

International Experts' Meeting

on

Assessment and Prognosis in Response to a Nuclear or Radiological Emergency

Organized in connection with the implementation of the IAEA Action Plan on Nuclear Safety

PROGRAMME

20 – 24 April 2015 Vienna, Austria

Chairperson of the

Meeting:

Robert Lewis, U.S. Nuclear Regulatory Commission, United States of

America

Session 1 chair: Cláudio Almeida, Comissão Nacional de Energia Nuclear, Brazil

Session 2 chair: Vladimir Kutkov, National Research Centre Kurchatov Institute, Russian

Federation

Session 3 chair: Jean Jalouneix, Institut de Radioprotection et de Sûreté Nucléaire, France

Session 4 chair: Yuichi Onda, Centre for Research in Isotopes and Environmental

Dynamics, Japan

Session 5 chair: Brian Ahier, Health Canada, Canada

Session 6 chair: Lynn Hubbard, Swedish Radiation Safety Authority, Sweden

Session 7 chair: Jeong Seung-Young, Korea Institute of Nuclear Safety, Republic of Korea

Scientific Secretary: Elena Buglova, IAEA Department of Nuclear Safety and Security, Incident

and Emergency Centre

Meeting Organizer: Martina Neuhold, IAEA Department of Management, Conference Services

Section

IAEA Secretariat The IAEA Department of Nuclear Safety and Security

-Kenneth Brooks, Division of Nuclear Security

-Abdallah Amri, Division of Nuclear Installation Safety

-Gerhard Proehl, Division of Radiation, Transport and Waste Safety

-Florian Baciu, Incident and Emergency Centre -Joseph Chaput, Incident and Emergency Centre -Lyndon Bevington, Nuclear Safety Action Team

The IAEA Department of Nuclear Sciences and Applications

-lolanda Osvath, IAEA Environment Laboratories

-Carl Blackburn, Joint FAO/IAEA Division of Nuclear Techniques in Food

and Agriculture

The IAEA Department of Nuclear Energy,
- Pal Vincze, Division of Nuclear Power

Meeting Venue: International Atomic Energy Agency

Vienna International Centre (VIC)

M Building, Board Room A, Wagramer Strasse 5

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Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject and no

votes will be taken.

Monday, 20 April 2015

08:30-10:00	On-Site Registration, Vienna International Centre, Gate 1
10:00-12:30	Opening Session
Chairperson:	Robert Lewis, U.S. Nuclear Regulatory Commission, United States of America
10:00-10:30	(Welcome addresses by IAEA)
	Denis Flory, Deputy Director General, Department of Nuclear Safety and Security
	and
	Mikhail Chudakov, Deputy Director General, Department of Nuclear Energy
	and
	Aldo Malavasi, Deputy Director General, Department of Nuclear Sciences and Applications
	(Introductory comments) Robert Lewis, U.S. Nuclear Regulatory Commission, United States of America
10:30-11:00	(Keynote) Denis Flory, Deputy Director General, Department of Nuclear Safety and Security, IAEA
11:00-11:30	(Keynote) Masashi Hirano, Director-General for Regulatory Standard and Research, Nuclear Regulation Authority, Japan
11:30-12:00	(Keynote) Qu Liang, Director, Joint FAO/IAEA Division on behalf of the Food and Agriculture Organization of the United Nations
12:00-12:30	(Keynote) Xu Tang, Director, Weather and Disaster Risk Reduction Services Department, World Meteorological Organization
12:30-14:00	Lunch Break

Monday, 20 April 2015

14:00-17:30	Session 1: Assessment and Prognosis During a Nuclear Emergency
Session Chair:	Cláudio Almeida, Comissão Nacional de Energia Nuclear, Brazil
14:00-14:30	(Keynote) Olivier Isnard, Institut de Radioprotection et de Sûreté Nucléaire, France: <i>Methodologies to support the prognosis of a developing situation and challenges in applying these during a response</i>
14:30-14:45	Gurdal Gokeri, Turkish Atomic Energy Authority, Turkey: Comparison of Approaches for Urgent Protective Actions specified in the Draft National Radiation Emergency Plan of Turkey and adopted by the IAEA, HERCA-WENRA and Nordic Countries; Taking into Account Uncertainties in The Very Early Phase
14:45-15:00	Roy Harter, Duane Arnold Energy Center, United States of America: Accident progression and critical issues during reactor accidents - an End-User perspective
15:00-15:15	Milan Hort, State Office for Nuclear Safety, Czech Republic: System for assessment and prognosis during a nuclear emergency in the Czech Republic
15:15-15:30	Inkoo Hwang, Korea Atomic Energy Research Institute, Republic of Korea: <i>Postaccident monitoring in pressurized heavy water reactor nuclear power plants</i>
15:30-16:00	Break
16:00-16:15	Lindley Perryman, Eskom, South Africa: Koeberg NPP: Accident Assessment and Prognosis
16:15-16:30	Ivana Valeria Sadañiowski, Nuclear Regulatory Authority, Argentina: Emergency Preparedness and Response System for Nuclear Accidents in Argentina
	Discussion
17:30	Adjourn
18:00- 20:00	Welcome Reception hosted by the IAEA
	(M-Building, Ground Floor)

Tuesday, 21 April 2015

09:00-12:30	Session 2: Assessment and Prognosis During a Radiological Emergency
Session Chair:	Vladimir Kutkov, National Research Centre Kurchatov Institute, Russian Federation
09:00-09:30	(Keynote) Stephanie Haywood, Public Health England, United Kingdom: <i>The assessment of doses after a radioactive release</i>
09:30-09:45	Lee Glascoe, National Atmospheric Release Advisory Center, United States of America: Consequence assessment tool for radiological emergency support
09:45-10:00	Steen Hoe, BRK, Denmark: ARGOS, a tool for assessing exposures during a radiological emergencies
10:00-10:15	Vladimir Kutkov, National Research Centre Kurchatov Institute, Russian Federation: Radiological assessment and protection of first responders during a radiation emergency in EPC III and IV
10:15-10:30	Volodymyr Berkovskyy, Radiation Protection Institute, Ukraine: <i>Monitoring and assessment of exposure from unplanned releases to the environment international requirements guidance documents and the experience of Ukraine</i>
10:30-11:00	Break
11:00-11:15	Silke Torchiani, AREVA GmbH, Germany: <i>AREVA computer codes for radiological consequence analysis</i>
11:15-11:30	Kotaro Tonoike, Japan Atomic Energy Agency, Japan: Experience of the JCO Criticality Accident
	Discussion
12:30-14:00	Lunch Break

Tuesday, 21 April 2015

14:00-17:45	Session 3: Assessment of a Nuclear or Radiological Emergency Resulting from a Nuclear Security Event
Session Chair:	Jean Jalouneix, Institut de Radioprotection et de Sûreté Nucléaire, France
14:00-14:30	(Keynote) Alexey Ferapontov, Deputy Chairman Rostechnadzor, Russian Federation: Regulatory measures to ensure the continued effectiveness of physical protection systems during a nuclear or radiological emergency caused by a nuclear security event
14:30-14:45	David Kenneth Smith, IAEA: The role of nuclear forensics supporting law enforcement investigations and nuclear security vulnerability assessments
14:45-15:00	Klaus Mayer, Institute for Transuranium Elements Joint Research Centre, European Union: <i>Nuclear Forensics - Maintaining chain of custody of evidence</i> during a nuclear or radiological emergency
15:00-15:15	Ivan Gorinov, Division of Nuclear Material and Physical Protection, BNRA, Bulgaria: Exercise Nautilus and lessons learned from the mixed security and emergency response
15:15-15:30	Zhu Zhixuan, The Permanent Mission of China to the IAEA, China: Approach to assessment and prognosis during nuclear security events
15:30-16:00	Break
16:00-16:15	Edward Waller, University of Ontario Institute of Technology, Canada: <i>The Interface of Safety and Security in the Response to Malicious Acts</i>
16:15-16:30	Harvey Clark, Remote Sensing Laboratory, United States of America: <i>Coordinating Competing Priorities in a Nuclear Security Incident</i>
16:30-16:45	Sok Chul Kim, Korea Institute for Nuclear Safety: A response supporting system for deterring illicit trafficking of nuclear and other radioactive material
	Discussion
17:45	Adjourn

Wednesday, 22 April 2015

09:00-12:30	Session 4: Environmental Modelling and Monitoring During Nuclear and Radiological Emergencies
Session Chair:	Yuichi Onda, Centre for Research in Isotopes and Environmental Dynamics, Japan
09:00-09:30	(Keynote) Mark Zheleznyak, Department of Environmental Modelling of Mathematical Machines and Systems (IPMMS), National Academy of Sciences, Ukraine: <i>Prognosis and assessment of the consequences of the Fukushima Daiichi accident provided by the models of the decision support system RODOS</i>
09:30-09:45	Raul Perianez, University of Sevilla, Spain: Marine transport modelling
09:45-10:00	Tim Mueller, Institute for Nuclear and Energy Technologies (IKET), Germany: <i>The current status of the JRodos System</i>
10:00-10:15	Yuichi Onda, Centre for Research in Isotopes and Environmental Dynamics, Japan: Time changes in radiocesium concentration in aquatic systems affected by the Fukushima NPP accident
10:15-10:30	Gerhard Wotawa, WMO, WMO Nuclear Emergency Response Activities in cooperation with the IAEA
10:30-11:00	Break
11:00-11:15	Colin Okada, Remote Sensing Laboratory, United States of America: Environmental Measurements in an Emergency
11:15-11:30	Martin Bleher, Federal Office for Radiation Protection, Germany: <i>Dose reconstruction methods and source term assessment using data from monitoring networks and mobile teams - a German approach</i>
11:30-11:45	Iolanda Osvath, IAEA: The emergency response capabilities of the Analytical Laboratories for the Measurement of Environmental Radioactivity (ALMERA) network
	Discussion
12:30- 14:00	Lunch Break

Wednesday, 22 April 2015

14:00-17:30	Session 5: Assessment of Food During Nuclear and Radiological Emergencies
Session Chair:	Brian Ahier, Health Canada, Canada
14:00-14:30	(Keynote) Gerd Dercon, IAEA/FAO: <i>Online information Systems for optimizing Decision Making in Food Safety</i>
14:30-14:45	Anis Zouagui, Centre Nationale de l'Energie, des Sciences et des Techniques Nucléaires, Morocco: <i>Implementation of information system to respond to a nuclear emergency affecting agriculture and food products - Case of Morocco</i>
14:45-15:00	Hiroshi Takemiya, Japan Atomic Energy Agency, Japan: Software Platforms for Collecting, Managing and Providing Monitoring Data for Food and Agricultural Products
15:00-15:15	Eva Smejkalova, ABmerit, Slovakia: Connection between dispersion modelling and remote sensing
15:15-15:30	Slobodan Jovanovic, Centre for Nuclear Competence and Knowledge, Montenegro: Advanced quantitative gamma-spectrometry software for rapid and accurate assessment of food, feed, drinking water and other products during nuclear and radiological emergency
15:30-16:00	Break
16:00-16:15	Svetlana Nestoroska Madjunarova, IAEA: Criteria for decision making regarding food, milk and drinking water restrictions in a nuclear or radiological emergency
	Discussion
17:30	Adjourn

Thursday, 23 April 2015

09:00-12:30	Session 6: Assessment and Prognosis at the International Level
Session Chair:	Lynn Hubbard, Swedish Radiation Safety Authority, Sweden
09:00-09:30	(Keynote) Elena Buglova, IAEA: <i>Role of the IAEA in assessment or prognosis during a nuclear or radiological emergency</i>
09:30-09:45	Hannele Aaltonen, STUK, Finland: Finland's experience concerning bilateral exercises with IAEA
09:45-10:00	Geza Macsuga, Hungarian Atomic Energy Authority (HAEA), Hungary: <i>Member State Experience in Participation in Bilateral Exercises with the IAEA to practice assessment and prognosis</i>
10:00-10:15	Jean-François Dodeman, Nuclear Safety Authority (ASN) France: French support to the Herca-Wenra approach regarding assessment and prognosis and international perspectives
10:15-10:30	Helena Chudá, State Office for Nuclear Safety of the Czech Republic (SÚJB), Czech Republic and Peter Hofer and Nina Cernochlawek, Austrian Ministry of Agriculture, Forestry, Environment and Water Management, Div. Radiation Protection (BMLFUW), Austria: Czech-Austrian Cooperation and Data Exchange in case of Severe Nuclear Accidents
10:30-11:00	Break
11:00-11:30	Joint presentation Canada, Mexico and IAEA: Perspectives for assessment and prognosis process from an NPP exercise and a response to a real event
	Discussion
12:30-14:00	Lunch Break

Thursday, 23 April 2015

14:00-16:00	Session 7: The Provision and Management of Technical Data to Support Assessment and Prognosis
Session Chair:	Jeong Seung-Young, Korea Institute of Nuclear Safety, Republic of Korea
14:00-14:30	(Keynote) Don Van Etten, National Security Technologies, Remote Sensing Laboratory, United States of America: <i>Consequence Management Under the National Response Framework;</i>
14:30-14:45	Gary Johnson, United States of America: Data requirements during a severe accident
14:45-15:00	Andy Woodruffe and Hussain Al Katheeri, United Arab Emirates: <i>Development of a Radiological and Nuclear Emergency Dose Assessment Program in an Embarking Nation</i>
15:00-15:15	Jeong Seung-Young, Korea Institute of Nuclear Safety, Republic of Korea: Status of Assessment and Prognosis System for Nuclear Emergency Response in Korea
15:15-16:00	Discussion
16:00-17:30	Poster Session (MO2 Poster Area)
	Refreshments will be served
18:00	Adjourn

Friday, 24 April 2015

09:00-12:30	Closing Session
Chairperson:	Robert Lewis, U.S. Nuclear Regulatory Commission, United States of America
09:00-10:30	Individual session summaries provided by each session chair
10:30-11:00	Break
11:00-12:00	Chairperson summary
12:00-12:30	(Closing remarks) Robert Lewis, U.S. Nuclear Regulatory Commission, United States of America
	(Closing remarks) Denis Flory, Deputy Director General, Department of Nuclear Safety and Security
12:30	Adjourn

Poster Session (Thursday, 23 April 2015, 16:00-17:30)

Please note that the posters will be on display throughout the week

IAEA - IEM 9 - 2	Luan Qafmolla (Institute of Applied Nuclear Physics (CANP), Albania)
	Approaches to Evaluate Safety and Security during using Radioactive Sources and Management of Radiological Situation at the Centralized Facility for Waste Storage in Albania
IAEA - IEM 9 - 3	Samir Mazidi (Centre de Recherche Nucléaire de Draria, Algeria)
	Development of a platform for the evaluation of the source term and the atmospheric dispersion of a nuclear facility in a radiological emergency event
IAEA - IEM 9 - 5	Antonio Carlos Alves Vaz (IPEN/CNEN-S.P, Brazil)
	How important is the nuclear emergency team to IEA-R/RR
IAEA - IEM 9 - 6	Pedro De Lima e Silva (CNEN, National Nuclear Regulator, Brazil)
	Implementation of the Argos Emergency Response System at Angra NPP site: Complex terrain requirements and applied solutions
IAEA - IEM 9 - 8	Nikolay Petrov Bonov (Kozloduy NPP, Bulgaria)
	Protective measures and source term prediction in emergency response of NPP Kozloduy
IAEA - IEM 9 - 10	Brian Ahier, Dominique Nsengiyumva and Christopher Cole (Health Canada, Canada)
	Canadian Decision Support System for Managing a Nuclear Emergency
IAEA - IEM 9 - 13	Li Pengbo (China Institute of Atomic Energy, China)
	Achievements and Technology of Nuclear Incident Consequence Assessment System in China
IAEA - IEM 9 - 14	Stela Zamboki (State of for Radiological and Nuclear Safety – SORNS, Croatia)
	Assessment and prognosis during the NPP accident in Croatia
IAEA - IEM 9 - 15	Yamil López Forteza (Centro Nacional de Seguridad Nuclear, Cuba)
	Lessons and challenges in the preparedness and response to radiological emergency: Cuban experience
IAEA - IEM 9 - 17	Aya Abaza (Nuclear and Radiological Regulatory Authority, Egypt)
	Assessment of radiation emergency preparedness in nuclear medicine

Poster Session (Thursday, 23 April 2015, 16:00-17:30) - continued

Please note that the posters will be on display throughout the week

IAEA - IEM 9 - 21	Tim Müller (Institute for Nuclear and Energy Technologies, Karlsruhe Institute of Technology (KIT), Germany)
	The Analytical Platform of the PREPARE project
IAEA - IEM 9 - 23	D. Apriliani, S. Suharyanta (National Nuclear Energy Regulatory Agency, BAPETEN, Indonesia)
	Nuclear Forensic as an important tool in Nuclear Security Event Investigation
IAEA - IEM 9 - 24	Eri Hiswara (National Nuclear Energy Agency (BATAN), Indonesia)
	Indonesia Approaches to Nuclear Emergency Preparedness and Responses
IAEA - IEM 9 - 28	Abdel Baset Rababa (Jordan Atomic Energy Commission, Jordan)
	Environmental Radiation Monitoring Plan for Jordan Research and Training Reactor (JRTR)
IAEA - IEM 9 - 31	Ieva Gatelyte (Radiation Protection Centre, Lithuania)
	Public Communication of Radiation Emergencies in Lithuania
IAEA - IEM 9 - 32	Hairul Nizam Idris (Radiation Safety and Health Division, Malaysian Nuclear Agency, Malaysia)
	Development of Mobile Emergency Monitoring System for Radiological Rapid Assessment during Nuclear & Radiological Accidents
IAEA - IEM 9 - 36	Muhammad Auwal Musa (Centre for Energy Research and Training (CERT), Ahmadu Bello University, Nigeria)
	Assessment of nuclear and radiological Emergency response at a nuclear facility in Nigeria
IAEA - IEM 9 - 35	Latifat Owoade, Isa Sambo (Nigerian Nuclear Regulatory Authority, Nigeria)
	Radiological Assessment of Funiwa Oil Field in Balyesa State, South-South Nigeria Following Fire Incident at an Oil Drilling Rig
IAEA - IEM 9 - 37	Albert Shapovalov (Scientific and Engineering Centre for Nuclear and Radiation Safety (SECNRS), Russian Federation)
	Emergency zones setting in order to control the spread of contamination and for monitoring the contamination levels of vehicles, personnel and territories

Poster Session (Thursday, 23 April 2015, 16:00-17:30) - continued

Please note that the posters will be on display throughout the week

IAEA - IEM 9 - 38	Slavica Ivkovic (Serbian Radiation protection and Nuclear Safety Agency, Serbia)
	Radiological monitoring during nuclear accident or radiological emergency in Republic of Serbia
IAEA - IEM 9 - 39	Milford Hanciles (Nuclear Safety and Radiation Protection Authority, Sierra Leone)
	Responding to Radiological Emergency
IAEA - IEM 9 - 42	Peter Carný (ABmerit, Slovakia)
	Protective measures based on the state of reactor and source term predicted (ESTE tool)
IAEA - IEM 9 - 44	Monika Krpelanova (ABmerit, Slovakia)
	Training and exercising of emergency response personnel – key task in nuclear emergency preparedness
IAEA - IEM 9 - 43	Bethany Louise Cawood (South African Nuclear Energy Corporation (NECSA), South Africa)
	Technical Basis for Necsa Emergency Planning Zones