

The development of requisite infrastructure and frameworks for effective and efficient decommissioning in Ghana; an ambitious nuclear power plant implementation Country

The vision of expanding the peaceful application of nuclear science and technology in tandem with international regulations and requirements such as the International Atomic Energy Agency's Fundamental Safety Principles and General Safety Requirements has led to the passage of the Nuclear Regulatory Authority Bill 2014 by the Parliament of Ghana in August 2015. This has culminated in the decoupling and establishment of the Nuclear Regulatory Authority from the Ghana Atomic Energy Commission (GAEC). The Bill has stipulated the essential regulatory framework and infrastructure for effective and efficient decommissioning in Ghana. Ghana has decommissioned her 30kW research reactor and has successfully repatriated all the relevant components to the manufacturer. Therefore, Ghana does not have legacies from the application of nuclear science and technology except for disused sealed radioactive wastes. This paper highlights some vital aspect of decommissioning processes including decommissioning plan, financing of decommissioning, obligations of an authorized person for decommissioning, and decommissioning of nuclear facilities. The actualization of this bill will ensure that Ghana's current and future nuclear energy activities will be conducted in a safe, secure, and sustainable manner.

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