

**Working Group 4:  
The challenges raised by wastes and how to overcome?**

**Recommendations**

18. EAN Workshop ALARA for Decommissioning and Site Remediation,  
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## Strategic issues:

- **Choosing a decommissioning strategy** means choosing a waste management strategy. **Mixtures of strategies**, like decay storage of large components, can be advantageous in view of ALARA.
- Consider using rooms and facility areas **inside the facility** under decommissioning as storage facilities in order to **minimize transports**.
- When setting up criteria for evaluation it is important to clarify the **weighting of the criteria** (important – less important):
  - Technical
  - Environmental
  - Economical
  - Social
  - ...
- **Framework conditions for residual materials management** in different countries (e.g. France zoning and Germany clearance) should be compared in view of ALARA (not only in view of waste / material streams).
- Improve **cooperation between countries** regarding use of existing waste management facilities. This can increase flexibility.

## Technical and procedural issues:

- **Waste acceptance criteria** for a repository should be in place before conditioning of waste. If not available, packaging should be done in a way that allows **easy re-packaging** with low dose for the workers.
- **Good documentation** of waste packages and keeping of information and knowledge is part of the ALARA-procedure.
- Lowering doses below ALARA can increase **other (conventional) risks**. The ALARA principles **should be applied for individual doses** instead of collective doses. How to **compare real short-term doses with potential long-term doses** when choosing a strategy?
- Use of **remote techniques for inspections and maintenance in storage facilities** might have a high potential for dose reduction in the long-term. Evaluate the possibility for **self-shielding of waste packages** in storage facilities.