

A review of TG 142, Quality Assurance of Medical Accelerators, will be given. The charge of TG 142 was “First to update, as needed, recommendations of Table II of the AAPM TG 40 report on quality assurance and second, to add recommendations for asymmetric jaws, multileaf collimation, and dynamic/virtual wedges. Significant technological advances made since the publication of TG 40 necessitate an update of that report. In addition to the original charges of the task group, other technological advancements to medical linear accelerators were also addressed. These include: electronic portal imaging, kV and cone beam imaging, and respiratory gating techniques for treatment. TG 142 also considered the impact of clinical procedures such as stereotactic radiosurgery, total body irradiation, and intensity modulated radiation therapy on quality assurance of accelerators. The report has made recommendations based on the particular intended usage of the accelerator. The tables of TG 142 summarizing these recommendations will be reviewed.