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IAASS Space Nuclear Systems Safety Technical Committee Mandate

Harmonized International Goals

- Promote an internationally shared understanding among stakeholders (e.g., space agencies and governments, educational institutions, industry, public) of processes, practices and technological goals needed for safe development, launch, operation and disposal of space nuclear systems and missions (orbital, deep-space, and planetary surface).

Space Nuclear Systems Safety Directive

- Study, disseminate, and increase awareness of the safe development, launch, use, and disposal of space nuclear systems and missions. This includes studying past lessons learned, current government and industry best practices, and research into future concepts and practices.
- Specific areas of focus and study may include, but are not limited to, government regulatory and approval frameworks, safety requirements and regulations, safety design features, safe reactor operations in-space, test and analysis approaches of space nuclear systems, radiological protection of the public and Earth environment, planetary protection, astronaut safety when space nuclear payloads are co-manifested on crewed missions/spacecraft, and long-term storage and disposal approaches.

Education Directive

- Educate and train engineers, space agencies, government and intergovernmental agencies, astronauts, and other stakeholders, giving them the opportunity to learn from experienced leaders and internationally agreed upon best practices, and to ensure rigorous, relevant, and internationally integrated research programs.