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Gamma and Neutron Spatial Distribution Doses in Radioactive Waste Storage Facility

Monitoring and dose assessment of external radiation for a radioactive waste storage facility in the Malaysian Nuclear Agency (Nuklear Malaysia) is part of Class G license requirement under the Malaysian Atomic Licensing Energy Board (AELB). The objectives of this paper are to obtain the distribution of radiation dose, create a dose database and generate a dose map in the waste storage facility after the rearrangement of waste packages and DSRS performed in 2021. The radiation dose measurement is important to fulfil the radiation protection program to ensure the safety of the workers. The result shows that the ALARA concept alongside time, distance and shielding principles shall be adopted to ensure the dose for the workers is kept below the dose limit regulated by AELB which is 20 mSv/year for radiation workers. This study is important for the improvement of the safe operation of Nuklear Malaysia as the national radioactive waste management organization.

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