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Nota di contenuto	Cover -- FOREWORD -- CONTENTS -- 1. INTRODUCTION -- 1.1. BACKGROUND -- 1.2. OBJECTIVES AND SCOPE -- 1.3. STRUCTURE -- 2. CURRENT PRACTICES OF WATER USE AND CONSUMPTION IN MAJOR PHASES OF A NUCLEAR POWER PLANT -- 2.1. WATER USE AND CONSUMPTION DURING CONSTRUCTION -- 2.2. WATER USE AND CONSUMPTION DURING COMMISSIONING -- 2.3. WATER USE AND CONSUMPTION DURING OPERATION -- 2.4. WATER USE AND CONSUMPTION DURING SHUTDOWN STATE -- 2.5. WATER USE AND CONSUMPTION DURING DECOMMISSIONING -- 2.6. CONCLUSION -- 3. TECHNOLOGIES AVAILABLE FOR COOLING SYSTEMS -- 3.1. OPEN LOOP COOLING -- 3.2. CLOSED COOLING SYSTEMS -- 3.3. BASIS FOR SELECTION OF COOLING SYSTEMS -- 3.4. EXAMPLES OF POWER PLANTS OPERATING WITH WET DRY OR HYBRID COOLING SYSTEMS -- 3.5. CONCLUSION -- 4. TECHNOLOGIES AVAILABLE FOR PRODUCTION OF INDUSTRIAL AND POTABLE WATER -- 4.1. INDUSTRIAL AND POTABLE WATER USE IN NPPs -- 4.2. TECHNOLOGIES FOR RAW WATER TREATMENT -- 4.3. TECHNOLOGIES FOR PRODUCTION OF INDUSTRIAL AND POTABLE WATER -- 4.4. CONCLUSION -- 5. STRATEGIES FOR REDUCTION OF WATER USE AND CONSUMPTION IN NUCLEAR POWER PLANTS -- 5.1. REDUCTION OF WATER USE AND CONSUMPTION IN COOLING SYSTEMS -- 5.2. REDUCTION OF INDUSTRIAL AND POTABLE

WATER USE AND CONSUMPTION -- 5.3. REDUCTION OF WATER USE AND CONSUMPTION FOR WASTE DILUTION -- 5.4. STRATEGIES FOR OPTIMIZING WATER USE AND CONSUMPTION IN MAJOR PHASES OF A NUCLEAR POWER PLANT -- 5.5. CONCLUSION -- 6. FUTURE NPP DESIGNS FOR IMPROVED WATER MANAGEMENT -- 6.1. NEW CONCEPTS OF WATER COOLED REACTOR SYSTEMS AND COMPONENTS TO IMPROVE WATER MANAGEMENT -- 6.2. TRENDS IN SPENT FUEL MANAGEMENT -- 6.3. NEW TECHNOLOGIES FOR REDUCING ACTIVE LIQUID WASTE DILUTION REQUIREMENTS -- 6.4. NEXT GENERATION REACTORS (GENERATION IV) -- 6.5. CONCLUSION -- 7. CONCLUSION -- Appendix - CURRENT PRACTICES ON WATER USE/CONSUMPTION AND MANAGEMENT IN NPPs. A.1. TURKEY POINT NUCLEAR POWER PLANT -- A.2. PALO VERDE NUCLEAR POWER PLANT -- A.3. DIABLO CANYON NUCLEAR POWER PLANT -- A.4. WATER USE DURING DECOMMISSIONING BASED ON US PRACTICES -- A.5. VALUES REGARDING COOLING WATER SYSTEMS OF SOME EXEMPLARY PLANTS -- GLOSSARY -- REFERENCES -- ABBREVIATIONS -- CONVERSION FACTORS -- CONTRIBUTORS TO DRAFTING AND REVIEW.

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### Sommario/riassunto

In an effort to illustrate the sustainability of nuclear power, this publication discusses current practices on water requirements in nuclear power plants, possible future trends in design of water cooled reactors and the technologies employed. It analyses best practices and strategies for lower water withdrawal rates and presents the trade-off between production of electricity and water use and consumption, hence types of cooling systems to be selected. The book thus aims at enhancing the understanding of the issues related to water use, consumption, and management in a big picture.

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