

Challenges on Security Infrastructure for Decommissioning of Nuclear Facilities in Indonesia

An assessment of regulatory infrastructure has been carried out to ensure the security in decommissioning of nuclear facilities in Indonesia. Indonesia have many nuclear facilities, but none of them have implemented decommissioning. Indonesia only have a little experience in the decommissioning of the nuclear-related facility (Phosphoric Acid Purification facility owned by PT. Petrokimia Gresik). However, the nuclear facilities in Indonesia are aged more than 30 years. In fact, the first nuclear reactor in Indonesia that located in Bandung has been operated for more than 50 years. So, the decommissioning activities may take place in the not-too-distant future. Many attentions have been given on the safety of the decommissioning regulations. However, the attention on how to ensure the adequacy of security infrastructure on every steps of decommissioning in Indonesia is still low. Hence it is important to evaluate and improve the decommissioning security infrastructure. The method used in this assessment is to compare the existing regulations in Indonesia with various IAEA standards and guidance. Based on this gap analysis it can be concluded that there are several challenges on the security aspect on the decommissioning of nuclear facility including the need for national policy on the security of decommissioning and regulation that guarantees the funding of security infrastructures on long decommissioning. Some guidelines also need to be developed, such as: the establishment of proper security plan based on every decommissioning steps, the implementation of a graded approach on the security of decommissioning, ensuring information security, cybersecurity, transport security, and how to prevent insider threat during decommissioning.

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