COIN SUPERVISORY AND COIN SUPERVISORY CONCENTRATING CIRCUITS TESTS USING TRUNK TEST CIRCUIT SD-25918-01 NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section contains methods for testing the coin supervisory circuit SD-25736-01, and coin supervisory concentrating circuit SD-25721-01, using trunk test circuit SD-25918-01 in a No. 5 crossbar office using the master test frame.

1.02 The reasons for reissue are as follows:

(a) To change 1.01 to include SD-numbers for circuits involved.

(b) To make references throughout the section to Electronic Translation System (ETS).

(c) To add paragraphs 1.14 through 1.16.

(d) To make minor changes in text.

Revision arrows are used to emphasize the more significant changes. This reissue does not affect the Equipment Test Lists.

1.03 The tests covered are:

1.04 When the test intraoffice trunk (IAO) is not provided, all tests except L are made with the trunks made busy which have appearances in the same horizontal group of the coin supervisory link frame as the intraoffice trunk selected for the test.

1.05 Tests J and K are made with all coin supervisory concentrating circuits made busy except the circuit being tested.

1.06 Actions and verifications are required at the following locations:

(a) When the test IAO trunk is not provided, all tests except Test L require actions and verifications at the master test frame (MTF) and at the coin supervisory link frame.

(b) Tests H, I, and K require actions and verifications at the MTF, coin supervisory link frame, and coin supervisory circuit key and lamp panel.

(c) Tests C, D, F, G, J, K, and M require assistance from the switchboard.

(d) Test M requires action at the voice alarm and control circuit.

1.07 In offices equipped with coin supervisory concentrating circuits, Test C may be omitted if Test J is performed.

1.08 In Tests E, F, G, H, and M, space is provided to enter the number of minutes which must elapse between the operation of the ANS key and subsequent actions when the test IAO trunk is not provided. In all cases, this interval is either the ***initial timing period,*** or the ***initial timing period less thirty seconds,*** as established for the local area.

1.09 When the test IAO trunk is provided, failure of the CSI lamp to light indicates that the selected coin supervisory circuit is service- busy and not available for testing.

1.10 Local instructions should be followed with reference to any register operations caused by performing these tests.

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 a 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 When the office is arranged for ETS, the distributors and scanner associated with the marker and trunk used in the test call must be in service or in a ***maintenance-busy condition—not in an out-of-service*** condition. To change a scanner or distributor from an ***out-of-service*** to a ***maintenance-busy*** condition, use the procedure given in the following section for the office arrangement.

218-799-701—Taking ETS Equipment Out-of-Service.

1.15 When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk scanning to be repeated on the FT lamp at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, scanning will continue to be repeated on the lamp, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command ***STOP:TRK TST*** is entered at the maintenance TTY.

1.16 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, DT, ORIG, ITDO, ITNP, OGT, INC, OR, SDR, IR, MISC, IAO, MLV, LT, IMS, PTT, TVT, ATNT, and IMT.

2. APPARATUS

All Tests Except L

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

2.02 MTF trunk test circuit, SD-25918-01.

2.03 MTF telephone, key, and lamp circuit, SD-25744-01.

2.04 MTF miscellaneous circuit, SD-25748-01.

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

All Tests Except H

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

Tests E Through I, K, L, and M

2.07 KS-3008 stopwatch or equivalent.

Test L

2.08 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one 365 (connecting clip) tool, and one 419A (test connector) tool (for connecting ground to relay spring).

Tests M

2.09 Voice alarm and control circuit SD-27980-01 (when 7A announcement machine is provided).

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests Except L		
	Note: Refer to 1.12 and 1.13.	
1a	If test IAO trunk is not provided— Determine from office records an IAO trunk arranged for coin service which has access to the coin supervisory circuit under test.	
2a	At coin supervisory link frame— Determine which trunks have appearances in the same horizontal group as the trunk selected in Step 1a.	
3a	At relay rack or OGT bay (as required)— Make busy all trunks in the horizontal group.	
4b	If test IAO trunk is provided— Determine from office records the test IAO trunk having access to the coin supervisory circuit under test.	
5b	At MTF— Insert make-busy plug into MB_ jack associated with selected test IAO trunk.	MB lamp associated with test IAO trunk lighted when trunk is available for use in testing.
6b	Set CSS_ switch to select first coin supervisory circuit in group.	
7	Select completing marker.	
8	Select originating class of call and associated translator indication.	
9	Select coin class of service and rate treatment as required.	
10	Select IAO class of test.	
11	Select route advance 0.	
12	Select ringing combination 1.	
13	Select A_, B_, C_ digits as required to route call to IAO trunk.	
14	Select trunk location of IAO trunk to be used for testing (Step 1a or 2a).	

STEP	ACTION	VERIFICATION
15	Operate GPA/GPB key when IAO trunk is in an allotted group.	
16	Operate NTFS, NTTS, TTL keys.	
17c	▶If ETS provided— Operate PCS, PTS keys.◀	
All Tests Except H and L		
18d	If test IAO trunk is not provided and coin supervisory link circuit is nonwire-spring-relay type— At coin supervisory link frame— Block operated all RB_ relays in same horizontal group as selected trunk, except RB0.	
19e	If test IAO trunk is not provided and coin supervisory link circuit is wire-spring-relay type— At coin supervisory link frame— Block operated all SB_ relays in the same horizontal group as selected trunk, except SB0.	
Tests A Through F and J		
20f	If coin service improvement (dial-tone-first) is provided— At MTF— Operate DTNF key.	

4. METHOD

STEP	ACTION	VERIFICATION
A. Coin Collect		
21	Operate TLK, CN keys.	
22	Momentarily operate ST key.	▶***If ETS provided—*** FT lamp lighted.◀ AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Operate ANS key.	R- lamp extinguished. High tone heard. ***If test IAO trunk and overtime coin timing are provided—*** In 2 to 20 seconds—

STEP	ACTION	VERIFICATION
		CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk, overtime coin timing, and coin service improvement (dial-tone-first) are provided—*** In 2 to 20 seconds— CC, PK, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light. ***If test IAO trunk and coin service improvement (dial tone first) are provided—*** ***Without overtime coin timing—*** In 2 to 20 seconds— CC, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light.
24g	If test IAO trunk and overtime coin timing are provided— Momentarily restore CN key.	CND lamp extinguished. After 15 seconds— High tone momentarily silenced. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp momentarily lighted. OLF lamp ***does not*** light.
25	Restore TLK, ANS keys.	High tone silenced. CC lamp momentarily lighted. CND lamp lighted. ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted. OLF lamp ***does not*** light. AS, TS lamps extinguished.
26	Restore CN key.	CND lamp extinguished.
27	Momentarily operate RL key.	All lamps extinguished.
28a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
29a	Remove blocking tool from next RB_ or SB_ relay.	
30b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	

STEP	ACTION	VERIFICATION
31	Repeat Steps 21 through 30b until all coin supervisory circuits in the group are tested.	
32a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
33a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
34b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
35	Restore all keys and switches not required in next test.	
B. Coin Return		
21	Operate TLK, CN keys.	
22	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Restore TLK key.	CR lamp momentarily lighted. CND lamp lighted. AS, TS, R- lamps extinguished. ***If coin service improvement (dial tone first) is provided—*** CPT lamp momentarily lighted. OLF lamp ***does not*** light.
24	Restore CN key.	CND lamp extinguished.
25	Momentarily operate RL key.	All lamps extinguished.
26a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
27a	Remove blocking tool from next RB_ or SB_ relay.	
28b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	

STEP	ACTION	VERIFICATION
29	Repeat Steps 21 through 28b until all coin supervisory circuits in the group are tested.	
30a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
31a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
32b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
33	Restore all keys and switches not required in next test.	

C. Stuck Coin—Return

Note: Refer to 1.07.

21	Operate TLK, STK CN keys.	
22	Momentarily operate ST key.	AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.) ***If ETS provided—*** FT lamp lighted.
23	Restore TLK key.	CND lamp lighted. TS, R- lamps extinguished. ***If stuck coin recycle is not provided—*** CR lamp momentarily lighted. ***If stuck coin recycle is not provided and coin service improvement (dial-tone-first) is provided—*** CR lamp momentarily lighted. CPT lamp momentarily lighted twice. OLF lamp ***does not*** light. ***If stuck coin recycle is provided—*** CR lamp momentarily lighted twice. ***If stuck coin recycle and coin service improvement (dial-tone-first) are provided—*** CR lamp momentarily lighted twice. CPT lamp momentarily lighted four times. OLF lamp ***does not*** light.
24	Restore STK CN key.	CND lamp extinguished.

STEP	ACTION	VERIFICATION
25	Operate TLK key.	At operator position— SC lamp lighted.
26	When operator answers— Advise operator that this is a test call.	At operator position— Off-hook condition indicated. ***If coin service improvement (dial-tone-first) is provided—*** At MTF— PK lamp lighted.
27	Momentarily restore TLK key several times.	At operator position— On-hook condition indicated while TLK key is restored. ***If coin service improvement (dial-tone-first) is provided—*** At MTF— PK lamp extinguished while TLK key is restored.
28g	If coin supervisory circuits are not arranged for coin disposal following stuck coin release— Request operator to disconnect.	
29g	Restore TLK key.	AS lamp extinguished. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished.
30h	If coin supervisory circuits are arranged for coin disposal following stuck coin release— Operate CN key.	
31h	Request operator to disconnect.	CR lamp momentarily lighted. CND lamp lighted. AS lamp extinguished. ***If coin service improvement (dial-tone- first) is provided—*** CPT lamp momentarily lighted. PK lamp extinguished. OLF lamp ***does not*** light.
32h	Restore TLK, CN keys.	CND lamp extinguished.
33	Momentarily operate RL key.	All lamps extinguished.
34a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
35a	Remove blocking tool from next RB_ or SB_ relay.	

STEP	ACTION	VERIFICATION
36b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	
37	Repeat Steps 21 through 36b until all coin supervisory circuits in the group are tested.	
38a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
39a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
40b	If test IAO is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
41	Restore all keys and switches not required in next test.	
D. Stuck Coin—Collect		
21	Operate TLK, STK CN keys.	
22	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Operate ANS key; ***start timing.***	R- lamp extinguished. High tone heard. ***If test IAO trunk and overtime coin timing are provided—*** In 2 to 20 seconds— CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk, overtime coin timing, and coin service improvement (dial-tone-first) are provided—*** In 2 to 20 seconds— CC, PK, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light. ***If test IAO trunk, and coin service improvement (dial-tone-first) are provided—*** ***Without overtime coin timing—***

STEP	ACTION	VERIFICATION
		In 2 to 20 seconds— CC, CPT lamps momentarily lighted. CND lamp lighted.
24g	If test IAO trunk and overtime coin timing are provided— Momentarily restore STK CN key.	CND lamp extinguished. After 15 seconds— High tone momentarily silenced. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp momentarily lighted. OLF lamp ***does not*** light.
25	Restore TLK, ANS keys.	TS lamp extinguished. High tone silenced. CND lamp lighted. ***If stuck coin recycle is not provided—*** CC lamp momentarily lighted. ***If stuck coin recycle is not provided and coin service improvement (dial-tone-first) is provided—*** CC lamp momentarily lighted. CPT lamp momentarily lighted twice. OLF lamp ***does not*** light. ***If stuck coin recycle is provided—*** CC lamp momentarily lighted twice. ***If stuck coin recycle and coin service improvement (dial-tone-first) are provided—*** CC lamp momentarily lighted twice. CPT lamp momentarily lighted four times. OLF lamp ***does not*** light.
26	Restore STK CN key.	CND lamp extinguished.
27	Operate TLK key.	At operator position— SC lamp flashes.
28	When operator answers— Advise operator that this is a test call.	***If coin service improvement (dial-tone-first) is provided—*** At MTF— PK lamp lighted.
29h	If coin supervisory circuits are not arranged for coin disposal following stuck coin release— Request operator to disconnect.	
30h	At MTF— Restore TLK key.	AS lamp extinguished. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished.

STEP	ACTION	VERIFICATION
31i	If coin supervisory circuits are arranged for coin disposal following stuck coin release— At MTF— Operate CN key.	
32i	Request operator to disconnect.	CC lamp momentarily lighted. CND lamp lighted. ◗AS lamp extinguished.◖ ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted. PK lamp extinguished. OLF lamp ***does not*** light.
33i	Restore TLK, CN keys.	CND lamp extinguished.
34	Momentarily operate RL key.	All lamps extinguished.
35a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
36a	Remove blocking tool from next RB_ or SB_ relay.	
37b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the ground.	
38	Repeat Steps 21 through 37b until all coin supervisory circuits in the group are tested.	
39a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
40a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
41b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
42	Restore all keys and switches not required in next test.	

E. Check for Overtime Deposit—Coin in Box

21	Operate TLK, CN keys.	

STEP	ACTION	VERIFICATION
22	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Operate ANS key; ***start timing.***	R- lamp extinguished. High tone heard. ***If test IAO trunk is not provided—*** 30 seconds before end of initial timing period. ( ) minutes— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk is not provided and coin service improvement (dial-tone-first) is provided—*** 30 seconds before end of initial timing period, ( ) minutes— Low tone heard for 1/2 second. PK, CC, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp does not light. ***If test IAO trunk is provided—*** In 2 to 20 seconds— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk and coin service improvement (dial-tone-first) are provided—*** In 2 to 20 seconds— Low tone heard for 1/2 second. PK, CPT, CC lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light.
24g	If coin service improvement (dial-tone-first) is not provided— Momentarily restore CN key.	CND lamp extinguished.
25h	If coin service improvement (dial-tone-first) is provided— Restore CN key.	CND lamp extinguished.
26h	Restore DTNF key.	
27h	Operate OTCN key.	
28a	If test IAO trunk is not provided— At end of initial timing period, ( ) minutes—	***If coin service improvement (dial-tone-first) is provided—***

STEP	ACTION	VERIFICATION
	Verify that high tone is momentarily interrupted.	PK, LPK, CPT lamps momentarily lighted. OLF lamp ***does not*** light.
29a	If test IAO trunk is provided— After 15 seconds— Verify that high tone is momentarily interrupted.	***If coin service improvement (dial-tone-first) is provided—*** PK, LPK, CPT lamps momentarily lighted. OLF lamp ***does not*** light.
30	Listen for 30 seconds.	Operator does not answer.
31h	If coin service improvement (dial-tone-first) is provided— Restore OTCN key.	
32h	Operate DTNF key.	
33h	Operate CN key.	
34	Restore TLK, ANS keys.	AS, TS lamps extinguished. CC lamp momentarily extinguished. CND lamp lighted. ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted. OLF lamp ***does not*** light.
35	Restore CN key.	CND lamp extinguished.
36	Momentarily operate RL key.	All lamps extinguished.
37a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
38a	Remove blocking tool from next RB_ or SB_ relay.	
39b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	
40	Repeat Steps 21 through 39b until all coin supervisory circuits in the group are tested.	
41a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
42a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	

STEP	ACTION	VERIFICATION
22	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Operate ANS key; ***start timing.***	R- lamp extinguished. High tone heard. ***If test IAO trunk is not provided—*** 30 seconds before end of initial timing period. ( ) minutes— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk is not provided and coin service improvement (dial-tone-first) is provided—*** 30 seconds before end of initial timing period, ( ) minutes— Low tone heard for 1/2 second. PK, CC, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp does not light. ***If test IAO trunk is provided—*** In 2 to 20 seconds— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk and coin service improvement (dial-tone-first) are provided—*** In 2 to 20 seconds— Low tone heard for 1/2 second. PK, CPT, CC lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light.
24g	If coin service improvement (dial-tone-first) is not provided— Momentarily restore CN key.	CND lamp extinguished.
25h	If coin service improvement (dial-tone-first) is provided— Restore CN key.	CND lamp extinguished.
26h	Restore DTNF key.	
27h	Operate OTCN key.	
28a	If test IAO trunk is not provided— At end of initial timing period, ( ) minutes—	***If coin service improvement (dial-tone-first) is provided—***

STEP	ACTION	VERIFICATION
	Verify that high tone is momentarily interrupted.	PK, LPK, CPT lamps momentarily lighted. OLF lamp ***does not*** light.
29a	If test IAO trunk is provided— After 15 seconds— Verify that high tone is momentarily interrupted.	***If coin service improvement (dial-tone-first) is provided—*** PK, LPK, CPT lamps momentarily lighted. OLF lamp ***does not*** light.
30	Listen for 30 seconds.	Operator does not answer.
31h	If coin service improvement (dial-tone-first) is provided— Restore OTCN key.	
32h	Operate DTNF key.	
33h	Operate CN key.	
34	Restore TLK, ANS keys.	AS, TS lamps extinguished. CC lamp momentarily extinguished. CND lamp lighted. ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted. OLF lamp ***does not*** light.
35	Restore CN key.	CND lamp extinguished.
36	Momentarily operate RL key.	All lamps extinguished.
37a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
38a	Remove blocking tool from next RB_ or SB_ relay.	
39b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	
40	Repeat Steps 21 through 39b until all coin supervisory circuits in the group are tested.	
41a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
42a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	

STEP	ACTION	VERIFICATION
43b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
44	Restore all keys and switches not required in next test.	

F. Check for Overtime Deposit—No Coin in Box

Note: Refer to 1.08.

21	At MTF— Operate TLK, CN keys.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Operate ANS key; ***start timing.***	R- lamp extinguished. High tone heard. ***If test IAO trunk is not provided—*** 30 seconds before end of initial timing period, ( ) minutes— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk is not provided and coin service improvement (dial-tone-first) is provided—*** 30 seconds before end of initial timing period, ( ) minutes— Low tone heard for 1/2 second. CC, PK, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light. ***If test IAO trunk is provided—*** In 2 to 20 seconds— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk and coin service improvement (dial-tone-first) are provided—*** Low tone heard for 1/2 second. CC, PK, CPT lamps momentarily lighted. CND lamp lighted. OLF lamp ***does not*** light.
24	Restore CN key.	CND lamp extinguished. ***If test IAO trunk is not provided—*** At end of initial timing period, ( ) minutes—

STEP	ACTION	VERIFICATION
		At operator position— OM lamp lighted. Operator requests deposit of coin. ***If test IAO trunk is not provided and coin service improvement (dial-tone-first) is provided—*** At end of initial timing period, ( ) minutes— At MTF— PK lamp momentarily lighted. At operator position— OM lamp lighted. Operator requests deposit of coin. At MTF— PK lamp lighted. ***If test IAO trunk is not provided and overtime announcement is provided—*** At end of initial timing period, ( ) minutes— One full cycle of announcement heard. In 25 seconds— At operator position— OM lamp flashes at 60 or 120 IPM depending on local options. Operator requests deposit of coin. ***If test IAO trunk is not provided and overtime announcement and coin service improvement (dial-tone-first) are provided—*** At end of initial timing period, ( ) minutes— At MTF— PK lamp momentarily lighted. One full cycle of announcement heard. In 25 seconds— PK lamp momentarily lighted. At operator position— OM lamp flashes at 60 or 120 IPM depending on local options. Operator requests deposit of coin. At MTF— PK lamp lighted steadily. ***If test IAO trunk is provided—*** After 15 seconds— At operator position— OM lamp lighted. Operator requests deposit of coin. ***If test IAO trunk and coin service improvement (dial-tone-first) are provided—*** After 15 seconds— At MTF— PK lamp momentarily lighted. At operator position— OM lamp lighted.

STEP	ACTION	VERIFICATION
		Operator requests deposit of coin. At MTF— PK lamp lighted. ***If test IAO trunk and overtime announcement are provided—*** After 15 seconds— One full cycle of announcement heard. In 25 seconds— At operator position— OM lamp flashes at 60 or 120 IPM depending on local options. Operator requests deposit of coin. ***If test IAO trunk, overtime announcement, and coin service improvement (dial-tone-first) are provided—*** After 15 seconds— At MTF— PK lamp momentarily lighted. One full cycle of announcement heard. In 25 seconds— PK lamp momentarily lighted. At operator position— OM lamp flashes at 60 or 120 IPM depending on local option. Operator requests deposit of coin. At MTF— PK lamp lighted steadily.
25	Advise operator that this is a test call.	
26	Request operator to disconnect for 10 seconds.	At operator position— OM lamp flashes. At MTF— Steady tone heard. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished while operator is disconnected.
27	Request operator to place a spare cord in SP_ jack associated with coin supervisory circuit.	Steady tone silenced.
28	At MTF— Operate CN key.	
29	Request operator to collect coin.	CC lamp momentarily lighted. CND lamp lighted. ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted.

STEP	ACTION	VERIFICATION
		OLF lamp ***does not*** light. At operator position— Coin present indication received.
30	Restore CN key.	CND lamp extinguished.
31	Request operator to ring back; then restore TLK, ANS keys.	***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished. When operator rings back— R- lamp flashes.
32	Operate TLK key.	R- lamp extinguished. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp lighted.
33	Operate CN key.	
34	Request operator to return coin.	At MTF— CR lamp momentarily lighted. CND lamp lighted. ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted. OLF lamp ***does not*** light. At operator position— Coin present indication received.
35	At MTF— Restore CN key.	CND lamp extinguished.
36	Request operator to disconnect at on-hook indication.	
37	Restore TLK key.	AS, TS lamps extinguished. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished.
38	Momentarily operate RL key.	All lamps extinguished.
39a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
40a	Remove blocking tool from next RB_ or SB_ relay.	
41b	If test IAO trunk is provided— At MTF—	

STEP	ACTION	VERIFICATION
	Set CSS_ switch to select next coin supervisory circuit in the group.	
34	Repeat Steps 20 through 33b until all coin supervisory circuits in the group are tested.	
35a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
36a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
37b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
38	Restore all keys and switches not required in next test.	

H. Load Control Feature

Note: Refer to 1.08.

18	At coin supervisory circuit key and lamp panel— Set MB switches to ON for all coin supervisory circuits.	Minor alarm sounds. White aisle pilot lamp lighted. At jack, lamp, and key circuit— CS-AB lamp lighted.
	Caution: Restore coin supervisory circuits to service as soon as possible after alarm sounds to minimize possibility of service interference.	
19	At coin supervisory release circuit— Block SR relay operated.	
20	At coin supervisory circuit key and lamp panel— Restore all MB switches set in Step 18 to OFF.	
21	At MTF— Operate CN, TLK keys.	
22	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)

STEP	ACTION	VERIFICATION
23	Restore CN key.	
24	Operate ANS key; start timing.	R- lamp extinguished. ***If test IAO trunk is provided—*** In 2 to 20 seconds— Low tone heard for short interval. ***If test IAO trunk is not provided—*** Approximately 30 seconds before end of initial timing period, (___) minutes— Low tone heard for short interval.
25	Listen for 1 1/2 minutes.	Operator does not answer.
26	At coin supervisory release circuit— Remove blocking tool from SR relay.	
27	At MTF— Momentarily operate CS-AR key.	Minor alarm silenced. White aisle pilot lamp extinguished. At MTF— CS-AB lamp extinguished. CS-CT lamp lighted.
28	Restore TLK, ANS keys.	AS, TS lamps extinguished.
29	Momentarily operate RL key.	All lamps extinguished.
30d	If other coin supervisory circuits are to be tested— When CS-CT lamp is extinguished— Repeat Steps 18 through 29.	
31a	If test IAO trunk is not provided— At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
32b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
33	Restore all keys and switches not required in next test.	

I. Coin Supervisory Alarm and Hold Features

Link Alarms

20	At coin supervisory circuit— Insulate 2B of LA relay.	
21	At MTF— Operate TLK, CN keys.	

STEP	ACTION	VERIFICATION
22	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
23	Restore TLK key.	TS, R- lamps extinguished. In 1/2 second— Major alarm sounds. Red aisle pilot lamp lighted. At coin supervisory key and lamp panel— AL lamp lighted. ***If alarm control for coin supervisory circuits is also provided at MTF jack, lamp, and key circuit—*** At MTF— CS-AL lamp lighted.
24	At coin supervisory circuit— Remove insulator from LA relay.	***If test IAO trunk is not provided—*** ON relay nonoperated. At MTF— AS lamp extinguished.
25b	If test IAO trunk is provided— At coin supervisory circuit— Momentarily release TST relay.	ON relay nonoperated. At MTF— AS lamp extinguished.
26	Momentarily operate AR key at coin supervisory circuit key and lamp panel or CS-AR key at MTF jack, lamp, and key circuit (when provided).	Major alarm silenced. Red aisle pilot lamp extinguished. At coin supervisory key and lamp panel— AL lamp extinguished. ***If alarm control for coin supervisory circuits is also provided at MTF jack, lamp, and key circuit—*** At MTF— CS-AL lamp extinguished.
27	Momentarily operate RL key.	All lamps extinguished.
28	At coin supervisory circuit— Insulate 3T of H relay.	
29	At MTF— Operate TLK key.	
30	Momentarily operate ST key.	Same as Step 22.
31	Restore TLK key.	Same as Step 23.
32	At coin supervisory circuit— Remove insulator from H relay.	Same as Step 24.

STEP	ACTION	VERIFICATION
33	Repeat Steps 25b, 26, and 27.	
34	At coin supervisory circuit— Block nonoperated DCK relay.	
35	At MTF— Operate TLK key.	
36	Momentarily operate ST key.	Same as Step 22.
37	Restore TLK key.	Same as Step 23.
38	At coin supervisory circuit— Remove blocking tool from DCK relay.	Same as Step 24.
39	Repeat Steps 25b, 26, and 27.	
40	At coin supervisory circuit— Block nonoperated CR relay.	
41	At MTF— Operate TLK key.	
42	Momentarily operate ST key.	Same as Step 22.
43	Restore TLK key.	Same as Step 23.
44	At coin supervisory circuit— Remove blocking tool from CR relay.	Same as Step 24.
45	Repeat Steps 25b, 26, and 27.	
46	Restore CN key.	

Time Alarm

47e	If stuck coin recycle is not provided and coin supervisory concentrating circuits are provided— At coin supervisory circuit— Insulate 5B of OW relay.	
48f	If stuck coin recycle and coin supervisory concentrating circuits are provided— At coin supervisory circuit— Insulate 4M of OW1 relay.	
49g	If coin supervisory concentrating circuits are not provided— At coin supervisory circuit— Insulate 8B of TM1 relay.	

STEP	ACTION	VERIFICATION
50	At MTF— Operate STK CN, TLK keys.	
51	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09).
52	Restore TLK key; ***start timing.***	TS, R- lamps extinguished. Operator does not answer. ***If circuit is arranged for TA tube timing—*** In 20 to 35 seconds— AS lamp extinguished. Major alarm sounds. Red aisle pilot lamp lighted. At coin supervisory key and lamp panel— AL lamp lighted. At MTF— CS-AL lamp lighted, when provided. At coin supervisory circuit— ON relay nonoperated. ***If circuit is arranged for A relay timing—*** In 2 to 4.1 minutes— AS lamp extinguished. Major alarm sounds. Red aisle pilot lamp lighted. At coin supervisory key and lamp panel— AL lamp lighted. At MTF— CS-AL lamp lighted, when provided. At coin supervisory circuit— ON relay nonoperated.
53	Remove insulator from OW, OWI, or TMI relays.	
54	Momentarily operate AR key at coin supervisory circuit key and lamp panel or CS-AR key at MTF jack, lamp, and key circuit (when provided.)	Major alarm silenced. Red aisle pilot lamp extinguished. At coin supervisory key and lamp panel— AL lamp extinguished. At MTF— CS-AL lamp extinguished, when provided.
55	Restore STK CN key.	
56	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
Release Link Alarm		
57	Operate CN, TLK keys.	
58	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
59	At coin supervisory circuit— Block nonoperated CO relay.	
60	At MTF— Restore TLK key.	AS, TS, R- lamps extinguished. Major alarm sounds. Red aisle pilot lamp lighted. At coin supervisory key and lamp panel— AL lamp lighted. At MTF— CS-AL lamp lighted, when provided.
61	At coin supervisory circuit— Remove blocking tool from CO relay.	***If test IAO trunk is not provided—*** ON relay nonoperated.
62b	If test IAO trunk is provided— At coin supervisory circuit— Momentarily release TST relay.	ON relay nonoperated.
63	Momentarily operate AR key at coin supervisory circuit key and lamp panel or CS-AR key at MTF jack, lamp, and key circuit (when provided).	Major alarm silenced. Red aisle pilot lamp extinguished. At coin supervisory key and lamp panel— AL lamp extinguished. At MTF— CS-AL lamp extinguished, when provided.
64	Momentarily operate RL key.	All lamps extinguished.
Hold Key		
65	At coin supervisory circuit— Insulate 8T of CK1 relay.	
66b	If test IAO trunk is provided— At coin supervisory circuit— Connect LO lead terminal 11 or 25 (depending upon options provided) of terminal strip B to 4F of TST relay.	
67	At coin supervisory key and lamp panel— Operate HLD key for circuit under test.	

STEP	ACTION	VERIFICATION
68	At MTF— Operate TLK key.	
69	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
70	Restore TLK key; ***start timing.***	TS, R- lamps extinguished. ***If circuit is arranged for TA tube timing—*** In 20 to 35 seconds— Major alarm sounds. Red aisle pilot lamp lighted. At coin supervisory key and lamp circuit— AL lamp lighted. At MTF— CS-AL lamp lighted, when provided. At coin supervisory circuit— ON relay operated. ***If hold coin station feature is not provided—*** At MTF— AS lamp extinguished. ***If hold coin station feature is provided—*** AS lamp remains lighted. ***If circuit is arranged for A relay timing—*** In 2 to 4.1 minutes— Major alarm sounds. Red aisle pilot lamp lighted. At coin supervisory key and lamp circuit— AL lamp lighted. At MTF— CS-AL lamp lighted, when provided. At coin supervisory circuit— ON relay operated. ***If hold coin station feature is not provided—*** At MTF— AS lamp extinguished. ***If hold coin station feature is provided—*** AS lamp remains lighted.
71h	If HLD relay is provided in coin supervisory circuit and office is equipped with alarm sending— Operate alarm transfer key to transferred position (SB, DB, or TR as required).	At coin supervisory circuit— ON relay released.

STEP	ACTION	VERIFICATION
	Note: The operation of the alarm transfer key will affect the transfer of all central office alarms to the receiving office.	
72	Restore alarm transfer key.	
73	At coin supervisory key and lamp panel— Restore HLD key.	
74	Momentarily operate AR key at coin supervisory circuit key and lamp panel or CS-AR key at MTF jack, lamp, and key circuit (when provided).	Major alarm silenced. Red aisle pilot lamp extinguished. At coin supervisory key and lamp panel— AL lamp extinguished. At MTF— CS-AL lamp extinguished, when provided.
75	At coin supervisory circuit— Remove insulator from CK1 relay.	
76b	If test IAO trunk is provided— At coin supervisory circuit— Remove connection from LO terminal and TST relay.	
77	At MTF— Restore CN key.	
78	Momentarily operate RL key.	All lamps extinguished.
79a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
80a	Remove blocking tool from next RB_ or SB_ relay.	
81b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	
82	Repeat Steps 20 through 81b until all coin supervisory circuits in the group are tested.	
83a	If test IAO is not provided— Remove blocking tools from RB_ or SB_ relays.	
84a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	

STEP	ACTION	VERIFICATION
85b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
86	Restore all keys and switches not required in next test.	

J. Availability of Coin Supervisory Concentrating Circuits

Note: Blocked CT relay in this test should be restored to service as soon as possible to minimize possibility of service interference.

21	At miscellaneous relay rack— Operate C selectors for all coin supervisory concentrating circuits to terminal 22 except first coin supervisory concentrating circuit to be tested.	
22	Block operated CT relays for coin supervisory concentrating circuits not being tested. At MTF— Operate STK CN, TLK keys.	
23	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
24	Restore TLK key.	CND lamp lighted. TS, R- lamps extinguished. ***If stuck coin recycle is not provided—*** CR lamp momentarily lighted. ***If stuck coin recycle is not provided and coin service improvement (dial-tone-first) is provided—*** CR lamp momentarily lighted. CPT lamp momentarily lighted twice. OLF lamp ***does not*** light. ***If stuck coin recycle is provided—*** CR lamp momentarily lighted twice. ***If stuck coin recycle and coin service improvement (dial-tone-first) are provided—*** CR lamp momentarily lighted twice. CPT lamp momentarily lighted four times. OLF lamp ***does not*** light.

STEP	ACTION	VERIFICATION
25	Restore STK CN key.	CND lamp extinguished.
26	Operate TLK key.	At operator position— SC lamp lighted.
27	When operator answers— Advise operator that this is a test call.	At operator position— Off-hook condition indicated. ***If coin service improvement (dial-tone-first) is provided—*** At MTF— PK lamp lighted.
28	Momentarily restore TLK key several times.	At operator position— On-hook condition indicated while TLK key is restored. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished while TLK key is restored.
29g	If coin supervisory circuits are not arranged for coin disposal following stuck coin release— Request operator to disconnect.	
30g	Restore TLK key.	AS lamp extinguished. ***If coin service improvement (dial-tone-first) is provided—*** PK lamp extinguished.
31h	If coin supervisory circuits are arranged for coin disposal following stuck coin release— Operate CN key.	
32h	Request operator to disconnect.	CR lamp momentarily lighted. CND lamp lighted. AS lamp extinguished. ***If coin service improvement (dial-tone-first) is provided—*** CPT lamp momentarily lighted. PK lamp extinguished. OLF lamp ***does not*** light.
33h	Restore TLK, CN keys.	CND lamp extinguished.
34	Momentarily operate RL key.	All lamps extinguished.
35	At miscellaneous relay rack— Restore to normal C selector for next concentrating circuit.	
36	Remove blocking tool from CT relay for next concentrating circuit.	

STEP	ACTION	VERIFICATION
37	Rotate C selector for concentrating circuit tested, to terminal 22.	
38	Block operated CT relay for concentrating circuit tested.	
39	Repeat Steps 23 through 38 for each concentrator in group.	
40a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
41a	Remove blocking tool from next RB_ or SB_ relay.	
42b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	
43	Repeat Steps 21 through 42b until all coin supervisory circuits in the group are tested.	
44a	If test IAO trunk is not provided— Remove blocking tool from RB_ or SB_ relays.	
45a	At relay rack or OGT bay (as required)— Restore to service trunks made busy for tests.	
46b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
47	Restore all keys and switches not required in next test.	

K. Coin Supervisory Concentrating Circuit Alarm

Note: Perform this test once for each group of concentrating circuits.

20	At coin supervisory circuit to be used for test— Insulate 3T of TA relay.	

For Offices Equipped With Two Concentrating Circuits

▶***Note:*** Blocked H and CT relays in this test should be restored to service as soon as

STEP	ACTION	VERIFICATION
	possible to minimize possibility of service interference.◀	
21	At first preferred concentrating circuit— Block nonoperated H relay.	
22	At MTF— Operate STK CN, TLK keys.	
23	Momentarily operate ST key.	▶*If ETS provided—* FT lamp lighted.◀ AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
24	Restore TLK key; ***start timing.***	CR lamp momentarily lighted once or twice, depending upon options provided. CND lamp lighted. TS, R- lamps extinguished. In 13 to 32 seconds— Minor alarm sounds. White aisle pilot lamp lighted. At coin supervisory key and lamp panel— Associated AL lamp lighted.
25	Operate TLK key.	At operator position— SC lamp lighted.
26	At MTF— When operator answers— Advise operator that this is a test call.	
27	Request operator to disconnect.	AS lamp extinguished.
28	At coin supervisory key and lamp panel— Momentarily operate AR key.	White aisle pilot lamp extinguished. Minor alarm silenced. At coin supervisory key and lamp panel— Associated AL lamp extinguished.
29	At first preferred concentrating circuit— Remove blocking tool from H relay.	
30	At MTF— Restore STK CN, TLK keys.	CND lamp extinguished.
31	Momentarily operate RL key.	All lamps extinguished.
32	At first preferred concentrating circuit— Rotate C selector to terminal 22.	
33	Block operated CT relay.	

STEP	ACTION	VERIFICATION
34	At second preferred concentrating circuit— Block nonoperated H relay.	
35	At MTF— Operate STK CN, TLK keys.	
36	Momentarily operate ST key.	Same as Step 24.
37	Restore TLK key; ***start timing.***	Same as Step 25.
38	At coin supervisory key and lamp panel— Momentarily operate AR key.	White aisle pilot lamp extinguished. Minor alarm silenced. At coin supervisory key and lamp panel— Associated AL lamp extinguished.
39	At first and second preferred concentrating circuits— Remove blocking tools from CT, H relays.	
40	At MTF— Operate TLK key.	
41	When operator answers— Request operator to disconnect.	AS lamp extinguished.
42	Restore STK CN, TLK keys.	CND lamp extinguished.
43	Momentarily operate RL key.	All lamps extinguished.
44	Proceed to Steps 74 through 78.	

For Offices Equipped With Three or More Concentrating Circuits

45	At coin supervisory concentrators— Rotate C selectors of all concentrating circuits in group, except first and second preferred circuits, to terminal 22.	
46	Block operated associated CT relays.	
47	Repeat Steps 21 through 31.	
48	At first concentrating circuit— Rotate C selector to terminal 22.	
49	Block operated CT relay.	
50	At second concentrating circuit— Block nonoperated H relay.	

STEP	ACTION	VERIFICATION
51	Remove blocking tool from CT relay for third concentrating circuit.	
52	At MTF— Operate STK CN, TLK keys.	
53	Momentarily operate ST key.	Same as Step 23.
54	Restore TLK key; ***start timing.***	Same as Step 24.
55	Operate TLK key.	Same as Step 25.
56	When operator answers— Advise operator that this is a test call.	
57	Request operator to disconnect.	AS lamp extinguished.
58	At coin supervisory key and lamp panel— Momentarily operate AR key.	Minor alarm silenced. White aisle pilot lamp extinguished. At coin supervisory key and lamp panel— Associated AL lamp extinguished.
59	At MTF— Restore STK CN, TLK keys.	CND lamp extinguished.
60	Momentarily operate RL key.	
61	Repeat Steps 48 through 60 for all other concentrating circuits except the last. ***Note:*** In these steps, "first," "second," and "third" refer to the circuit just tested, the circuit to be tested, and the succeeding circuit, respectively.	
For Last Circuit in the Group		
62	Rotate C selector to terminal 22 for next to last concentrator.	
63	Block operated associated CT relay.	
64	Block nonoperated H relay for last concentrator in group.	
65	At MTF— Operate STK CN, TLK keys.	
66	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes.

STEP	ACTION	VERIFICATION
		If test IAO trunk is provided— CSI lamp lighted. (Refer to 1.09.)
67	Restore TLK key; ***start timing.***	CR lamp momentarily lighted once or twice, depending on options provided. CND lamp lighted. TS, R- lamps extinguished. In 13 to 32 seconds— Minor alarm sounds. White aisle pilot lamp lighted. At coin supervisory key and lamp panel— Associated AL lamp lighted.
68	At coin supervisory key and lamp panel— Momentarily operate AR key.	White aisle pilot lamp extinguished. Minor alarm silenced. At coin supervisory key and lamp panel— Associated AL lamp extinguished.
69	Remove blocking tools from all CT, H relays.	
70	At MTF— Operate TLK key.	
71	When operator answers— Request operator to disconnect.	AS lamp extinguished.
72	Restore STK CN, TLK keys.	CND lamp extinguished.
73	Momentarily operate RL key.	All lamps extinguished.
74	At coin supervisory circuit— Remove insulator from TA relay.	
75a	If test IAO trunk is not provided— At coin supervisory link frame— Remove blocking tools from RB_ or SB_ relays.	
76a	At relay rack or OGT bay (as required)— Restore trunks to service made busy for test.	
77b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB_ jack.	
78	At MTF— Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
L. A Relay Failure Alarm		
1	At coin supervisory concentrating circuit— Block nonoperated A relay.	
2	Connect ground to 2B of A relay; ***start timing.***	In 13 to 32 seconds— Minor alarm sounds. Associated AL lamp lighted.
3	Remove ground from A relay.	
4	Remove blocking tool from A relay.	
5	Momentarily operate AR key.	Minor alarm silenced. Associated AL lamp extinguished.
M. Overtime Announcement Failure		
	Note: Refer to 1.08.	
20	At MTF— Operate TLK, CN keys.	
21	Momentarily operate ST key.	***If ETS provided—*** FT lamp lighted. AS, TS lamps lighted. R- lamp flashes. ***If test IAO trunk is provided—*** CSI lamp lighted. (Refer to 1.09.)
22	Operate ANS key; ***start timing.*** ***Note:*** Proceed immediately to Step 23 and Step 24f, 25g, 26h, or 27i to prevent timing out before test is completed.	R- lamp extinguished. High tone heard. ***If test IAO is not provided—*** 30 seconds before end of initial timing period, ( ) minutes— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted. ***If test IAO trunk is provided—*** After 2 to 20 seconds— Low tone heard for 1/2 second. CC lamp momentarily lighted. CND lamp lighted.
23	Restore CN key.	CND lamp extinguished.
24f	If test IAO trunk is not provided and 6A announcement system is provided— At coin supervisory circuit— Insulate 3M of ANR relay.	At end of initial timing period, ( ) minutes— No announcement heard. After 30 seconds— At operator position— OM lamp lighted. Operator requests deposit of coin.

STEP	ACTION	VERIFICATION
25g	If test IAO trunk is not provided and 7A announcement system is provided— At voice alarm and control circuit— Operate OS-AR key.	OS-ALM lamp lighted. At end of initial timing period, ( ) minutes— No announcement heard. At operator position— OM lamp lighted. Operator requests deposit of coin.
26h	If test IAO trunk and 6A announcement system are provided— At coin supervisory circuit— Insulate 3M of ANR relay.	After 15 seconds— No announcement heard. After 30 seconds— At operator position— OM lamp lighted. Operator requests deposit of coin.
27i	If test IAO trunk and 7A announcement system are provided— At voice alarm and control circuit— Operate OS-AR key.	OS-ALM lamp lighted. After 15 seconds— No announcement heard. At operator position— OM lamp lighted. Operator requests deposit of coin.
28	Advise operator that this is a test call.	
29	Request operator to disconnect.	
30	At MTF— Restore TLK, ANS keys.	AS, TS lamps extinguished.
31	Momentarily operate RL key.	All lamps extinguished.
32j	If 6A announcement system is provided— At coin supervisory circuit— Remove insulator from ANR relay.	
33k	If 7A announcement system is provided— At voice alarm and control circuit— Restore OS-AR key.	OS-ALM lamp extinguished.
34a	If test IAO trunk is not provided— At coin supervisory link frame— Block operated the released RB_ or SB_ relay.	
35a	Remove blocking tool from next RB_ or SB_ relay.	
36b	If test IAO trunk is provided— At MTF— Set CSS_ switch to select next coin supervisory circuit in the group.	
37	Repeat Steps 20 through 36b until all coin supervisory circuits in the group are tested.	

STEP	ACTION	VERIFICATION
38a	If test IAO trunk is not provided— Remove blocking tools from RB_ or SB_ relays.	
39a	At relay rack or OGT bay (as required)— Restore trunks to service made busy for tests.	
40b	If test IAO trunk is provided— At MTF— Remove make-busy plug from test IAO trunk MB- jack.	
41	Restore all keys and switches not required in next test.	