

## **Characterization and Conditioning of Sealed Disused Radioactive sources in Ethiopia**

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### ***Abstract***

When sealed radioactive sources are no longer in use, it should be repatriated to the country of origin based on the agreement made during pre-import license request. However, most of them could not be returned to the origin; therefore, disused sealed radioactive sources (DSRS) have to be managed locally to ensure the safety and security for long term storage. The Ethiopian Radioactive Waste Management facility, under Ethiopia Technology Authority, is authorized to operate the treatment, conditioning and storage of DSRS in the Country. This paper will describe the operational procedures on characterization technique, identification of unknown sources, conditioning, registration and record keeping of DSRS. The registration and record keeping of DSRS has been developed, and the national inventory of stored DSRS has been made up to date.