$Appendix \ (1) \ daily, weekly, monthly \ and \ annual \ frequency \ QC \ test \ with \ tolerances$

Frequency	Procedure	Tolerance ^a	
Daily	Safety		
	Door interlock	Functional	
	Radiation room monitor	Functional	
	Audiovisual monitor	Functional	
	Mechanical		
	Lasers	2 mm	
	Distance indicator (ODI)	2 mm	
Weekly	Check of source positioning	3 mm	
Monthly	Dosimetry		
	Output constancy	2%	
	Mechanical checks		
	Light/radiation field coincidence	3 mm	
	Field size indicator (collimator setting)	2 mm	
	Gantry and collimator angle indicator	1°	
	Cross-hair centering	1 mm	
	Latching of wedges, trays	Functional	
	Safety interlocks		
	Emergency off	Functional	
	Wedge interlocks	Functional	
Annual	Dosimetry		
	Output constancy	2%	
	Field size dependence of output constancy	2%	
	Central axis dosimetry parameter constancy (PDD/TAR)	2%	
	Transmission factor constancy for all standard accessories	2%	
	Wedge transmission factor constancy	2%	
	Timer linearity and error	1%	
	Output constancy vs. gantry angle	2%	
	Beam uniformity vs. gantry angle	3%	
	Safety interlocks		
	Follow test procedures of manufacturers	Functional	

Collimator rotation isocenter 2mm
Ziiiii
diameter
Gantry rotation isocenter 2mm
diameter
Couch rotation isocenter 2mm
diameter
Coincidence of collimator, gantry, couch axis with isocenter 2mm
diameter
Coincidence of radiation and mechanical isocenter 2mm
diameter
Tabletop sag 2 mm
Vertical travel of table 2 mm
Field-light intensity Functional

ODI, optical distance indicator; PDD, percent depth dose; TAR, tissue-airratio.

^aThe tolerances listed in the tables should be interpreted to mean either that (a) if a parameter either exceeds the tabulated value (e.g., the measured isocenter under gantry rotation exceeds 2 mm diameter) or (b) the change in the parameter exceeds the nominal value (e.g., the output changes by more than 2%), then an action is required. The distinction is emphasized by the use of the term *constancy* for the latter case. Moreover, for constancy, percent values are \pm the deviation of the parameter with respect to its nominal value; distances are referenced to the isocenter or nominal source to surface distance. From American Association of Physicists in Medicine. with permission.