

RESRAD Training Course Agenda

August 28 – September 1, 2023

(Covering RESRAD-BIOTA, RESRAD-RDD, and Advanced RESRAD-OFFSITE & -BUILD)

Preliminary Agenda – Subject to Change

Day 1 (August 28)	
	<i>RESRAD-BIOTA</i>
8:30 – 9:15	Overview of RESRAD-BIOTA
9:25 – 10:10	RESRAD-BIOTA Demonstration
10:20 – 11:05	DOE Graded Approach Methodology
11:15 – 12:00	Screening Analysis
12:00 – 1:15	Lunch
1:15 – 1:45	Site-specific Screening Analysis
1:55 – 2:40	Principles of Ecological Risk Assessment
2:50 – 3:35	Site-specific Analysis
3:45 – 4:45	Sensitivity Analysis
Day 2 (August 29)	
8:30 – 9:15	Organism Factors
9:25 – 10:10	Case Study I
10:20 – 11:05	Case Study II and Food Chain/Web Model
11:15 – 12:00	Wildlife Transfer Factors
12:00 – 1:15	Lunch

Day 2 (continued)	
	<i>RESRAD-RDD</i>
1:15 – 1:45	Overview and Protective Action Decisions
1:55 – 2:40	Methodology
2:50 – 3:35	Demo & Hands-on
3:45 – 4:45	Group A, Access During Emergency Response
Day 3 (August 30)	
8:30 – 8:50	Group B, Early-Phase Protective Actions
9:00 – 9:30	Group C, Relocation
9:40 – 10:10	Group D, Temporary Access
10:20 – 10:40	Group E, Transportation
10:50 – 11:20	Group F, Release of Property
11:30 – 12:00	Group G, Food Consumption
12:00 – 1:15	Lunch

Day 3 (continued)	
	<i>Advanced RESRAD-OFFSITE</i>
1:15 – 2:00	Hands on Deterministic Analysis of Offsite Resident Scenario
2:10 – 2:55	Equilibrium Desorption Transfer & comparison
3:05 – 3:50	Equilibrium Solubility Transfer
4:00 – 4:45	Verifying Radionuclide Balance in Primary Contamination
Day 4 (August 31)	
8:30 – 9:15	Correlating Probabilistic inputs to illustrate Dispersion and Concentration Profiles
9:25 – 10:10	Submerged Contamination
10:20 – 11:05	Groundwater Transport of Progeny Produced during Transport
11:15 – 12:00	Data Transfer
12:00 – 1:15	Lunch
1:15 – 2:00	Overriding Primary Contamination Module and Inputting Releases
2:10 – 2:55	Related Inputs to perform Fence Line Analysis
3:05 – 3:50	Area Factors for DCGLs
4:00 – 4:45	Uncertainty & Probabilistic Analysis

Day 5 (September 1)	
	<i>Advanced RESRAD-BUILD</i>
8:30 – 9:15	New Features Overview
9:25 – 10:10	Vacuuming, Filtration, Central Ventilation
10:20 – 11:05	Intermediate Reports
11:15 – 12:00	Shielding Considerations (composite, angled, volume)
12:00 – 1:15	Lunch
1:15 – 2:30	Full Case (9 room, volume/area dynamic sources) with DCGL Derivation
2:40 – 3:00	Review and Discussion