

Workshop on "Current and Emerging Methods for Optimising Safety and Efficiency in Nuclear Decommissioning"

7–9 February 2017
Gandalf III room, Quality Hotel, Sarpsborg, Norway

PROGRAMME

Tuesday, 7 February 2017

Successful application of R&D in decommissioning and future needs

Welcome and Opening Speeches

Workshop Chair: Ákos HORVÁTH, Co-Chair: Jon KVALEM

8:30	Welcome and Introduction to IFE Nils Morten HUSEBY, CEO IFE
8:45	Introduction to the OECD Halden Reactor Project Jon KVALEM, OECD HRP Deputy Project Manager
8:55	Welcome address by Workshop General Chair Ákos HORVÁTH, MTA EK, Hungary
9:00	Introduction to the Workshop and Practicalities István SZŐKE, OECD HRP

Session 1: Workshop Introductory Presentations

Session Chair: Con LYRAS, Co-Chair: Jon KVALEM

9:05	Session opening
9:10	International Perspective on Decommissioning in OECD Nuclear Energy Agency Countries Inge WEBER, OECD NEA
9:35	IAEA Global support of decommissioning implementation with a focus on advanced technologies Vladimir MICHAL, IAEA
10:00	Decommissioning research within the OECD HRP and opportunities for application István SZŐKE, OECD HRP
10:25	Session closing
10:35	Coffee break

Session 2: Experience from starting, on-going and completed decommissioning projects

Session Chair: Mika SHIMBA YAMADA, Co-Chair: Jan PORSMYR

11:00	Session opening
11:05	Dismantling of the SVAFO research reactors R2 & R2-0 in Sweden Hans-Uwe ARNOLD, AREVA, Germany
11:25	Decommissioning and dismantling of nuclear research facilities in Switzerland: lessons learned Fritz LEIBUNDGUT, Paul Scherrer Institute, Switzerland
11:45	Challenges of decommissioning of heavy water research reactor Yidong ZHOU, CIAE, China
12:05	<i>Lunch</i>
13:00	FiR1 TRIGA research reactor decommissioning project Antti RÄTY, VTT, Finland
13:20	Implementing Waste Led Decommissioning in Practice - Experiences from a Research Facility Per LIDAR, Studsvik, Sweden
13:40	Chernobyl NPP decommissioning efforts. Past, Present and Future Viktor KUCHINSKIY, Chernobyl NPP, Ukraine
14:00	Lessons learned from ongoing decommissioning project of Fugen NPS Masashi TEZUKA, JAEA, Japan
14:20	<i>Coffee break</i>
14:40	Challenges of Ignalina NPP decommissioning – View of Lithuanian operator Pavel AKSIONOV, INPP, Lithuania
15:00	International good practice on practical implementation of characterisation in decommissioning Arne LARSSON, WPDD Task Group on Radiological Characterisation and Decommissioning
15:20	Progress in decommissioning the Low Flux Reactor in Petten Renate DE VOS, NRG, Netherlands
15:40	TBD
16:00	Session closing
16:10	Group discussions: Needs and opportunities for improving decommissioning practices
17:10	<i>Adjourn</i>
17:40	<i>Games</i>

Wednesday, 8 February 2017

R&D and application of advanced technologies for decommissioning

Session 3: New technologies for decommissioning

Session Chair: Richard MCGRATH, Co-Chair: Espen NYSTAD

8:30	Session opening
8:35	Evolution of R&D for nuclear decommissioning Michele LARAIA, Italy
8:55	Decontamination in preparation for dismantlement - AREVA's chemical decontamination technologies, projects performed and results obtained in the period 2011-2016 Luis SEMPERE BELDA, AREVA, Germany
9:15	New developments of autoradiography technique to improve alpha and beta measurements for decommissioning facilities Pascal FICHET, CEA, France
9:35	Waste characterisation in a Swedish uranium facility during decommissioning using nuclide vectors and nuclide specific measurements Patrik KONNEUS, Studsvik, Sweden
9:55	Improvement of a separation method for the reduction of secondary waste from the waterjet abrasive suspension cutting technique Martin BRANDAUER, Karlsruhe Institute of Technology, Germany
10:15	How characterization and clearance process is planned to be optimized by combining MARSSIM methods with parametric statistics in decommissioning of Karolinska University Hospital in Stockholm Jonatan JISELMARK, Studsvik Consulting AB, Sweden
10:35	Session closing
10:45	Coffee break

Session 4: Advanced information technologies for decommissioning Session Chair: Christine GEORGES, Co-Chair: Michael LOUKA	
11:00	Session opening
11:05	Surface contamination activity reconstruction based on measurements of ambient dose equivalent Konstantin CHIZHOV, SRC-FMBC, Russian Federation
11:25	Application of constraint satisfaction algorithms for conditioning and packing activated control rod assemblies in MOSAIK casks Philip J. HARDING, Brenk Systemplanung, Germany
11:45	Advanced Technologies for Fuel Debris Retrieval towards Fukushima Daiichi Decommissioning Eiichiro WATANABE, IAEA
12:05	<i>Lunch</i>
13:00	Comparison of standardised decommissioning costing tools on pilot Vienna TRIGA MARK-II research reactor Kristina KRISTOFOVA, KIND Consultancy, Slovak Republic
13:20	Experiences of development of IT support systems for decommissioning of Fugen NPS Yukihiro IGUCHI, JAEA, Japan
13:40	IAEA assessment tools for nuclear and radiological emergencies Joseph George CHAPUT, IAEA
14:00	Applying the HVRC VRdose planner in the design of a Pneumatic Transfer System Qasim KAPASI, NNL, UK
14:20	Historical fuel management at IFE and opportunities for application of advanced information technology Barbara C. OBERLÄNDER and István SZÓKE, IFE
14:40	Learning decommissioning through gaming Espen NYSTAD, OECD HRP
14:50	Session closing
15:00	<i>Demo session with coffee break (Room: TUNE)</i> Advanced information technology developed at IFE for supporting decommissioning
16:00	Group discussions: Needs and opportunities for OECD-HRP and international research into advanced technologies for decommissioning
17:00	<i>Adjourn</i>
18:30	<i>Workshop dinner</i>

Thursday, 9 February 2017

Improving decommissioning management on project, national and international level

Session 5: Challenges and methods for improving decommissioning

Session Chair: Michele LARAIA, Co-Chair: Grete RINDAHL

8:30	Session opening
8:35	EPRI Research and Development projects for NPP decommissioning Richard MCGRATH, EPRI, USA
8:55	Needs for R&D and innovations to address challenges of nuclear facility decommissioning after its normal shutdown versus advanced approaches required for Fukushima Daiichi NPS decommissioning G�rard LAURENT, IN Solutions, France
9:15	New requirements to collect operational data that are essential for facility decommissioning Kristina KRISTOFOVA, KIND Consultancy, Slovak Republic
9:35	Federal guidelines for estimating external exposure of radiation workers in Russia Konstantin CHIZHOV, SRC-FMBC, Russian Federation
9:55	<i>Coffee break</i>
10:15	Long history of ³⁶Cl assessment of graphite waste by EDF engineering and the latest suggested developments Bernard PONCET, EDF-DP2D, France
10:35	Innovative approaches to the management of irradiated nuclear graphite wastes: Addressing the challenges through international collaboration with project 'GRAPA' Anthony J. WICKHAM, University of Manchester, UK
10:55	Strategic aspects on waste management in decommissioning of nuclear facilities Arne LARSSON, Cyclife-EDF, Sweden
11:15	Human and organisational factors in decommissioning Claire Taylor, IFE, Norway
11:35	Session closing
11:45	<i>Lunch</i>
12:45	Group discussions: Needs and opportunities for OECD-HRP and international research for advancing management of decommissioning
13:45	<i>Coffee break</i>

Session 6: Workshop closing		
Session Chairs: Ákos HORVÁTH, Vladimír MICHAL, Inge WEBER		
14:00	Summing-up and closure of the workshop (all chairs)	
14:30	Group discussion (HRP members only): Moderators: Ákos HORVÁTH, Jon KVALEM OECD-HRP research directions	Site Tour: Halden reactor and facilities
16:30	End of discussions	
~18:00		Back from site tour