Wednesday, March 21

8:30-9:00 Registration
9:00-9:15 Opening session

Chair: Gernot Thuma, GRS

- Opening Remarks – Head of Nuclear Safety Division, NEA
- Introduction:
  - Chair Session 1 – John Nakoski, U.S. NRC
  - Chair Session 2 – Vincent Rebour, IRSN
  - Chair Session 3 – Dries Gryffroy, BelV
  - Chair Closing Session – Gernot Thuma, GRS

- Background and objectives of the workshop
- Technical Note on Riverine Flooding - Hazard Assessment and Protection of NIs
- Priorities and challenges

9:15-17:30 Session 1 - Regulatory approaches and operating experience

Chair Session 1: John Nakoski, U.S. NRC

- IAEA guidance for flood hazard assessment and flood protection at NI sites – Yoshimitsu Fukushima, IAEA (9:15 – 10:15)
- Regulatory considerations for flood hazard assessment and flood protection of NIs in the USA – Christopher Cook, U.S. NRC (10:15 – 10:45)

10:45-11:15 Coffee break

- Regulatory requirements for flood hazard assessment and flood protection of NIs in France – Vincent Rebour, IRSN (11:15 – 11:45)
- Undertaking vulnerability assessments of critical water resources infrastructure – John Perdikaris, Ontario Power Generation (11:45 – 12:45)

12:45-13:45 Lunch break
• Operating experience at Fort Calhoun – Roger Kay, U.S. Army Corps of Engineers (13:45 – 14:15)

• Riverine Flood Hazard Assessment in Germany – Christian Strack, GRS (14:15 – 14:45)

Questions and answers on regulatory approaches and operating experience (14:45 – 15:15)

15:15-15:45 Coffee break

• Panel Session and discussions on regulatory approaches and operating experience – John Perdikaris, Ontario Power Generation; Christopher Cook, U.S. NRC; Rainer Hausherr, ENSI; Vincent Rebour, IRSN; Rapporteur – Joey Zhaoliang Wang, CNSC (15:45 – 17:15)

17:15-18:00 WGEV Members internal discussion

Thursday, March 22

9:00-9:10 Chair: Gernot Thuma, GRS

• Recap of Day, Overview of Session 2 Objectives

9:10-17:30 Session 2 - Technical methods for hazard assessment

Chair Session 2: Vincent Rebour, IRSN

• Riverine flood hazard assessment based on Probable Maximum Precipitation and Probable Maximum Flood – Yuri Simonov, Hydro-meteorological Research Centre of Russia (9:10 – 9:35)

• PMP and PMF under a Changing Climate – John Perdikaris, Ontario Power Generation (9:35 – 10:30)

• Probabilistic Flood Hazard Assessment for Rivers and Updates on the PRA Standard – Michelle Bensi, University of Maryland (10:30 – 10:55)

10:55-11:20 Coffee break

• Riverine flood hazard assessment and current developments in France – Claire-Marie Duluc, IRSN and Sylvain Saviot, EDF (11:20 – 12:00)

• Riverine flood hazard assessment in Switzerland – Carlo Scapozza, Federal Office for the Environment and Vinh Dang, Paul Scherrer Institute (12:00 – 12:30)

12:30-13:30 Lunch break

• Data collection, and advances in modelling river floods – Roger Kay, U.S. Army Corps of Engineers (13:30 – 14:00)

Questions and answers on technical methods (14:00 – 14:30)
Panel Session and discussion on technical methods for hazard assessment – Michelle Bensi, University of Maryland; Carlo Scapozza, Federal Office for the Environment; John Perdikaris, Ontario Power Generation; Gernot Thuma, GRS; Rapporteur – Christopher Cook, U.S. NRC (14:30 – 15:30)

15:30-16:00   Coffee break

16:00-16:15 Chair:  Gernot Thuma, GRS

• Recap of Session 2, Overview of Session 3 Objectives

16:15-18:15 Session 3 - Protection of NIs against river floods

Chair Session 3: Dries Gryffroy, BelV

• Protection of NIs against river floods in Belgium – Dries Gryffroy, BelV (16:15 – 16:45)
• Protection of NIs against river floods in France – Denis Jautzy, EDF (16:45 – 17:15)
• Protection of NIs against river floods in Germany – Gernot Thuma, GRS (17:15 – 17:45)
• Protection of NIs against river floods in Switzerland – Rainer Hausherr, ENSI (17:45 – 18:15)

18:30 Reception

Friday, March 23

9:00-12:30 Session 3 - Protection of NIs against river floods (continued)

Chair Session 3: Dries Gryffroy, BelV

• Operating experience with flood protection measures – Zdenko Simic, JRC (9:00 – 9:30)
• Advances in flood risk management in The Netherlands - dyke failure & solutions – Saskia van Vuren, Rijkswaterstaat (9:30 – 10:00)

Discussion, questions and answers on flood protection measures (10:00 – 10:30)

10:30 – 11:00 Coffee break

• Panel Session on flood protection measures – Saskia van Vuren, Rijkswaterstaat; Roger Kay, U.S. Army Corps of Engineers; Denis Jautzy, EDF; Dries Gryffroy, BelV; Rapporteur - Michelle Bensi, University of Maryland (11:00 – 12:30)

12:30 – 13:30 Lunch

13:30-15:00 Closing Session

Chair Closing Session: Gernot Thuma, GRS

• Rapporteur reports
• Closing Session Panel – Dries Gryffroy, BelV; Vincent Rebour, IRSN; John Nakoski, U.S. NRC (13:30 – 14:30)

• Findings, conclusions and recommendations for further work (14:30 – 15:00)

15:15-18:00 WGEV Members internal discussion