

CATEGORIZATION OF GENERATORS AND OTHER RADIATION SOURCES

Category	Source and Practice	Activity ratio (A/D) or Risks
1	<ul style="list-style-type: none"> • High energy accelerators (Linacs, Cyclotron) • Teletherapy (Co60 Unit) • Gamma Knife • Unsealed sources • Nuclear Reactors • Irradiators • Storage of radioactive material or waste and disposal • Radioisotope thermoelectric generators (RTGs) 	<p>A/D \geq 1000 or Personally extremely dangerous</p>
2	<ul style="list-style-type: none"> • PET • SPECT • CT scanners (including CT simulators) • Conventional Simulators • Brachytherapy (High Dose Rate and Medium Dose Rate) • Industrial radiography sources • Gamma radiography camera • Gamma radiography crawlers • VACIS scanners 	<p>1000 > A/D \geq 10 or Personally very dangerous</p>
3	<ul style="list-style-type: none"> • X-ray fluorescence machines • Angiography machines • C-Arm • Plane X-ray machines (includes portable x-ray machines) • Superficial X-rays • Fixed industrial high-activity gauges • Well logging gauges • Density gauges • Level gauges Backscatter gauges • Moisture or density gauges • In-stream analysis gauges • Portable gauges 	<p>10 > A/D \geq 1 or Personally dangerous</p>
4	<ul style="list-style-type: none"> • X-ray industrial gauges • Low activity industrial gauges • Panoramic and cephalometric dental X-rays • Whole body bone densitometers • Full scan vehicle imaging system 	<p>1 > A/D \geq 0.01 or Unlikely to be dangerous</p>
5	<p>Brachytherapy permanent implants XRF analyzers X-ray diffraction (XRD) Mammography units Intra oral and portable dental units Veterinary X-rays units Baggage scanners Portable bone densitometers Check sources</p>	<p>0.01 > and A \geq exempt or Not dangerous</p>