	
		322											*AC8				1	2	3	4						OR	LT3				PB					322	
		323											*AC8							1	2	3	4			FAC	LT3				PB					323	
AN	CCSA Call — Digit 1 Dial Pulse	324											811				1	2	3	4						OR	LT3			24 MIN		PBX*				324	AN
	Absorption After Prefix Digit 8 TOUCH-TONE	325											811				1	2	3	4						OR	LT3				PB	PBX*				325	
AO	Slow Test	326															1	3	5	7						OR	LT				PB		SLO			326	AO
		327																		1	3	5	7			FAC	LT				PB		SLO			327	
		328											9				1	3	5	7						OR	LT				PB	PBX*	SLO			328	
		329											9							1	3	5	7			FAC	LT				PB	PBX*	SLO			329	
AP	High Level Test	330															1	3	5	7						OR	LT				PB			HLV		330	AP
		331															1	3	5	7						OR	LT				PB		SLO	HLV		331	
		332											9				1	3	5	7						OR	LT				PB	PBX*		HLV		332	
		333											9				1	3	5	7						OR	LT				PB	PBX*	SLO	HLV		333	
AQ	Low Level Test	334															1	3	5	7						OR	LT				PB			LLV		334	AQ
		335											9				1	3	5	7						OR	LT				PB	PBX*		LLV		335	
AR	High Frequency Test	336															1	3	5	7						OR	LT		MXF		PB			LLV		336	AR
		337											9				1	3	5	7						OR	LT		MXF		PB	PBX*		LLV		337	
AS	Low Frequency Test	338															1	3	5	7						OR	LT		MNF		PB			LLV		338	AS
		339											9				1	3	5	7						OR	LT		MNF		PB	PBX*		LLV		339	
AT	Single Frequency Test	340															1	3	5	7						OR	LT	1	SFH		PB					340	AT
		341															1	3	5	7						OR	LT	2	SFH		PB					341	
		342															1	3	5	7						OR	LT	3	SFH		PB					342	
		343															1	3	5	7						OR	LT	4	SFH		PB					343	

* When provided.

Test Chart (Cont)

♦ TEST CHART ♦

TEST	TYPE OF TEST	TEST NO.	MASTER TEST FRAME PRIMING INFORMATION																													TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS — CODE(S) AND NUMBER (CALLED NUMBER)												CLASS OF CALL	TRANSLATOR INDICATION	FREQ CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEYS AND/OR SWITCHES									
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M									
AT (Cont)		344															1	3	5	7						OR	LT	1 SFL		PB							344	AT (Cont)
		345															1	3	5	7						OR	LT	2 SFL		PB							345	
		346															1	3	5	7						OR	LT	3 SFL		PB							346	
		347															1	3	5	7						OR	LT	4 SFL		PB							347	
AU	Special 3-Frequency Test	348															1	3	5	7						OR	LT	1 3FS		PB							348	AU
		349															1	3	5	7						OR	LT	2 3FS		PB							349	
		350															1	3	5	7						OR	LT	3 3FS		PB							350	
		351															1	3	5	7						OR	LT	4 3FS		PB							351	
AV	Long Pulse Test	352															1	3	5	7						OR	LT			PB	LGP						352	AV
AV.1	Unused Frequency Combinations	353												3												OR	LT			PB	SDC	SSLB	MOTL				353	AV.1
		354												3												OR	LT			PB	SDC	SSRB	MOTL				354	
AW	Toll Diversion	355															1	3	5	7						OR	LT					TDA					355	AW
		356																		1	3	5	7			FAC	LT1		7 Min			TD					356	
AX	Range Extension for Unigauge Cabling — Dial Pulse	357															1	3	5	7						OR	LT		24 MIN			NTC	LOLPT				357	AX
		358															1	3	5	7						OR	LT		24 MIN			NTC	LOLPT				358	
	TOUCH-TONE	359															1	3	5	7						OR	LT			PB		NTC	LOLPT				359	
		360															1	3	5	7						OR	LT			PB		NTC	LOLPT				360	
AY	C- Digit Translator	361														0	4	1	1							FAC	X11										361	AY
		362														0				1	3	5	7			FAC	LT										362	
	Interchangeable and/or NPA-411 Information Codes	363															4	1	1	2						OR	LT**										363	AZ
		364															4	1	1							FAC	X11**										364	
		365																		1	3	5	7			FAC	LT**										365	
		366															1	3	5	7						OR	LT**			STD							366	
BA	Coin Operation — Coin First — Ground Start — Dial Pulse	367															1	3	6	0						OR	LT		15 MIN			CN					367	BA
		368															1	3	6	0						OR	LT		15 MIN			CN					368	
	TOUCH-TONE	369															1	3	5	7						OR	LT			PB		CN					369	
		370															1	3	5	7						OR	LT			PB		CN					370	
	Coin First — Loop Start — Dial Pulse	371															1	3	6	0						OR	LT		15 MIN			CN					371	
		372															1	3	6	0						OR	LT		15 MIN			CN					372	
	TOUCH-TONE	373															1	3	5	7						OR	LT			PB		CN					373	
		374															1	3	5	7						OR	LT			PB		CN					374	

** Depending on prefix digit used (refer to 1.09).

♦ TEST CHART ♦

TEST	TEST TITLE	TEST NO.	MTF PRIMING INFORMATION																														TEST NO.	TEST
			LINE LOCATION				CLASS OF SERVICE		RATE TREAT.		PREFIX DIGITS			DIGITS – CODES AND NUMBER (CALLED NUMBER)										CLASS OF CALL	TRANSLATOR INDICATOR	FREQ. CONT ("TOUCH-TONE" CALLING)	PULSING CONT (DP CALLING)	MISCELLANEOUS KEY AND/OR SWITCHES									
			FRAME NO.	VERT GR	HOR GR	VERT FILE	TENS	UNITS	TENS	UNITS				A	B	C	D	E	F	G	H	J	K	L	M										
BA (Cont)	Coin Service Improvement (Dial-Tone-First) — Dial Pulse	375															1	3	5	7						OR	LT		15 MIN			CN	CND			375	BA (Cont)
		376															1	3	5	7						OR	LT		15 MIN			CN	CND			376	
		377															1	3	5	7						OR	LT		15 MIN			CN	NCND			377	
		378															1	3	5	7						OR	LT		15 MIN			CN	NCND			378	
	Coin Service Improvement (Dial-Tone-First) — TOUCH-TONE	379															1	3	6	0						OR	LT			PB		CN	CND			379	
		380															1	3	6	0						OR	LT			PB		CN	CND			380	
		381															1	3	6	0						OR	LT			PB		CN	NCND			381	
		382															1	3	6	0						OR	LT			PB		CN	NCND			382	
BB	Wideband Service	383															1	3	5	7						OR	LT			PB						383	BB
		384															1	3	5	7						OR	LT			PB	SSR	BP1				384	
		385													6											OR	LT			PB	SDC	SSRB	MOTL			385	
		386													6											OR	LT			PB	SDC	SSLB	MOTL			386	
BC	Wideband-Access Digit to Right of 0 Key	387															1	3	5	7						OR	LT			PB	PP					387	BC
BD	Wideband-Centrex Access to the Wideband Network	388											9				1	3	5	7						OR	LT			PB	PP					388	BD
BE	OR to CM Leads Test with AMRST	389											9	9	9	9	1	2	3	4						OR	LT		24 MIN			PBX†	CHO† – CH9			389	BE
	OR to CM Leads Test w/o AMRST	390											9	9	9	9	1	2	3	4						OR	LT		24 MIN			PBX†	CHO† – CH9			390	
	OR to CM Leads Test – Obs. Call DP	391											9	9	9	9	1	2	3	4						OR	LT		24 MIN	NTC	OBS	PBX†	CHO† – CH9			391	
	OR to CM Leads Test – Non Obs. Call	392											9	9	9	9	1	2	3	4						OR	LT		24 MIN	NTC		PBX†	CHO† – CH9			392	
	OR to CM Leads Test – 10 Digit Call	393											8	9	9	9	1	2	3	1	2	3	4			FAC	LT		24 MIN			PBX†	CHO† – CH9			393	
	OR to CM Leads Test – 7 Digit Call	394											9	9	9	9	1	2	3	4						OR	LT			PB		PBX†	CHO† – CH9			394	
	OR to CM Leads Test – With AMRST	395											8	9	9	9	1	2	3	4						OR	LT			PB		PBX†	CHO† – CH9			395	
	OR to CM Leads Test – w/o AMRST TT	396											8	9	9	9	1	2	3	4						OR	LT			PB		PBX†	CHO† – CH9			396	
	OR to CM Leads Test – Obs. Call	397											8	9	9	9	1	2	3	4						OR	LT			PB	NTC OBS	PBX†	CHO† – CH9			397	
	OR to CM Leads Test – Non Obs. Call	398											8	9	9	9	1	2	3	4						OR	LT			PB	NTC	PBX†	CHO† – CH9			398	
	OR to CM Leads Test – 10 Digit Call	399											8	9	9	9	1	2	3	1	2	3	4			FAC	LT			PB		PBX†	CHO† – CH9			399	
BF	Digit 8 Access Call to Enhanced Private Switched Communications Systems (EPSCS) No. 1 ESS	400											AC8													OR	LT3		24 MIN		EPS					400	BF
		401											AC8													OR	LT3			PB	EPS					401	

* Depending on prefix digit used (refer to paragraph 1.09)
† When provided
‡ Change channel (0-9) key or sw, to test all LL0, 1, 2, 4 and 7 leads