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C. EXAMPLES OF COMMON RADIONUCLIDES

Table C.1 Examples of Common Radionuclides at Selected Types of Facilities

Facility Type	Common Radionuclides
Accelerator/Cyclotron	²² Na
	Activation products (e.g., ⁶⁰ Co)
Aircraft Manufacturing and Maintenance Facility	³ H (dials and gauges) Magnesium-thorium alloys Nickel-thorium alloys ¹⁴⁷ Pm (lighted dials and gauges) ²²⁶ Ra and progeny (radium dials) Depleted uranium
Cement Production Facility	Thorium series radionuclides Uranium series radionuclides
Ceramic Manufacturing Facility	Thorium series radionuclides Uranium series radionuclides
Fertilizer Plant	⁴⁰ K Uranium series radionuclides
Fuel Fabrication Facility	99Tc (reprocessing only) Enriched uranium Transuranics (e.g., ²³⁷ Np, ²³⁹ Pu) (reprocessing only)
Gaseous Diffusion Plant	⁹⁹ Tc Enriched uranium Transuranics (e.g., ²³⁷ Np, ²³⁹ Pu)
Medical Imaging and Therapy Facility	60Co 90Sr 99mTc 131I 137Cs 192Ir 201Tl 226Ra and progeny Depleted uranium collimators
Metal Foundry	⁴⁰ K ⁶⁰ Co ¹³⁷ Cs Thorium series radionuclides Uranium series radionuclides
Munitions and Armament Manufacturing and Testing Facility	³ H (fire control devices) ²²⁶ Ra and progeny Depleted uranium

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Table C.1 Examples of Common Radionuclides at Selected Types of Facilities (continued)

Facility Type	Common Radionuclides
Nuclear Medicine Laboratory or Pharmaceutical Laboratory	99mTc 131I 137Cs 192Ir 201Tl 226Ra and progeny
Nuclear Power Reactor	Activation products (e.g., ⁵⁵ Fe, ⁶⁰ Co, ⁶³ Ni) Fission products (e.g., ⁹⁰ Sr, ¹³⁷ Cs) Transuranics (e.g., ²³⁷ Np, ²³⁹ Pu)
Oil and Gas	²²⁶ Ra and progeny
Optical Glass Facility	Thorium series radionuclides Uranium series radionuclides
Paint and Pigment Manufacturing Facility	Thorium series radionuclides Uranium series radionuclides
Paper and Pulp Facility	Thorium series radionuclides Uranium series radionuclides
Radium Dial Painting	²²⁶ Ra and progeny
Rare Earth Facility	⁴⁰ K Thorium series radionuclides Uranium series radionuclides
R&D Facility with Broad Scope License	³ H ¹⁴ C
Research Laboratory	³ H ¹⁴ C ²² Na ²⁴ Na ³² P ⁵⁷ Co ⁶³ Ni ¹²³ I ¹²⁵ I
Scrap Metal Recycling Facility	⁶⁰ Co ⁹⁰ Sr ¹³⁷ Cs ²²⁶ Ra and progeny Thorium series radionuclides Uranium series radionuclides

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Table C.1 Examples of Common Radionuclides at Selected Types of Facilities (continued)

Facility Type	Common Radionuclides
Sealed Source Facility	⁶⁰ Co ⁹⁰ Sr ¹³⁷ Cs ²⁴¹ Am
Transuranic Facility	²⁴¹ Am _{238, 239, 240, 241} Pu
Uranium Mill	²³⁸ U ²³⁰ Th ²²⁶ Ra and progeny Thorium series radionuclides Uranium series radionuclides
Waste Water Treatment Facility	Thorium series radionuclides Uranium series radionuclides
Widely Distributed General Commerce	³ H (exit signs) ⁴⁰ K (naturally-occurring) ⁵⁷ Co (lead paint analyzer) ⁶⁰ Co (radiography source) ⁶³ Ni (chemical agent detectors) ¹⁰⁹ Cd (lead paint analyzer) ¹³⁷ Cs (soil moisture density gauge, liquid level gauge) ¹⁹² Ir (radiography source) ²²⁶ Ra (watch dials) ²⁴¹ Am (AmBe soil moisture density gauge, smoke detectors) Orphan sources

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