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Safeguards by Design for the Indonesian Experimental Nuclear Power Reactor - A case study

Indonesia has always developed the use of nuclear energy for peaceful only. Related to the fullfillment of national energy policy, Indonesia plans to build nuclear power plants on a small power scale. Type reactor to be selected is Pebble Bed Reactor. Since Indonesia as a signatory state to the Comprehensive Safeguards Agreement in 1980 and its Additional Protocols for Safeguards Agreement in 1999, SSAC system has been implemented in the existing nuclear facilities. Further more in the new-build reactor development plan should consider a regulatory basis and practical strategy of Safeguards by Design from the beginning of the projects. In this paper will discuss the preparation of safeguards by design for Pebble Bed Reactor including the challenges in implementation of safeguards by design in the country. More detail analysis will focus on explanation safeguards by design in the existing regulatory system such as regulations, licensing and inspection activities and expanding the regulatory needs in the future.

Which ”Key Question” does your Abstract address?

NEW3.4

Which alternative ”Key Question” does your Abstract address? (if any)

NEW3.5

Topics

NEW3

Primary author: Mr RISMAWAN, Danung (Nuclear Energy Regulatory Agency (BAPETEN))

Co-authors: Mr KUSBANDONO, Kusbandono (BAPETEN - Indonesia); Mr SUHARYANTA, Suharyanta (BAPETEN - INDONESIA)

Presenter: Mr RISMAWAN, Danung (Nuclear Energy Regulatory Agency (BAPETEN))

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