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Geospatial approaches for sustainable management of NORM disposal

This paper presents the study of a geospatial approach for improving the NORM disposal suitability siting assessment in a growing urban environment. The increasing trend of land use and population growth, as well as the absolute amounts of NORM, accumulated in Malaysia substantially reflecting lower chances selection of disposal or storage NORM. NORM associated with industrial activities involving minerals and raw materials can exist in various forms. In this context, the stakeholders have to make decisions taking into consideration environmental safety and economic practicality. The NORM disposed by the generator should follow AELB regulation as stated in criteria for siting of disposal facility for waste containing Naturally Occurring Radioactive Material (NORM). Concerning about industrial environment and health aspects of people, a strategic method of NORM disposal management and appropriate technologies needed by using GIS applications for the selection of economically suitable disposal sites. The purpose of GIS was to perform GIS modeling with overlay geoprocessing to discover the suitability site for NORM disposal.

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