

IAEA Regional Workshop on Release of Sites and Building Structures
27.09. – 01.10.2010

AGENDA

Fortbildungszentrum für Technik und Umwelt (FTU)
 KIT – Karlsruher Institut für Technologie

Monday	27.09.10		Chair
09:00	Bus transfer from ACORA Hotel in Karlsruhe to FTU in Leopoldshafen		
09:30	Welcome	KIT/FTU/IAEA	D. Schrammel
10:00	Introduction IAEA Safety Standards for the release of sites and buildings	E. Warnecke, IAEA	J. Feinhals
<i>10:45 – 11:00</i>	<i>Coffee break</i>		
11:00	IAEA and EC Regulations for Clearance of Materials and Release of Buildings and Sites Introduction and Outlook	J. Feinhals, TÜV NORD SysTec	E. Warnecke
12:00	Lunch		
13:00 – 17:30	Section A: Legal Framework – Licensing the Release of Buildings and Sites		J. Feinhals/ E. Warnecke
13:00	Overview of release regulations and alternatives <ul style="list-style-type: none"> – Examples of categorisation of radioactive wastes – Examples for national release regulations – Overview on application of listed clearance values from EC and IAEA – General tendencies in clearance regulations – Consideration of non-radioactive harmful substances 	F. Borrmann, sat science	
<i>13:45 – 14:15</i>	<i>Coffee break</i>		
14:15	Experiences from Decommissioning Projects Example for an NPP currently successfully released for unrestricted use <ul style="list-style-type: none"> ➤ Initial situation ➤ General steps for release ➤ Procedures for release of buildings ➤ Results of release of buildings ➤ Procedures for release of site ➤ Lessons learned ➤ Consequences of lessons learned 	I. Auler, NIS	

Monday	27.09.10 continued		Chair
15:00	Influence of Clearance Regulations on Decommissioning Projects <ul style="list-style-type: none"> - Grouping of materials dismantled regarding to clearance - Influence of clearance regulations on clearance of activated/contaminated components - Influence on application of decontamination techniques - Interferences between disposal facility, waste package and decontamination, and release requirements - Effects on the implementation of dismantling - Effects on costs for dismantling 	P. Petrasch, NIS	
16:00	International Experiences Each country gives a short presentation about national projects with release of sites and/or buildings	Participants	J. Feinhals/ F. Borrmann
17:30	Welcome reception	KIT/FTU	
19:00	Transfer by bus to ACORA Hotel		

Tuesday	28.09.10		Chair
08:15	Transfer by bus from ACORA Hotel to KIT Campus Süd, Karlsruhe		
08:30 – 13:00	Section B: Dismantling and Decontamination Technologies for Buildings (practical demonstration) – Decontamination, deconstruction of huge parts, decontamination of tubes, Lean Management	S. Gentes et al., KIT	D. Schrammel/ E. Warnecke
08:30 – 08:45	Introduction	S. Gentes	
08:45 – 09:15	Decontamination Technologies – Mechanical Methods	P. Kern	
09:15 – 09:45	Machine Development at TMB	J. Bremmer	
09:45 – 10:15	Contamination of Tubings	A. Aminy	
10:15 – 10:30	<i>Coffee break</i>		
10:30 – 11:00	Wire Saw Technology	D. Knecht	
11:00 – 11:30	Remote Handling / INAS	S. Reinhardt	
11:30 – 12:00	Lean Management in decommissioning of Nuclear Facilities	C. Freund	
12:00 – 13:00	Presentation of machines and techniques of TMB		
13:00	Transfer by bus to the test field in Linkenheim-Hochstetten		
13:15 – 14:00	Lunch on the test field premises		
14:00 – 16:00	Presentation of decommissioning techniques by various companies		
16:00	Transfer to ACORA Hotel		

Wednesday	29.09.10		Chair
08:00	Transfer from ACORA Hotel to FTU		
	<u>Section C:</u> Application of Measurement Technologies for Clearance of Sites		
08:30 – 12:30 10:15 – 10:45 <i>Coffee break</i>	Introduction – Measurement technologies – Application – Practical demonstration – Equipment for decommissioning: • In-situ spectrometry, gamma waste measurements, scanners, mobile systems, measurements of samples, examples of measurements and results	G. Fritz, Canberra	E. Warnecke
12:30	Lunch		
13:15 – 17:30	Release of Buildings – Practical demonstration in MZFR (multi purpose research reactor) incl. sampling procedures and procedures for the release of buildings	M. Vilgis, A. Schwämmle WAK, G. Fritz	E. Warnecke
17:00	Return by bus to ACORA Hotel		

Thursday	30.09.10		Chair
08:00	Transfer from ACORA Hotel to FTU		
	Section D: Procedures for Site Release		E. Warnecke, M. Knaack, TÜV NORD SysTec
08:30 – 10:15	Procedures for the Release of Sites (MARSSIM etc) – Classification of the area – Relevant nuclides – Radiological survey – Scaling factors (“nuclide vectors”) – Clearance values – Decontamination – Final measurements – Release decision	M. Bothe, VKTA	
10:15 – 10:45	<i>Coffee break</i>		
10:45 – 12:00	Release of Buildings and Sites at VKTA Rossendorf – Isotope production facilities – Waste water treatment facilities – Research reactors	M. Bothe	
12:00	Lunch		
13:00-14:00	Other Practical Examples – Neutron generator – Accelerators – Incandescent mantle factory	M. Bothe	
14:00-14:30	Consideration of Non-radioactive Harmful Substances (e.g. PAH, PCB)	M. Bothe	
14:30 – 15:00	<i>Coffee break</i>		
15:00-17:30	Practical Exercise (in 2 groups) Part 1: Preparation of a Release Procedure for one of the following issues – Reactor building – Radiochemical laboratory – Waste water treatment facility	M. Bothe/ M. Knaack, TÜV NORD SysTec	
17:30	Return to ACORA Hotel		

Friday	01.10.10		Chair
			M. Knaack, E. Warnecke
08:00	Transfer from ACORA Hotel to FTU		
	<u>Section E: Conclusions</u>		
08:30 – 12:00 10:15 – 10:45 <i>Coffee break</i>	Practical Exercise Part 2: Assessment Each group presents their release procedure. The other group is in the role of assessor/authority and discuss the plan.	M. Bothe, M. Knaack	
12:00 – 13:00	Final Results Discussion	M. Knaack, E. Warnecke, D. Schrammel	
13:00	Lunch		
13:30	Workshop closing session	E. Warnecke, D. Schrammel	
14:00	Transfer to Karlsruhe Central Railway Station and /or ACORA Hotel		