



60 Years

IAEA

Atoms for Peace and Development

NSNI Priorities related to Advanced Nuclear Plant Designs

Vesselina Ranguelova

Head, Safety Assessment Section

Division of Nuclear Installation Safety

Department of Nuclear Safety and Security

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NSNI Priorities on Advanced NPP: 2020 and beyond

- SMR Regulator's Forum
- Review of current Safety Standards framework
- Launching SMR Technical Safety Reviews – Design/ Safety Assessment
- Application of SEED (Site and External Event Design) Safety Review Services to innovative reactors
- Develop new safety framework for implementation of risk informed and performance based methods considering **site-installation** interactions
- Preparing next Conference on topical Issues in Nuclear Safety: Progressing from Evolutionary to Innovative Reactor Designs, 18-21 Oct 22
- Cooperation with NEA & GIF



Safety of Innovative Reactors : IAEA 60 Years

Safety Standards

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- Holistic Technology Neutral Safety and Licensing Framework: safety goals-setting hierarchy of regulations and requirements
- TECDOC “Approach and Methodology for the Development of Regulatory Safety Requirements for the Design of Small Modular Reactors” – under preparation
- TECDOC “Framework for the application of site safety requirements considering the safety features of nuclear installations ” – under preparation
- Applicability of IAEA SS for siting and design safety of SMRs and other Innovative Technologies:
 - TECDOC on Applicability of Design Safety Requirements SSR-2/1 (Rev.1) to SMRs (under publication)
 - TECDOC on Design Robustness of nuclear installations against external hazards (under publication)
 - Review of specific systems design guides
- Safety & Security & Safeguards by design – is it possible?
- Launching SMR Technical Safety Reviews services – Review of Innovative Designs
- Application of SEED (Site and External Event Design) Safety Review Services
- Cooperation with NEA WGRISK, IAGE, WGAMA, WGRNR, GIF RSWG on application of IAEA safety standards to Innovative technologies



Safety of SMRs : SMR Regulators' Forum



Members

- Canada
- China
- Finland
- France
- Republic of Korea
- Russian Federation
- Kingdom of Saudi Arabia
- United Kingdom
- United States of America

Pilot Phase (2015-2017) with 3 WGs:
graded approach; defence in depth and
emergency planning arrangements

Phase 2 (2018-2020) with 3 new WGs:
licensing / design safety and safety analysis /
manufacturing, commissioning and operation

Phase 3 – beyond 2020: mutual recognition
of regulators' assessment/Security by
design, interface with safety/organizational
stakeholders' capabilities

Next SMR Forum meeting: 9-13 November
2020

Observers

Euratom
OECD / NEA

Share SMR regulatory knowledge and
experience among members and other
stakeholders to facilitate international
cooperation among regulators performing
SMR-related assessments

