



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

INIS Bibliography

A Selection of Records from the International Nuclear Information System

**International Conference on the Management of
Spent Fuel from Nuclear Power Reactors:
*Meeting the Moment***

10–14 June 2024, Vienna, Austria

1 Addressing Challenges in Managing Radioactive Waste from Past Activities

<https://inis.iaea.org/search/55021606>

International Atomic Energy Agency (2024). Addressing Challenges in Managing Radioactive Waste from Past Activities (IAEA-TECDOC--2039). International Atomic Energy Agency (IAEA)

Abstract:

The publication aims to support the safe and effective management of radioactive waste from past activities by presenting focused information on the specific challenges associated with such waste and providing guidance on how to develop and implement strategies to address those challenges. The main objective is to describe typical characteristics of legacy wastes and identify the major challenges to their safe management. In support, information gained through analysis of varied experiences, case studies, good practices and lessons learned are given, aiming to provide guidance on strategies for Member States to overcome these challenges, successfully manage their existing legacy waste inventories, and minimize the risk of their creation in the future. The information provided will be of interest to the waste management community, particularly to those responsible for the safe and effective management of radioactive waste from past activities in their respective countries.

2 Considerations for the Back End of the Fuel Cycle of Small Modular Reactors. Proceedings of a Technical Meeting

<https://inis.iaea.org/search/55013972>

International Atomic Energy Agency (2023), IAEA TECDOC 2040

Abstract:

With an increasing interest in Small Modular Reactors (SMRs) and their applications, a Technical Meeting on Considerations for the Back End of the Fuel Cycle of Small Modular Reactors was organized in September 2022 to facilitate the exchange of information and discussions to enable experts to collaboratively identify the opportunities and challenges faced at all stages needed for managing the spent fuels from different SMR technologies (e.g. storage, transportation, reprocessing and recycling, and disposal), the gaps in current infrastructure and the knowledge required to ensure an integrated approach to the overall spent fuel management strategy, as well as the potential ways to move forward in addressing them in the near, medium and long terms. This TECDOC presents the proceedings, session summaries and conclusions of the Technical Meeting, as well as the 27 extended abstract/full papers presented at the meeting.

3 EURAD Domain Insight (2.2.4) - Storage, Domain Insight: Package waste accounting for future transport and deposition, and maintain safe interim storage of packages (Storage)

<https://inis.iaea.org/search/55006331>

European Joint Programme on Radioactive Waste Management, Brussels (Belgium) (2023). EURAD Domain Insight (224)

Abstract:

Storage is an essential component of the radioactive waste management (RWM) lifecycle and provides a safe, secure environment for waste, materials and spent fuel awaiting treatment, conditioning or packaging, and for packaged waste awaiting final disposal. The objective of this overview document is to provide guidance focused on storage issues in the pre-disposal stage of waste management. National policy decisions influence the waste management strategy and requirements for storage of radioactive waste (RW) and spent fuel. If disposal facilities are already available, storage may only be required for short timescales or smaller volumes of waste. However, currently many EU member states (MS) require interim storage of significant proportions of their RW, depending on the end point of the waste. The end point could include recycling, treatment, reprocessing or deposition in a near-surface disposal facility or deep geological repository (DGR). Some EU MS consider that nuclear materials such as uranium, plutonium and spent fuel could be a future asset and are storing them to keep options open while technologies are developed or implemented. Some MS already have a closed fuel cycle and reprocess spent fuel, extracting the uranium and plutonium for reuse in MOX fuel and storing the resulting vitrified high-level waste (HLW), while others have an open, or once-through, fuel cycle, where the spent fuel is placed into storage while awaiting disposal. Storage duration ranges from several years up to over 100 years

4 Probabilistic Safety Assessment Benchmarks of Multi-unit, Multi-reactor Sites: Final Report of a Coordinated Research Project

<https://inis.iaea.org/search/55031498>

International Atomic Energy Agency (2024), IAEA TECDOC 2044

5 Operating Experience from Events Reported to the IAEA Incident Reporting System for Research Reactors

<https://inis.iaea.org/search/55026683>

International Atomic Energy Agency (2024), IAEA TECDOC 1762

6 Experiences of the Development, Review and Communication of Safety Cases and Safety Assessments for Near Surface Disposal of Radioactive Waste

<https://inis.iaea.org/search/55024016>

International Atomic Energy Agency (2024), IAEA TECDOC 2041

7 Last operating cycles for a BWR with control rod patterns *(Spanish)*

<https://inis.iaea.org/search/55009048>

Mexico, 2023

8 Assessment of Post-irradiation Examination Techniques for Advanced Reactor Fuel and Materials. Report of a Technical Meeting.

<https://inis.iaea.org/search/55016526>

International Atomic Energy Agency (2024), IAEA TECDOC 2035

9 Roadmap for Implementing a Geological Disposal Programme

<https://inis.iaea.org/search/54054472>

International Atomic Energy Agency (2024), IAEA Nuclear Energy Series NW-T-1.43

10 Milestones in the Development of a National Infrastructure for Nuclear Power

<https://inis.iaea.org/search/54091862>

International Atomic Energy Agency (2024), IAEA Nuclear Energy Series NW-T-1.43

11 The NEA Small Modular Reactor Dashboard: Second Edition

<https://inis.iaea.org/search/55024235>

Organisation for Economic Co-Operation and Development, Nuclear Energy Agency - OECD/NEA (2024)