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Regulatory Inspection Strategy During Decommissioning Action of Reactor Research in Indonesia

Abstract
Indonesia has three research reactors that are TRIGA 2000 Bandung (2000 kW), TRIGA Kartini Yogyakarta (100 kW), and Multi-Purpose Reactor RSG GAS (30 MW), which is operated by the National Research and Innovation Agency (BRIN). Those reactors were old, with a service life of more than 25 years, so the decommissioning option must be considered. The regulatory body should prepare and establish the regulatory inspection strategy during decommissioning action of research reactors in Indonesia based on the decommissioning option of that chosen operating facility. BAPETEN's regulation No 1 years 2017 stated that the inspection's purpose is to ensure nuclear requirements' fulfillment. The regulatory inspection strategy during nuclear decommissioning is a particular regulatory inspection program to continue regulatory approval based on a legal framework. The regulatory body must perform an appropriate inspection to verify that research reactors continue to comply with the conditions of the final decommissioning plan. The emphasis of regulatory inspection concerned essential inspection items, particularly for the activation material, nuclear waste consideration, radiation protection, the release of radioactive materials, and other safety issues. Finally, the appropriate regulatory inspection strategy can be implemented and established in Indonesia's regulation.
Keywords: Regulatory Inspection, Decommissioning, Research Reactors, Regulatory Body.

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