



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.134

SPECIFICATIONS OF SIGNALLING SYSTEM No. 4

**ROUTINE TESTING OF EQUIPMENT (LOCAL
MAINTENANCE)**

ITU-T Recommendation Q.134

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation Q.134 was published in Fascicle VI.2 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Recommendation Q.134

5.2 ROUTINE TESTING OF EQUIPMENT (LOCAL MAINTENANCE)

5.2.1 Routine testers for testing individual items of equipment such as circuit equipment, connecting circuits, operator's line calling equipment, selectors, registers, etc., must be provided in every international exchange equipped for automatic switching. These routine testers will be provided in accordance with the practice followed in each country for the local maintenance of the switching equipment.

5.2.2 The testing equipment must conform to the following principles:

- a) An item of equipment must not be taken for test until it is free; a signal will show the exchange staff that a piece of apparatus has not been taken for test because it was engaged on a call; it will then be possible to test this piece of apparatus later.
- b) An item of equipment taken for test will be marked engaged for the duration of the test. When an incoming circuit equipment is taken for test, a blocking signal will be sent to the outgoing exchange (see Recommendation Q.129).

5.2.3 Testing of the circuit and signalling equipment should include a check that the specifications of System No. 4 are met in regard to the following:

- Signalling frequencies;
- Transmitted signal levels;
- Signal frequency leak;
- Receiver operate and non-operate limits;
- Receiving-end line split;
- Sending-end line split;
- Line signal codes;
- Sending duration of line signal elements;
- Recognition time of line signal elements;
- Sending duration of numerical signal elements;
- Recognition time of numerical signal elements;
- Time-out and alarm features.