TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.153

SPECIFICATIONS OF SIGNALLING SYSTEM No. 5

MULTIFREQUENCY SIGNAL SENDER

ITU-T Recommendation Q.153

(Extract from the Blue Book)

NOTES

1	ITU-T Recommendation Q.153 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 <i>Blue Book</i> version and copyright conditions remain unchanged (see below).

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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3.3 MULTIFREQUENCY SIGNAL SENDER

3.3.1 Signalling frequencies

700, 900, 1100, 1300, 1500 and 1700 Hz.

A signal shall consist of a combination of any two of these six frequencies. The frequency variation shall not exceed \pm 6 Hz of each nominal frequency.

3.3.2 Transmitted signal level

 -7 ± 1 dBm0 per frequency.

The difference in transmitted level between the two frequencies comprising a signal shall not exceed 1 dB.

Note - The level of the leak current transmitted to line should be at least:

- a) 50 dB below the single-frequency level when a multifrequency signal is not being transmitted;
- b) 30 dB below the transmitted signal level of either of the two frequencies when a multifrequency signal is being transmitted.

3.3.3 Signal duration

KP1 and KP2 signals: $100 \pm 10 \text{ ms}$

All other signals: 55 ± 5 ms

Interval between all signals: 55 ± 5 ms

Interval between cessation of the seizing line signal and transmission of the register KP signal: 80 ± 20 ms.

3.3.4 Compound signal tolerance

The interval of time between the moments when each of the two frequencies comprising a signal is sent must not exceed 1 ms. The interval of time between the moments when each of the two frequencies ceases must not exceed 1 ms.