

MDEP Brainstorming Workshop on Light-Water Small, Medium and Modular Reactors (LW-SMMR)

10-11 June 2024 ■ Ankara, Türkiye



PROGRAMME

Day 1: Monday, 10 June 2024

08:30-09:00 (GMT+3): Registration / Connection

09:00-09:30: Welcome and opening of the conference

- Workshop Chair, MDEP Chair, Mr Alexey Ferapontov
- NEA Director General William, D. Magwood, IV
- NDK Vice-President, Mr Ibrahim Halil Dere
- Senior Adviser of ARN, Mr Abel Gonzalez

09:30-11:00 (GMT+3)

Session 1: SMMR designs presentations

Moderator: Necati Kaya, Deputy General Manager, Türkiye Nuclear Energy Inc., Türkiye

Panellist:

- Safety Regulation Aspects for Nuclear Power Plant with RITM-200N SMR. Alexey Ferapontov, Deputy Chairman of Rostechнадзор, Russia
- Safety regulation aspects of floating power units with the RITM-200C reactor unit. Mikhail Alyokhin, Department Head, Rostechнадзор, Russia
- Water cooled K-SMR development for carbon free future. Han Ok Kang, Vice-President of SMART development Group, S. Korea

Q&A discussion

11:00-11:30 (GMT+3): Coffee break

11:30-13:00 (GMT+3)

Session 2: LW-SMMR's Principle for the Prevention and Mitigation of Accidents (application of the first principle of Vienna Declaration)

Moderator: Tania Veneau, Senior Nuclear Safety Officer at IAEA

Panellists:

- Regulatory Control Features and Principles for a Land-Based RITM-200N SNPP Project. Yaroslav Bykh, Group Head / Vladimir Galitskikh, Department Deputy Head, OKBM, Russia
- Application of the first principle of Vienna Declaration. Abel Gonzalez, Senior Adviser / Victor Ibarra, ARN, Argentina

Q&A discussion

13:00-14:00 (GMT+3): Lunch break

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14.00-15.30 (GMT+3)

Session 3: Justification of the material selection for LW-SMMR reactor and primary and secondary circuits; validate the strength and lifetime of the materials used

Moderator: Oya Özdere, Head of Project Management Group, NDK, Türkiye

Panellist: Justification of the material selection for LW-SMMR reactor and primary and secondary circuits; validation of strength and lifetime of the materials used. Evgeny Kapralov, Director of licensing division of JSC Atomstroyexport, Russia

Q&A discussion

15.30-16.00 (GMT+3): Coffee break

16.00-17.30 (GMT+3)

Session 4: Future perspective of recycling of SMMRs

Moderator: Fulvio Mascari, Researcher at ENEA, Italy

Panellist: Future perspective of recycling of SMMRs. Abel Gonzalez, Senior Adviser of ARN, Argentina

Q&A discussion

17.30-17.35 (GMT+3): Closing – Day 1

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Day 2: Tuesday, 11 June 2024

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Session 5: Verification and validation (V&V) computer benchmarking for LW-SMMRs

Moderator: Krzysztof Fornalski, Technical Director of Last Energy Poland, Poland

Panellist: Challenges in Code Usage and Validation on China's Small Modular Reactor ACP100. Gaojian Dang, Deputy Chief Designer of SMR, Nuclear Power Institute of China, People's Republic of China

Q&A discussion

10.30-11.00 (GMT+3): Coffee break

11.00-12.30 (GMT+3)

Session 6: Implementation of Probabilistic Safety Assessment (PSA) of LW-SMMR

Moderator: Mikhail Ivochkin, Head of Risk Analysis Department, SEC NRS, Russia

Panellist: Implementation of PSA to CAREM. Victor Ibarra, ARN, Argentina

Q&A panel discussion

12.30-13.30 (GMT+3): Lunch break

13.30-15.00 (GMT+3)

Session 7: Research needs relevant to LW-SMMR

Moderator: Prof. Dr. Uğur Çevik, Vice President of Turkish Energy, Nuclear and Mineral Research Agency (TENMAK), Türkiye

Panellists:

- Progress of SMR test facility. Danrong Song, Chief Designer of SMR, Nuclear Power Institute of China, People's Republic of China
- Main R&D needs for LW-SMR. Fulvio Mascari, Researcher at ENEA, Italy

Q&A discussion

15.00-15.20 (GMT+3): Coffee break

15.20-16.50 (GMT+3)

Session 8: Defense in depth (DiD) principles applicability to LW-SMMR

Moderator: Ali Özkara, Head of Nuclear Systems Group NDK, Türkiye

Panellists:

- Realization of defense-in-depth principles for light water small modular reactors (SMMR). Igor Drykin, Director of low-power nuclear power plants division of JSC GSPI, Russia

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- IAEA Activities on LW-SMRs and the implementation of Defence in Depth principles.
Tania Veneau, Senior Nuclear Safety Officer at IAEA

Q&A discussion

16.50-17.20 (GMT+3): Coffee break

17.20-18.30 (GMT+3): Conclusion

Roundtable:

Moderator: Abel Gonzalez, Vice-Chair of MDEP, Senior Adviser of ARN, Argentina

Panellists: all the presenters and moderators

Closure speeches:

- NNSA Deputy Director General, Mr Hou Yingdong
- NDK Vice-President, Mr Ibrahim Halil Dere
- Senior Adviser of ARN, Mr Abel Gonzalez

18.30-18.35 (GMT+3): Wrapping up the workshop