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American National Standard

*for General Radiation Safety –
Installations Using Non-Medical
X-Ray And Sealed Gamma-Ray
Sources, Energies Up To 10 MeV*



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American National Standards Institute

11 West 42nd Street
New York, New York

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American National Standard

**For General Radiation Safety –
Installations Using Non-Medical X-Ray And Sealed
Gamma-Ray Sources, Energies Up To 10 MeV**

Secretariat
Health Physics Society

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Abstract

This standard establishes guidance for the design and use of common types of installations that use x-ray machines and sealed gamma-ray sources, up to 10 MeV, for non-medical purposes. Its main objectives are to keep radiation exposure to people to levels that are as low as reasonably achievable (ALARA), and to ensure that no one receives greater than the maximum permissible dose equivalent. These objectives may be achieved by the use of firm management controls, safe operating procedures, appropriate equipment, a comprehensive maintenance and surveillance program, adequate shielding, distance, or by limiting personnel exposure time. Annexes contain technical information useful for design of radiation shielding.

Key words: Gamma-ray equipment; radiation installations; radiation safety; x-ray equipment.

American National Standard

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