**EURAD Training Course**

**on application of requirements management systems**

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| Tuesday (16/01/2024) - *General* |
| 09:00-10:30 | Training session 1* Introduction + Objectives of the training course (TBA)
* Radioactive Waste Management: Life cycle from cradle to grave (Lecturer TBA)
	+ Rad waste streams include materials that may not be there yet but could be in the planning, be aware of implications for the back-end of the cycle
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| 10:30-11:00 | Coffee break |
| 11:00-12:30 | Training session 2* Overview of WM planning instruments and role of RM Systems (Lecturer TBA)
	+ Roadmap as an integral part of the RMS (example of Nagra)
	+ Refer to INCOSE reports, as example
* Requirements Management System in different stages of Radioactive Waste Management (Lecturer TBA)

*Key messages: it is important to see how the system evolves with time, not a linear system. What are the issues/challenges? Plan the system so that it is flexible and it accepts changes and future iterations; each country has or will end up with their own RMS, depending on regulations, historical context, stakeholder expectations etc* |
| 12:30-13:30 | Lunch |
| 13:30-15:00 | Training session 3* RMS guidance documentations
	+ Disposal System-RMS, Topic A (Post-closure) RMS, Topic B (RMS implementation for the whole WM programme)
	+ *Key messages: there are slides available from the WP 12 workshops (for those who did not attend)*
* Results of the literature survey on requirements management system (Peter Ormai)
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| 15:00-15:30 | Coffee break |
| 15:30-16:30 | Training session 4* Topical Guide A (post-closure) presentation
* Piet will make an appendix to show how the system evolves with time

*Example: the SNF canister and its surrounding*many requirements, conflicts, supply chain, production and installation |
| 16:30-17:00 | Test/Practice for day I |
| Wednesday (17/01/2024) – *Practical implementation of the* e*xample: the SNF canister and its surrounding* |
| 9:00 – 9:30 | Questions/clarification needs from the previous day |
| 09:30-10:30 | Training session 5* Requirements Management Systems: Development Process (Lecturer TBA)
	+ - Constraints and boundaries (waste, geology)
		- Identification of stakeholders, their role, responsibilities and their expectations
		- Who is responsible for requirement management? (Lecturer TBA) – *how is RM embedded in various WMOs? Who is director, major counterparts, how is it working?*
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| 10:30-11:00 | Coffee break |
| 11:00-12:30 | Training session 6* Requirements Management System: Example and lessons learned from Finland (Barbara)
* Requirements Management System: Example and lessons learned from Switzerland (Piet)
* Requirements Management System: Example and lessons learned from the UK (Sarah)

*Key messages: start early and simple, identify interfaces and handle conflicts asap, different countries developed different RMS, use the experience from senior experts (historical background of requirements to be documents)* |
| 12:30-13:30 | Lunch |
| 13:30-15:00 | Training session 7* Requirements architecture (see Topical Guide A), for example:
	+ L0 mission of the programme
	+ L1 High-level goals
	+ L2 Functions
	+ L3 Targets (performance and quality targets)
	+ L4 Design requirements and specifications (what it should look like)
	+ L5 Specifications for the production
	+ L6 Verification, validation of requirements is documented along with “as built” documentation
* Division of systems and sub-systems
* Guidance for producing well-written functions, long-term ”targets”, design requirements and specifications (Lecturer TBA)

*Key messages: terminology cannot be fully unified, discuss about the long-term targets, differences with other engineering systems – cannot verify the ”targets”, dose criteria vs. targets, division of responsibilities between WMOs and designers (UK vs. Finland)* |
| 15:00-15:30 | Coffee break |
| 15:30-16:30 | Training session 8* Softwares for Requirements management – evaluation criteria for the tools and work flows
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| 16:30-17:00 | Test/Practice for day II |
| Thursday (18/01/2024) |
| 09:00-10:00 | Questions/clarification needs from the previous day |
| 10:00-11:30 | Training session 9Your RMS - Practical implementation  |
|  | Coffee break (flexible) |
| 11:30-12:30 | Training session 10Discussion, feedback and path forward, end of the training |
| 12:30-13:30 | Lunch |