EURAD Training Course on application of requirements management systems

Tuesdav (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	
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 	
	 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)	
	\circ 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)	
15:00-15:30	Coffee break	
15:30-16:30	Training session 4	
	 Topical Guide A (post-closure) presentation 	
	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 example: 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?	

10:30-11:00	Coffee break
11:00-12:30	Training session 6
	Requirements Management System: Example and lessons learned from
	Finland (Lecturer TBA)
	Requirements Management System: Example and lessons learned from broad
	experience(Lecturer TBA)
	 Requirements Management System: Example and lessons learned from the UK (Lecturer TRA)
	(Lecturer TBA)
	different countries developed different RMS, use the experience from senior experts
	(historical backaround of requirements to be documents)
12.30-13.30	
13:30-15:00	Training session 7
13.30 13.00	Requirements architecture (see Tonical Guide A) for example:
	\circ 10 mission of the programme
	\circ 11 High-level goals
	~ 12 Functions
	\circ 13 Targets (performance and quality targets)
	\sim 14 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 (Lecturer TBA)
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 9
	Your RMS - Practical implementation
	Coffee break (flexible)
11:30-12:30	Training session 10
	Discussion, feedback and path forward, end of the training
12:30-13:30	Lunch

Description

The EURAD guidance work package (WP12) aims at developing a comprehensive suite of instructional guidance documents that can be used by EU Member-States and associated countries with radioactive waste management programmes, regardless of their phase or level of advancement with implementing their waste management activities. Requirements management has been selected as the broad topic for further guides to be developed within EURAD. To effectively support the understanding of the application of RMS, a training session has been organised in collaboration with EURAD WP13 (focussed on training). The training will also provide a platform where the participants can express their views and ask questions, which will be used as feedback to finalise the guidance documents on requirement management systems applied to the overall waste management programme. The training will include the theory and principles of RMS (i.e. the way of thinking) at different phases of an WM programme, practical examples from advanced programmes and hands-on training.