



**IEC 60601-2-7 Edition (1998)**  
**TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING**

R=Required by Lab

S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
10.2.2	Power supply (Apparent resistance of supply mains)	- Power supply with adjustable resistors	R
19	Continuous leakage currents	- Required using of memory scope with measurement functions - MD device	R
20	Dielectric strength	- High voltage divider	S
50.102.1	Reproducibility of the radiation output in intermittent mode without automatic exposure control actived	- Adequate ion chambers associated to Electrometer-source/ or adequate Radiation dosimeter.( High sensibility) - Aluminium filters	R
50.102.2a)	Linearity of Air Kerma over limited intervals of Loading factors	- Same equipment than above	R
50.102.2b)	Constancy of automatic exposure controls	- Phantoms (Water) - Adequate densitometer - Radiographic films (Gradient close to 2)	R
50.103.1	Accuracy of Loading factors (X-ray tube voltage)	- <b>Required using of memory scope with measurement functions</b> - <b>High voltage dividers or kV meter</b>	R
50.103.2	Accuracy of Loading factors (X-ray tube current)	- <b>Required using of memory scope with measurement functions</b> - <b>Set of precision resistors</b> - <b>Differential amplifier</b>	R
50.103.3	Accuracy of Loading factors (loading time)	- <b>Required using of memory scope with measurement functions</b> - <b>High voltage dividers or kV meter</b>	R



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
50.103.4	Accuracy of Loading factors (current time product)	<ul style="list-style-type: none"><li>- Required using of memory scope with measurement functions</li><li>- High voltage dividers or kV meter</li><li>- Set of precision resistors</li><li>- Differential amplifier</li></ul>	R

Note: The presence of equipment alone does not indicate a satisfactory situation. Assessors must evaluate the equipment design, calibration, uncertainty and documentation to ensure compliance with the directions of the standard. The requirements of ISO Guide 25 regarding validation are applicable, as the tests of this standard are not standardised tests.