

Inter-Regional Training Course on State Systems of Accounting for and Control of Nuclear Material

Kheri-Jasaur, Bahadurgarh, Haryana, India, 1 – 5 October 2018

AGENDA

Monday, 1 October 2018			
Schedule		Lecture/Activity	Facilitator
09:00 – 09:30		Course Registration	IAEA and GCNEP
09:30 – 09:45		Course Opening: Welcome Address by the Host Country and IAEA– Course Photo	GCNEP and IAEA
09:45 – 10:15		Role and Responsibilities of the Global Centre for Nuclear Energy Partnership (GCNEP)	Ramakumar.K.L (DAE)
10:15 – 11:00		Course Overview; Logistics, Introduction of Participants	A. Braunegger-Guelich (IAEA)
11:00 – 11:15		<i>Coffee Break</i>	
	Module 1	Introduction - Nuclear Non-Proliferation and International Safeguards	
11:15 – 12:00	1.1	Non-proliferation and the IAEA Safeguards System	A. Chahid (IAEA)
12:00 – 12:10		Video: IAEA in Focus	A. Chahid
12:10 – 12:45	1.2	Nuclear Material Subject to Safeguards	A. Braunegger-Guelich
12:45 – 13:45		<i>Lunch</i>	
13:45 – 14:15	1.3	State Safeguards Infrastructure	A. Braunegger-Guelich
14:15 – 15:30	<i>WS-A</i>	<i>Workshop A – Comprehensive Safeguards Agreement (CSA) and Additional Protocol (AP)</i>	A. Braunegger-Guelich/IAEA team
15:30 – 15:45		<i>Coffee Break</i>	
15:45 – 17:00	<i>WS-A</i>	<i>Continuation and Presentation of Work in Groups and Discussion</i>	A. Braunegger-Guelich
Tuesday, 2 October 2018 (National Holiday)			
Schedule		Lecture/Activity	Facilitator
09:00 – 09:10		Summary and Overview	IAEA
09:10 – 09:40	1.4	Implementation of Safeguards for INFCIRC/66-type States	A. Bleise (IAEA)
09:40 – 10:10	1.5	Safeguards Implementation in India	Ramakumar.K.L / (DAE)
10:10 – 10:25		<i>Coffee Break</i>	
	Module 2	Nuclear Material Accounting and Control (NMA&C) and Reporting to the IAEA	
10:25 – 11:00	2.1	Concepts of IAEA Nuclear Material Accounting	A. Braunegger-Guelich
11:00 – 11:30	2.2	Facility Records	S. Richet (IAEA)
11:30 – 12:00	2.2a	Case Study: Facility Accounting Records	S. Richet
12:00 – 13:00		<i>Lunch</i>	
13:00 – 14:00	2.3	Introduction to Code 10	S. Richet
14:00 – 15:45	<i>WS-B</i>	<i>Inventory Change Reports</i>	S. Richet/IAEA team
15:45 – 16:00		<i>Coffee Break</i>	
16:00 – 17:00	<i>WS-B</i>	<i>Continuation Inventory Change Reports</i>	S. Richet/IAEA team

Wednesday, 3 October 2018

Schedule		Lecture/Activity	Facilitator
09:00 – 09:10		Summary and Overview	IAEA
09:10 – 09:40	2.4	Physical Inventory Taking (PIT)	Gyanchandra. C NPCIL
09:40 – 10:00	2.5	Quality Control Verification Software (QCVS)	S. Richet
10:00 – 10:15		<i>Coffee Break</i>	
10:15 – 11:45	<i>WS-C</i>	<i>Physical Inventory Listing</i>	S. Richet/IAEA team
11:45 – 12:15	<i>WS-D</i>	<i>Material Balance Report</i>	S. Richet/IAEA team
12:15 – 13:15		<i>Lunch</i>	
13:15 – 13:45	2.6	Case Study: Modifications of State Reports (Corrections, Deletions, Additions)	S. Richet
13:45 – 14:00	<i>MSE-1</i>	<i>Member State Experience (MSE) - Nuclear Material Accounting and Control at facilities and Locations outside of facilities in Armenia</i>	Hayk Ghazaryan
14:00 – 14:30	2.7	Termination, Exemption and Re-application of Safeguards	A. Braunegger- Guelich
14:30 – 15:00	2.8a	Stratification and Sampling	S. Richet
15:00 – 15:15		<i>Coffee Break</i>	
15:15 – 16:00	2.8b	Measurement Errors, Uncertainty Quantification and NM Differences	S. Richet
16:00 – 16:30	2.8c	Material Balance Evaluation	S. Richet
	Module 3	IAEA in-field Verification Activities	
16:30 – 17:15	3.1	IAEA Verification Activities, including ES	A. Bleise (IAEA)
19:00		Social Event hosted by the Host Country	

Thursday, 4 October 2018

Schedule		Lecture/Activity	Facilitator
09:00 – 09:10		Summary and Overview	IAEA
09:10 – 09:40	3.2	IAEA Containment and Surveillance Systems	Agrawal.S.K (DAE)
09:40 – 10:30	3.3	Introduction to Non-Destructive Assay of Nuclear Material and Destructive Analysis	Saxena.M.K / Tripathi R/GCNEP
10:30 – 10:45		<i>Coffee Break</i>	
	Module 4	Additional Protocol (AP)	
10:45 – 11:30	4.1	Additional Protocol: Concepts, Principles and Reporting Obligations	A. Braunegger- Guelich
11:30 – 12:15	<i>WS-E</i>	<i>Additional Protocol Declarations</i>	A. Braunegger- Guelich/IAEA team
12:15 – 13:15		<i>Lunch Break</i>	
13:15 – 14:15	<i>WS-E</i>	<i>Continuation: Additional Protocol Declarations</i>	IAEA team
14:15 – 15:00	4.2	<i>Scenarios: Nuclear Fuel Cycle Related Research and Development</i>	A. Braunegger- Guelich
15:00 – 15:30	4.3	Protocol Reporter Software and India's experience in using the Safeguards State Declarations Portal	Padmakumar.S (DAE)
15:30 – 15:45		<i>Coffee Break</i>	
	Module 5	Other Reporting Obligations: Export/Import	
15:45 – 16:30	5.1	Nuclear Trade: Export	A. Braunegger- Guelich
16:30 – 17:15	5.2	Export Import Reporting	A. Braunegger- Guelich

Friday, 5 October 2018

Schedule		Lecture/Activity	Facilitator
09:00 – 09:10		Summary and Overview	IAEA
09:10 – 09:25	MSE-2	<i>Export Import Control - Malaysia</i>	Roshasnorlyza Hazan
09:25 – 10:00	5.3	<i>Scenarios: International Transfers Subject to Safeguards Provisions</i>	A. Braunegger-Guelich
	Module 6	Nuclear Facility Design Information	
10:00 – 10:45	6.1	Design Information Questionnaire (DIQ), Examination (DIE) and Verification (DIV)	A. Bleise
<i>10:45 – 11:00</i>		<i>Coffee Break</i>	
11:00 – 11:30	6.2	Design Information Flow Process	A. Chahid
	Module 7	Drawing Safeguards Conclusions	
11:30 – 12:15	7.1	Drawing Safeguards Conclusions	A. Braunegger-Guelich
<i>12:15 – 13:15</i>		<i>Lunch Break</i>	
	Module 8	State System of Accounting for and Control of Nuclear Material (SSAC)	
13:15 – 13:45	8.1	Role of an SSAC in Implementing IAEA Safeguards	A. Braunegger-Guelich
13:45 – 14:15	8.2	Locating and collecting of safeguards information by the SSAC	A. Braunegger-Guelich
14:15 – 14:45	8.3	Introduction to Domestic Inspections	A. Chahid
<i>14:45 – 15:00</i>		Coffee Break	
15:00 – 15:15		IAEA Assistance	A. Braunegger-Guelich
15:15 – 15:45		Quiz	Participants
15:45 – 16:00		Quiz Results	ALL
16:00 – 16:30		(Evaluation online) Award of Certificates, Closing Remarks	IAEA & Host Country