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Remediation and Retrieval of Legacy Radioactive Waste Stored at Sewaqa Site in Jordan

The Radioactive Waste (RW) stored at Sewaqa legacy site was of particular concern to Jordan Atomic Energy Commission (JAEC), since its storage conditions does not meet some of the applicable national legislation requirements and internationally recognized safety standards on safety and security of RW. In order to eliminate these deficits and to achieve full compliance with the requirements of the national legislations, the stored RW from the Storage pit at Sewaqa site were retrieved, reconditioned and repackaged into new 200 L drums and transferred to the Centralized Storage Facility (CSF) at JAEC headquarter for long term storage. The used remediation procedures as well as the safety and security measures that were employed while executing the RW retrieval and remediation are described. No incidents or accidents occurred during the project's implementation and sources were successfully moved to the CSF. The safety and radiation protection aspects pertaining the implementation of retrieval and removal of RW stored at Sewaqa site were fully employed. Security measures involving the implementation of the Security Plan were enforced and well employed. The retrieved RW was accepted for long term storage at the CSF and added to the national inventory of the CSF.

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