TELECOMMUNICATION
STANDARDIZATION SECTOR

OF ITU

Q.328

SPECIFICATIONS OF SIGNALLING SYSTEM R1 TESTING ARRANGEMENTS

ROUTING TESTING OF EQUIPMENT (LOCAL MAINTENANCE)

ITU-T Recommendation Q.328

(Extract from the Blue Book)

NOTES

| 1 | ITU-T | Γ Recomm | endation | Q.328 | was p | ublishe | d in | Fascicle | e VI.4 | of the | Blue | Book. | This | file i | is an | extract | from |
|----------|----------|--------------|--------------|----------------|-------|----------|-------|----------|---------|--------|---------|---------|-------|--------|-------|---------|--------|
| the Blue | Book. | While the | presentati | on and | layou | t of the | e tex | t might | be slig | htly d | ifferei | nt from | the I | Blue | Book | versio | n, the |
| contents | of the f | file are ide | ntical to tl | ne <i>Blue</i> | Book | versio | n and | d copyri | ght co | nditio | is rem | ain un | chang | ed (s | ee be | elow). | |

| 2 | In | this | Recommendation, | the | expression | "Administration" | is | used | for | conciseness | to | indicate | both | a |
|----------|------|-------|----------------------|-----|------------|------------------|----|------|-----|-------------|----|----------|------|---|
| telecomn | nuni | catio | n administration and | | | | | | | | | | | |

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4.2 ROUTINE TESTING OF EQUIPMENT (LOCAL MAINTENANCE)

- 4.2.1 Test equipment for routine testing of individual items of equipment such as circuit equipment, connecting circuits, registers, etc., should be provided in every international exchange. Routine tests should be made in accordance with the practice followed in each country for the local maintenance of switching equipment and may be made with suitable semi-automatic or automatic test equipment if available.
- 4.2.2 The testing equipment must conform to the following principles:
 - a) an item of equipment must not be taken for test until it is free;
 - an item of equipment taken for test will be marked engaged (busy) for the duration of the test. Before a
 circuit equipment is taken for test, the circuit will be withdrawn from service at both international
 exchanges;
 - c) as an alternative to b), a like item of equipment, known to be properly adjusted, may be switched in, and the item of equipment to be tested is switched out during the test.
- 4.2.3 Testing of the circuit and signalling equipment should include a check that the specifications of System R1 are met in regard to the following:
 - a) 2600 Hz line signalling system:
 - signal frequency;
 - transmitted signal levels;
 - signal frequency leak;
 - receiving equipment operate and non-operate limits;
 - receiving-end line split;
 - sending-end line split;
 - sending duration of signals.
 - b) PCM line signalling equipment:
 - receiving equipment operate and non-operate limits;
 - sending duration of signals.
 - c) Register signalling system:
 - signal frequencies;
 - transmitted signal levels;
 - signal frequency leak;
 - sending duration of signals;
 - receiving equipment operate and non-operate limits;
 - operation of the receiving equipment in response to a series of pulses;
 - error checking features.