

AMA ACCURACY
TRAFFIC SERVICE POSITION
CROSSBAR TANDEM OFFICES

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1. GENERAL

1.01 This section establishes AMA accuracy tests and procedures for TSP equipment associated with crossbar tandem offices.

NOTE: It does not outline tests for the electronic version of TSP. AMA accuracy tests for this equipment will be covered in a future BSP.

1.02 The AMA accuracy tests for the associated crossbar tandem equipment are outlined in Section 220-500-900PT.

1.03 The following abbreviations are used in this section:

- CO - Central Office
- CPB - Circuit Provision Bureau
- EBAC - Equipment Billing Accuracy Control
- EDP - Electronic Data Processing
- T&A - Test and Analysis
- TSP - Traffic Service Position
- WECO - Western Electric Company

1.04 The CO forces shall perform all the BSP tests in the 220-6 layer, as applicable on TSP equipment.

1.05 The T&A Committee will:

- (a) Ask the EBAC group to schedule the tests which produce AMA tape entries as soon as firm completion dates are set.

These tests shall be started no more than fourteen days, nor less than seven days, before cutover.

- (b) Give written notice to the Revenue Accountant at least two weeks before the start of the tests.

NOTE: The CO forces will assume the responsibilities outlined in 1.05 when a T&A Committee has not been formed.

1.06 The General Plant Staff in each Area will assist the CO forces in obtaining valid test numbers for testing overtime charges. A test number shall be provided for each working local and NPA code.

2. WECO MACHINE PRINTOUT

2.01 The WECO printout provides cross-connect information for the rater, charge computer, and rate calendar.

2.02 After WECO completes their supplemental HB65 tests, the following operation tests shall be performed jointly with the CO forces:

<u>HB65, Section</u>	<u>Circuit</u>
606.1	Rater
607	Charge Computer
608.1	Rate Calendar

NOTE: The above handbook tests will compare the information on the printout against the cross-connects placed in the machine.

3. EDP PRINTOUT

3.01 General Administration Traffic will give the EDP Center a list of the terminating NNX codes for which the coin rater billing information is to be verified.

3.02 The Revenue Accountant will give the CO forces a printout to compare information in the charge computer against the EDP Center's rating information. This printout is called the TSP test call list and is produced by EDP Program No. 813.

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3.03 The TSP test call list will be provided for:

- (a) Installing a new coin rater or charge computer.
- (b) Changing existing rate conditions, such as, adding a rate area, changing a rate area, or altering the rate structure in existing rate areas.
- (c) Altering the tax rate.
- (d) Adding new terminating NNX codes.

NOTE: The procedures for changing coin rater cross-connects are outlined in Part 4.

3.04 The CO forces will direct rate-treatment numbers from the test call list to the charge computer. The actual charge information for paid station and person calls will be displayed (in dollars and cents) on the computer test circuit. These tests are covered in the following BSPs:

- 220-640-501 Charge Computer
- 220-642-501 Rater
- 220-648-501 Rate Calendar

3.05 The CO forces will refer any discrepancies between the cross-connect orders and the EDP printout to the CPB.

(a) The CPB will verify the information on the cross-connect order against their source information. They will either:

- (1) Correct the cross-connect order, or
- (2) Notify the CO that CPB's orders agree with their source information.

(b) The CO will make any required cross-connect changes. If (2) above applies, they will notify the EBAC group that a discrepancy exists between the CPB source information and the EDP printout.

- (1) The EBAC group will send these discrepancies to the Revenue Accountant.
- (2) The Revenue Accountant will verify the EDP printout against his source information. If discrepancies still exist between the EDP Center rating information and the CPB, he will refer them to the General Traffic Operator Service group.

(3) The Operator Service group will resolve the rating discrepancies and send the changes to the groups involved.

4. CHANGING COIN RATER CROSS-CONNECTS

4.01 The steps listed below will be used when changing the rate structure in coin raters. The procedures are for a TSP office with two raters, each equipped with three supplementary bays. The spare supplementary frames may be identified by the lamp display at the rater test frame and verified by observing that the SP lamp is lit at the supplementary frame.

(a) Before cutover, place and test all cross-connects for the new rate structure. These cross-connects are:

- (1) In the spare supplementary bays for raters 0 and 1.
- (2) For codes with the highest volume of automatic-rated traffic.

(b) For interstate codes, proceed as follows:

- (1) Make busy rater 0 at the start of the required work interval.
- (2) Change the code points from the TA punching to the MR punching in the supplementary bay with the lowest volume of automatic-rated traffic.
- (3) In the same supplementary bay, change the remaining cross-connects for the new rate structure.
- (4) While testing the new cross-connects, temporarily replace a code point in each field from the MR punching to the TA punching.
- (5) Place the code points back on the MR punchings after testing is completed.

NOTE: If rater 1 should have a failure, place rater 0 in service. The TSP operators will only have to manually rate those codes in the supplementary bay with the lowest volume of traffic.

- (6) One hour before cutover to the new rate structure, change the code points from the MR punchings to the TA punching in the supplementary bay with the lowest volume of automatic-rated traffic.

(7) Insert a 322A plug in the transfer jack (T) of rater 0. This will transfer the supplementary bay with the highest volume of automatic-rated traffic from the old to the new rate structure.

(8) At cutover, remove the make-busy plug in the RMB jack of rater 0 and make busy rater 1.

NOTE: After completing the cutover for rater 0, perform all the steps in (b) above for rater 1.

(c) Remove all cross-connects from the supplementary bays that become spare after the transfer in (6) through (8). After the removal of the cross-connects, basic raters 0 and 1 will each have a spare supplementary bay for future changes in rate structure.

5. VERIFYING TRANSVERTER MESSAGE BILLING INDEX 21-29

5.01 WECO will test to verify that each transverter can handle message billing index (MBI) 21 to 29 from the sender test frame. This test is covered in HB65, Sec. 505.1, test number 193.

5.02 The CO forces will:

(a) Perform the test in 5.01 (in addition to WECO) according to Section 220-501-501.

(b) Verify that a TSP position can send MBI 21 to 29 to each transverter, using a call-thru test as covered in Section 220-136-501. This test:

(1) Is performed from the AMA trunk test frame, using an INC trunk.

(2) Places an entry on the tape for MBI 21 to 29.

(c) Cut and send the tape produced in (b) and Form E-4104, listing the sequence of the tests and the transverters tested, to the EDP Center.

5.03 The EDP Center will process the test tape and prepare a verbatim printout which is forwarded to the EBAC group. They will analyze the printout and notify local Plant forces of the results.

5.04 The CO will notify the T&A Committee of any errors. The Committee will have WECO make any corrections in wiring or cross-connects to insure correct MBI 21 to 29 for each transverter.

6. INCOMING TRUNK TESTS

6.01 The CO forces will test each TSP incoming trunk as follows:

(a) On trunks associated with an AMA recorder, test the "DJ" leads, using Section 220-500-900PT.

(b) On coin trunks, verify the originating rate centers as covered in Section 220-136-501.

(c) On new and rearranged trunks, perform the test in 5.02 (b).

(d) On all TSP trunks, verify that the cancel entry 3999XX can be placed on the tape.

(1) Perform this test from the AMA trunk test frame as covered in Section 220-136-501.

(2) Cut and mark the test tapes and forward them, with Form E-4104, to the EDP Center. Form E-4104 will list:

- Tests (in sequence).
- Calling numbers.
- Trunk numbers.
- Recorder numbers.
- Date and Time of tests.

6.02 The EDP Center will process the test tapes and forward the results on verbatim printouts to the EBAC group. EBAC will verify the verbatim printout and notify the CO of the results.

6.03 The CO will refer any errors to the T&A Committee, who will:

- (a) Have WECO make any needed corrections.
- (b) Schedule additional tests, if necessary.

6.04 The CO forces in offices with access to a crossbar tandem office with TSP will perform the following call-thru tests on coin incoming trunks:

- Coin Collect
- Coin Return
- Recall
- Overtime

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6.05 These tests shall be from a coin telephone in the originating office to a TSP position. Using make-busy plugs, direct the calls to each incoming trunk.

(a) When performing the test in 6.04 (c), recall the operator by flashing the switch-hook within the first 42 seconds of the conversation.

(b) When performing the overtime test in 6.04 (d), hold the call for the initial period and one overtime period.

7. TSP POSITION TESTS

7.01 The CO forces will perform these TSP position tests:

(a) Test each new position, using any transverter, to insure that a position can transmit MBI 21 to 29. See 5.02 (b).

(b) Perform the cancel entry test outlined in 6.01 (d). However, test each new position with any incoming TSP trunk.

(c) Test all the leads between each position circuit and the associated supplementary transverter connector and data transfer position connector. This can be done by buzzing each lead.

8. LEAD VERIFICATION - SENDERS

8.01 The CO forces shall make a lead verification test between each sender and the associated data transfer sender connector. The test can be made by buzzing all leads.