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Sustainability in Safety for Borehole Disposal of Disused Sealed Radioactive Sources: Malaysian experience

Sustainability in Safety for Borehole Disposal of Disused Sealed Radioactive Sources: Malaysian Experience

MAW Yusof

Abstract

Sustainability is defined as meeting the needs of the present without compromising the ability of future generations to meet their own needs. It should be balanced between economic growth, environmental protection, and societal wellbeing. The development of safe, sustainable, and societally acceptable strategies for borehole disposal of DSRS is essential. Boreholes disposal of DSRS reduces safety and security risks and enables their efficient management. In order to ensure the disposal of DSRS into borehole is not harmful to the public and the environment, the safety case and safety assessment are vital. Furthermore, sustainability of the safety is very critical to guarantee protection of worker, the public, the environment, and future generation. To ensure sustainability of the safety is achieved, several actions shall be engaged which include borehole technology, site selection, borehole design, disposal container design, capsule design, selection of material for disposal container and capsule, type of cement used in borehole, welding technology, type of radionuclides to dispose of, quality assurance and public acceptance. This paper will enlighten what actions had been taken to ensure the sustainability in safety for Malaysia first borehole disposal of DSRS

Primary author: Dr YUSOF, Mohd Abd Wahab

Co-authors: Dr IBRAHIM, Mohd Zaidi; Mr KANG, Wee Siang

Presenter: Dr YUSOF, Mohd Abd Wahab

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