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CHALLENGES FOR SAFETY REVIEW AND ASSESSMENT OF EXTRACTION OF RARE EARTHS FROM TIN SLUDGE -RICH DEPOSITS IN INDONESIA

Currently Indonesia are in pilot project phase extraction of rare earths from tin sludge-rich deposits which conducted in PT TIMAH, Bangka island, the own government company cooperation with BATAN, expecting to produce rare earth with industrial grade. The design of pilot plant is critical aspect for review and assessment, that it must be in minimum radioactive concentrate release to environment. The management of extraction sludge trinatrium phosphat that contain high Uranium and thorium concentration must comply with safety and security requirement. The review and assessment of radiation protection program have already conducted with NBD dose constrain limitation. Mapping of Hazard from based on extraction process was concerned. Transport material especially for sludge contain Uranium and thorium must comply with safety regulation. The complexity and size of the installation will also have impact on the implemented in physical protection. The organization management of review and assessment provides an approach to meets the safety requirements needed.

Key Words:pilot project, tin sludge-rich deposits , Mapping of Hazard, physical protection

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