

5.1.6 Characterization and Monitoring of Radioactive Waste, Waste Forms and Waste Packages

This NE Series document will integrate safety and technical information on technologies for characterization and monitoring of radioactive waste, waste forms and waste packages. The document will take into account distinct methodologies for characterization that is required for every pre-disposal waste management step, starting with raw waste, treated waste and conditioned waste. The new publication will supersede 8 IAEA technical documents, namely TECDOC-1537, TECDOC-1515, TRS-434, TECDOC-959, TRS-383, TRS-864, TRS-376 and TECDOC 680 published in period from 1992 to 2006 into one consistent handbook on the subject matter for designers, operators and regulators. The objective of this document is to provide state of the art guidance to MS, to align technical information with safety assessment needs, to provide operating experience and lessons learned and to have adequate basis for development of training material required for technology transfer to less developed Member States.

The new publication should be prepared in period from 2010-11 and implemented to Member States as training material for technology transfer in 2012/13. Responsible officer is Mr. Antonio Morales Leon (A.Morales-Leon@iaea.org).

The following documents (titles and numbers in the table below) are proposed to be consolidated, updated and organized as a NE Series document:

Sl. no.	Report No.	Yr	Report Title
1	TECDOC-1537	2007	Strategy and methodology for radioactive waste characterization
2	TECDOC-1515	2006	Development of specifications for radioactive waste packages
3	TRS-434	2005	Methods for maintaining a record of waste packages during waste processing and storage
4	TECDOC-959	1997	Inspection and testing in conditioning of radioactive waste
5	TRS-383	1997	Characterization of radioactive waste forms and packages
6	TRS-864	1996	Requirements and methods for low and intermediate level waste package acceptability
7	TRS-376	1995	Quality assurance for radioactive waste packages
8	TECDOC-680	1992	Quality assurance requirements and methods for high level waste package acceptability