

Forth Annual Meeting of the IAEA FaSa Project

21 – 25 November 2011

International Atomic Energy Agency, Vienna

4. Plenary Discussion of Chapter 2 – Overall Concept of the FaSa Methodology – Introduction –

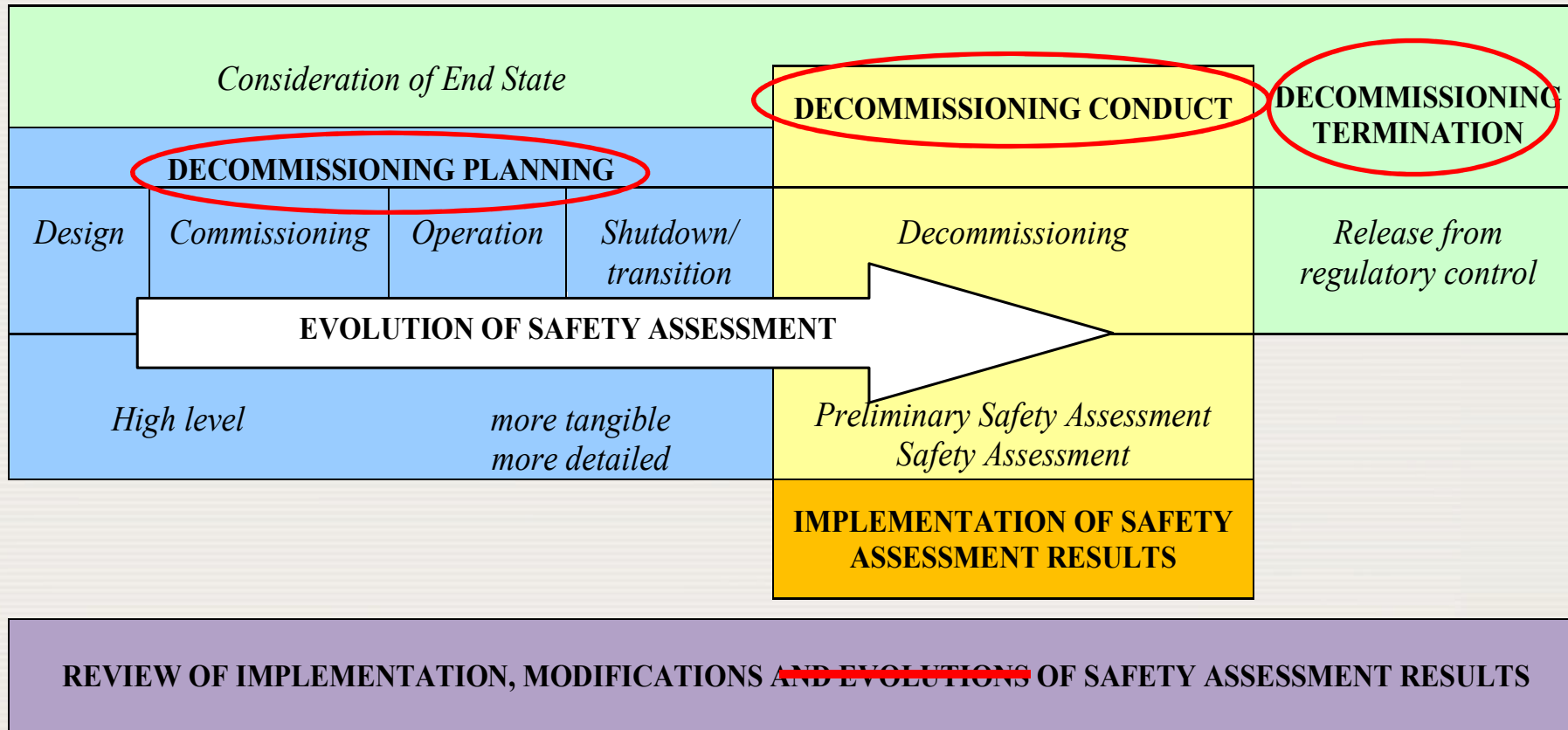
J. Kaulard, Germany



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Three Periods of the FaSa Methodology



Three Periods of the FaSa Methodology

- **Decommissioning planning** covers mainly
 - work to plan and prepare decommissioning,
 - strong focus on ensuring safe decommissioning and application for a decommissioning license / approval
 - final safety assessment
 - overarching safety assessment
 - typically performed during siting, design, construction, operation and transition
 - in case of multiphase approach
 - work related to applying for several licenses / approvals may be done also during the conduct period

Three Periods of the FaSa Methodology

- **Decommissioning conduct** mainly covers
 - performance of the decommissioning activities according to the final decommissioning plan, including
 - elaboration of work plans of a detail, which is much higher than that which may be required for the licensing process
 - further more detailed consideration of safety issues than outlined during the licensing process.
 - covers also aspects on decommissioning planning in case of multiphase decommissioning projects especially if the approach to decommissioning changes as it progresses
 - with respect to the time: covers also what is described in “Decommissioning Implementation”

Three Periods of the FaSa Methodology

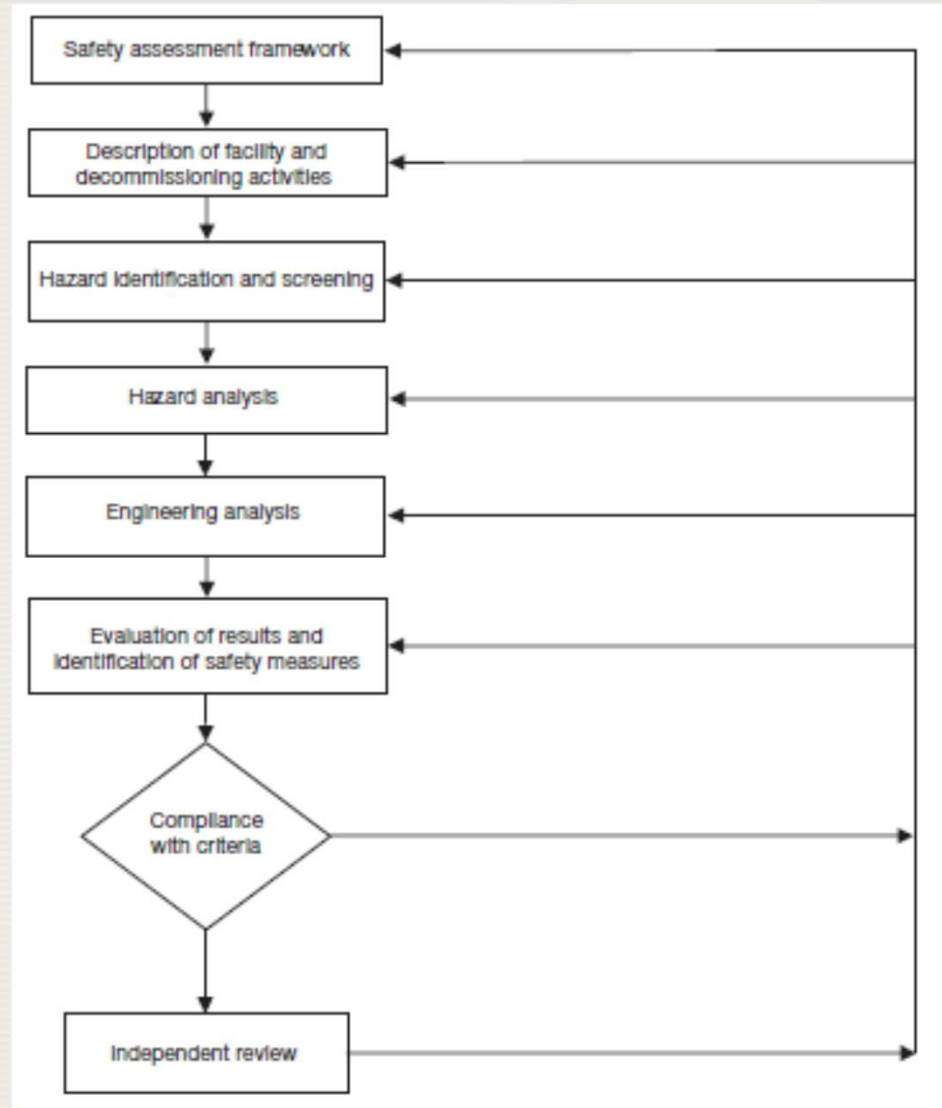
- **Decommissioning termination** covers
 - all work activities related to the release of the site, remaining buildings and the overall release from regulatory control.
 - for that, it has to be demonstrated and agreed that the end-state described in the final decommissioning plan has been achieved.
 - within FaSa, the content of decommissioning termination is limited to the release of sites and remaining buildings from radiological regulatory control.

Safety Assessment for Decommissioning

- In a single-phase decommissioning project
 - **decommissioning conduct** starts only, if a final safety assessment is available (as part of the application documents)
 - final safety assessment **prepared** during **decommissioning planning**
 - aspects of an overarching safety assessment (overall view on safety for the entire decommissioning project) is covered by the final safety assessment
 - safety assessment follows IAEA requirements and guides

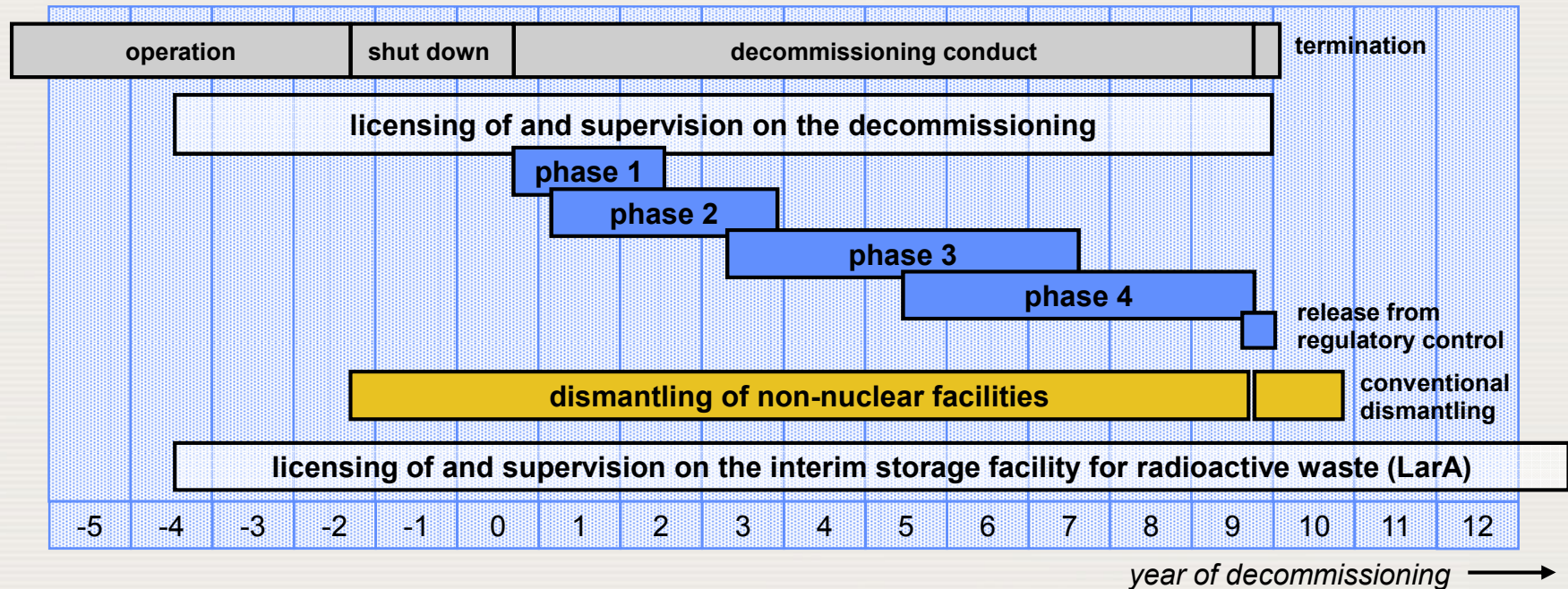
Safety Assessment for Decommissioning

- DeSa Safety Assessment Methodology



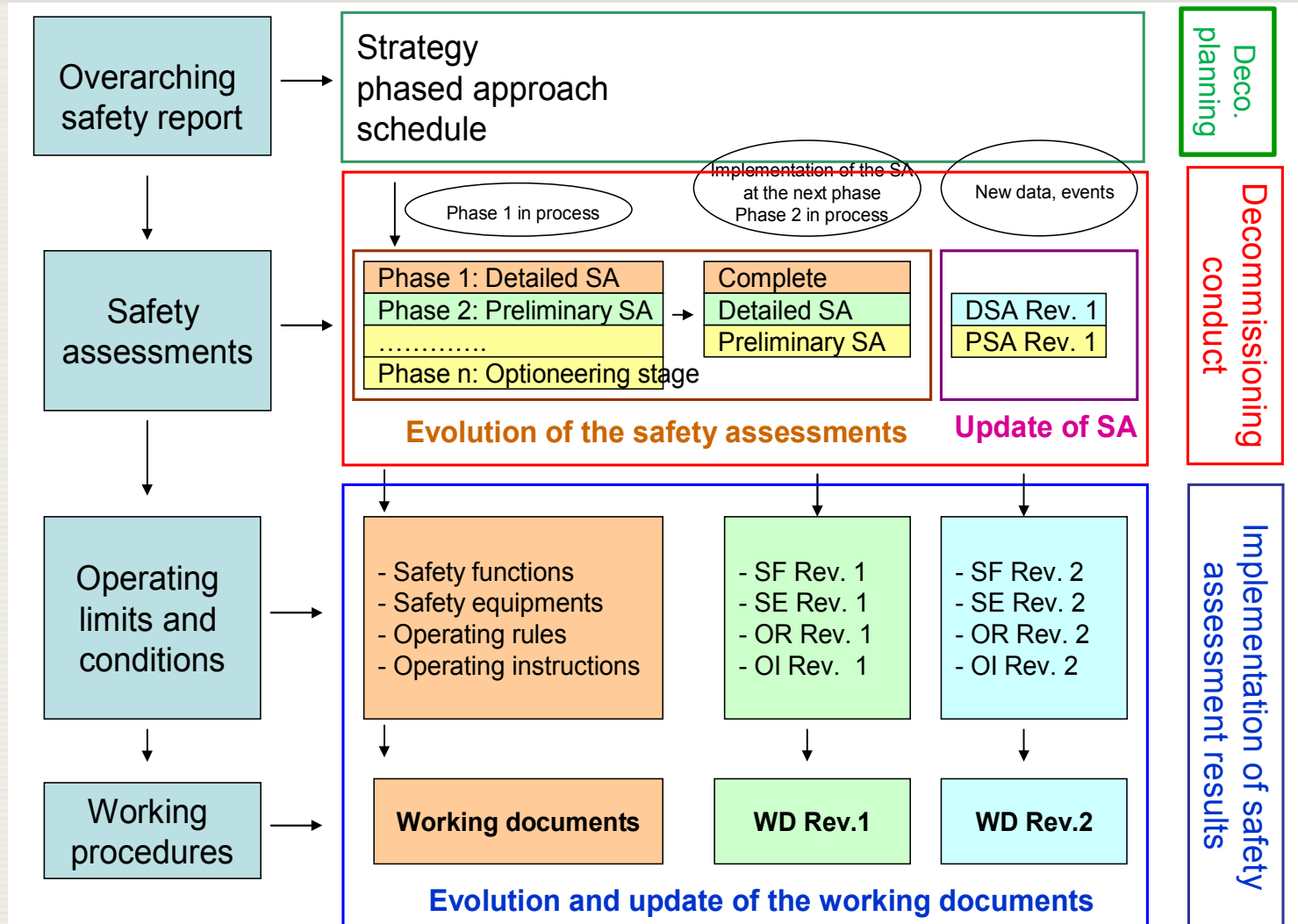
Safety Assessment for Decommissioning

- Example for a multiphase decommissioning project



- each phase requires a final safety assessment
→ **explanations** on how to prepare are presented in **decommissioning conduct**

Safety Assessment for Decommissioning



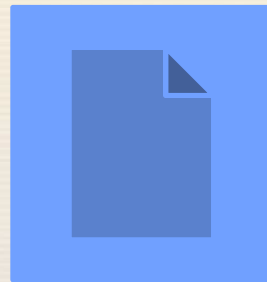
Decommissioning Termination

- In general: several IAEA documents exist on termination, especially on clearance and release of sites and related documents
- FaSa
 - sets process of termination into context with
 - decommissioning planning
 - decommissioning conduct
 - decommissioning implementation
 - provides explanations on the application of documents
 - provides national examples on safety assessments related to clearance and release of sites

Review of Implementation

- Topics addressed
 - **Review** of the **Implementation of Safety Assessment** Results in the Final Decommissioning Plan
 - **Review** of the Implementation of Results from **Changes to the Safety Assessment**
 - Periodic Safety Reviews
No Periodic Safety Review needed, if **safety assessment is subject to review and revision** as described in the FaSa methodology
 - Member State Experiences/Approaches to Reviewing SA Implementation Results

**Thank you for your attention
&
and let's discuss the current chapter 2!**



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