

Programme

IAEA Training Workshop on a Systemic Approach to Safety – Pragmatic Solutions

IAEA Headquarters Vienna, Austria

29 March - 1 April 2016

Conference Room MOE100 - Ground Floor M-Building

Ref. No.: J8-TR-50390

International Atomic Energy Agency

Tuesday March 29, 2016		
Time	Session	Facilitator(s)
08:00 - 09:15	Registration Gate 1, Vienna International Centre	All Participants
09:00 - 09:30	Opening remarks Introduction Why a training workshop on the systemic approach to safety The basis of Systemic Approach to safety in the IAEA Safety Standards	Monica Haage, IAEA All Participants
09:30 – 10:00	 Module 1 – Presentation on Shared Space Role of perceptions and projections in shaping engagement Healthy power dynamics Characteristics of shared space Ways of communicating 	Germaine Watts Canada
10:00 – 10:30	 Module 2 – Presentation on Lessons Learned related to the IAEA Fukushima Report Brief look at the HOF conclusions related to Systemic Approach to Safety 	Monica Haage, IAEA
10:30 -10:45	Break	
10:45 – 11:45	 Module 3 – Presentation on Introduction to Human and Organizational Factors Influences on the human side of safety Organizational factors - common organizational prerequisite and organizational safety components Connecting organizational safety components to organizational resilience components HTO and the systemic approach 	Patrik Lundell, Sweden
11:45 – 13:00	Lunch	
13:00 – 14:00	 Module 4 – Dialogue on Role of Middle Managers Scope of the role Real and perceived impact of the role Challenging realities of the role in achieving safety 	Germaine Watts Canada
14:00 – 15:00	Module 5 – Role Game on Emergent Exercise – An experience of how events emerge in ways that are impossible to predict Creating an experience through a game that demonstrates the connection between HOF theory and the work of middle managers in practice	Patrik Lundell, Sweden
15:15 – 15:30	Break	
15:30 – 16:00	 Module 5 – Cont'd Debrief on the Emergent Exercise - Role Game Notice what happened between the persons involved Reflecting on the leadership, communication and teamwork Questions: How were your behaviour influenced by the actions and attitudes by the once around you? 	Patrik Lundell, Sweden Germaine Watts, Canada Stan Deetz, USA
16:00 – 16:45	 Module 6 – Presentation and Dialogue on the Individual Sensemaking Sense making and the social construction of reality Exploration of the impact of individual sense-making in a real-life scenario (brought in or generated by the participants) 	Stan Deetz, USA

Wednesday March 30, 2016				
Time	Session	Facilitator(s)		
09:00 - 09:15	Log in - Learnings from Previous Day	All		
09:15 – 10:15	 Module 7 – Presentation on Enhancing HOF in Defence-in-Depth (DiD) Practical method of objective trees for assessment of comprehensiveness of DiD Consideration of links between technological systems and human factors for identification of weaknesses in DiD Applying the Objective Trees for Assessment of Internal/External HOF in DiD and identification of improvements How a Systemic perspective supports the realization of DiD provisions 	Jozef Misak, Slovakia Germaine Watts Canada		
10.15 -10.30	Break			
10:30 – 11:45	 Module 8 – Presentation on Fukushima, DiD and HTO Weakness in the application of Defense in Depth concept Implications for approaches/methodologies for safety Systemic perspective on underlying issues 	Akira Omoto, Japan		
11:45 – 13:00	Lunch			
13:00 – 14:00	 Module 9 – Presentation and Demonstration on Complexity – An Example of a System of Stakeholders Mapping of stakeholders and potential interests around Fukushima accident Look at the role of middle managers and the impact of stakeholder choices Influence of equipment and technological factors Emergent complexity 	Stan Deetz, IAEA Akira Omoto, Japan		
14:00 – 15:00	 Module 10 – Card Game on Emergent Complexity Another experience of how events emerge in ways that are impossible to predict Bringing human and organizational dynamics into an emerging situation Using the systemic perspective to form a more integrated understanding of risks and ways to respond Reflecting on personal preferences on how to respond in unexpected situations 	Patrik Lundell, Sweden		
15:00 – 15:15	Break			
15:15 – 16:15	Module 10 Card Game Cont'd – Emergent Complexity	Patrik Lundell, Sweden		
16:15 – 16:45	 Module 11 – Debrief on – Card Game Reflection on how the incorporation of system thinking (HTO) influenced their understanding Did this change your conception of the role of middle manager Reflection on how the role of middle manager can make difference 	Patrik Lundell, Sweden Monica Haage, IAEA Gemaine Watts, Canada		
16:45 – 17:00	Log out – Learnings from the day Homework assignment	Monica Haage, IAEA		

 $(\underline{\textbf{Homework}} - \text{reflecting about what are } \textbf{\textit{my chronic systemic challenges}} \text{ in my work life, what I learned so far apply to my work situation})$

Thursday March 31, 2016		
Time	Session	Facilitator(s)
09:00 - 09:15	Log-in - Learnings from Previous Day	All Participants
09:15 – 10:30	 Module 12 – Intro Soft System Mapping Understanding individual behavior as a function of multiple factors in a system of relationships Applying the systemic perspective in a middle manager role: shifting from blaming difficult people to having difficult conversations Using Soft System Mapping (SSM) as a process of discovery and making implicit systemic relations explicit 	Stan Deetz, USA
10:30 -10:45	Break	
10:45 – 11:45	 Module 13 – Systemic Mapping – Group Exercise Mapping the scenario of the sea water injection (hierarchy, lost communication, different sense making, different "agendas", time, complexity etc) Individually apply the SSM process to a challenging situation Interactively produce a systemic map for a commonly occurring problem 	Akira Omoto, Japan Jozef Misak, Slovakia Stan Deetz, USA
11:45 – 13:00	Lunch	
13:00 – 15:00	 Module 14 – Dialogue on Systematic Intervention in Systems Applying a systemic approach to formulating interventions to solve problems and increase performance Presenting different hands-on methods and tools for overcoming human and organizational challenges and increasing resiliency Managing from the middle – allowing human system redundancy to become more resilient Drop the illusion of having control, seek to reduce error likely situations and increase error tolerance in the system Q&A on past experiences and new ways of thinking 	Stan Deetz, USA
15:00 – 15:15	Break	
15:15 – 16:45 16:45 – 17:00	 Module 15 – Presentation and Exercise on Humble Inquiry Understanding the power of asking questions Enhancing engagement, learning, and performance through questions Tailoring questions to the needs of different situations A brief exercise giving participants the opportunity to apply the art of asking questions Log out – Learning from the day 	Germaine Watts Canada Monica Haage, IAEA
10.43 - 17.00	Reminder - Homework assignment	Monica raage, IAEA
18:00 - 21:00	Social Event	All

Friday April 1, 2016			
Time	Session	Facilitator(s)	
09:00 - 09:15	Log in - Learnings from Previous Day	All Participants	
09:15 – 10:15	 Module 16 – Dialogue on Working Differently - Sharing the Homework Assignment – Systemic Realities Interactively experience working through one or more of the reallife situations generated by the participants 	Germaine Watts Canada Stan Deetz, USA Patrik Lundell	
10:15 -10:30	Break		
10:30 – 11:45	 Module 17 – Dialogue on Working Differently – Applying Systemic Tools In small groups, work on understanding participant situations and applying SSM to identifying potential intervention points and strategies 	Monica Haage, IAEA Stan Deetz, USA	
11:45 – 13:00	Lunch		
13:00 – 14:45	 Module 18 – Action Plan: Instilling a Systemic Approach to Safety What do you do Monday morning? Write a letter to your self - What will my organization look like in a year and what do I need to do differently to make that change happen? Review of key terms Planning on how to apply the systemic approach Where to learn more 	Monica Haage, IAEA Martin Miksits, Austria Stan Deetz, USA Akira Omoto, Japan	
14:45 – 15:00	Break		
15:00 – 16:00	Module 19 – Reflection: The Learning Journey & Evaluation Wrap-up	All Participants	