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Nota di contenuto	EXECUTIVE SUMMARY -- 1. INTRODUCTION -- 2. SMALL MODULAR REACTOR DESIGNS -- 3. APPROACH OF INSAG-10 TO DEFENCE IN DEPTH -- 4. APPLICATION TO SMALL MODULAR REACTORS -- 4.1. Passive features of SMRs compared with large evolutionary nuclear power plants -- 4.2. Common cause failures -- 4.3. Defence in depth -- 4.4. Graded approach -- 4.5. Performance and prescriptive based regulation -- 5. CONCLUSIONS AND RECOMMENDATIONS -- REFERENCES -- MEMBERS OF THE INTERNATIONAL NUCLEAR SAFETY ADVISORY GROUP -- PUBLICATIONS OF THE INTERNATIONAL NUCLEAR SAFETY ADVISORY GROUP
Sommario/riassunto	This publication by the International Atomic Energy Agency (IAEA) focuses on the application of the principle of 'defence in depth' in nuclear safety specifically to small modular reactors (SMRs). Building on previous reports such as INSAG-10, the document elaborates on how these principles can be adapted to the diverse designs and uses of SMRs. It addresses the need for a graded approach considering the unique features of SMRs, including their potential for carbon-free energy generation and advanced safety features. The report aims to guide the design and safety assessment of SMRs, promoting

redundancy, diversity, and protection against hazards, while emphasizing both accident prevention and mitigation. The intended audience includes nuclear safety professionals, regulatory bodies, and those involved in the design and operation of SMRs.