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THE MANAGEMENT OF TECHNOLOGICALLY ENHANCED NATURALLY OCCURRING RADIOACTIVE MATERIAL IN THE OIL AND GAS INDUSTRY

Every radiation aid in the industrial sector needs careful supervision to always get a safety permit in accordance with the region radiation. It does not need radiation hazards to workers, the community and the environment. In order to avoid the risk of negative risks posed by Tenorm management, BAPETEN as the supervisory body determines Tenorm components derived from natural radionuclides which have a long half-life, to be carried out through BAPETEN legal assistance. The types of mining activities that Tenorm intervenes need to do, one of which is oil and gas mining. This paper uses a descriptive method with data obtained from the literature obtained. The oil and gas industry has radionuclide type and concentration levels between values 0.14 ± 0.02 Bq/kg - $18.450 \pm 1,766$ Bq/kg, 0.12 ± 0.01 Bq/kg - $18\,291 \pm 1738$ Bq/kg, 0.06 ± 0.01 Bq/kg - 9507 ± 894 Bq/kg and 0.09 ± 0.01 Bq/kg - 1.545 ± 218 Bq/kg for ^{232}Th , ^{228}Th , ^{226}Ra , and ^{40}K , respectively. This, which caused the need to be made due to changes, caused by radionuclide concentrations of ^{232}Th , ^{228}Th , ^{226}Ra and ^{40}K produced and exceeded the maximum limit allowed by BAPETEN. In addition, Bapeten needs to supervise and monitor routine processes in the industry, where exposure to external radiation from radionuclides can cause several environmental and health problems for workers and living things associated with them.

Keywords: nuclear safety, Tenorm, intervention, BAPETEN, supervision

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