# Appendix: Topics for Technical Sessions

**Physical protection of nuclear and other radioactive material and facilities**

- Nuclear security of nuclear fuel cycle facilities: emerging technologies and associated challenges and complex threats;
- Research reactor security;
- Design basis threat and threat assessment: prevention and protection;
- Physical protection systems: evaluation and assessment;
- Newcomers to nuclear power and research reactors: opportunities and challenges;
- Nuclear security of new nuclear technologies (e.g., small modular reactors);
- Security by design, including in newcomer countries;
- Transport of nuclear and other radioactive material: practices, challenges and regulatory issues;
- Nuclear security of decommissioned facilities and the facilities being decommissioned;
- International Physical Protection Advisory Service: good practices and lessons learned;
- Application of the graded approach and defence in depth to nuclear security;
- The Amended Convention on the Physical Protection of Nuclear Material review conference in 2021;
- Minimization, on a voluntary basis, of high enriched uranium within civilian stocks and where technically and economically feasible;
- Risk-informed approach to the security of radioactive material in use and in storage;
- Insider threats;
- Nuclear security vulnerability assessments;
- Nuclear material accounting and control; and
- National accounting and control measures of radioactive materials.

**Nuclear and other radioactive material out of regulatory control**

- Building and maintaining nuclear security detection architecture;
- Preventing illicit trafficking of nuclear and radioactive material;
- International Nuclear Security Advisory Service for nuclear and other radioactive material out of regulatory control;
- Detection technology development and performance testing;
- Coordinated response to nuclear security events;
- Nuclear security as part of the security of major public events;
- Nuclear forensics;
- Nuclear security in major urban areas; and
- The IAEA's technical support for States that takes into consideration complex threats and challenges including geographical condition

**Cross-cutting/Overarching topics**

- National nuclear security regulations;
- Capacity building (e.g. human resource development and sustainability, nuclear security education and job-specific performance training including for newcomer countries);
- Role of Nuclear Security Support Centers to support and sustain national nuclear security regimes;
- Implementation of national legislative and regulatory frameworks, and international instruments;
- Information and computer security considerations for nuclear security;
- Information exchange for incidents of nuclear and other radioactive material out of regulatory control;
- Nuclear security culture in practice with a focus on sustainability;
- Nuclear safety and security interfaces;
- Emergency preparedness and response and nuclear security interfaces;
- Establishing and formalizing nuclear security processes into integrated management systems;
- Use of IAEA and other international guidelines for building national nuclear security regimes;
- National nuclear security inspections: training of inspectors, development of procedures and managing findings;
- Good practices in the development and execution of nuclear security exercises (e.g. tabletop, drills and field exercises);
- Identification of national needs through the development of an Integrated Nuclear Security Support Plan;
- Innovative technologies to reduce nuclear security risks and improve cost effectiveness, where feasible;
- Risks and benefits to nuclear security from innovations in other fields, including artificial intelligence and big data;
- Advances in nuclear security research and development; international cooperation on nuclear security research; and
- Contribution of industry to nuclear security.