

Highlights of IAEA Activities to support Radioactive Waste Management



Didier LOUVAT



The IAEA Safety Standards

Fundamentals Requirements and Guides



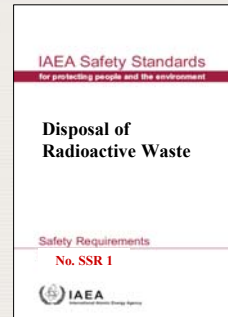
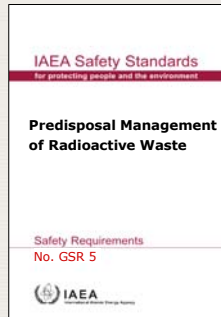
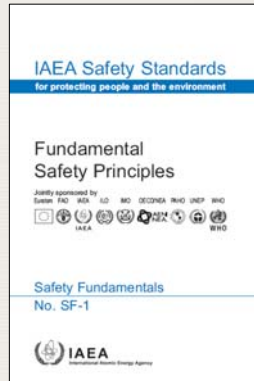
Technical documents



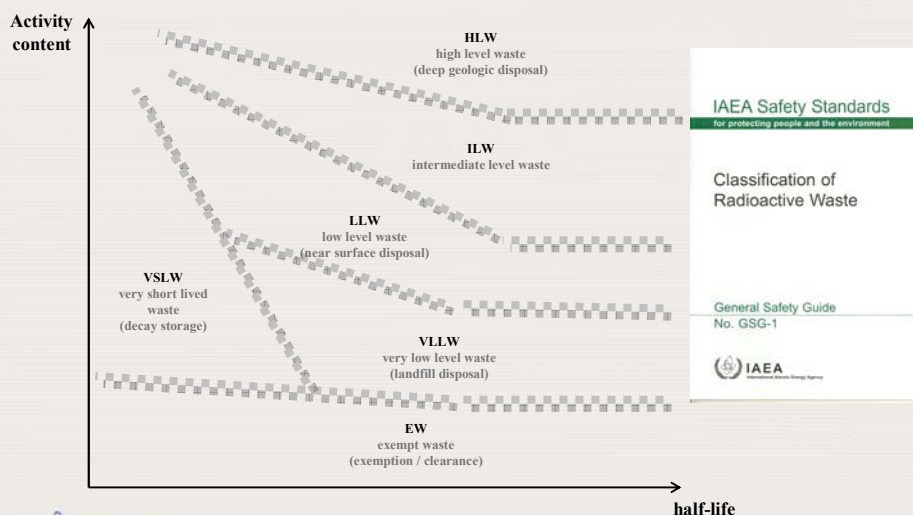
Reviews; Assessments; Intercomparisons



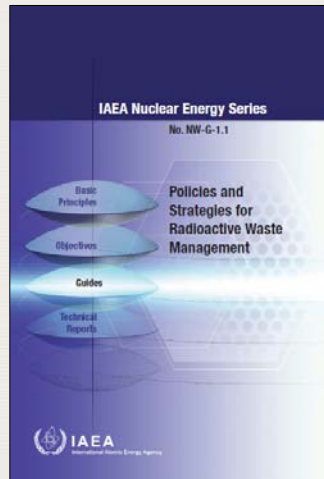
Essentials for RadWaste Management



Waste Classification Scheme



Policies and Strategies



- Regional exercises
- National workshops



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Inventory of Radioactive Waste



A Tool to prepare your Joint Convention Report



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Networking

International Low-Level Radioactive Waste Disposal Network (DISPONET)

Following the growing demand from Member States for assistance in disposal of low and intermediate level radioactive waste, a network has been established to increase efficiency in sharing international experience in the area. DISPONET is intended to bring together those planners, developers and operators of disposal facilities who wish to steadily improve international practices and approaches in managing low and intermediate level waste.

Responsible Officer: [LUTZ NACHSTROMER](#)

OBJECTIVES OF THE NETWORK

- To coordinate support to organizations or Member States with less advanced programmes for disposal of low-level waste, by making available the relevant skills, knowledge, managerial approaches and expertise from Member States with operating disposal facilities;
- To organize an expanded range of training and demonstration activities with a regional or thematic focus providing hands-on, user-oriented experience and disseminating proven technologies;
- To facilitate sharing and exchange knowledge and experience amongst organizations with advanced designs and disposal facilities in operation, in pursuit of good practices, identifying and treating minor past practices and ensuring the longer term knowledge management in support of post closure safety and monitoring of facilities; and
- To create a forum in which expert advice and technical guidance may be provided on the Agency programme in the area of low-level waste disposal.

Waste disposal in Morsleben, Germany (Credit IAEA)

HLW repository at Cabri, Spain (Credit IAEA)



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IAEA Networks in RWM

- Decommissioning – [International Decommissioning Network \(IDN\)](#)
- Environmental Remediation – [ENVIRONET](#)
- Underground Research Laboratories for Geological Disposal of HLW – [URF Net](#)
- Near-surface disposal – [DISPONET](#)
- Waste Characterization – [LABONET](#)



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Safety Assessment methodology

The screenshot shows the IAEA website page for Environmental Modelling for Radiation Safety (EMRAS). The page title is "Environmental Modelling for Radiation Safety" and the sub-heading is "EMRAS - Environmental Modelling for Radiation Safety". The text describes the EMRAS Programme, which was launched at its first combined meeting in Vienna in 2003. It focuses on areas where uncertainties remain in the predictive capability of environmental models, particularly in relation to the consequences of releases of radionuclides to particular types of environment (e.g. urban and aquatic environments) restoration of sites with radioactive residues and impact of environmental radioactivity on non-human species.

Five Combined Meetings of the EMRAS Programme were held at the IAEA's Headquarters in Vienna:

First Combined Meeting	1 to 5 September, 2003	78 participants	from 24 countries
Second Combined Meeting	9 to 11 November, 2004	94 participants	from 24 countries
Third Combined Meeting	21 to 25 November, 2005	106 participants	from 33 countries
Fourth Combined Meeting	6 to 10 November, 2006	101 participants	from 32 countries
Fifth Combined Meeting	5 to 9 November, 2007	99 participants	from 30 countries

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Building modellers confidence

- **SADRWMS** - Safety Assessment Driving Radioactive Waste Management Solutions
- **PRISM** - Practical Illustration and Use of the Safety Case Concept in the Management of Near-Surface Disposal
- **GEOSAF** - Safety Case and Safety Assessment for Geological Disposal
- **EMRAS II** - Environmental Modelling for Radiation Safety
- **FaSa** - Use of Safety Assessment Results in the Planning and Implementation of Decommissioning



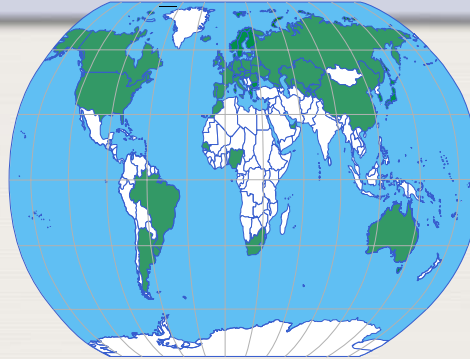
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Peer Reviews

- The Joint Convention
 - Self assessment
 - Peer Review process



- Review Services
 - Based on IAEA Safety Standards
 - Joint EC-IAEA-Ukraine project (15 WWERs Units) 2008-2009

