

**IAEA / Argonne Practical Training Course on Planning and Implementation  
of Nuclear Facility Decommissioning and Remediation of Radioactively Contaminated Sites  
May 5 - 16, 2014**

Welcome Reception in Hotel Lobby, Sunday May 4, 2014, 6:00 PM

Monday May 5	Tuesday May 6	Wednesday May 7	Thursday May 8	Friday May 9
9:00 – 9:45 Welcome and Introductions, including Safety Lecture	8:30 – 9:30 Project Planning and Management within a Lifecycle Mgmt Framework (P. Booth)	8:30 – 9:30 Introduction to Decommissioning (L. Boing)	8:30 – 9:30 Safety Assessment (D. Draper)	8:30 – 9:00 Overview of Dose and Risk Assessment (C. Yu)
9:45 – 10:45 Course Overview & Objectives (K. Smith and L. Boing)	9:30 – 10:15 Determining End States and Future Site Uses (M. MacDonell)	9:30 – 10:30 Environment, Safety & Health Issues (T. Hansen)	9:30 – 10:30 Building Characterization (T. Hansen)	9:00 – 10:30 Dose and Risk Assessment for Building Contamination: RESRAD-BUILD (C. Yu and D. LePoire)
BREAK	BREAK	BREAK	BREAK	BREAK
11:00 – 11:30 IAEA Perspectives on D&ER Barriers (P. Booth)	10:30 – 11:15 Stakeholder Engagement (P. Booth and K. Smith)	10:45 – 12:00 Cost Estimation and Contracting for D&D Projects (J. Carignan)	10:45 – 11:45 Decontamination Technologies (R. Demmer)	10:45 – 11:30 RESRAD-BUILD, cont.
11:30 – 12:00 Argonne Case Study (L. Boing and L. Moos)	11:15 – 11:45 Risk Communication (P. Booth)		11:45 – 12:15 Case Study: Foundry Facility D&D (T. Hansen)	11:30 – 12:00 Dose and Risk Assessment for Soil Contamination: RESRAD and RESRAD Offsite
LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
1:00 – 3:00 Participants' Presentations	12:45 – 1:15 Conceptual Site Models (P. Booth)	1:00 – 1:45 Material Clearance (D. Draper)	1:15 – 2:15 Dismantling Technologies (L. Boing)	1:00 – 3:00 RESRAD-BUILD and RESRAD hands-on exercises
		1:45 – 3:00 Waste Management (R. Shult)		
		1:15 – 2:45 Painful Site Conceptual Site Model, hands-on exercise	3:00 – 3:30 Records (D. Draper)	
BREAK	BREAK	BREAK	BREAK	BREAK
3:15 – 5:00 Participants' Presentations, cont.	3:00 – 3:45 Conceptual Site Models, hands- on exercise, cont.	3:45 – 5:00 D&D Planning hands-on exercises (L. Boing)	3:15 – 5:00 D&D Cost Estimation/Work Breakdown Structure hands-on exercises (L. Boing)	3:15 – 5:00 RESRAD-BUILD and RESRAD hands-on exercises, cont.
	3:45 – 5:00 Conceptual Site Model Group Presentations to Stakeholders (P. Booth)			
	6:30 Group Dinner	7:00 Seminar at Hotel: Case Study of Zion Nuclear Power Plant Decommissioning (S. Horvath, Energy Solutions)		

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<b>Monday May 12</b>	<b>Tuesday May 13</b>	<b>Wednesday May 14</b>	<b>Thursday May 15</b>	<b>Friday May 16</b>
8:30 – 9:25 Waste Disposal – Part 1 (V Rogers Jr)	8:30 – 10:15 Introduction to Env. Site Characterization; Env. Data Collection Realities (B. Johnson)	8:30 – 10:30 Surface Soils: Gamma Walkover Surveys; Gamma Walkover Case Study Incremental Soil Sampling Case Study (B. Johnson)	8:30 – 11:30 Site Characterization Equipment Demonstrations and Exercise (B. Johnson and USEPA Region V)	8:30 – 10:30 Participants Action Plan Presentations
9:25 – 10:15 Evolving Technologies (L. Boing)				
BREAK	BREAK	BREAK		
10:35 – 11:15 Waste Disposal – Part 2 (V. Rogers)	10:30 – 12:00 Measuring Radionuclides in the Environment; Subsurface Characterization: Incremental Sampling Strategies for Surface Soils (B. Johnson)	10:45 – 11:30 Exercise in Developing a Characterization Program (B. Johnson)		10:45 – 12:45 Participants Action Plan Presentations
11:15 – 12:00 Case Study: University of Buffalo Research Reactor D&D (D. Miller)				
LUNCH	LUNCH	LUNCH		LUNCH
1:30 – 5:00 D&D Exercise and Visit to EPA Warehouse (L. Boing and USEPA Region V)	1:00 – 3:00 RESRAD OFFSITE hands-on exercise (C. Yu and D. LePoire)	12:30 – 1:15 Remedial Action Alternatives (L. Martino)	1:00 – 1:45 ER Cost Estimation (L. Martino)	1:45 – 2:15 Key Concepts (L. Boing and P. Booth)
		1:15 – 3:15 Updating the Conceptual Site Model, hands-on exercise (small groups) (B. Johnson and P. Booth)	1:45: 2:30 ER Cost Estimation Exercise (L. Martino)	2:15 – 3:00 Closing Remarks
	BREAK	BREAK	BREAK	Optional Tour of Advanced Photon Source and Nuclear Engineering Exhibit
	3:15 – 5:00 RESRAD OFFSITE hands-on exercise, cont.	3:30 – 5:00 Conceptual Site Model Group Presentations to Stakeholders (B. Johnson and P. Booth)	3:15 – 3:45 Site Closure: Final Status Surveys and MARSSIM (L. Durham)	
		7:00 Seminar at Hotel: IAEA Activities Related to Fukushima (H. Monken Fernandes)	3:45 – 5:00 Participants Prepare Action Plans	
			Group Dinner	