



IAEA/Argonne National Laboratory Training Course

Essential Elements of Nuclear Security

June 09-20, 2014

Argonne, Illinois, USA

Agenda

Draft as of June 6, 2014

Monday, 9 June 2014		
Time	Activity	By
Part 0.0	Opening Sessions	
9:00	<p style="text-align: center;">Opening Session</p> <p><i>Part 0.1 - Logistics</i></p> <ul style="list-style-type: none"> - Welcome to Argonne National Laboratory - Welcome on Behalf of IAEA - Course Introduction 	ANL & IAEA
9:30	<p style="text-align: center;">Presentation</p> <p><i>Part 0.2 - Site Security Briefing</i></p>	ANL
9:45	<p style="text-align: center;">Presentation</p> <p><i>Part 0.3 - Site Health & Safety Briefing</i></p>	
10:15	Coffee Break	ANL
10:45	<i>Part 0.4 - Introduction of Participants</i>	
12:00	Lunch	
13:00	<p style="text-align: center;">Discussion</p> <p><i>Part 0.5 - Initial Exercise – Part 1 (one hour preparation and then discussion)</i></p>	Course Staff
15:30	<i>Part 0.6 - Laboratory Tour</i>	ANL
17:00	Adjourn	
Tuesday, 10 June 2014		
Part 1.0	What is Nuclear Security	
9:00	<p style="text-align: center;">Presentation and Video</p> <p><i>Nuclear Security Feature – IAEA Video (10mins)</i></p> <p><i>Part 1.1 What is Nuclear Security</i></p>	R.Evans /IAEA
10:15	Coffee Break	
10:30	<p style="text-align: center;">Presentation</p> <p><i>Part 1.2 International Legal Instruments for Nuclear Security</i></p>	R.Evans /IAEA
Part 2.0	National Nuclear Security Regime	
11:30	<p style="text-align: center;">Presentation</p> <p><i>Part 2.1 - Nuclear Security Fundamentals: Objectives and Essential Elements Overview</i></p>	D.Lambert/IAEA

12:30	Lunch	
13:30	Presentation <i>2.2 Legislative and Regulatory Framework for Nuclear Security</i>	R.Evans /IAEA
14:45	Group Photo / Coffee Break	
15:00	Facilitated Discussion on roles and responsibilities within the Nuclear Security Regime <i>2.3 What is my role in nuclear security?</i>	IAEA
17:00	Adjourn	
Wednesday, 11 June 2014		
Part 3.0	Threat Assessment and the Risk Informed Approach	
9.00	Presentation <i>Part 3.1 - Understanding Threat Assessment and the Risk Informed Approach</i>	R.Evans /IAEA
10.00	Presentation <i>Part 3.2 - Performing a Threat Assessment & Define a DBT</i>	D.Lambert /IAEA
11.00	Coffee Break	
11.30	Presentation <i>Part 3.3 -Vulnerability Assessment</i>	R. Johnston/ANL
12:30	Lunch	
Part 4.0	Cross Cutting Elements	
13:30	<i>4.1 Introduction to Security of Information in Nuclear Security</i>	R. West/INL
14:30	<i>4.2 Introduction to Computer Security in Nuclear Security</i>	R. West/INL
15:30	<i>Coffee Break</i>	
15.45	<i>4.3 Introduction to Nuclear Security Culture</i>	R. Evans/D. Lambert/IAEA
16.30	<i>4.4 Sustainability of the Nuclear Security Regime</i>	R. Evans/IAEA
17:30	Adjourn	
IAEA Hosted Dinner @ Gordon-Biersch Restaurant		

Thursday, 12 June 2014		
Part 5.0	Nuclear Security of Nuclear and Other Radioactive Material, Associated Facilities and Associated Activities	
9.00	Presentation <i>Part 5.1 Physical Protection of Nuclear Material and Nuclear Facilities</i>	C.Roche/ANL
10.00	Presentation <i>Part 5.2 NMAC and its contribution to Nuclear Security</i>	C. Hall/LLNL
11.00	Coffee Break	
11:30	Presentation <i>Part 5.3 - Security of Nuclear and other Radioactive Materials During Transport</i>	R.Evans/IAEA
12:30	Lunch	
13.30	<i>Part 5.4 Security of Radioactive Sources</i>	
14.30	Presentation <i>Part 5.5 – Security and Control of Radioactive Material at hospitals</i>	R. Wagner/LUMC
15.15	Coffee Break	
15.30	Presentation <i>Part 5.6 – Case Study of Regulator in Nuclear Security - U.S. NRC Security Activities</i>	Guest
	<i>Part 5.7 Roundtable discussion with Regulator</i>	Course Staff
17:00	Adjourn	
Friday, 13 June 2014		
Part 6.0	National Detection Architecture	
8:30	Part 6.1 Radiation Detection Fundamentals	B. Micklich/ANL
9:30	<i>Part 6.2 Radiation Detection Systems</i>	B. Micklich/ANL
10:30	Coffee Break	
11.00	<i>Part 6.3 Monitoring Detecting and Measuring Equipment</i>	F. Moore/ANL
12:00	Lunch	
13:00	<i>Part 6.4 Detection Architecture</i>	R. Evans/IAEA
14:00	<i>Part 6.5 Incident and Trafficking Database</i>	R. Evans/IAEA
15.00	Coffee Break	
15:30	<i>Part 6.6 Security Concerns for Radioactive Material and Border Security and Round table discussion</i>	R. Pappas/US DOE

16:30	Part 6.7 Roundtable discussion on Security Concerns for Radioactive Material in Border Security	
17:00	Adjourn	
	Monday 16 June 2014	
Part 7.0	National Framework for Managing Nuclear Security Events	
9:00	Part 7.1 Planning Preparedness and Response to a Nuclear Security Event	D. Lambert/IAEA
10:00	Part 7.2 Introduction to Radiological Crime Scene Management	C. Riland/IAEA
11:00	Coffee Break	IAEA
11:30	Part 7.3 Introduction to Nuclear Forensics in support of investigations into nuclear security events	J. Steeb/ANL
12:30	Lunch	
13:30	Part 7.4 Introduction to nuclear security systems and measures for Major Public Events	D. Lambert/IAEA
14.30	Part 7.5 ITDB – Case Studies	D. Lambert/IAEA
15:30	Coffee Break	
16:00	Part 7.6 Exercise on Illegal Nuclear Material Discovered by Police	Course Staff
17:30	Adjourn	
	Tuesday, 17 June 2014	
Part 7.0	Managing Nuclear Security Events – Multi Agency Response	
9.00	Part 7.7 Emergency Medical Planning for Incidents	Cichon/LUMC
10.00	Part 7.8 Emergency Medical Response to Nuclear Security Event with Radiological Consequences	Patterson/AFD
11.45	Coffee Break	
11:00	Part 7.9 Initial Exercise Part II – Updating Organizational Outline and Presentations on What has Changed and Why from Part I	
12:00	Lunch	
13:00	Part 7.10 Initial Exercise Part III – Developing a Response Plan for a Nuclear Security Event	
14.00	Report back on Part III- Presentations of Response Plans	
15.00	Coffee Break	

15:30	<i>7.12 Tour of Argonne Fire Department & Detection Instruments</i>	
17:30	Adjourn	
	Wednesday, 18 June 2014	
8.30	<i>TTX Briefing and Getting Ready</i>	
9.00	<i>TTX Part 1 - Conduct and Debriefing</i>	
10.00	Coffee Break	
10.30	<i>TTX Part 2 Exercise Conduct and debriefing</i>	
13.00	Lunch	
14.00	<i>TTX Part 3 Exercise Conduct and debriefing</i>	
15.15	Coffee Break	
15.45	<i>TTX Part 4 Exercise Conduct and debriefing</i>	
16.45	Adjourn	
	Thursday, 19 June 2014	
8:30	<i>TTX Part 5 Exercise Conduct and debriefing</i>	Course Staff
10.15	Coffee Break	
10.45	<i>TTX Part 6 Exercise Conduct and debriefing</i>	
12.15	LUNCH	
13.15	<i>De briefing and Evaluation</i>	
14.45	Coffee Break	
15.15	<i>Group Presentation Session and feedback</i>	
17:00	Adjourn	
18.00	Barbeque at Aloft Hotel	
	Friday, 20 June 2014	
Part 9.0	IAEA Assistance Programs	
9.00	<i>Part 9.1 Nuclear Security Plan 2014-2017- Overview</i>	IAEA
10.00	<i>Part 9.2 Focus on Capacity Building for Nuclear Security</i>	IAEA
11.30	<i>Part 9.3 Introduction to INSSPs</i>	IAEA

12.30	Lunch	
Part 10.0	Closing Remarks	
13:30	Seminar Evaluation	Participants
14.00	Closing Session - <i>Award of Certificates</i> - <i>Concluding Remarks and End of Seminar</i>	Course Staff
	End of Seminar	