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The Implementation of International Practices on NORM Management by National Policy and Strategy of Nuclear and Radiation Safety - An Indonesia's Regulatory Perspective

The main NORM issue in Indonesia originally is found in oil and minerals mining. NORM may pose risk to workers, public, or the environment. Therefore some NORM materials require radiation control and regulation. Most of NORM residues in Indonesia are regarded as associated minerals and treated as waste. Main mineral industries are not entitled to possess the associated minerals which contain radioactive materials according to the national regulation. This paper outlines Indonesia's experience in the development of policy and strategy, and its goals of establishing common guidance for NORM management.

The IAEA GSR Part 3 has established requirements for NORM industries, which can be used for this purpose. The IAEA GSR Part 3 also establishes radiation protection requirements for NORM industries in planned and existing exposure situations.

The Act No.4 Year 2009 on Mineral and Coal doesn't regulate further provision regarding the possession of the associated minerals which contain radioactive minerals or NORM residues. To settle down this issue, national policy was established. The newest regulation that elaborates the NORM and TENORM is Presidential Regulation No. 60 Year 2019 on National Policy and Strategy of Nuclear and Radiation Safety. Moreover there are many drafts of legislation and regulation already being well prepared or still under discussion and encourage to be harmonized with the IAEA GSR Part 3.

Presidential Regulation No. 60 Year 2019 is implemented through 4 (four) major groups, including: developing management information systems, increasing the effectiveness for regulatory of nuclear and radiation safety, increasing coordination between ministries/non-ministerial government agencies, and developing facilities and infrastructure to support regulatory of nuclear and radiation safety.

The implementation of the Presidential Regulation No. 60 Year 2019 in the local government level which is regarded as the best practice for NORM management, is Provincial Regulation of Bangka Belitung Islands No 1 Year 2019 on Management of Associated Minerals Products and Residues of Tin Mining in Province of Bangka Belitung Islands and Governor Regulation of Bangka Belitung Islands No 28 Year 2019 on Implementation Regulation of Provincial Regulation of Bangka Belitung Islands No 1 Year 2019 on Management of Associated Minerals Products and Residues of Tin Mining in Province of Bangka Belitung Islands.

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