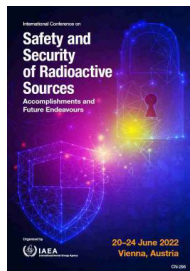


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Growth of National Inventory of Sealed Radioactive Sources in Tanzania

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Abstract: A sealed radioactive source, typically called a sealed source, refers to radioactive material that has been sealed inside a capsule or is permanently bonded in a solid form. Sealed Sources within devices are commonly used to deliver a defined Dose of radiation, such as that used in cancer therapy or in irradiators that sterilize food and medical equipment. In Tanzania the use of Sealed Radioactive Sources was realized after establishment of radiotherapy department at Ocean Road Cancer Institute for cancer treatment, as well as the inauguration of the insectary of the tsetse mass-rearing facility in Tanga for the Tsetse Eradication Project using SIT. The use of technology in the country has been growing in recent years and marks the highest national inventory in 2021. The number was established through the importation licenses issued to the road Construction Companies, Mining and Oil/Gas Exploration Companies as well as the national inventory of the Sealed Radioactive Sources conducted by Tanzania Atomic Energy Commission (TAEC) through Regulatory Authorization Information System (RAIS). This work therefore presenting the growth trends, regulatory control system and the management of disused radioactive sources.

Country OR Intl. Organization

United Republic of Tanzania

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