

5.1.4 Conditioning of Low and Intermediate Level Liquid, Solidified and Solid waste

This NE Series document will integrate safety and technical information on technologies for conditioning of low and intermediate level liquid, solidified and solid waste and it will include Immobilization in cement, bitumen,, polymer, glass, etc as well as packaging . The new publication will supersede 15 IAEA technical documents, namely TECDOC-1579, TRS-456, TRS- 427, TRS-421, TECDOC-1371, TRS-408, TECDOC-1183, TECDOC-1051, TECDOC-972, TECDOC 689, TRS-355, TRS-352, TRS-350, TECDOC 656, and TECDOC 655 published in period from 1992 to 2007 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 2010-12 and implemented to Member States as training material for technology transfer in 2013/14. 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-1579	2007	New developments and improvements in processing of 'problematic' radioactive waste
2	TRS-456	2007	Retrieval and conditioning of solid radioactive waste from old facilities
3	TRS- 427	2004	Predisposal management of organic radioactive waste
4	TRS-421	2004	Management of waste containing tritium and carbon-14
5	TECDOC-1371	2003	Selection of efficient options for processing and storage of radioactive waste in countries with small amounts of waste generation
6	TRS-408	2002	Application of ion exchange processes for the treatment of radioactive waste and management of spent ion exchangers
7	TECDOC-1183	2000	Management of radioactive waste from the use of radionuclides in medicine
8	TECDOC-1051	1998	Management of radioactive waste from ⁹⁹ Mo production
9	TECDOC-972	1997	Technologies for in situ immobilization and isolation of radioactive wastes at disposal and contaminated sites
10	TECDOC-689	1993	Treatment and conditioning of spent ion exchange resins from research reactors, precipitation sludges and other radioactive concentrates
11	TRS-355	1993	Containers for packaging of solid low and intermediate level radioactive wastes
12	TRS-352	1993	Bituminization processes to condition radioactive wastes
13	TRS-350	1993	Improved cement solidification of low and intermediate level radioactive wastes
14	TECDOC-656	1992	Treatment and conditioning of radioactive organic liquids
	TECDOC-655	1992	Treatment and conditioning of radioactive solid wastes
15	TRS-289	1988	Immobilization of low and intermediate level radioactive

			wastes with polymers
16	TRS-254	1985	Treatment of spent ion-exchange resins for storage and disposal
17	TRS-222	1983	Conditioning of low- and intermediate-level radioactive wastes
18	TECDOC-238	1981	Management of spent ion-exchange resins from nuclear power plants
19	TRS-116	1970	Bituminization of radioactive wastes