

RECOMMENDATION ITU-R F.305*

**Stand-by arrangements for radio-relay systems
for television and telephony**

(1956-1959)

The ITU Radiocommunication Assembly,

considering

- a) that, in radio-relay systems, it is indispensable to have stand-by arrangements to decrease the time when the circuit is out of action as a result of a fault in equipment, or to facilitate periodical maintenance operations;
- b) that for this purpose, it is generally advisable to use a stand-by channel replacing the channel normally in service along the entire length of a switching section;
- c) that, for technical or operational reasons, it may be desirable to use, in certain cases, stand-by installations of a different type such as stand-by equipment with switching at each station on the same carrier frequency;
- d) that a distinction should be made according to whether the system is intended for the transmission of telephone channels, of telephone and television channels possessing very similar radio characteristics, or of telephone and television channels with differing characteristics,

recommends

- 1** that, when several radio-frequency channels possessing the same characteristics are used for multiplex telephony, it is preferable to use a stand-by channel common to the channels in service (or several such stand-by channels, if necessary);
- 2** that, when some of the radio-frequency channels are utilized for multiplex telephony and others for television and all the radio channels possess very similar characteristics, it is preferable to use a stand-by channel common to the channels in service (or several such stand-by channels, if necessary);
- 3** that, in certain specific cases, such as when some of the radio-frequency channels are utilized for multiplex telephony and others for television and when the characteristics of such channels are substantially dissimilar, the administrations concerned may, by mutual agreement and if they so desire, use stand-by arrangements differing from those specified in § 1 and 2 of the present Recommendation, such as stand-by equipment operating on the same carrier frequency as the equipment in service and which can be substituted for that equipment station by station.

* Radiocommunication Study Group 9 made editorial amendments to this Recommendation in 2001 in accordance with Resolution ITU-R 44.