

Type testing of basic-protection devices in Germany

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Abstract

The German X-ray ordinance lays down the basic requirements for type approvals of X-ray device. Type approvals in Germany are issued by BfS. The type testing of X-ray devices is carried out by PTB, the German institute for metrology, providing various scientific and technical services.

In autumn 2009, a new X-ray ordinance shall come into force in Germany. With this ordinance, a new category of type approved X-ray devices, called “basic-protection devices”, will be introduced. In general, type approvals shall ensure high safety standards in radiation protection. Especially, the exposures of the operators due to ionizing radiation shall be kept “as low as reasonably achievable” (“ALARA-principle”).

In this presentation, the technical requirements for basic-protection devices as well as the type-test procedures for this new category of X-ray devices will be described.